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Session handouts are available at www.apta.org/CSM. Use code CSM2015.
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## SESSION CODES

CSM 2015 employs a session code system to better track the educational sessions offered in Indianapolis. Each session is identified by a 2-letter section abbreviation, followed by a number indicating the day of the session, a letter indicating the time, and a 4-digit code unique to that session. A guide to the codes is below.

<table>
<thead>
<tr>
<th>Section</th>
<th>Abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Care</td>
<td>AC</td>
</tr>
<tr>
<td>Aquatic Physical Therapy</td>
<td>AQ</td>
</tr>
<tr>
<td>Cardiovascular and Pulmonary</td>
<td>CP</td>
</tr>
<tr>
<td>Clinical Electrophysiology and Wound Management</td>
<td>CE</td>
</tr>
<tr>
<td>Education</td>
<td>ED</td>
</tr>
<tr>
<td>Federal Physical Therapy</td>
<td>FD</td>
</tr>
<tr>
<td>Geriatrics</td>
<td>GR</td>
</tr>
<tr>
<td>Hand Rehabilitation</td>
<td>HR</td>
</tr>
<tr>
<td>Health Policy and Administration</td>
<td>HP</td>
</tr>
<tr>
<td>Home Health</td>
<td>HH</td>
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<tr>
<td>Neurology</td>
<td>NE</td>
</tr>
<tr>
<td>Oncology</td>
<td>ON</td>
</tr>
<tr>
<td>Orthopaedics</td>
<td>OR</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>PD</td>
</tr>
<tr>
<td>Private Practice</td>
<td>PP</td>
</tr>
<tr>
<td>Research</td>
<td>RE</td>
</tr>
<tr>
<td>Sports Physical Therapy</td>
<td>SP</td>
</tr>
<tr>
<td>Women’s Health</td>
<td>WH</td>
</tr>
</tbody>
</table>

**DATE & TIME**

(February 5, Block 1)

**HH-1A-2712**

<table>
<thead>
<tr>
<th>SECTION</th>
<th>Unique ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Home Health)</td>
<td>(2712)</td>
</tr>
</tbody>
</table>

**Preconference**

| Day 1: Tuesday, February 3 | P1    |
| Day 2: Wednesday, February 4 | P2    |

**Education Sessions**

| Day 1: Thursday, February 5 | 1 |
| Day 2: Friday, February 6   | 2 |
| Day 3: Saturday, February 7 | 3 |

**Time**

| 1st Block: 8:00 am–10:00 am | A |
| 2nd Block: 11:00 am–1:00 pm  | B |
| 3rd Block: 3:00 pm–5:00 pm   | C |

Session handouts are available at www.apta.org/CSM. Use code CSM2015.
General Information

All educational programming will occur at the Indiana Convention Center (ICC), the JW Marriott (M), and the Westin Indianapolis (W). These location abbreviations will appear next to the listings in the program. The daily schedule is as follows:

8:00 am–10:00 am ......................................................................................................... Educational Programming
10:00 am–11:00 am ......................................................................................................... Break
11:00 am–1:00 pm ........................................................................................................... Educational Programming
1:00 pm–3:00 pm ........................................................................................................... Unopposed Exhibit Hall Time
3:00 pm–5:00 pm ........................................................................................................... Educational Programming

THE 18 SPECIAL-INTEREST SECTIONS OF APTA

Thank you to all component leadership. For more information on a specific component, please visit their website below.

<table>
<thead>
<tr>
<th>Section</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACUTE CARE SECTION</td>
<td>acutept.org</td>
</tr>
<tr>
<td>AQUATIC PHYSICAL THERAPY SECTION</td>
<td>aquaticpt.org</td>
</tr>
<tr>
<td>CARDIOVASCULAR AND PULMONARY SECTION</td>
<td>cardiopt.org</td>
</tr>
<tr>
<td>SECTION ON CLINICAL ELECTROPHYSIOLOGY AND WOUND MANAGEMENT</td>
<td>aptasce-wm.org</td>
</tr>
<tr>
<td>EDUCATION SECTION</td>
<td>aptaeducation.org</td>
</tr>
<tr>
<td>FEDERAL PHYSICAL THERAPY SECTION</td>
<td>federalpt.org</td>
</tr>
<tr>
<td>ACADEMY OF GERIATRIC PHYSICAL THERAPY</td>
<td>geriatricspt.org</td>
</tr>
<tr>
<td>HAND REHABILITATION SECTION</td>
<td>handrehabsection.com</td>
</tr>
<tr>
<td>HEALTH POLICY AND ADMINISTRATION SECTION</td>
<td>aptahpa.org</td>
</tr>
<tr>
<td>HOME HEALTH SECTION</td>
<td>homehealthsection.org</td>
</tr>
<tr>
<td>NEUROLOGY SECTION</td>
<td>neuropt.org</td>
</tr>
<tr>
<td>ONCOLOGY SECTION</td>
<td>oncologypt.org</td>
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<tr>
<td>ORTHOPAEDIC SECTION</td>
<td>orthopt.org</td>
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<tr>
<td>SECTION ON PEDIATRICS</td>
<td>pediatricapta.org</td>
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<tr>
<td>PRIVATE PRACTICE SECTION</td>
<td>ppsapta.org</td>
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<td>SECTION ON RESEARCH</td>
<td>ptresearch.org</td>
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<tr>
<td>SPORTS PHYSICAL THERAPY SECTION</td>
<td>spts.org</td>
</tr>
<tr>
<td>SECTION ON WOMEN’S HEALTH</td>
<td>womenshealthapta.org</td>
</tr>
</tbody>
</table>
APTA WAY

Indiana Convention Center  Exhibit Halls GHIJK

Visit aisles 400/500 (APTA Way) in the Exhibit Hall to learn more about all APTA has to offer. APTA staff representing the Membership Department, the APTA Learning Center, PT-PAC, and many other APTA programs and services will be on hand to answer questions.

CONTINUING EDUCATION UNITS (CEUs)

Attendance at CSM 2015 is worth up to 19 contact hours or 1.9 CEUs. **All sessions are .2 CEUs (or 2 contact hours) unless otherwise noted.**

Over 40 licensure agencies for physical therapists and physical therapist assistants have licensure renewal requirements that include completion of continuing education or continuing competence activities. For specific information related to your licensure requirements, please see [www.apta.org/licensure](http://www.apta.org/licensure) and click on Practice Acts by State or contact your licensure board.

A number of state licensure boards require documentation of learning time spent on content covering evaluative procedures to fulfill direct access certification requirements. Specific educational session information can be found at [www.apta.org/csm/ceu](http://www.apta.org/csm/ceu).

APTA is an approved provider through the National Athletic Trainers Association (NATA Board of Certification Approved Provider #P1151). For additional information on CEU approval, see APTA’s website at [learningcenter.apta.org/CEUinfo.aspx](http://learningcenter.apta.org/CEUinfo.aspx).

Educational session and preconference course speakers may be compensated by the activity’s sponsoring section for their participation as presenters. All presenters are required to exclude promotional content from their instructional methods or materials and to disclose relevant biases or conflicts of interest at the start of their presentations.

CONTINUING EDUCATION POLICY

Course content is not intended for use outside the scope of the learner’s license or regulation. Clinical continuing education should not be taken by individuals who are not licensed or otherwise regulated, unless they are involved in a specific plan of care.

SCANNING

APTA provides an electronic system of badge scanning to verify attendance to educational sessions. Please have your badge scanned upon entrance to each session. If you change sessions, the last session scanned during a given time block will be the only session recorded.

Your session transcript and CEU letter of participation will be available in the APTA Learning Center at [www.apta.org/learningcenter](http://www.apta.org/learningcenter) through 2019. Click on My Courses to claim your CEU credit and download your letter and transcript. CEUs will be available in March 2015.

ELECTRONIC DEVICES

Please be considerate of speakers and other attendees by turning off your cell phones and other handheld devices during sessions.

EXHIBIT HALL

Indiana Convention Center  Exhibit Halls GHIJK

Enjoy more time in the Exhibit Hall at CSM 2015! Visit our exhibitors to learn more about their wide variety of products, services, and technology available to physical therapy professionals. Please take time to thank our exhibitors, as their participation is critical to the success of the meeting.

Please note that children under the age of 16 are not permitted in the Exhibit Hall.

**Exhibit Hall Hours**

Thursday, February 5 .........................................9:30 am–4:00 pm  
Friday, February 6 ..............................................9:30 am–3:00 pm  
Saturday, February 7 .........................................9:30 am–3:00 pm  

**Daily Unopposed Hours**

Thursday, February 5 .........................................1:00 pm–3:00 pm  
Friday, February 6 ..............................................1:00 pm–3:00 pm  
Saturday, February 7 .........................................1:00 pm–3:00 pm  

HANDOUTS AND ABSTRACT ACCESS

Speakers are encouraged to provide handouts for attendees but are not required to do so, and so not all sessions include handouts.

The handouts will be accessible from the programming link that appears on APTA’s website at [www.apta.org/csm](http://www.apta.org/csm). All conference attendees have electronic access to the handouts using the password CSM2015 through July 31, 2015.

INFORMATION DESKS

Have a question about CSM? APTA staff is ready to help you make the most of your CSM experience. Visit one of the CSM Information Desks near Registration at the ICC, on Level 2 of the JW Marriott, or on Level 1 of the Westin. Information Desks will be staffed daily beginning at 7:00 am.

MOBILE APP

CSM’s mobile app allows you to build customized schedules, learn more about exhibiting companies, and receive schedule updates. To get the app, scan the QR code on the front of this program, or search for the app in your Android or iPhone app store by using the keyword CSM 2015. In addition, you can go to [apta.expotogo.com/csm](http://apta.expotogo.com/csm) to download the app.
MOTHER’S ROOM

Indiana Convention Center / First Floor

This room is reserved for the needs of nursing mothers. Please note that no refrigeration is provided.

POSTER PRESENTATIONS

Indiana Convention Center / Hall K

The sections have joined together to present posters on various physical therapy topics. Posters may be viewed during Exhibit Hall hours. Refer to page 130 for a listing of poster presentations. Authors will be available to discuss their posters from 1:00 pm to 3:00 pm on the days listed below.

CSM 2015 also offers extended poster viewing time Thursday through Saturday from 7:00 am to 9:30 am. Please note that authors may not be available to discuss their posters during these extended hours.

Thursday, February 5
Aquatics, Clinical Electrophysiology and Wound Management, Geriatrics, Health Policy and Administration, Research, Sports (Biomechanics, Case Studies, Knee, Knee–ACL, Running, Shoulder/Elbow, Spine, Sports Residency), and Orthopaedic (Performing Arts, Elbow/Wrist/Hand, Poster Award Candidates, and Other)

Friday, February 6
Acute Care, Cardiovascular and Pulmonary, Education, Federal Physical Therapy, Neurology (Balance and Falls, Stroke, and Vestibular SIGs), Orthopaedic (Occupational Health, Spine, and Shoulder SIGs), and Private Practice

Saturday, February 7
Home Health, Neurology (Brain Injury, Degenerative Diseases, General, Practice Issues, and SCI SIGs), Oncology, Orthopaedic (Foot/Ankle, Hip/Knee, and Pain Management SIGs), Pediatrics, and Women’s Health

Poster Presenters
Poster presenters can check in outside Hall K on the street level of the Indiana Convention Center. Poster check-in hours are:

Wednesday, February 4 4:00 pm–6:00 pm
Thursday, February 5 7:00 am–4:00 pm
Friday, February 6 7:00 am–4:00 pm
Saturday, February 7 7:00 am–1:00 pm

REGISTRATION

Indiana Convention Center / Hoosier Lobby

Hours
Thursday, February 5 7:00 am–4:00 pm
Friday, February 6 7:00 am–3:00 pm
Saturday, February 7 7:00 am–2:00 pm

SESSION CAPACITY

Although every effort is made to provide adequate seating for all attendees, on occasion rooms are filled to capacity. Fire codes prevent APTA from allowing more individuals in a room than designated by law. Allow yourself sufficient time to arrive at sessions and, when rooms are filling up, please remove personal items from seats and select seats in the front of the room and in the middle of rows. APTA encourages attendees to select alternative sessions in advance in the event that space is unavailable.

SPEAKER ROOM

Indiana Convention Center / Room 130

Education Session Speakers and Platform Presenters

Education session speakers and platform presenters must check in at the main Registration Desk in the Indiana Convention Center Hoosier Lobby (Level 1). Audiovisual equipment is available to presenters in the speaker room, Room 130.

Speaker Room Hours
Thursday, February 5 7:00 am–3:00 pm
Friday, February 6 7:00 am–3:00 pm
Saturday, February 7 7:00 am–2:00 pm

WI-FI AVAILABILITY

Free Wi-Fi is available throughout the Indiana Convention Center.
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—Karen Christen
Director, Rehabilitation Services
FHN Memorial Hospital

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### Wednesday, February 4

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<th>Location</th>
</tr>
</thead>
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<tr>
<td>New Component President Orientation</td>
<td>7:00 am–8:00 am</td>
<td>M 301</td>
</tr>
<tr>
<td>Resource Central Express</td>
<td>7:30 am–3:00 pm</td>
<td>M First Floor Prefunction Area</td>
</tr>
<tr>
<td>Specialization Academy of Content Experts (SACE) 1 Workshop</td>
<td>8:30 am–12:00 pm</td>
<td>M Grand Ballroom 9</td>
</tr>
<tr>
<td>Specialization Academy of Content Experts (SACE) 2 Workshop</td>
<td>8:30 am–4:00 pm</td>
<td>M Grand Ballroom 7</td>
</tr>
<tr>
<td>PTJ Editorial Board meeting</td>
<td>8:30 am–4:30 pm</td>
<td>ICC 136</td>
</tr>
<tr>
<td>Component Leadership Meeting</td>
<td>8:30 am–5:00 pm</td>
<td>M Grand Ballroom 5</td>
</tr>
<tr>
<td>Specialization Academy of Content Experts (SACE) Luncheon</td>
<td>12:00 pm–1:30 pm</td>
<td>M Grand Ballroom 2</td>
</tr>
<tr>
<td>CCIW Meeting</td>
<td>1:00 pm–5:00 pm</td>
<td>M 308</td>
</tr>
<tr>
<td>ACAPT Member Meeting &amp; Reception</td>
<td>3:30 pm–7:30 pm</td>
<td>M Grand Ballroom 2</td>
</tr>
<tr>
<td>Section Presidents Meeting With APTA Executive Committee</td>
<td>5:00 pm–6:00 pm</td>
<td>M 303</td>
</tr>
<tr>
<td>JOSPT Reviewers Reception</td>
<td>6:00 pm–8:00 pm</td>
<td>W State</td>
</tr>
<tr>
<td>Astym Reception</td>
<td>6:30 pm–10:00 pm</td>
<td>M Grand Ballroom 4</td>
</tr>
<tr>
<td>Opening Ceremonies</td>
<td>8:00 pm–9:30 pm</td>
<td>ICC Sagamore Ballroom 4</td>
</tr>
<tr>
<td>Opening Reception</td>
<td>9:30 pm–10:30 pm</td>
<td>ICC Sagamore Ballroom 5</td>
</tr>
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</table>

### Thursday, February 5

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Membership Development Round Table</td>
<td>6:30 am–8:00 am</td>
<td>M 201</td>
</tr>
<tr>
<td>CPG Meeting for Guideline Development Groups</td>
<td>6:30 am–8:00 am</td>
<td>ICC 211</td>
</tr>
<tr>
<td>ACAPT Diversity Task Force Meeting</td>
<td>8:00 am–9:30 am</td>
<td>M 301</td>
</tr>
<tr>
<td>Component Leadership Meeting Day 2: Management &amp; Operations</td>
<td>8:00 am–4:00 pm</td>
<td>M 306</td>
</tr>
<tr>
<td>Reference Committee Appointments</td>
<td>9:00 am–5:00 pm</td>
<td>ICC Conference Room West</td>
</tr>
<tr>
<td>JOSPT Members Meeting</td>
<td>1:00 pm–3:00 pm</td>
<td>W Congress</td>
</tr>
<tr>
<td>ACAPT Research Intensive Programs in Physical Therapy Consortium (RIPPT) Meeting</td>
<td>1:00 pm–3:00 pm</td>
<td>M White River Ballroom C</td>
</tr>
<tr>
<td>Western Regional Caucus Meeting</td>
<td>6:30 pm–7:30 pm</td>
<td>ICC 114</td>
</tr>
<tr>
<td>Minority Affairs Reception</td>
<td>6:30 pm–7:30 pm</td>
<td>M Grand Ballroom 4</td>
</tr>
<tr>
<td>Neuroconsortium Mentor Roundtable</td>
<td>6:30 pm–7:30 pm</td>
<td>M 206</td>
</tr>
<tr>
<td>Creighton University Alumni &amp; Friends Reception</td>
<td>6:30 pm–8:00 pm</td>
<td>M 104</td>
</tr>
<tr>
<td>PTA Town Hall Meeting</td>
<td>6:30 pm–8:00 pm</td>
<td>ICC 232</td>
</tr>
<tr>
<td>University of Washington Alumni Gathering</td>
<td>6:30 pm–8:00 pm</td>
<td>M White River Ballroom G</td>
</tr>
<tr>
<td>Midwestern University PT Alumni &amp; Friends Reception</td>
<td>6:30 pm–8:00 pm</td>
<td>M 203</td>
</tr>
<tr>
<td>USC Alumni Reception</td>
<td>6:30 pm–8:00 pm</td>
<td>W Grand 4</td>
</tr>
<tr>
<td>Ohio University Alumni Reception</td>
<td>6:30 pm–8:00 pm</td>
<td>W Grand 3</td>
</tr>
<tr>
<td>UMSOM PTRS Alumni &amp; Friends Reception</td>
<td>6:30 pm–8:30 pm</td>
<td>M Grand Ballroom 10</td>
</tr>
</tbody>
</table>
Reception Honoring Mary Jane Harris  
6:30 pm–8:00 pm  
M 205

Forum on Recertification  
6:30 pm–8:00 pm  
ICC 211

Rutgers University Alumni, Faculty, & Student Reception  
6:30 pm–8:00 pm  
W House

University of Wisconsin—Madison PT Alumni Reception  
6:30 pm–8:30 pm  
M 101

APTA Components: Practice, Payment, and State Legislative Chairs Meeting  
6:30 pm–8:30 pm  
M 306

MGH IHP Alumni  
6:30 pm–8:30 pm  
M 207

Shenandoah University Alumni Reception  
6:30 pm–8:30 pm  
M 204

University of Dayton DPT Alumni Event  
6:30 pm–8:30 pm  
M 202

Boston University Physical Therapy Alumni Event  
6:30 pm–8:30 pm  
M 204

Build Your Career Reception  
6:30 pm–8:30 pm  
M Grand Ballroom 9

Cleveland State University Retirement Celebration for Dr Karen O’Loughlin & Alumni Reception  
6:30 pm–8:30 pm  
M White River Ballroom J

University of North Dakota Physical Therapy Alumni & Friend Reception  
6:30 pm–8:30 pm  
W Grand 2

A.T. Still University—Arizona School of Health Sciences Alumni Reception  
6:30 pm–8:30 pm  
M Grand Ballroom 2

University of North Carolina Alumni and Friends Reception  
6:30 pm–8:30 pm  
M Grand Ballroom 7

Midwest Regional Caucus Meeting  
6:30 pm–8:30 pm  
ICC 112

Northeast Regional Caucus Meeting  
6:30 pm–8:30 pm  
ICC 113

Southern Regional Caucus Meeting  
6:30 pm–8:30 pm  
ICC 111

University of Miami Alumni Party  
6:30 pm–8:30 pm  
W Capitol III

Northeastern University Department of Physical Therapy, Movement, and Rehabilitation Sciences Reception  
6:30 pm–8:30 pm  
M Grand Ballroom 8

University of St Augustine for Health Sciences Alumni and Friends Reception  
6:30 pm–8:30 pm  
M Grand Ballroom 1

Columbia University Alumni Party  
6:30 pm–8:30 pm  
M White River Ballroom I

All Iowa Reception  
6:30 pm–8:30 pm  
M 303

Bellarmine University / University of Louisville Alumni Reception  
6:30 pm–8:30 pm  
M 208

Friends of Otago and High Point University  
6:30 pm–9:00 pm  
W Cabinet

University of Michigan Alumni Reception  
7:00 pm–9:00 pm  
M White River Ballroom E

Missouri State University—Gathering for Alumni, Students, & Friends  
7:00 pm–9:00 pm  
M 201

US Army–Baylor University Alumni and Federal Physical Therapy Section Social Reception  
7:00 pm–9:00 pm  
M Grand Ballroom 3

UK CHS Physical Therapy Reception  
6:30 pm–9:30 pm  
M 102

2015 UIC Alumni Reception  
7:00 pm–9:30 pm  
W Grand 1

University of Colorado Alumni & Friends Reception  
7:00 pm–10:30 pm  
W Capitol II

RFUMS PT/DPT Alumni Reception  
7:30 pm–9:30 pm  
M White River Ballroom H
FRIDAY, FEBRUARY 6

CCIP Trainer Forum
6:00 am–7:30 am
M 205

Health Systems Rehab Community Meeting
6:30 am–8:00 am
M 303

Foundation Networking Coffee: Meet Our New Award Recipients
6:30 am–8:30 am
W Grand Foyer

RF-PTCAS Program Directors Meeting
7:00 am–8:00 am
W Grand 3

CPG Meeting for Section Representatives
7:00 am–8:00 am
M 301

Student Assembly Board of Directors Meeting
7:00 am–12:00 pm
W Congress

Section Presidents Meeting
8:00 am–10:00 am
M 306

Reference Committee Appointments
9:00 am–2:00 pm
ICC Conference Room West

Manipulation/Mobilization Workgroup
11:00 am–12:00 pm
M 308

JOSPT Board of Directors Meeting
11:00 am–1:00 pm
W Cameral

Chapter Presidents Meeting
1:00 pm–3:00 pm
M 306

Student Assembly Forum
6:30 pm–7:30 pm
M 310

University of New England Alumni Reception
6:30 pm–8:00 pm
M 207

Drexel University Physical Therapy Alumni Reception
6:30 pm–8:00 pm
M 209

Catherine Worthingham Fellows Reception
6:30 pm–8:30 pm
M 208

Washington University in St Louis Alumni Reception
6:30 pm–8:30 pm
M Grand Ballroom 3

Emory University 2015 CSM Reception
6:30 pm–8:30 pm
M 203

Arcadia University Alumni Event
6:30 pm–8:30 pm
M 208

USciences Alumni Event
6:30 pm–8:30 pm
M 312

Residency/Fellowship Career Development Reception
6:30 pm–8:30 pm
W Capitol II

Catherine Worthingham Fellows Reception
6:30 pm–8:30 pm
M 208

Superior Evidence-Based Biomechanics
6:30 pm–8:30 pm
W Caucus

Temple University Alumni Reception
6:30 pm–8:30 pm
W Council

University of Evansville Alumni Reception
6:30 pm–8:30 pm
W Cabinet

University of Findlay Alumni Reception
6:30 pm–8:30 pm
W Chamber

Ohio State Alumni Reception
6:30 pm–8:30 pm
M 3303

Northwestern University Department of Physical Therapy & Human Movement Sciences Reception for Alumni & Friends
6:30 pm–8:30 pm
M 201

Indiana University DPT Alumni & Friends Reception
6:30 pm–9:00 pm
M White River Ballroom C

Loons on the Speedway
7:00 pm–9:00 pm
M 102

Medical University of SC, PT Alumni, Faculty, & Friends Reception
7:00 pm–9:00 pm
M 308

Nova Southeastern University Reception
7:00 pm–9:30 pm
M 206

University of Indianapolis KSPT Alumni Reception
7:00 pm–10:00 pm
M Grand Ballroom 4

Student Assembly Meet & Greet
7:30 pm–8:30 pm
M Grand Ballroom 1

ABPTS Recertification Recognition Reception
8:00 pm–9:00 pm
M Grand Ballroom 7

West Virginia University Alumni & Friends
8:30 pm–11:00 pm
M 205

Session handouts are available at www.apta.org/CSM. Use code CSM2015.
TRI W-G is a company built on quality standards. That means we stand by our products with an almost unheard of 5 year warranty. We meet and exceed some of the toughest safety standards. Come by our booth have a snack and see why we're leading the pack in quality.
### SECTION MEETINGS & EVENTS

**WEDNESDAY, FEBRUARY 4**

**EDUCATION**

*Journal of Physical Therapy Education*

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Editorial Board Meeting</td>
<td>1:00 pm–3:00 pm</td>
<td>W Cabinet</td>
</tr>
</tbody>
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**HOME HEALTH**

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSM Meet &amp; Greet Kick Off</td>
<td>6:30 pm–8:00 pm</td>
<td>M Grand Ballroom 10</td>
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**ORTHOPAEDICS**

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>OHSIG CPG Meeting</td>
<td>4:00 pm–5:00 pm</td>
<td>W Congress I</td>
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<tr>
<td>OHSIG Board of Directors Meeting</td>
<td>5:00 pm–8:00 pm</td>
<td>W Congress I</td>
</tr>
<tr>
<td>Work Comp Advocacy Group</td>
<td>8:00 pm–9:00 pm</td>
<td>W Congress I</td>
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**PRIVATE PRACTICE**

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Board of Directors Meeting</td>
<td>5:00 pm–8:00 pm</td>
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**THURSDAY, FEBRUARY 5**

**CLINICAL ELECTROPHYSIOLOGY AND WOUND MANAGEMENT**

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>SIG Council Meeting</td>
<td>11:00 am–1:00 pm</td>
<td>ICC 115</td>
</tr>
<tr>
<td>Board of Directors Meeting</td>
<td>1:00 pm–3:00 pm</td>
<td>ICC 115</td>
</tr>
<tr>
<td>Electriophysiolgic Agents Forum</td>
<td>3:00 pm–5:00 pm</td>
<td>ICC 115</td>
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**EDUCATION**

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Faculty SIG Meeting</td>
<td>7:00 am–8:00 am</td>
<td>W House</td>
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**FEDERAL PHYSICAL THERAPY**

Federal Physical Therapy Section & US Army–Baylor University Alumni Social Reception

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 pm–9:00 pm</td>
<td>M Grand 3</td>
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**GERIATRICS**

Clinical Specialist Recognition Breakfast

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>6:30 am–7:45 am</td>
<td>W Grand 3</td>
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Balance and Falls SIG Meeting

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<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>7:00 am–8:00 am</td>
<td>ICC 112</td>
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Board of Directors Meeting 1

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>8:00 am–10:00 am</td>
<td>W Council</td>
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Health Promotion and Wellness SIG Meeting

<table>
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<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>10:00 am–11:00 am</td>
<td>ICC 112</td>
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**PT APP**

<table>
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<tbody>
<tr>
<td>11:00 am–12:00 pm</td>
<td>ICC 112</td>
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**Academy of Geriatrics Members Meeting**

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>6:30 pm–10:00 pm</td>
<td>M White River Ballroom C</td>
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**HAND REHABILITATION**

Business Meeting

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>6:30 pm–8:30 pm</td>
<td>W Congress</td>
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</table>

**HEALTH POLICY/ADMINISTRATION**

Pro Bono Catalyst Meeting

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>12:00 pm–1:00 pm</td>
<td>W Chamber</td>
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Technology SIG Meeting

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>1:30 pm–2:30 pm</td>
<td>W Grand 4</td>
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</table>

**ONCOLOGY**

Board of Directors Meeting

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>6:30 pm–9:00 pm</td>
<td>M 312</td>
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**ORTHOPAEDICS**

Imaging SIG Membership Meeting

<table>
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<th>Event</th>
<th>Time</th>
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<tbody>
<tr>
<td>6:30 pm–8:00 am</td>
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PMSIG Membership Meeting

<table>
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<th>Time</th>
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<tbody>
<tr>
<td>7:00 am–8:00 am</td>
<td>ICC Wabash Ballroom 1</td>
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Board of Directors, Committee Chairs, SIG Leadership Meeting

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
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<tbody>
<tr>
<td>6:00 pm–10:00 pm</td>
<td>ICC 136</td>
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Session handouts are available at www.apta.org/CSM. Use code CSM2015.
# Section Meetings & Events

## PEDIATRICS

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Member Breakfast</td>
<td>6:30 am–7:30 am</td>
<td>ICC 239</td>
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## PRIVATE PRACTICE

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Section Reception</td>
<td>6:30 pm–10:00 pm</td>
<td>W State</td>
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## RESEARCH

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>EDGE Task Force Meeting (by invitation)</td>
<td>10:00 am–12:00 pm</td>
<td>M 107</td>
</tr>
<tr>
<td>Qualitative SIG</td>
<td>6:30 pm–7:30 pm</td>
<td>W Caucus</td>
</tr>
<tr>
<td>Evidence-Based Practice SIG</td>
<td>6:30 pm–8:00 pm</td>
<td>W Chamber</td>
</tr>
<tr>
<td>Biomechanics SIG</td>
<td>6:30 pm–8:00 pm</td>
<td>W Capitol I</td>
</tr>
<tr>
<td>Early Career Researcher SIG</td>
<td>7:30 pm–9:00 pm</td>
<td>W Caucus</td>
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## SPORTS PHYSICAL THERAPY

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Teammates Happy Hour</td>
<td>7:00 pm–8:30 pm</td>
<td>M White River Ballroom F</td>
</tr>
<tr>
<td>SPTS Move4PT Fun Run</td>
<td>5:30 am–6:30 am</td>
<td>Indiana State Museum Lawn</td>
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## EDUCATION

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
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<tbody>
<tr>
<td>Physical Therapist Assistant Educators SIG</td>
<td>8:00 am–10:00 am</td>
<td>W Capitol I</td>
</tr>
<tr>
<td>Education Section Reception and Business Meeting</td>
<td>6:30 pm–9:00 pm</td>
<td>W Grand 3</td>
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## FEDERAL PHYSICAL THERAPY

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<tr>
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<tbody>
<tr>
<td>Federal Physical Therapy Section Business Meeting</td>
<td>7:00 am–8:00 am</td>
<td>ICC 202</td>
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## GERIATRICS

<table>
<thead>
<tr>
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<th>Location</th>
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<tbody>
<tr>
<td>Cognitive and Mental Health SIG Meeting</td>
<td>12:00 pm–1:00 pm</td>
<td>ICC 112</td>
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<tr>
<td>Residency and Fellowship SIG Meeting</td>
<td>1:00 pm–2:00 pm</td>
<td>ICC 112</td>
</tr>
<tr>
<td>CSM Programming Meeting</td>
<td>2:00 pm–3:00 pm</td>
<td>ICC 112</td>
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<tr>
<td>GeriNotes Editorial Board Meeting</td>
<td>4:00 pm–5:00 pm</td>
<td>ICC 112</td>
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## HEALTH POLICY/ADMINISTRATION

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Business Meeting and Award Reception</td>
<td>6:30 pm–8:00 pm</td>
<td>W Grand 4</td>
</tr>
<tr>
<td>Global Health Reception</td>
<td>8:00 pm–10:00 pm</td>
<td>W Grand 4</td>
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## HOME HEALTH

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Business Meeting</td>
<td>6:30 pm–8:30 pm</td>
<td>M 306</td>
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## ONCOLOGY

<table>
<thead>
<tr>
<th>Event</th>
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<tbody>
<tr>
<td>HIV SIG Meeting</td>
<td>1:00 pm–2:00 pm</td>
<td>ICC 114</td>
</tr>
<tr>
<td>Business Meeting</td>
<td>6:30 pm–8:00 pm</td>
<td>M Grand Ballroom 2</td>
</tr>
<tr>
<td>Celebration of Life Reception</td>
<td>8:00 pm–10:00 pm</td>
<td>M Grand Ballroom 2</td>
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## ORTHOPAEDICS

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>OHSIG Membership Meeting</td>
<td>7:00 am–8:00 am</td>
<td>ICC 107</td>
</tr>
<tr>
<td>Rose Award Recipient Platform</td>
<td>3:00 pm–4:00 am</td>
<td>ICC 110</td>
</tr>
<tr>
<td>Membership Meeting</td>
<td>4:00 pm–5:30 pm</td>
<td>ICC 202</td>
</tr>
<tr>
<td>Meet &amp; Greet Reception</td>
<td>6:30 pm–7:30 pm</td>
<td>M Grand Ballroom 5</td>
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**FRIDAY, FEBRUARY 6**

## AQUATIC PHYSICAL THERAPY

<table>
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<th>Event</th>
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<tbody>
<tr>
<td>Member Meeting</td>
<td>10:30 am–12:30 pm</td>
<td>M 205</td>
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## CARDIOVASCULAR AND PULMONARY

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<th>Event</th>
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<tbody>
<tr>
<td>Membership Meeting</td>
<td>6:30 pm–8:00 pm</td>
<td>M White River Ballroom I</td>
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## CLINICAL ELECTROPHYSIOLOGY AND WOUND MANAGEMENT

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>SIG Business Meeting</td>
<td>8:00 am–10:00 am</td>
<td>ICC 115</td>
</tr>
<tr>
<td>Diabetic Foot Ulcer Clinical Practice Directions Task Force</td>
<td>1:15 pm–3:15 pm</td>
<td>ICC 116</td>
</tr>
<tr>
<td>Mentor Event</td>
<td>6:30 pm–7:00 pm</td>
<td>W Grand 1</td>
</tr>
<tr>
<td>Business Meeting</td>
<td>7:00 pm–9:00 pm</td>
<td>W Grand 1</td>
</tr>
</tbody>
</table>

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14 APTA Combined Sections Meeting 2015
Section Meetings & Events

Awards Ceremony
7:30 pm–9:00 pm M Grand Ballroom 5

PEDIATRICS
Academic and Clinical Educators SIG Meeting
6:30 am–7:30 am M Grand Ballroom 6
Neonatology SIG Meeting
6:30 am–7:30 am M Grand Ballroom 7
School-Based SIG Meeting
6:30 am–7:30 am M Grand Ballroom 9
Business Meeting
6:30 pm–8:30 pm M Grand Ballroom 9

PRIVATE PRACTICE
PPS Taste Test Reception
6:30 pm–10:00 pm W State Room

RESEARCH
Business Meeting
7:00 am–8:30 am M White River Ballroom 1

SPORTS PHYSICAL THERAPY
Emergency Response SIG Business Meeting
7:00 am–7:45 am ICC Sagamore Ballroom 2
Residency SIG Business Meeting
7:00 am–7:45 am ICC Sagamore Ballroom 4
Shoulder/Hip/Knee SIG Business Meetings
7:00 am–7:45 am ICC Sagamore Ballroom 5
Executive Committee Meeting
8:00 am–12:00 pm ICC Conference Room East
Business Meeting
6:30 pm–7:00 pm Lucas Oil Stadium East Club Lounge
Awards Ceremony
7:00 pm–8:00 pm Lucas Oil Stadium East Club Lounge

WOMEN’S HEALTH
Business Meeting
3:00 pm–5:00 pm ICC 210

SATURDAY, FEBRUARY 7

CLINICAL ELECTROPHYSIOLOGY AND WOUND MANAGEMENT
Venous Leg Ulcer Task Force
11:00 am–1:00 pm ICC 115
Specialization Task Force Meeting
1:00 pm–3:00 pm ICC 115

WIFL Task Force Meeting
3:00 pm–5:00 pm ICC 115

EDUCATION
Education Section Breakfast Round Tables
7:00 am–8:00 am ICC 211
Clinical Education SIG
8:00 am–10:00 am W Capitol II

GERIATRICS
Board of Directors Meeting 2
6:30 am–9:00 am W Council
Bone Health SIG Meeting
10:00 am–11:00 am ICC 112

ORTHOPAEDICS
ARSIG Membership Meeting
7:00 am–8:00 am ICC 107
PASIG Membership Meeting
7:00 am–8:00 am ICC Wabash Ballroom 1

PEDIATRICS
Hospital-Based SIG Meeting
6:30 am–7:30 am M Grand Ballroom 9
Sports Fitness SIG Meeting
6:30 am–7:30 am M Grand Ballroom 2
Adolescents and Adults With Developmental Disabilities SIG Meeting
6:30 am–7:30 am M Grand Ballroom 7
Early Intervention and Neonatology SIG Combined Meeting
3:00 pm–4:00 pm M 105

RESEARCH
Cocktails and Cogitation
5:00 pm–8:00 pm M White River Ballroom C

SPORTS PHYSICAL THERAPY
College-Pro Sports/Performance/Running SIG Business Meetings
7:00 am–7:45 am ICC Sagamore Ballroom 2
Female/Youth/Physically Challenged Athlete SIG
7:00 am–7:45 am ICC Sagamore Ballroom 4
Golf and Golf Performance SIG Business Meeting
7:00 am–7:45 am ICC Sagamore Ballroom 5

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- Henrietta Demaisip, tDPT graduate

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INDIANAPOLIS • FEBRUARY 4-7

CSM 2015

COMBINED SECTIONS MEETING OF THE AMERICAN PHYSICAL THERAPY ASSOCIATION

SCHEDULE AT A GLANCE

THURSDAY, FEBRUARY 5
<table>
<thead>
<tr>
<th>SECTION</th>
<th>8:00 am–10:00 am</th>
<th>11:00 am–1:00 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Care</td>
<td><strong>Post-Intensive Care Syndrome</strong> (AC-1A-1340 • ICC 102)</td>
<td><strong>Sitting Balance Examination &amp; Intervention</strong> (AC-1B-5778 • ICC 102)</td>
</tr>
<tr>
<td>Aquatic Physical Therapy</td>
<td><strong>The Biopsychosocial Model in Critical Illness</strong> (AC-1A-0187 • ICC Room 104)</td>
<td><strong>Decreasing Length of Stay of Vascular LE Amputations</strong> (AC-1B-5642 • ICC 104)</td>
</tr>
<tr>
<td>Cardio &amp; Pulmonary</td>
<td><strong>Robotic, BWS Training, &amp; Aquatic Therapy for SCI</strong> (AQ-1A-6905 • M White River Ballroom C)</td>
<td><strong>Video &amp; the Death of PowerPoint</strong> (ED-1B-0352 • W Capitol I)</td>
</tr>
<tr>
<td>Clinical Electro &amp; Wound Mgmt</td>
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<td><strong>Injuries in Football: From the Adolescent to the NFL</strong> (SP-1B-5973 • ICC Sagamore Ballroom 5)</td>
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<td><strong>Individualized Nutrition for Patients With Pelvic Pain</strong> (WH-1B-9827 • M White River Ballroom E)</td>
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SESSION CODES

CSM 2015 employs a session code system to better track the educational sessions offered in Indianapolis. Each session is identified by a 2-letter section abbreviation, followed by a number indicating the day of the session, a letter indicating the time, and a 4-digit code unique to that session. A guide to the codes can be found on page 3.

ACUTE CARE

BEYOND WEAKNESS AND BEYOND FUNCTION: INTEGRATING THE BIOPSYCHOSOCIAL MODEL INTO PHYSICAL THERAPY IN CRITICAL ILLNESS

8:00 am–10:00 am ICC 104 AC-1A-0187
Speaker: Kyle Ridgeway, PT, DPT

Long-term weakness, functional limitations, activity limitations, disability, and impaired quality of life are well-established complications of a critical illness course. The biopsychosocial model of patient assessment and treatment has been supported as superior to the strict biomedical model of care. In recent years, researchers within and outside of physical therapy have recognized the importance of psychologically informed clinical practice. This session will connect the framework of the biopsychosocial model to currently identified biological-physiologic and psychosocial-environmental issues and deficits observed following critical illness. The potential impact of physical therapy “beyond function” and “beyond weakness” will be conceptualized from a body systems and biopsychosocial-environmental perspective. A global picture of the effect of critical illness will be presented with scientific rationale and plausibility of the profound possibilities that a physical therapist’s involvement may have on this patient population.

Intermediate

POST-INTENSIVE CARE SYNDROME (PICS) ACROSS THE CONTINUUM OF CARE

8:00 am–10:00 am ICC 102 AC-1A-1340
Joint Program: Geriatrics
Speakers: Alan C. Lee, PT, DPT, PhD, CWS, GCS, Jim Smith, PT, DPT, MA, Patricia J. Ohtake, PT, PhD, Alecia Thiele, PT, DPT, MSEd, ATC, LAT

Over 80% of survivors of critical illness experience post-intensive care syndrome (PICS)—a constellation of cognitive, psychological, and physical symptoms. There is a growing demand for rehabilitation services for survivors of critical illness who present with PICS. Individuals with PICS have a unique spectrum of physical impairments, activity limitations, and participation restrictions that require recognition and novel management strategies by physical therapists in inpatient rehabilitation, outpatient, and home care settings. This session will examine the etiology of symptoms comprising PICS and discuss evidence-based tests and measures to objectively evaluate individuals with PICS. Outcomes from recent clinical trials of interventions for people with PICS will be discussed and sample intervention programs will be described. This session will conclude with a discussion of current challenges associated with the evaluation and physical therapy management of individuals with PICS.

Intermediate

DECERING THE LENGTH OF STAY OF VASCULAR LOWER EXTREMIT Y AMPUTATIONS THROUGH A MULTIDISCIPLINARY APPROACH

11:00 am–1:00 pm ICC 104 AC-1B-5642
Speakers: Latasha S. Ruffin, PT, DPT, Phalan L. Bolden, MSN, FNP

This session will educate participants on the benefits of establishing a vascular clinical pathway in the acute care setting. It will identify key players who are essential in providing a holistic approach of patient care. Methods will be discussed on how to develop and implement a new innovative process and gain support from key stakeholders within that specific medical division. Potential barriers surrounding implementation will be discussed as a large group. The presenters will provide details regarding the CMC Vascular Lower Extremity Amputation Pathway, procedures, barriers, and patient outliers.

Intermediate

DON’T JUST SIT THERE: EVIDENCE-BASED SITTING BALANCE EXAMINATION AND INTERVENTION

11:00 am–1:00 pm ICC 102 AC-1B-5778
Speakers: Sharon L. Gorman, PT, DPTsc, GCS, Cathy C. Harro, PT, MS, NCS, Christina Platko, PT, DPT

With the increased need to demonstrate patient progress using standardized outcome measures, it is often difficult for physical therapists to systematically evaluate and document abilities in lower functioning patients. This session will evaluate current research that provides evidence that sitting balance is a significant predictor of functional recovery and is an important measure at both the impairment (balance) and activity levels in the International Classification of Functioning, Disability and Health (ICF model). Evidence-based, reliable, and valid sitting balance and trunk impairment measures will be reviewed, compared, and contrasted. A conceptual framework for evaluation of postural control in sitting will also be discussed as a foundational basis for planning balance retraining interventions to improve sitting function.

Intermediate
ROLE OF SIMULATION IN ENSURING ACUTE CARE PHYSICAL THERAPIST COMPETENCE

3:00 pm–5:00 pm  ICC 102  AC-1C-6492

Speakers: Amy Nordon-Craft, PT, DSc, Wendy Kriekels, PT, DPT, NCS, Daniel Malone, PT, PhD, Patricia J. Ohtake, PT, PhD

The increasing demand for physical therapy services in acute and critical care settings has resulted in a growing need to ensure physical therapists’ competence in these high-risk clinical settings. Simulation provides a realistic, safe environment for learning clinical skills and has been increasingly used in didactic and clinical education components of various health professions programs. Through supervised, mentored practice in simulation experiences, followed by focused debriefing, learners develop technical expertise and communication skills and refine their clinical decision-making skills. This session will review simulation-based physical therapy experiences specific to acute and critical care settings. The pros and cons of various levels of simulation will be explored. The presenters will integrate academic and clinical outcome data from 3 recent projects and highlight the importance of debriefing strategies for participant learning.

Multiple Level

AQUATIC PHYSICAL THERAPY

COMPARISON OF ROBOTIC, BWS TRAINING, AND AQUATIC THERAPY FOR INDIVIDUALS WITH CHRONIC MOTOR INCOMPLETE SCI

8:00 am–10:00 am  M White River Ballroom C  AQ-1A-6905

Joint Program: Neurology

Speakers: Paula Geigle, PhD, Leslie VanHiel, PT, DScPT

This session will focus on the results of a 4-year, multisite trial comparing body-weight-supported locomotor training and aquatic therapy for 31 patients with chronic motor incomplete spinal cord injury. The presenters hypothesized that aquatic therapy would be more effective than robotic locomotor training in improving functional ability as measured by timed walks, a gait mat device, and community step activity monitors. They will also share preliminary evidence-based information on the efficacy of aquatic therapy and robotically assisted, body-weight-supported locomotor training. Finally, the presenters will also talk about the need for more empirical data, as little objective data exists about interventions after spinal cord injury.

Intermediate
DIFFERENCES IN BIOPHYSICAL RESPONSES ON LAND VERSUS WATER: HYDRODYNAMIC PROPERTIES
3:00 pm–5:00 pm M White River Ballroom C AQ-1C-3304
Joint Program: Orthopaedics, Pediatrics
Speakers: Eadric Bressel, PhD, Dennis Dolny, PhD
Questions have arisen regarding differences in how individuals move through shallow water versus a water treadmill. Additionally, one of the least studied areas in aquatic therapy is the influence of a water environment on cognitive function. Previous research in our laboratory has questioned to what extent hydrodynamic properties of water solely accounts for observed differences in measures of postural stability when static balance is performed on land versus water in younger and older subjects. In this session, the presenters will review the research on physiological and biomechanical comparisons of locomotion and explore the implications for water immersion on both motor activation and cognitive function.
Intermediate

CARDIOVASCULAR AND PULMONARY
CURRENT PRACTICE AND SCREENING FOR DEEP VEIN THROMBOSIS AND PULMONARY EMBOLISM: KEEPING UP WITH THE EVIDENCE
8:00 am–10:00 am ICC 209 CP-1A-3098
Speakers: John Heick, PT, DPT, OCS, NCS, James W. Farris, PhD
This session will include pathology leading to the formation of a deep venous thrombosis (DVT) extending to a pulmonary embolism (PE), differential diagnosis of a DVT and PE, and current practice in screening for a DVT or a PE using clinical practice guidelines. Attendees will learn the current standards of practice using clinical decision rules when examining or providing interventions for a patient with a suspected or confirmed DVT or PE. The speakers will present 3 case studies of patients with a DVT or PE to reinforce the implications for clinical practice.
Intermediate

OCCUPATIONAL THERAPY PROFESSIONAL PRACTICE: OPPORTUNITIES FOR PTs TO SHAPE PREVENTION PRACTICES AND OUTCOMES
8:00 am–10:00 am ICC 210 CP-1A-7125
Speakers: Anne Mejia-Downs, PT, MPH, Susan Scherer, PT, PhD
Persistent high rates of chronic health conditions in Americans and changes in health care delivery have advanced the conversation about the importance of prevention in keeping people and populations healthy. For the first time, the government has put forth a national strategy for health promotion and prevention. Physical therapists have many opportunities for expanded roles in prevention efforts, but often are unaware of national initiatives and guidelines that are relevant to physical therapy. APTA recognizes the need for our profession to enhance efforts to engage in prevention and wellness, and included this issue in the APTA Strategic Plan objectives. In this session, the speakers will describe current national health prevention strategies and suggest where physical therapists can be involved. We will demonstrate a few successful PT prevention strategies as examples.
Basic

CARDIOVASCULAR AND PULMONARY RESEARCH UPDATE: A YEAR IN REVIEW
11:00 am–1:00 pm ICC 209 CP-1B-5871
Speakers: Paul Ricard, PT, DPT, CCS, Lawrence P. Cahalin, PT, PhD, CCS
As evidenced by APTA’s Vision 2020 Statement, practitioners need access to and the ability to openly discuss advances in practice and concepts as they apply to the practice of cardiovascular and pulmonary physical therapy. Lack of accessibility, clinical and personal time, or knowledge of article synopsis can hinder this process that is progressing every month many journals over. This session will review the cardiovascular and pulmonary literature published within the past year. This session is meant to provide participants with a broad overview of research and will not be specific to any cardiovascular or pulmonary health condition. The research from this session will have been compiled and categorized into themes with key or sentinel articles highlighted and presented by each speaker including giving his participants.
Multiple Level

16TH ANNUAL LINDA CRANE LECTURE—INTEGRITY: AT THE HEART OF OUR PROFESSION
3:00 pm–5:00 pm ICC 209 CP-1C-7388
Speaker: Ethel Frese, PT, DPT, MHS, CCS

CLINICAL ELECTROPHYSIOLOGY AND WOUND MANAGEMENT
DRY NEEDLING WHILE MINIMIZING POTENTIAL ADVERSE EFFECTS
8:00 am–10:00 am ICC 120 CE-1A-9498
Joint Program: Orthopaedics
Speakers: John S. Halle, PT, PhD, ECS, Matt Hayes, PT, MPT, Robert J. Halle, PT, DPT, OCS, CSCS
Dry needling is an evidence-based treatment technique that is widely accepted and used by physical therapists. This treatment approach focuses on releasing or inactivating muscular trigger points to decrease pain, reduce muscle tension, and assist patients with an accelerated return to active rehabilitation. While commonly used, the technique has some patient risk and the potential value of the treatment needs to be balanced with the inherent risk. This session will outline specific anatomical areas, potential complications, and the incidence of AEs that have been demonstrated with needle insertions. Additionally, suggestions on techniques that should minimize the likelihood of AEs and the need for future research on AEs will be discussed.
Intermediate

Session handouts are available at www.apta.org/CSM. Use code CSM2015.
UPDATE FROM THE NATIONAL PRESSURE ULCER ADVISORY PANEL: NEW 2014 GUIDELINES

8:00 am–10:00 am  ICC 123  CE-1A-9202
Speaker: Stephanie Woelfel-Dyess, PT, MPT, CWS, FACCWS

In 2014, the National Pressure Ulcer Advisory Panel (NPUAP) released new clinical practice guidelines. Rather than just update their 2009 document, completely new guidelines were developed by a truly international partnership. A Consensus Conference on unavoidable pressure ulcers was also held in 2014. This session will describe the new NPUAP clinical practice guidelines.

Intermediate

TENS: EVIDENCE-BASED PRACTICE IN PHYSICAL THERAPY

11:00 am–1:00 pm  ICC 120  CE-1B-7814
Joint Program: Oncology
Speakers: Dana Dailey, PT, PhD, Carol Vance, PT, PhD

This presentation is designed to provide clinicians with a framework for utilization of transcutaneous electrical nerve stimulation (TENS) for a variety of medical conditions including osteoarthritis, fibromyalgia, diabetic peripheral neuropathy, and others. It will focus on the latest research in TENS intensity, TENS duration, electrode placement, and evidence for use of TENS in evidence-based pain management. This speaker will also provide methods for decreasing tolerance to repeated TENS and a review of electrodes available for TENS delivery.

Intermediate

ABI AND TBI: CAPITALIZING ON THE VALUE AND AVOIDING THE BARRIERS

3:00 pm–5:00 pm  ICC 120  CE-1C-0302
Speakers: Deborah M. Wendland, PT, DPT, PhD, CPed, Jane O’Driscoll, PT, CLT, WCC, DAPWCA

The ankle-brachial index (ABI) is a screening tool that is easy to perform and highly effective in the detection of peripheral arterial disease. This session will provide an evidence-based look at the value of using an ABI to drive clinical decision making. This session will also explore clinical decision making for peripheral arterial disease (PAD), venous insufficiency, overall skin health, and the use of compression. Cases will be utilized to differentiate when an ABI is sufficient and when a similar screening tool, the toe-brachial index (TBI), is a more appropriate measure. This session will explore and highlight the benefits of using these measures throughout the continuum of care. Furthermore, the usefulness and application of compression will be discussed in detail. An opportunity for practice of the performance of an ABI will be available.

Multiple Level

CARPAL TUNNEL CLASSIFICATION SYSTEMS: MATCHING THE OUTCOME TO THE QUICKDASH FUNCTIONAL SCALE

3:00 pm–5:00 pm  ICC 123  CE-1C-0504
Joint Program: Hand Rehabilitation
Speakers: Michael C. Lescallette, PT, DPT, ECS, John Lugo, PT, MS, ECS

Three carpal tunnel classification systems have been devised to communicate to the referral source the degree or extent of median nerve entrapment at or about the wrist based on electrophysiologic findings. In the near future, physician reimbursement will depend, in part, on the use and interpretation of functional scales such as the QuickDASH to document improvement (or no improvement) with intervention (surgical, manual, or splinting). This educational session will explore 3 carpal tunnel classification systems currently in use by clinicians. Additionally, the speakers will illustrate how the 3 systems potentially correlate with QuickDASH scores taken from a patient population. Prospective studies are suggested to evaluate the predictive capability of a carpal tunnel classification for the best outcome according to QuickDASH scores.

Intermediate

EDUCATION

EMBARKING ON THE ROAD TRIP AND NAVIGATING THE JOURNEY OF ACADEMIC LIFE

8:00 am–10:00 am  W Capitol I  ED-1A-9399
Joint Program: Research
Speakers: Julie L. Gahimer, HSD, Kate E. DeCleene Huber, OTD, MS, OTR

Have you ever been told, “You are a great teacher, you should pursue a position at a university?” We often tap our best clinicians on the shoulder and say, “Go forth and teach.” However, health care professionals often find that clinical experiences do not always prepare them for the numerous responsibilities essential to an academic setting. The presenters will examine the knowledge, attitude, skills, rewards and challenges associated with transition to an academic career, through the lens of novice and expert faculty. Research across health care disciplines, as well as personal narratives, will be shared. Attendees will leave with answers to better chart their course for their academic journey.

Multiple Level
TO TREAT OR NOT TO TREAT: THE USE OF COMPUTER-ASSISTED LEARNING TECHNOLOGY TO ENHANCE CLINICAL DECISION-MAKING SKILLS OF PT STUDENTS IN THE HOSPITAL ENVIRONMENT

8:00 am–10:00 am  W Capitol III  ED-1A-9495

Speakers: Ellen Costello, PT, PhD, Elizabeth A. Ruckert, PT, DPT, NCS, GCS, Marisa C. Birkmeier, PT, DPT, PCS, Laurie Lyons, MA, Linda Cotton, MA

Attaining clinical education sites in the acute care environment is a growing challenge for physical therapist education programs. Mentoring students can be viewed as a resource drain due to high productivity demands coupled with the complexity of patient care. Computer-assisted learning (CAL) modules have gained popularity as an innovative method for teaching clinical content and skills. In this session, a team of educators, clinicians, and instructional designers who developed a series of 5 CAL modules focused on clinical decision making in the hospital setting will discuss formulating curricular objectives; identifying and establishing outcome measures to assess student performance; content development, including interdisciplinary health professional consultation; and collaboration with instructional designers. They will present examples of the modules, preliminary data, and feedback from students regarding their perception of the CAL modules as a learning activity, and lessons learned.

Multiple Level

REASONABLE ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES: LEGAL AND ETHICAL PERSPECTIVES ON FAIR EXAMINATION POLICIES

8:00 am–10:00 am  W Capitol II  ED-1A-9642

Joint Program: Health Policy

Speakers: Debbie Ingram, PT, EdD, Laura L. Swisher, PT, PhD, MDiv, Renee Mabey, PT, PhD, Thomas Mohr, PT, PhD

Academic programs require students to pass didactic and clinical examinations throughout the physical therapy education program, successfully complete clinical education, and ultimately pass the National Physical Therapy Examination (NPTE) in order to enter practice. An increasing number of PT and PTA students with disabilities request accommodations for academic and/or clinical examinations and clinical education. The number of PT and PTA students requesting accommodations on the NPTE doubled between 2000 and 2009; even with accommodations, the pass rate for students with disabilities was significantly lower for both PT and PTA graduates. There is a need for a comprehensive policy and national dialogue in fulfilling the goals of the Americans With Disabilities Act within physical therapy educational settings. The speakers will explore the complex web of legal, ethical, administrative, and regulatory issues involved in accommodation in physical therapy education, including specific case examples and policy directions.

Multiple Level
TECHNOPALOOZA: INTEGRATION OF TECHNOLOGY INTO SPECIALTY PRACTICE, PART 1
8:00 am–10:00 am  W Grand 4  HP-1A-4727
Joint Program: See Health Policy for more details

ETHICAL CHALLENGES IN ACADEMIA: WHEN THE POLISH ISN'T SO SHINY ON THE IVORY TOWER
11:00 am–1:00 pm  W Grand 3  ED-1B-7944
Joint Program: Health Policy
Speakers: Nancy R. Kirsch, PT, DPT, PhD, Cathy Hinton, PhD
Physical therapists in academia have both the Code of Ethics and the Statement of Professional Ethics as an educator to set their moral compass. Educators often find themselves challenged by their multiple roles that result in ethical quandaries. The clinical site adds a layer of complexity to the lives of PT faculty, raising the stakes and at times introducing a legal component to consider. The presenters will use an audience response system to get feedback on the group’s collective wisdom on these issues, followed by facilitated discussion challenging participants to reach conclusions that lead to moral potency. Cases are real and will cover the spectrum of clinical, student–faculty relationships, boundary issues, research, and academic integrity challenges. What recourse do faculty have when faced with ethical and legal challenges? What responsibilities do faculty have? What limitations may the institution place on these responsibilities?
Intermediate

THE POWER OF VIDEO AND THE DEATH OF POWERPOINT: AN ENGAGING WAY FOR STUDENTS TO DOCUMENT A GERIATRIC-FOCUSED SERVICE LEARNING PROJECT
11:00 am–1:00 pm  W Capitol I  ED-1B-0352
Joint Program: Geriatrics
Speakers: Anne K. Lorio, PT, DPT, NCS, Wil Jones
Service learning is a teaching and learning method that connects meaningful community service experiences with academic learning, personal growth, and civic responsibility. The presenters will discuss a lifespan course on the rehabilitation of the geriatric patient. The course begins with the HBO documentary, “Andrew Jenks: Room 335,” which explores Andrew’s summer living in a senior residence and sets the tone for the course’s service learning project (SLP). In small groups, the students develop, implement, and capture the moments of a student-led and student-generated community activity. Although this course is part of the physical therapy curriculum, the emphasis is not limited to standard/typical PT concerns. This breadth in focus has resulted in a multitude of different types of experiences for past students. The session will end with a viewing of one of the SLP documentaries, titled “Remembering to Feel Better.”
Intermediate

INTEGRATION OF AN EXPANDED PRO BONO PT CLINIC INTO THE DPT CURRICULUM: MAKING THE LEAP
11:00 am–1:00 pm  W Capitol III  ED-1B-9204
Joint Program: Health Policy
Speakers: Jeffrey B. Krug, PT, MS, Jeffrey A. Bridges, PT, DPT, Kyle Gibson, PT, PhD, OCS, Yvonne M. Guest, PT, DPT
Problems: A large population of uninsured patients needing physical therapist services and increased competition for quality clinical sites for students. Solution: Creation of a pro bono clinic (PhysZou) staffed by faculty and community clinicians and PT students, treating neurological, musculoskeletal, and pediatric patients. This mandatory clinic provides a link between classroom pedagogy and clinical expertise. Students participate every semester and demonstrate technical and theoretical skill mastery. Expansion of the clinic has benefited the community, with an increase from 400 to more than 2,000 yearly visits. It also meets the need for varied clinical experiences in a time when options for these are limited. The speakers will discuss how PhysZou was started; its organizational structure, evolution, and current operation; administrative challenges; and the rationale and process by which the clinic was incorporated into an existing curriculum. Outcomes include data regarding student confidence, CPI scores, CI perspectives, development of student civic-mindedness, and the experience from a student’s perspective. This is a best practice model that is scalable and replicable within universities.
Intermediate

HOW TO SUCCEED IN CLINICAL EDUCATION: BEGIN WITH THE END IN MIND!
11:00 am–1:00 pm  W Capitol II  ED-1B-4755
Speakers: Marisa C. Birkmeier, PT, DPT, PCS, Rhea Cohn, PT, DPT, Gabrielle Shumrak, PT, DPT, NCS, Jennifer Gray, PT, MPT, COMT, Heather Richards
Hosting physical therapy students is a commitment of time and energy; however, a successful clinical education program can build staff, facilitate evidence-based practice, develop a pipeline for new recruits, and integrate compliance activities into day-to-day practice. To develop a successful student program in the clinic, site-specific outcome expectations must be established. Two clinical educators from a teaching hospital and an outpatient clinic will share how they developed their programs to meet the needs of the learner, their academic partners, and their sites. Participants will work in small groups of similar clinical settings to identify site-specific expectations for student performance and discuss how they differ across settings. Attendees will identify weekly objectives and learning opportunities within their own clinical settings and link them to the site-specific outcomes identified to maximize learning while achieving the overall goals of the clinical experience. This session will help clinical educators assess their current clinical education program and resources and identify ways to develop and strengthen student outcomes in their clinics.
Multiple Level
TECHNOPALOOZA: INTEGRATION OF TECHNOLOGY INTO SPECIALTY PRACTICE, PART 2
11:00 am–1:00 pm   W Grand 4   HP-1B-9186
Joint Program: See Health Policy for more details

IMPROVING THE HUMAN EXPERIENCE THROUGH COLLABORATIVE CARE
11:00 am–1:00 pm   W Grand 5   HP-1B-9870
Joint Program: See Health Policy for more details

ADDRESSING HEALTH DISPARITIES BY PROMOTING LINGUISTIC COMPETENCE
3:00 pm–5:00 pm   W Capitol II   ED-1C-1253
Joint Program: Health Policy
Speakers: Celia Pechak, PT, PhD, MPH, Deborah S. Diaz, PT, PhD, Loretta Dillon, PT, DPT, Sara Pullen, PT, DPT, MPH, Wendy Rheault, PT, PhD

Responding to changing demographics and to evidence that health disparities are associated with LEP, many health professions educators have developed models to improve linguistic competence among their students. As Spanish is the second most commonly spoken language in the US, many programs incorporate required and/or elective Spanish language training in their curricula. Additionally, programs are using various models to teach proper use of interpreters. A review of the literature will provide background on the depth and breadth of models, as well as available outcome measures and resources. Faculty from the University of Texas at El Paso and Emory University will describe their models of incorporating Spanish in their Doctor of Physical Therapy curricula. Faculty from Rosalind Franklin University will present their interprofessional model of teaching students to use interpreters. A panel discussion will follow in order to consider future directions of linguistic competence education and legal and ethical concerns.

Intermediate

YOU’VE DONE A GREAT JOB: HOW TO RETIRE FROM ACADEMIA AND MAINTAIN YOUR IDENTITY
3:00 pm–5:00 pm   W Grand 3   ED-1C-0150
Speakers: Roberta O’Shea, PT, PhD, Lisa A. Chiarello, PT, PhD, PCS, FAPTA, Benjamin Massey, PT, Susan Harris, PT, PhD, Russell E. Carter, PT, EdD, Suzann K. Campbell, PT, PhD, FAPTA, Nancy Byl, PT, PhD, Shirley Sahman, PT, PhD, FAPTA, Ann Van Sant, PT, PhD, FAPTA

This session will inform participants of the various retirement options available to academic faculty. Several retirement pathways will be presented and discussed. Panelists will share a variety of successes and challenges to achieving retirement while not losing their professional identities. Participants will have the opportunity to ask questions of the panelists. Panelists and participants will engage in an honest dialogue regarding the importance of mentoring the next generation of academicians, sustaining contributions to and connections with the profession, and expanding personal life experiences.

Multiple Level

INTEGRATED CLINICAL EXPERIENCES IN THE PT CLASSROOM: IN YOUR OWN BACK YARD
3:00 pm–5:00 pm   W Capitol III   ED-1C-8866
Speakers: Julie L. Gahimer, HSD, Stacie J. Fruth, PT, DHS, OCS, Stephanie P. Kelly, PT, PhD

A challenge for health professions education programs is finding ways to enhance the authenticity of clinical situations in the classroom setting. The Krannert School of Physical Therapy (KSPT) discovered a means of addressing this issue by creating a Community Patient Resource Group (CPRG). The CPRG is a group of 130 individuals who reside in our university’s surrounding community, most of whom have chronic neurological conditions or residual deficits from past injuries. It allows students to interact and practice with individuals with “real” impairments, functional limitations, and participation restrictions. It also allows our faculty the ability to address APTA Core Values, generic abilities, and CAPTE standards in a unique way. These learning experiences address the cognitive (classroom knowledge application), psychomotor (practicing hands-on skills), and affective (professional behaviors, communication) domains of Bloom’s taxonomy in a progressively challenging manner. The program has also successfully used CPRG members in lieu of standardized patients for practical examinations. The speakers will share the group’s history, classroom utilization, and personal stories of unique learning.

Basic

DOMAINS OF PROFESSIONAL COMPETENCE: LOOKING ACROSS THE EDUCATIONAL CONTINUUM
3:00 pm–5:00 pm   W Capitol I   ED-1C-5594
Speakers: Jennifer A. Furze, PT, DPT, PCS, Mary Jane Rapport, PT, DPT, PhD, FAPTA, Nicole Christensen, PT, PhD, MApSc, Matt Briggs, PT, DPT, SCS, AT, CSCS, Karen A. Paschal, PT, DPT, MS, FAPTA, Greg Hartley, PT, DPT, GCS, Terrence Nordstrom, PT, EdD, Gail Jensen, PT, PhD, FAPTA

Research shows that learners acquire, develop, and retain knowledge best through experiences that are well integrated with clinical practice. While physical therapy has continued to evolve as a profession, as seen in developing structures and processes for continued learning through residency and fellowship opportunities, there has been less focus on developing shared or common domains of competence that could serve as a framework for professional competence. The presenters will share a framework that identifies domains of patient-centered competencies spanning entry level through residency and fellowship education. This framework, developed from a review of physical therapy documents, emerging competency frameworks in other health professions, leaders in education and practice, and ongoing education research in the health professions, will serve as the basis for a reflective analysis followed by an expert panel discussion. Panelists with expertise in accreditation, postprofessional credentialing, and academic governance will reflect upon how the competency-based framework may inform education and practice.

Intermediate
**FEDERAL PHYSICAL THERAPY**

**UROTRAUMA: A PELVIC FLOOR THERAPY APPROACH TO MILITARY TRAUMA AND SEXUAL ABUSE**

8:00 am–10:00 am  M Grand Ballroom 2  FD-1A-4141

Speakers: Carina Siracusa Majzun, PT, DPT, Mary McVearry, PT, DPT, WCS

Pelvic floor physical therapists have to deal with increasing numbers of patients who have sustained urogenital trauma in various forms. From active duty military sustaining various combat-related pelvic and urological injuries, to survivors of severe sexual abuse and genital mutilation, pelvic floor physical therapists have to be able to navigate the complex process of helping these patients cope with their physical and emotional trauma. During this session, physical therapists will hear how to assess and treat these physically and emotionally complex patients, and how to work with other sexual health practitioners to help these patients to heal.

Intermediate

**ADVANCED REHABILITATION AND TECHNOLOGY FOR ENHANCING FUNCTION**

11:00 am–1:00 pm  M White River Ballroom F  FD-1B-2396

Speakers: Jason Wilken, PT, MPT, PhD, Johnny Owens, PT, MPT

Individuals who have experienced lower limb injuries as the result of military deployment or training often have difficulty returning to the level of function necessary to return to duty. A range of novel rehab strategies and technologies are currently being used at the Center for the Intrepid, a military advanced rehabilitation center, to speed the rate of recovery and maximize function. These efforts target areas including promotion of bone healing, reduction in scarring and loss of motion, and improvement in strength, power, and agility. Approaches include regenerative medicine, advanced prosthetic technology, energy-storing exoskeletal devices, and emerging rehabilitative techniques such as blood flow restrictive strengthening. These approaches are implemented in conjunction with standardized objective assessment to determine effectiveness and to guide further development. The speakers will provide an overview of how leading-edge rehabilitative techniques are developed, tested, and assessed within the Center for the Intrepid.

Intermediate

**VIRTUAL REALITY AND SERIOUS GAME-BASED REHABILITATION FOR INJURED SERVICE MEMBERS**

3:00 pm–5:00 pm  M White River Ballroom F  FD-1C-1415

Speakers: Christopher A. Rabago, PT, PhD, Alison L. Pruziner, PT, DPT, ATC, José A. Dominguez, PT, PhD, OCS, Kim Gottshall, PT, PhD, ATC

Virtual reality (VR) and serious game (SG) technologies combine hardware, software, and human-computer interfaces to promote interaction with simulated environments. This presentation will highlight clinical cases and empirical results from VR- and SG-based rehabilitation programs at 4 military treatment facilities. These facilities utilize systems ranging from low-cost, video gaming consoles to expensive, fully immersive platforms like the Computer-Assisted Rehabilitation Environment (CAREN). Results from these programs suggest that VR-based interventions are ecologically valid; VR-based assessment batteries are reliable and can help identify functional deficits in multiple domains; and service members with traumatic brain injury, amputation, and severe limb trauma demonstrate significant increases in function with VR and SG therapies. These VR and SG interventions are based on well-established therapeutic techniques and can be used to promote functional interactions with challenging environments while maintaining full safeties and controls. Further, SG-based tools can be used to deliver home exercise programs and may lead to novel telemedicine applications.

Multiple Level

**GERIATRICS**

**EXERCISE FOR DIABETIC NEUROPATHY: A PARADIGM SHIFT**

8:00 am–10:00 am  ICC Room 243  GR-1A-6442

Speakers: Sonja K. Bareiss, PT, PhD, Mary K. Hastings, PT, DPT, MSCI, ATC, Patricia Kluding, PT, DPT, PhD, Robin L. Marcus, PT, PhD, OCS, Michael J. Mueller, PT, PhD, FAPTA, David R. Sinacore, PT, PhD, FAPTA

Diabetic peripheral neuropathy (DPN) is a common complication of diabetes found frequently in older adults and can be considered a model of advanced aging. Although it is well established that exercise is beneficial for diabetes, few studies have examined whether exercise provides comparable benefits to older adults with DPN. In fact, DPN was once considered a contraindication for walking or any weight-bearing exercise. These guidelines were recently adjusted after research demonstrated that weight-bearing activities do not increase the risk of foot ulcers in people with DPN without severe foot deformity. In fact, emerging research has found positive adaptations to overload stress in these patients, including evidence for peripheral neuroplasticity. Six leading PT researchers from around the country who are currently using basic science, translational, and clinical approaches to investigate the promising effects of exercise will discuss outcomes across the ICF model.

Clinical application will be facilitated by discussion of patient cases with relevance to members of the APTA Academy of Geriatric Physical Therapy and Neurology Section.

Multiple Level
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POST-INTENSIVE CARE SYNDROME (PICS) ACROSS THE CONTINUUM OF CARE
8:00 am–10:00 am ICC Room 102 AC-1A-1340
Joint Program: See Acute Care for more details

SEX IS AN ADL TOO
8:00 am–10:00 am M White River Ballroom E WH-1A-4944
Joint Program: See Women’s Health for more details

BALANCE & FALLS SIG—FALL RISK ASSESSMENTS: MEASURES FOR SPECIAL POPULATIONS
11:00 am–1:00 pm ICC 243 GR-1C-4412
Joint Program: Research
Speakers: Mindy O. Renfro, PT, DPT, PhD, GCS, CPH, Jennifer M. Nash, PT, DPT, NCS, Sue Ostertag, PT, DPT, NCS, Marianna Wingood, PT, DPT

Fall risk screening and assessment tools for community-dwelling and ambulatory older adults have been widely disseminated and presented at previous APTA conferences. However, clinicians are in need of normative values for assessing fall risk and balance in their clients/patients with neurologic diseases, impairments, and/or living in a variety of settings. This program will review the literature and discuss the normative values and best measures to be utilized in a variety of special populations, including those living with chronic stroke, Parkinson disease, multiple sclerosis, and/or cognitive decline, as well as those living in assisted living facilities, skilled nursing facilities, and/or long term care. When possible, current research efforts will be discussed. Concluding remarks will focus on gaps in the literature and opportunities for clinical research studies.

Intermediate

MEASURING AND IMPROVING OUTCOMES IN POSTACUTE CARE
11:00 am–1:00 pm ICC 241 GR-1B-7898
Joint Program: Home Health
Speaker: Ellen R. Strunk, PT, MS, GCS, CEEAA

This session will examine the current state of rehabilitation outcomes measurement in the following postacute care (PAC) settings: inpatient rehabilitation, skilled nursing facilities, long-term acute care facilities, and home health care services. This session will provide a context for the complex issues that contribute to the questions raised by external agencies and policymakers who seek to understand the value of rehabilitation in postacute care settings. The session will describe the efforts currently under way to gather more information and develop meaningful outcome measures to support the value of rehabilitation services and future models of payment.

Multiple Level

THE POWER OF VIDEO AND THE DEATH OF POWERPOINT: AN ENGAGING WAY FOR STUDENTS TO DOCUMENT A GERIATRIC-FOCUSED SERVICE LEARNING PROJECT
11:00 am–1:00 pm W Capitol I ED-1B-0352
Joint Program: See Education for more details

GeriEDGE FALL RISK ASSESSMENT AND OUTCOME MEASURES
3:00 pm–5:00 pm ICC 243 GR-1C-6804
Speakers: Michelle Lusardi, PT, DPT, PhD, Leslie K. Allison, PT, PhD, Alice Bell, PT, DPT, GCS, Kevin Chui, PT, DPT, PhD, GCS, OCS, FAAOMPT, Stacy L. Fritz, PT, PhD, Addie Middleton, PT, DPT, Emma L. Phillips, PT, DPT, GCS, CEEAA, Mindy O. Renfro, PT, DPT, PhD, GCS, CPH, Marianna Wingood, PT, DPT

The GeriEDGE Fall Risk Assessment Workgroup (FRAW) was charged to facilitate translation of the large body of evidence about fall risk assessment in community-living older adults into physical therapy clinical practice. After a 2013 systematic review of over 3,000 abstracts, the FRAW critically appraised more than 300 manuscripts that met inclusion criteria and extracted information needed to develop sensitivity, specificity, predictive values, likelihood ratios, pre- and post-test odds, and probability for measures of fall risk. The group also compiled and synthesized information about responsiveness of outcome measures, specifically related to changing risk of falling. In this session, the presenters will share the final outcomes of their analysis and synthesis, providing evidence to guide selection of measures that will best screen for risk of falling, assess contributors to risk of falling, and evaluate outcomes of physical therapy intervention aimed at reducing risk of falling community-living older adults.

Intermediate

SEX IN THE SECOND HALF: VIBRANT AND HEALTHY SEXUAL AGING
3:00 pm–5:00 pm ICC 241 GR-1C-3691
Joint Program: Women’s Health
Speakers: Karen Brandon, PT, DSc, WCS, CSCS, Hollis Herman, PT, DPT, MS, OCS WCS, BCB-PMD, Jamie Macknet, ACNP, MSN

As the US population continues to have increasing numbers of seniors who are healthier, their expectations and participation in sexual activity has also become an important part of their medical picture. Physical therapists (PTs) who treat pelvic conditions can be instrumental in addressing the mechanical and ergonomic adaptations needed to participate in sexual relations with multiple system limitations and to avoid pain. It is crucial that PTs working with patients in sexual medicine also be sensitive and possess cultural competency skills to establish successful patient rapport in a very sensitive area of function. This session will share information on how aging affects sexuality, common diseases, conditions and impairments, psychosocial changes with aging, and attitudes and beliefs about sexual function with age. This session will also address physical therapy management of common mechanical sexual dysfunction, with a review of case studies and functional questionnaires.

Multiple Level
HAND REHABILITATION

A CALL TO ARMS: KEEPING MANUAL THERAPY IN THE UPPER EXTREMITY
8:00 am–10:00 am ICC 203 HR-1A-9639
Speakers: Derek L. Vraa, PT, DPT, OCS, CSCS, Michael B. Gans, PT, DPT, OCS, William H. Kolb, PT, DPT, OCS, Dustin McGann, PT, DPT, OCS, FAAOMPT
Orthopedic manual physical therapy (OMPT) interventions are an expanding part of today’s physical therapy practice. These interventions can benefit patients with many types of upper extremity dysfunctions. It is imperative that physical therapists understand the current literature support for OMPT use in the management of upper extremity conditions. This session will focus on informing clinicians of OMPT interventions currently supported in the literature as well as discuss patient expectations and clinical experience where the evidence maybe lacking. Diagnoses covered will be subacromial impingement syndrome, adhesive capsulitis, lateral epicondylalgia, carpal tunnel syndrome, double crush syndrome, and carpometacarpal osteoarthritis. This session will also cover the concepts of regional interdependence with regards to OMPT management of upper extremity diagnosis.

CERVICOTHORACIC-SHOULDER CONTRIBUTIONS TO UPPER LIMB SYMPTOMS
11:00 am–1:00 pm ICC Room 203 HR-1B-3272
Speaker: Stephanie Bell, PT, MPT, OCS, CSCS, Michael Wong, PT, DPT, OCS, FAAOMPT, Michael Ross, Jeremiah Samson, PT, MSPT, OCS, COMT, FAAOMPT, Emmanuel Young
This session will describe the missing link in correctly detecting contributions from the cervicothoracic spine and shoulder regions in patients with upper extremity disorders. Once properly identified, these interventions can be directed toward relevant impairments, thereby achieving optimal outcomes. Through the use of patient case examples from professional and collegiate athletics and members of the US military, this exciting and interactive session will provide physical therapists with key rehabilitation concepts of the cervicothoracic spine and shoulder regions for patients with upper extremity disorders.

ALL THUMBS: MANAGEMENT OF MUSCULOSKELETAL CONDITIONS OF THE THUMB
3:00 pm–5:00 pm ICC 203 HR-1C-1826
Speaker: Jane Fedorczyk, PT, PhD, CHT, ATC
Join the Hand Rehabilitation Section in welcoming the 2015 President of the American Society of Hand Therapists, physical therapist, and hand therapist Jane Fedorczyk. In this presentation, she will discuss the importance of a stable, non-painful thumb in normal prehension and hand function. She will discuss the ramifications of disease, injury, and overuse that lead to pain, instability, decreased function, and participation in activities of daily living, as well as vocational and avocational requirements. Attendees will learn about examination and interventions for common conditions including metacarpophalangeal collateral ligament injuries, carpometacarpal joint arthritis, and DeQuervain tendinopathy.

CARPAL TUNNEL CLASSIFICATION SYSTEMS: MATCHING THE OUTCOME TO THE QUICKDASH FUNCTIONAL SCALE
3:00 pm–5:00 pm ICC 123 CE-1C-0504
Joint Program: See Clinical Electrophysiology for more details

HEALTH POLICY AND ADMINISTRATION

FINANCIAL INFORMATION FOR COMPONENT LEADERSHIP
8:00 am–10:00 am W Grand 1 HP-1A-9799
Speaker: Rob Batarla, MBA, CPA, CAE
As in years past, the APTA CEO, treasurer, and Finance Committee will update component leaders on what's new in the world of finance, investment, tax, etc.

TRANSFORMING AND OPTIMIZING: HOW TO LIVE THE NEW APTA VISION
8:00 am–10:00 am W Grand 5 HP-1A-5702
Speakers: Daniel Dale, PT, DPT, Amelia J. Arundale, PT, DPT, SCS, Efosa L. Guobadia, PT, DPT, Janet R. Bezner, PT, PhD, Tasha Maclveen, PT, DPT, CSCS, William McGeehe, PT, MHS, Justin Moore, PT, DPT, Chukwumeka Nwigwe, PT, DPT, Lisa Saladin, PT, PhD
Since Vision 2020 was adopted by the APTA House of Delegates in 2000, we have become familiar with the components of Vision 2020 and the goals set for the physical therapy profession. After much collaboration, the APTA has produced a new Vision Statement along with the Guiding Principles. This new Vision Statement, “Transforming society by optimizing movement to improve the human experience,” is guiding the association’s action into the future by changing our focus from an internal focus to one that embraces an external focus rooted in public health and society as a whole. But how does that apply to you? How does an individual, no matter where he or she is in the profession, make a difference? What does the Vision Statement mean in varying roles within the profession? What does this mean for the future of the APTA? This interactive session will allow attendees to better understand the Vision, create a working knowledge of the Guiding Principles, and help find their contribution to the future of the profession and those that we serve.

Intermediate
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TECHNOPALOOZA: INTEGRATION OF TECHNOLOGY INTO SPECIALTY PRACTICE, PART 1
8:00 am–10:00 am W Grand 4 HP-1A-4727
Joint Program: Education, Neurology
Speakers: Robert Latz, PT, DPT, Steven G. Wilkinson, PhD, Beth Ennis, PT, EdD, PCS, Daniel J. Vreeman, PT, DPT, MSc
In this first in the series session of fast-moving presentations, representatives from each section will provide a brief update on new technology trends or equipment related to the physical therapy specific to that section. Immediately following each presentation, the speaker and others will be available to further demonstrate or continue the discussion.
Intermediate

TECHNOPALOOZA: INTEGRATION OF TECHNOLOGY INTO SPECIALTY PRACTICE, PART 2
11:00 am–1:00 pm W Grand 4 HP-1B-9186
Joint Program: Education, Neurology
Speakers: Robert Latz, PT, DPT, Steven G. Wilkinson, PhD, Beth Ennis, PT, EdD, PCS, Daniel J. Vreeman, PT, DPT, MSc
In this second session of the series of fast moving presentations, representatives from each section will provide a brief update on new technology trends or equipment related to physical therapy within that section. Immediately following each presentation, the speaker and others will be available to further demonstrate or continue the discussion.
Intermediate

REASONABLE ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES: LEGAL AND ETHICAL PERSPECTIVES ON FAIR EXAMINATION POLICIES
8:00 am–10:00 am W Capitol II ED-1A-9642
Joint Program: See Education for more details

IMPROVING THE HUMAN EXPERIENCE THROUGH COLLABORATIVE CARE
11:00 am–1:00 pm W Grand 1 HP-1B-9870
Joint Program: Education, Oncology
Speaker: Friend “Mark” Amundson, PT, DPT, DSc, MA, SCS, ATC, CSCS
The APTA Vision for physical therapy is: “Transforming society by optimizing movement to improve the human experience.” In order to achieve this vision, the physical therapist must develop an outwardly directed focus for physical therapy that requires collaboration with other health care professionals. Physical therapists can be helped along this journey by traveling along the functional levels of the health care continuum. Horizontal and vertical integration of health care professionals can be enhanced to the benefit of each patient/client and society as a whole. This session will illustrate how physical therapists are well positioned along the functional scale levels of the health care continuum to serve as advocates of patients/clients from the lowest to the highest functional levels. Attendees will learn how to identify the most appropriate health care professionals with whom to collaborate to enhance patient/client quality of care. Ultimately a more outwardly directed focus for physical therapy will be presented to help achieve the vision.
Multiple Level

PREPARING FOR THE ICD-10 TRANSITION
11:00 am–1:00 pm W Grand 5 HP-1B-7247
Speakers: Karen Hughes, PT, MS, Jean Jurek, MS, RHIA, CPC
The International Classification of Diseases (ICD) is the international standard diagnostic coding classification system. Codes in this system are used to analyze the general health of the population, as well as monitor the incidence and prevalence of diseases and other health problems. The Department of Health & Human Services established ICD-10 as the new US coding standard, with the new implementation date set for October 1, 2015. Although this implementation date has been delayed, physical therapists and practices can do a great deal to prepare for the impending changes, ensuring a smooth transition for themselves and their practices. This ICD-10 educational program will provide ICD-10 information for physical therapists in all service areas and all settings. Examples provided in the session will focus on diagnoses seen and used by physical therapists and will focus on documentation specifically for physical therapy. The session will cover resources and tips related to transitioning to ICD-10.
Multiple Level
INTEGRATION OF AN EXPANDED PRO BONO PT CLINIC INTO THE DPT CURRICULUM: MAKING THE LEAP
11:00 am–1:00 pm  W Capitol III  ED-1-B-9204
Joint Program: See Education for more details

ETHICAL CHALLENGES IN ACADEMIA: WHEN THE POLISH ISN’T SO SHINNY ON THE IVORY TOWER
11:00 am–1:00 pm  W Grand 3  ED-1-B-7944
Joint Program: See Education for more details

DIRECT ACCESS THROUGHOUT THE CONTINUUM OF CARE
11:00 am–1:00 pm  ICC 205  PP-1-B-8575
Joint Program: See Private Practice for more details

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IGNITING WOMEN IN LEADERSHIP
3:00 pm–5:00 pm  W Grand 1  HP-1C-7370
Speakers: Amelia J. Arundale, PT, DPT, SCS, Colleen Sullivan, PT, DPT, Wendy Featherstone, PT, DPT, Sharon Dunn, PT, PhD, OCS, Jennifer Moody, PT, DPT, Jennifer E. Green-Wilson, PT, EdD, MBA

Physical therapy is a profession built on women in leadership. From founders such as Mary McMillan and Helen Kaiser to today’s leaders such as Shawn Soper and Marilyn Moffatt, these women have worked their way up to lead our profession. But how did they do this? As a woman, how can you balance the demands of life and leadership? What are some of the difficulties that we face as women in leadership roles and how do we overcome them? This session is designed to help answer some of these questions by providing women with resources, tools, evidence, and a support network to help women at all levels develop their leadership capacity and influence. Participants will be encouraged to contribute throughout the program.

Basic

HEALTH CARE REFORM AND THE AFFORDABLE CARE ACT: ONE YEAR LATER
3:00 pm–5:00 pm  W Grand 4  HP-1C-2796
Speakers: Janice Kuperstein, PhD, Edward Dobrzykowski, PT, DPT, ATC, MHS, Charles Workman, PT, MPT, MBA, Karen Ogle, PT, DPT

This session is intended to be a participatory consideration of physical therapists’ responses to opportunities and threats based on ongoing health care reform, especially following implementation of the Affordable Care Act (ACA). Numerous actions have been developed in the past 5 years to contain health care costs with mixed results, such as accountable care organizations, bundled payments, and patient-centered medical homes. As demonstration projects and new models of care continue to evolve, physical therapy providers have been integrated at varying levels. This session will examine the various models of care and provide specific examples of physical therapy involvement that have contributed to the triple aim of improving the experience of care, improving the health of populations, and reducing health care costs. A focus will be placed on the continuum of care from acute through postacute care.

Intermediate

ADDRESSING HEALTH DISPARITIES BY PROMOTING LINGUISTIC COMPETENCE
3:00 pm–5:00 pm  W Capitol II  ED-1C-1253
Joint Program: See Education for more detail

CLINICIAN-DRIVEN RESEARCH: A FRAMEWORK FOR IMPLEMENTATION IN A MEDICAL CENTER MODEL
3:00 pm–5:00 pm  M 101  RE-1C-3048
Joint Program: See Research for more details

HOME HEALTH

KNOWLEDGE TRANSLATION: DEVELOPING EVIDENCE-BASED CLINICIANS IN HOME CARE
8:00 am–10:00 am  ICC 237  HH-1A-8622
Speakers: Patricia Scheets, PT, DPT, MHS, NCS, Laurie Otis, PT, MBA, MHA, GCS, COS-C, Matt Janes, PT, DPT, MHS, OCS, CSCS, Derek Nordman, PT, MPT, ATC

The evidence suggests that despite a growing body of literature to inform clinical practice, clinicians lack both awareness of emerging science and are slow to incorporate new knowledge into practice. The purpose of this course is to describe a large-scale effort in knowledge dissemination and translation designed to shift the practice of over 2,000 clinicians toward selected evidence-based practices. The course will include key elements of the selected practices, the strategies used to shift practice, and the outcomes of the project.

Multiple Level

SEX IS AN ADL, TOO
8:00 am–10:00 am  M White River Ballroom E  WH-1A-4944
Joint Program: See Women’s Health for more details

MEASURING AND IMPROVING OUTCOMES IN POSTACUTE CARE
11:00 am–1:00 pm  ICC 241  GR-1B-7898
Joint Program: See Geriatrics for more details

HOT TOPICS IN HOME HEALTH
11:00 am–1:00 pm  ICC 237  HH-1B-5045
Speaker: Diana L. Kornetti, PT, MA

Come and join this exciting event where you will be able to have the opportunity to discuss current issues in home health. Industry leaders will be available for a panel discussion. This is a great opportunity to share ideas and learn about current events in the home health industry.

Multiple Level
EVIDENCE AND APPLICATION OF BLOOD PRESSURE PRACTICES IN THE HOME HEALTH CARE SETTING
3:00 pm–5:00 pm  ICC 237  HH-1C-3057
Speaker: Sara Arena, PT, DScPT, MS

Blood pressure measurement is a skilled examination tool used by physical therapists in managing patients and clients under their care in the home health care practice setting. Recent recommendations from the Eighth Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure (JNC8) in combination with national initiatives, including Measure Up/Pressure Down (MUPD), provide physical therapists an opportunity to advance the discipline’s contributions toward attaining an individual’s goal blood pressure. This course will synthesize best practice regarding identification of suboptimal blood pressure readings, the role of physical therapy in the medical management of hypertension and prehypertension, and optimal measurement methodology in the home health care practice setting.

Multiple Level

HOME HEALTH CARE 101: AN OVERVIEW OF KEY ELEMENTS FOR AN EVOLVING PRACTICE SETTING
3:00 pm–5:00 pm  ICC 239  HH-1C-7104
Speakers: Matt Janes, PT, DPT, MHS, OCS, CSCS, Chris Chimenti, PT, MSPT

The need to provide care for patients in the home health care environment continues to grow as lower cost alternatives are being sought by patients, families, and third-party payers. Physical therapy practice opportunities continue to expand to meet this growing need and those wishing to receive care in their own home environment. The purpose of this course is to provide a broad overview of home health practice, including agency structure, diagnosis types, payment mechanisms, best practice standards, outcomes, technology, challenges/rewards, and opportunities. The course will include key elements of interest related to both students and licensed therapists interested in learning more about home health care practice.

Basic

NEUROLOGY

ADAPTED TAI JI QUAN FOR BALANCE DISORDERS
8:00 am–10:00 am  M Grand Ballroom 4  NE-1A-5501
Speakers: Fay B. Horak, PT, PhD, Fuzhong Li, PhD

In this workshop Tai Ji Quan: Moving for Better Balance, an evidence-based program, will be introduced as an alternative exercise modality for people with balance disorders. The protocol in Tai Ji Quan as been extensively researched and shown to be effective in improving lower extremity strength, balance, and gait, and in reducing falls among older adults and in people with Parkinson disease. This form of Tai Ji was modified to include exercises to improve anticipatory postural adjustments, automatic postural responses, sensory control of quiet stance, postural stability during gait, and whole-body coordination. Participants in this workshop will learn the fundamental concepts and components of the program, understand how modifications address specific impairments in balance control, engage in practice of selected therapeutic movements from the program, and develop initial competence to apply the program to clinical practice.

Advanced

LINKING NEUROANATOMY TO FUNCTION IN MS: MECHANISMS DRIVING GAIT DEVIATIONS
8:00 am–10:00 am  M White River Ballroom F  NE-1A-9161
Speakers: Nora E. Fritz, PT, DPT, PhD, Jennifer Keller, PT, MS, Susanne M. Morton, PT, PhD, Kathleen Zackowski, PhD, OTR, MSCS

This course will explore the underlying neuroanatomy and the mechanisms driving the body structure and functional limitations seen in individuals with multiple sclerosis (MS). The speakers will review the relevant literature for neuroanatomical changes observed in the neurodegenerative diseases adenomyeloneuropathy (AMN), cerebellar degenerative disease, and MS to better understand the role of the afferent and efferent tracts in the spinal cord, cortex, and cerebellum in strength, sensation, and walking deficits. Lessons learned about mechanisms driving walking dysfunction will then be applied to the clinical setting. Intervention study results from several neurodegenerative disease populations will be presented to explore how these concepts of rehabilitation may be utilized in individuals with MS. Application of balance training in individuals with cerebellar ataxia, endurance training in AMN, and progressive resistance exercise in MS will be discussed. Specific assessment tools and appropriate outcome measures will be presented, and videos of patient cases will be used to demonstrate these rehabilitation concepts. Participants will be encouraged to consider application of these rehabilitation concepts and outcome tools to their own caseload.

Multiple Level

ANNE SHUMWAY-COOK LECTURESHIP: TRANSFORMING PHYSICAL THERAPY PRACTICE FOR HEALTH CARE REFORM
8:00 am–10:00 am  M Grand Ballroom 5  NE-1A-8628
Speaker: Pamela W. Duncan, PT, PhD, FAHA, FAPTA

The Anne Shumway-Cook Lectureship is designed to acknowledge and honor an individual who has made a significant contribution to the area of neurologic physical therapy research and practice. Recipients of the lectureship have distinguished themselves as an esteemed neurorehabilitation scientist whose work has influenced neurologic physical therapist clinical practice. The lecture will provide an opportunity for the honoree to share experiences related to the translation of neuroscience and neurorehabilitation research into neurological physical therapy clinical practice. This year’s awardee is Pamela W. Duncan, PT, PhD, FAHA, FAPTA, whose lecture will describe the potential transformation of physical therapist practice under the current health care reform in the US.

Intermediate
COMPARISON OF ROBOTIC, BWS TRAINING, AND AQUATIC THERAPY FOR INDIVIDUALS WITH CHRONIC MOTOR INCOMPLETE SCI

8:00 am–10:00 am  M White River Ballroom C  AQ-1A-6905
Joint Program: See Aquatics for more details

TECHNOPALOOZA: INTEGRATION OF TECHNOLOGY INTO SPECIALTY PRACTICE, PART 1

8:00 am–10:00 am  W Grand 4  HP-1A-4727
Joint Program: See Health Policy for more details

STROKE SIG: EFFECTS OF BRAIN-DERIVED NEUROTROPHIC FACTOR ON NEUROPLASTICITY

11:00 am–1:00 pm  M Grand Ballroom 4  NE-1B-8555
Speaker: Lara Boyd, PT, PhD
Stroke rehabilitation research has focused on developing strategies that facilitate neuroplasticity to maximize functional outcomes. Brain-derived neurotrophic factor (BDNF) has emerged as a key molecular signaling pathway mediating central nervous system plasticity. Thus, rehabilitation strategies that optimize BDNF effects on neuroplasticity may be especially effective for improving motor function post stroke. The purpose of this presentation is to describe the evidence linking aerobic exercise, BDNF, and improved motor learning in humans and to discuss potential strategies by which aerobic exercise, when paired with motor learning-based interventions, may improve motor rehabilitation outcomes post stroke through the use of BDNF-modulated neuroplasticity.

Multiple Level

VESTIBULAR SIG: PEDIATRIC CONSIDERATIONS FOR VESTIBULAR BALANCE THERAPY

11:00 am–1:00 pm  M Grand Ballroom 5  NE-1B-3072
Speakers: Jennifer B. Christy, PT, PhD, Rose M. Rine, PT, PhD
Like adults, children and adolescents experience peripheral and central vestibular dysfunction, which lead to impairments of gaze stability with head movement and delays in postural control and motor skills. Children may also experience dizziness and/or motion sensitivity. When evaluating and treating children, the physical therapist must consider the child’s developmental stage related to postural control and motor skills, the child’s cognitive ability to describe symptoms, pediatric normative data and methodology related to clinical tests, and modifications of vestibular exercises based on the child’s age and interests. This session will provide an update of the evidence related to vestibular dysfunction and related impairments in children and adolescents.

Intermediate

STRATEGIES AND BENEFITS OF SUCCESSFUL IMPLEMENTATION OF A CLINICAL TRIAL INTO THE CLINIC: USING A RANDOMIZED CONTROLLED TRIAL AS A MODEL FOR TRANSLATIONAL RESEARCH

11:00 am–1:00 pm  M Grand Ballroom 2  NE-1B-9300
Speakers: Heidi Roth, PT, MSPT, DHS, Arun Jayaraman, PT, PhD, Kimberly Brennan, PT, NCS, David Zembower, PhD, MBA
Researchers’ and clinicians’ ability to translate their knowledge into clinical practice is often limited due to physical, administrative, and organizational isolation. This session will outline a novel collaborative approach using a randomized, controlled clinical trial (RCT) at 3 outpatient physical therapy clinics at the Rehabilitation Institute of Chicago. This RCT is a case example for the successful integration of clinical research into a standard therapy setting. Presenters will outline the process used for the development of a business model, implementation in existing clinics, and knowledge transfer. This session will also highlight the feasibility of integrating research trials using cutting-edge technology. The presenters will provide a framework for clinicians to establish this model in their workplace.

Basic

TECHNOPALOOZA: INTEGRATION OF TECHNOLOGY INTO SPECIALTY PRACTICE, PART 2

11:00 am–1:00 pm  W Grand 4  HP-1B-9186
Joint Program: See Health Policy for more details

THE DILEMMA OF BALANCE REHABILITATION: PRESCRIBING THE RIGHT DOSAGE OF DIFFICULTY FOR EACH PATIENT’S PROGRAM

3:00 pm–5:00 pm  M Grand Ballroom 5  NE-1C-5699
Speakers: Mike Studer, PT, Beth Crowner, PT, DPT, NCS, MPPA
This session is sponsored by the Neurology Section’s Balance and Falls Special-Interest Group. It will include practical clinical applications in an effort to answer an everyday question in the rehabilitation of balance for clients with neurologic impairment—“How do I make it JUST hard enough?” The expert panel of presenters will review the evidence in “dosage” for balance rehabilitation and suggest how we can systematically evaluate and prescribe an individualized program for imbalance. The presenters will also discuss how performance on outcome measures for postural control can be used to guide interventions to improve balance.

Intermediate
USING NEUROIMAGING TO UNDERSTAND THE BRAIN AFTER MILD TBI
3:00 pm–5:00 pm  M Grand Ballroom 4  NE-1C-4438
Speakers: Michael R. Borich, PT, DPT, PhD, Naznin Virji-Babul, PT, PhD
An estimated 1.7 million traumatic brain injuries (TBI) occur annually in the United States. Up to 75% of TBI cases are classified as mild (mTBI) or non-life threatening. Significant knowledge gaps remain in the diagnosis and management of individuals with mTBI. Advances in novel neuroimaging approaches have created new opportunities to further our understanding of the brain following mTBI. This session will highlight the clinical implications of these potentially promising neuroimaging approaches for physical therapists and rehabilitation professionals. The first half of the session will describe the current state of the literature regarding neuroimaging in mTBI. The second half of the session will focus on translating these research findings into clinical practice. Opportunities for future work to maximize the utility of advanced neuroimaging techniques to inform clinical practice will also be discussed.
Basic

ONCOLOGY

CURRENT EVIDENCE FOR USE OF PHYSICAL AGENTS IN REHABILITATION ONCOLOGY: FACT VERSUS FICTION
8:00 am–10:00 am  ICC 234  ON-1A-9291
Joint Program: Clinical Electrophysiology
Speakers: Shana Harrington, PT, PhD, SCS, MTC, Lucinda A. Pfalzer, PT, PhD, FAPTA, Meryl Alappattuu, PT, DPT, PhD
Approximately 1.7 million Americans were diagnosed with cancer in 2013. As survival rates have improved, the focus on survivorship issues and quality of life has gained more attention. However, medical experts report that most rehabilitative services are widely underused. Part of this underutilization may be due to a lack of knowledge about physical therapists’ unique expertise in cardiopulmonary and neuromusculoskeletal dysfunction. The number of physical therapists who specialize in treating patients with cancer or a history of cancer is small compared with the number of therapists who treat general orthopedic physical therapy conditions. Physical therapists should have a basic understanding of assessing and managing patients with cancer. This session will provide current evidence-based treatment recommendations for the use of therapeutic modalities in patients with cancer or a history of cancer.
Basic

PHYSICAL ACTIVITY AND CANCER PREVENTION: TRANSLATING AN EDUCATIONAL MESSAGE TO ACTION
8:00 am–10:00 am  ICC 232  ON-1A-0292
Speakers: Heidi J. Engel, PT, DPT, Steve Morris, PT, PhD, FACSM
A large body of evidence now demonstrates the benefits of exercise and physical activity in preventing cancer diagnoses and recurrence. For people already living with a cancer diagnosis, including those with a terminal illness or in palliative care, the research supports exercise as an important treatment for reducing side effects, improving functional independence, and promoting well being. This session will present guidelines developed or written specifically for cancer survivors in the context of both the type of cancer and where the individual is on the cancer continuum. Included in this session will be an introduction to the fundamental components of a training program and a discussion of ways to motivate patients and clients to become more active and sustain higher levels of activity. The presenters will describe the psychological factors and the principles of exercise training for translating activity recommendations into sustained health benefits for anyone attempting to prevent cancer or improve their quality of life during cancer survival.
Basic

PEDIATRIC ONCOLOGY REHABILITATION PROGRAM DEVELOPMENT AND PEDIATRIC ONCOLOGY SIG MEETING
11:00 am–1:00 pm  ICC 234  ON-1B-0342
Speakers: Susan Miale, PT, DPT, PCS, Lynn Tanner, PT, Regine L. Souverain, PT, DPT, PCS
Children with cancer are at risk for physical, social, functional, and emotional deficits, both during treatment and in the years that follow. Physical therapy can help prevent developmental delays, dysfunction, and improve motor performance and quality of life. This session will describe the program development initiatives at Children’s Hospital and Clinics of Minnesota and at Memorial Sloan-Kettering Cancer Center in New York City. The presenters will highlight the use of screening tools and evidence-based protocols, the importance of educating medical and rehabilitation staff, the significance of communication between all involved parties, the benefits of expansion into both inpatient and outpatient clinics, and the overall growth of these two highly successful rehabilitation programs. The presenters will also discuss the critical components for effective pediatric oncology rehabilitation program development and provide suggestions for future progress.
Intermediate
THE IMPACT OF NATIONAL MANDATES FOR ONCOLOGY REHABILITATION ON THE PROFESSION
11:00 am–1:00 pm ICC 232 ON-1B-0237
Speakers: Lisa VanHoose, PT, PhD, CLT-LANA, Nicole L. Stout, PT, DPT, CLT-LANA, Charles McGarvey, PT, DPT, MS, FAPTA

The National Cancer Act of 1971 was the first effort to systematically improve cancer diagnosis, treatment, and care delivery. Over the last decades, the efforts have expanded to addressing the quality of life for survivors of cancer throughout the cancer journey. In the last 2 years both the Commission on Cancer and Commission on Accreditation of Rehabilitation Facilities (CARF) have instituted standards and criteria for accreditation that will directly impact provision of rehabilitation care for patients with cancer. Accreditation standards focus on enhancing care delivery, promoting optimal workflow, improving quality of care and patient outcomes. This session will show how these recommendations have significant implications for the physical therapy profession in all care settings.

Multiple Level

IMPROVING THE HUMAN EXPERIENCE THROUGH COLLABORATIVE CARE
11:00 am–1:00 pm W Grand 5 HP-1B-9870
Joint Program: See Health Policy for more details

TENS: EVIDENCE-BASED PRACTICE IN PHYSICAL THERAPY
11:00 am–1:00 pm ICC 120 CE-1B-7814
Joint Program: See Clinical Electrophysiology for more details

A COLLABORATIVE PATIENT-CENTERED WELLNESS MODEL TO ENHANCE QUALITY OF LIFE THROUGHOUT THE JOURNEY OF SURVIVORSHIP
3:00 pm–5:00 pm ICC 234 ON-1C-4266
Speakers: Diane Galvin, PT, Elizabeth K. Bennett

This session will provide the rationale and the tools to develop a collaborative rehabilitation model that focuses on quality of life. Physical therapists have the ability to play an important role in meeting their patient’s needs through the seamless integration of the medical and community settings across the continuum of care. Empowering cancer patients to become partners in their own plan of care may enhance adherence to a sustainable lifestyle including consistent physical activity, sound nutrition, and healthy weight management. The presenters will challenge participants to broaden the lens of practice by integrating rehabilitation and community based cancer support programs concurrently upon the initial evaluation. The session will also include case studies, quality of life outcome tools, and guidance in finding resources in your community.

Advanced

SEXUAL HEALTH FOR BREAST CANCER SURVIVORS
3:00 pm–5:00 pm ICC 232 ON-1C-3032
Joint Program: Women’s Health
Speakers: Lisa Massa, PT, MPT, Natalie J. Sebba, PT, DPT, WCS, CLT, Amanda Heath, PT, DPT, CLT, Kelly Westbrook, MD

This session will discuss the role of an interdisciplinary medical team to effectively and efficiently address the sexual health needs of breast cancer survivors. The session will also include a description of common sexual pain and dysfunction seen in the presenters’ clinic, the components of an interdisciplinary clinic, interventions provided, and the outcome measures used.

Intermediate

CHOOSING WISELY: IMPLICATIONS FOR PHYSICAL THERAPIST PRACTICE
3:00 pm–5:00 pm W Grand 5 HP-1C-9412
Joint Program: See Health Policy for more details

ORTHOPAEDICS

ELBOW, WRIST, AND HAND DISORDERS: ICF-BASED CLINICAL PRACTICE GUIDELINES
8:00 am–10:00 am ICC 107 OR-1A-8080
Speakers: Joseph Godges, PT, DPT, MA, OCS, Carla Cleary, PT, DPT, CHT, Susan Michlovitz, PT, PhD, CHT, Ann Lucado, PT, PhD, CHT

The International Classification of Functioning, Disability and Health (ICF) provides standard language and a framework for the description of health and health-related states in terms of body structure and function, activity, and participation in life situations. The Hand Rehabilitation Section and the Orthopaedic Section are collaborating to develop evidence-based guidelines for examination and treatment of common musculoskeletal conditions of the elbow, wrist, and hand based on the ICF model. This session will summarize the status of this collaborative effort, including presentation of upcoming clinical practice guidelines for carpal tunnel syndrome, distal radius fractures, and elbow epicondylitis. It will also discuss the strategies to integrate evidence-based practice guidelines into clinical practice.

Intermediate

OPTIMIZING REHABILITATION FOR SAFE RETURN TO SPORT AFTER ACL RECONSTRUCTION
8:00 am–10:00 am ICC 500 Ballroom SP-1A-9734
Joint Program: See Sports for more details

DRY NEEDLING WHILE MINIMIZING POTENTIAL ADVERSE EFFECTS
8:00 am–10:00 am ICC 120 CE-1A-9498
Joint Program: See Clinical Electrophysiology for more details
IMAGING AND LOW BACK PAIN: WHAT’S USEFUL, WHAT’S NOT?
11:00 am–1:00 pm  ICC Wabash Ballroom 1  OR-1B-9776
Speaker: George J. Beneck, PT, PhD, OCS
This session will examine the current evidence for using imaging to identify pain generators of the spine, risk and prognostic factors for low back pain, and evidence of impaired function in persons with low back pain. Evidence from a full spectrum of imaging modalities will be examined for its value in the management of various forms of low back pain. These will include imaging investigations of anatomic, morphologic, kinematic, and muscle activation abnormalities in persons with low back pain. This session will also provide clinicians with an evidence-based understanding of how to interpret and apply findings from both patient imaging and research literature into clinical practice. Recommendations for implementing imaging findings into patient management will also be offered.
Intermediate

THE ROLE OF THE PT IN MANAGING NECK PAIN IN PRIMARY CARE
11:00 am–1:00 pm  ICC 500 Ballroom  OR-1B-8491
Speakers: Chad Cook, PT, PhD, Gwendolen A. Jull, PT, MPHty, PhD, FACP, Geoff Schneider, PT, PhD, Ashley Smith, PT
Neck pain is a common problem presented to physical therapists (PTs). Patients with neck pain are typically well managed by multimodal physical therapy, but a significant proportion of these patients do not respond to conservative care. It is estimated that the facet joint may be a source of nociception in 30%–60% of those patients with recalcitrant neck pain. This session will review the physical therapy management of patients with persistent neck pain, familiarize PTs with interventional spine procedures, and discuss the role of the PT in a multidisciplinary environment. The international presenters on this panel are seasoned clinician researchers who participate in clinical research and examine patients to decipher who may be candidates for interventional spine procedures.
Intermediate

PREPARING TO FACE INTO THE STORM
11:00 am–1:00 pm  ICC 107  OR-1B-6656
Speakers: Gerard P. Brennan, PhD, Alan Jette, PT, PhD, James Irrgang, PT, PhD, ATC, Stephen McDavid, PT, DPT, MS, FAAOMPT
Physical therapists’ efforts to improve performance and accountability depend on having a shared goal that unites our interests and activities. APTA has made an unprecedented investment in developing a national outcomes data registry to serve as infrastructure to track clinical outcomes and process of care data to describe value-based care in physical therapy. This session will include an overview of the importance of data in determining treatment effectiveness, policy, and reimbursement. The APTA data registry will also be demonstrated. The speakers will discuss the Orthopaedic Section’s role to work collaboratively with APTA.
Multiple Level

GET A KICK OUT OF GAIT ANALYSIS: IMPLICATIONS FOR MANUAL THERAPY AND THERAPEUTIC EXERCISE INTERVENTIONS FOR THE FOOT AND ANKLE
3:00 pm–5:00 pm  ICC Wabash Ballroom 1  OR-1C-8464
Speakers: Kathleen Geist, PT, DPT, OCS, COMT, FAAOMPT, Benjamin Rogozinski, PT, DPT, Marie A. Johanson, PT, PhD, OCS
Given the high prevalence of lower extremity injuries, physical therapists who manage patients with musculoskeletal conditions need a strong working knowledge of the biomechanical principles of the foot and ankle to evaluate changes that may affect gait mechanics. This session will include a description of the lower extremity biomechanics during the gait cycle and provide methods of evaluation that lead to interventions for common gait deviations with emphasis on the foot and ankle. Participants will be able to identify manual therapy and therapeutic exercise interventions to normalize movement patterns during gait. The presenters will show videos of patients’ gait deviations, emphasizing changes at the foot and ankle, discuss common impairments underlying the gait deviations, and offer evidence-based manual therapy and therapeutic exercise interventions to address the impairments and improve patients’ gait patterns.
Multiple Level

ROTATOR CUFF REPAIR REHABILITATION: PROGRESSING EXERCISES SAFELY BY UNDERSTANDING HEALING AND USING EMG EVIDENCE AS A GUIDE
3:00 pm–5:00 pm  ICC 500 Ballroom  OR-1C-9656
Speakers: Bryce W. Gaunt, PT, SCS, Tim L. Uhl, PT, PhD, ATC, FNATA
This session will show participants a systematic therapeutic exercise progression for patients after rotator cuff repair that is primarily based on the physiological healing of rotator cuff tendons and current available exercise literature from a biomechanical and electromyographical perspective. Clinical pearls to improve participants’ exercise prescription will also be presented. The presenters will share the latest evidence regarding rotator cuff healing, discuss factors affecting the re-tear rate, and explain how the exercise continuum is integrated with these factors to ensure healing is facilitated during rehabilitation. Case studies will be used to show how the exercise progression is applied clinically in a wide variety of patient scenarios after rotator cuff repair.
Multiple Level
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Session handouts are available at www.apta.org/CSM. Use code CSM2015.
INTEGRATING PHYSICAL THERAPY IN EMERGING HEALTH CARE MODELS
3:00 pm–5:00 pm  ICC 107  OR-1C-0019
Speakers: Charles A. Thigpen, PT, PhD, ATC, Sean McEnroe, PT, MBA, SCS, Thomas R. Denninger, PT, DPT, OCS, FAAOMPT, Chad Cook, PT, PhD, Michael J. Kissenberth, MD

This session will provide a multifaceted perspective on the impact of physical therapy in emerging, collaborative health care models. Influences that shape these new models will be presented including the viewpoint of the physician and hospital, business implications for physical therapy, and best available evidence to guide practice development. Finally, logistical challenges will be examined with corollary solutions needed to implement this model in a private arena. Presenters will discuss experiences implementing novel delivery models for management of neck and back pain as well as shoulder pain. The session will deliver practical solutions to the challenges of implementing, assessing, and adapting a theoretical construct to a working viable program.

Intermediate

DIFFERENCES IN BIOPHYSICAL RESPONSES ON LAND VERSUS WATER: HYDRODYNAMIC PROPERTIES
3:00 pm–5:00 pm  M White River Ballroom C  AQ-1C-3304
Joint Program: See Aquatics for more details

NEONATAL CARE PATH, PART 1: ASSESSMENT, MEASUREMENT, AND INTERVENTIONS
8:00 am–10:00 am  M Grand Ballroom 7  PD-1A-4704
Speakers: Eilish Byrne, PT, DSc, PCS, Suzann K. Campbell, PT, PhD, FAPTA, June B. Garber, PT, MACT, Lou Ann Goldstein, PT, MS, PCS

Part 1 of this session will take participants through the evolution and development of an evidence-based care path for use in the NICU setting. The Neonatal Care Path for Physical Therapists illustrates appropriate assessments and interventions on a week-by-week basis for infants 24–40+ weeks PMA. During this course, the evidence supporting the included assessments and interventions will be presented and illustrated through a case.

Intermediate

ORTHOSES FOR CHILDREN WITH HYPOTONIA: WHAT, WHEN, AND WHY
8:00 am–10:00 am  M Grand Ballroom 6  PD-1A-3313
Speakers: Kathy Martin, PT, DHS, Julia Looper, PT, PhD

This session will review the current evidence for efficacy of orthoses for children with hypotonia. In reviewing the research, the following questions will be addressed: What orthotic device works best? When is the best time to begin to use orthoses? Why are orthoses helpful or not helpful? What theoretical frameworks support or refute orthotic intervention for this population? Video case studies will be used to help illustrate and apply research findings to clinical practice. The gaps in the evidence will be discussed along with suggestions for future research to help improve understanding of orthotic efficacy. In addition, practical suggestions for how to collect data on orthotic efficacy in the clinical setting will be shared.

Multiple Level

NEONATAL CARE PATH, PART 2: INTERVENTIONS AND PARENT EDUCATION
11:00 am–1:00 pm  M Grand Ballroom 7  PD-1B-4746
Speakers: Eilish Byrne, PT, DSc, PCS, Suzann K. Campbell, PT, PhD, FAPTA, Lou Ann Goldstein, PT, MS, PCS, June B. Garber, PT, MACT

Part 2 of this session will take participants through the evolution and development of a second care path for use in the NICU setting. The NICU Discharge Path provides a step-wise checklist on a variety of educational topics designed specifically for use with families. In this session, participants will be taken through a variety of evidence-based neonatal and family interventions, while illustrating the use of the NICU Discharge Path through a case.

Intermediate

RESEARCH FORUM: CHALLENGES AND INNOVATIONS IN MEASURING “ACTIVITY”
11:00 am–1:00 pm  M Grand Ballroom 9  PD-1B-4859
Speakers: Eunice Y. Shen, PT, DPT, PhD, MS, PCS, Carole A. Tucker, PT, PhD, PCS, RCEP, Maria Fragaala-Pinkham, PT, DPT, MS, Deanne Fay, PT, DPT, MS, PCS, Ginny Paleg, PT, DScPT, Mary E. Gannotti, PT, PhD

Measuring outcomes to determine intervention effectiveness can be a challenge in the clinic. In this second forum in a series of 3, the goal is to review and come to consensus on measures, with a focus on the ICF dimension of “activity. At this research forum, clinicians, clinician managers, and clinician researchers speak to “facilitators and barriers” to administering measures in the clinic. A discussion regarding the challenges of administering these measures within the clinic environment, as well as the frequency, type, and reasons behind common modifications used to adapt performance measures will be presented. Consensus building around use of patient reported outcome measures, performance-based activity measures, and adaptation of measures in the clinic will occur.

Intermediate
PEDIATRIC OBESITY, PART 1: RESEARCH AGENDAS AND HEALTH POLICY
11:00 am–1:00 pm   M Grand Ballroom 6   PD-1B-5473
Speakers: Brian H. Wrotniak, PT, PhD, Margaret O’Neil, PT, PhD, MPH, Ira Gorman, PT, PhD, Thubzi H. Kolobe, PT, PhD, Nancy White, PT, DPT, OCS, Katie Brown, EdD, RDN, LD

This session will discuss the role of physical therapy in the clinical management of childhood obesity. Ideas for enhancing clinical practice based on evidence-based criteria and behavioral strategies will be discussed, and research agendas will be proposed. The physical therapists’ role in health policy and advocacy for children with obesity will also be covered. Results from a past Physical Therapy Childhood Obesity Symposium will be highlighted. The session will conclude with an open discussion on topics covered and of future steps for advancing research and health promotion by physical therapists in the area of childhood obesity.

Intermediate

ACL RECONSTRUCTION FOR THE SKELETALLY IMMATURE ATHLETE: CONTINUUM OF CARE
3:00 pm–5:00 pm   M Grand Ballroom 7   PD-1C-5465
Speakers: Jessica Graziano, PT, DPT, CSCS, Theresa A. Chiaia, PT, DPT, Kelsie Ganshert, PT, DPT

This session presents a continuum of care for the skeletally immature athlete following anterior cruciate ligament (ACL) reconstruction. Physeal sparing techniques are used to minimize the risk of growth disturbances in children with open growth plates. This session will discuss postoperative rehabilitation progression, as well the journey and progression toward return to play for the skeletally immature athlete. Recent research in surgical and therapeutic intervention will be discussed as well as special considerations for this specific population. This session will also provide attendees with the most up-to-date knowledge regarding etiology, risk factors, surgical considerations, and implications for rehabilitation and return-to-play considerations specific to the skeletally immature athlete.

Intermediate

TREADMILL PROGRAMS FOR YOUNG CHILDREN: A COLLABORATIVE MODEL
3:00 pm–5:00 pm   M Grand Ballroom 9   PD-1C-5771
Speakers: Katrin Mattern-Baxter, PT, DPT, PCS, Stefani McNeil, PT, MSPT, PCS

Physical therapy for young children with neuromotor impairment is usually limited to once-weekly sessions or even less. The presenters will highlight how an academic institution and a community physical therapy setting have successfully collaborated in the implementation of two ancillary programs to increase accessibility to therapist-guided, parent-driven, structured interventions. This session will bring participants up-to-date on current research regarding intensive walking programs in preambulatory children with neuromotor impairment and will include findings from the presenters’ own research studies. Parameters for intensity, duration and inclusion criteria for the programs will be outlined. Outcome data will be presented at all levels of the International Classification of Functioning, Disability, and Health model and will include parent perspectives. The presenters will encourage problem solving and provide solutions for the participants’ specific circumstances and perceived barriers for implementing similar programs at their own facilities.

Intermediate

PEDIATRIC OBESITY, PART 2: CLINICAL MODELS AND EDUCATION CURRICULA
3:00 pm–5:00 pm   M Grand Ballroom 6   PD-1C-2293
Speakers: Sarah Blanton, PT, DPT, NCS, Joe Schreiber, PT, PhD, Cheryl Resnik, PT, DPT, MSHCM, Sheree York, PT, DPT, PCS, Durga Shah, PT, DPT, PCS, Joan Bohmert, PT, MS, Colleen Kigin, PT, DPT, FAPTA, Katie Brown, EdD, RDN, LD

This session will discuss the role of physical therapy in the clinical management of childhood obesity. Cases will be presented on clinical and community based programs for the treatment and prevention of childhood obesity and strategies to promote interdisciplinary programs will be discussed. Presenters will describe opportunities to engage in partnerships to facilitate healthy behaviors and translate clinical services to community action. Recommendations to develop educational curricula revisions to promote clinical competencies and skills will be identified. Results from a past Physical Therapy Childhood Obesity Symposium will be highlighted. Participants will be encouraged to engage with the panel in development of future recommendations for clinical practice and education.

Intermediate

Session handouts are available at www.apta.org/CSM. Use code CSM2015.
DIFFERENCES IN BIOPHYSICAL RESPONSES ON LAND VERSUS WATER: HYDRODYNAMIC PROPERTIES
3:00 pm–5:00 pm M White River Ballroom C AQ-1C-3304
Joint Program: See Aquatics for more details

PRIVATE PRACTICE

REVOLUTIONIZING CHRONIC DISEASE MANAGEMENT
8:00 am–10:00 am ICC 205 PP-1A-9998
Speakers: William McCormick, PT, MS, Russ Certo, PT, OCS
Medical fitness has increasing relevance in the physical therapy profession. This concept has been integrated as an “add on” to outpatient physical therapy with the goal of providing a supervised setting in which patients can continue to exercise. This session will review a deliverable solution that measures and mitigates health-related risk and cost through evidenced based and data driven therapeutic exercise, rehabilitation, and lifestyle management programming. As leaders in providing a collaborative approach to exercise prescription, physical therapists (PTs) are the most qualified professionals to lead in the development of appropriate medical fitness services for at-risk populations. This session will provide helpful tools, insight, and data to support the expanding roles of PTs in their medical communities.

DIRECT ACCESS THROUGHOUT THE CONTINUUM OF CARE
11:00 am–1:00 pm ICC 205 PP-1B-8575
Joint Program: Health Policy
Speakers: Ann Wendel, PT, CMTPT, ATC, Karen Litzy, PT, MS, Kyle Ridgeway, PT, DPT
Direct access is a hot topic for outpatient physical therapists who feel alone in the pursuit of the ability to practice to their fullest potential. But do we need to take a broader view of what direct access means? All physical therapists in all settings need to have a stake in pursuing direct access for their profession. The presenters will discuss not just the logistics, but also the professional mindset of direct access through the continuum of care from the acute setting to home health to outpatient orthopedics. Attendees will learn how to be an effective part of a medical team to provide the most comprehensive care possible to today’s patient and health care consumer.

TRANSFORMING PRACTICE: PREVENTION, HEALTH, AND WELLNESS PROGRAM
3:00 pm–5:00 pm ICC 205 PP-1C-0079
Speakers: Brian J. Pease, PT, DHSc, OCS, Janet R. Bezner, PT, PhD, Renée M. Hakim, PT, PhD, NCS, Michael D. Ross, PT, DHSc, OCS
The APTA Guide to Physical Therapist Practice states that part of a physical therapist’s practice is to “prevent recurrence of problems and promote health, wellness, and fitness.” The incorporation of prevention and health, wellness, and fitness programs by physical therapists, particularly in a direct access capacity, may be a valuable health care strategy and resource, as primary prevention approaches may optimize client function and reduce downstream medical costs. In this session, the value of incorporating prevention and health, wellness, and fitness programs by physical therapists will be described, as well as challenges and obstacles to implementation. This session will also provide physical therapists with a thorough understanding of effective implementation and marketing strategies for prevention and health, wellness, and fitness programs that can be used to immediately transform their practice.

I NEED YOU, YOU NEED ME: A DISCUSSION WITH PHYSICAL THERAPY RESEARCHERS AND CLINICIANS
8:00 am–10:00 am M 102 RE-1A-0107
Speakers: Roberta O’Shea, PT, PhD, James Thomas, PT, PhD, Andrea L. Behrman, PT, PhD, Deborah Backus, PT, PhD, Jennifer B. Christy, PT, PhD, Christopher A. Rabago, PT, PhD, Ellen Shanley, PT, PhD
Collaborative research relationships between physical therapy researchers and clinicians are desirable but both groups are often unsure how to establish and nurture these relationships. This session will bring together a panel of physical therapy researchers from various APTA sections to discuss how they develop and maintain relationships with clinicians. Representative clinicians will also be on the panel discussing how they partnered with physical therapy researchers to drive knowledge translation and focus research agendas. This session will also allow participants to hear firsthand how to become involved with knowledge translation and research/clinician partnerships and perhaps be inspired to develop these connections in their own practices.
Healthy neurophysiological systems live between two extremes. At one extreme a system’s dynamics (eg, stride or heart beat rhythms) could be highly regular and predictable, while at the other extreme the dynamics could be highly random and unpredictable. In between lies a healthy “sweet spot” that reflects a blend of stability and adaptability. Diseases and injuries can cause systems to operate closer to either extreme. Classical statistical measures (eg, mean or standard deviation) are not designed to capture how system states evolve over time. Therefore, to detect these altered dynamics nonlinear dynamics techniques (eg, entropy, fractal, and recurrence quantification metrics) must be used. This session will provide an overview of nonlinear dynamical analyses, representative examples of how these tools can be used to transform physical therapy practices for a variety of populations, and example resources for further education.

Basic

EMBARKING ON THE ROAD TRIP AND NAVIGATING THE JOURNEY OF ACADEMIC LIFE
8:00 am–10:00 am M 104 RE-1A-2504
Joint Program: Women’s Health
Speakers: Jennifer Schmit, PT, DPT, PhD, Catherine Quatman-Yates, PT, DPT, PhD, Michael Riley, PhD, Adam W. Kiefer, PhD

The APTA vision statement for physical therapy provides a clear indication of the need for integration between research and practice in the profession. This integration requires looking beyond the ability of clinicians to understand and use published research. It can be facilitated by encouragement of a clinician’s capacity to apply the principles of research methodology to evaluate their own practice. This puts physical therapists on a path to becoming not only more discerning consumers of research findings, but active participants in generating evidence. This session will explain how to integrate the latest motor learning strategies to develop effective gait retraining programs to specifically address the key pathomechanics associated with running-related injuries. Emphasis will be placed on the use of effective motor learning strategies that transfer readily to the clinical setting. Evidence supporting gait retraining programs using both clinical techniques as well as mobile wearable technology will be presented. Case studies will demonstrate the effective treatment of injured runners and how best to employ motor learning concepts to maximize patient outcomes. Motor learning strategies such as appropriate timing of fixed and variable practice feedback schedules and types of feedback as well as internal and external focus will be emphasized. Future areas of study will be identified, including the challenge of determining effective clinical cues and the need for mobile monitoring to determine the long-term persistence of retrained running gait.

Intermediate

EPGENETICS IN REHABILITATION RESEARCH
11:00 am–1:00 pm M 204 RE-1B-6644
Joint Program: Sports
Speakers: Darcy Reisman, PT, PhD, Richard Willy, PT, PhD, OCS

Epigenetics is an area of biology dedicated to understanding functional changes to the genome that do not involve changes to the DNA sequence. There are a number of ways in which DNA can be functionally modified, and examples will be provided in this session. However, emphasis will be provided to processes such as methylation and histone modification, which can yield substantial changes in gene expression and therefore cellular function. In this session the current tools and techniques used in this field will be discussed and examples related to clinical care will be used to illustrate its utility. Finally, and perhaps most important, there will be a discussion about how clinicians and scientists can gain access and basic science support for these tools.

Intermediate

MOVE THE FEAR AWAY: PHYSICAL THERAPY A CENTRAL TREATMENT STRATEGY FOR FEAR OF MOVEMENT
3:00 pm–5:00 pm M White River Ballroom G RE-1C-0840
Joint Program: Women’s Health
Speakers: Karin G. Silbernagel, PT, PhD, ATC, Mari Lundberg, PhD, Jo Nijs, PT, MPT, PhD, Romy Parker, PT, PhD

This session will review the evidence and the current knowledge about the fear of movement paradigm applied within physical therapy. Physical therapists need to take the lead within this field and form a theoretical framework. Regardless of the setting in which physical therapists work, they are confronted with patients having
fear of movement. During the last decade the phenomenon known as fear of movement, or kinesiophobia in its most extreme form, has gained an enormous interest among physical therapists, clinicians, and researchers alike. This session will present research in a variety of clinical populations that has shown how physical therapists are able to effectively decrease fear of movement by using various kinds of exercise interventions. The presenters will also show innovative techniques that aim at retraining fear-triggered pain memories. Participants will discover how physical therapy can decrease fear of movement in a wide variety of patients.

**Multiple Level**

**SETTING YOURSELF UP TO SUCCEED AT INSTITUTIONS WITHOUT AN ESTABLISHED RESEARCH CULTURE**

3:00 pm–5:00 pm  M 102  RE-1C-7538

**Speakers:** Scott K. Stackhouse, PT, PhD, Katherine S. Rudolph, PT, PhD, Rebecca L. Craik, PT, PhD, Kathy J. Lemley, PT, MS, PhD, Ryan L. Mizner, PT, PhD, Joanne M. Wagner, PT, PhD, Joshua Cleland, PT, PhD

This session will provide a forum to identify, discuss, and formulate potential solutions for breaking down barriers to performing research at institutions without an established research culture. A moderated panel will share their experiences within their own institutions. This session will include ample time to discuss participants’ specific environments. This proposal was initiated by the Section on Research Early Career Investigator Special-Interest Group.

**Intermediate**

**CLINICIAN-DRIVEN RESEARCH: A FRAMEWORK FOR IMPLEMENTATION IN A MEDICAL CENTER MODEL**

3:00 pm–5:00 pm  M 101  RE-1C-3048

**Joint Program:** Health Policy

**Speakers:** Stephanie Di Stasi, PT, PhD, OCS, Selena Eskinazi-Budge, PT, DPT, CSCT, Timothy E. Hewett, PhD, FACSM, Thomas Caldwell, PT, DPT, SCS, ATC

This session will discuss the implementation process of a novel clinician-driven research initiative in a medical center model. The Clinical Outcomes Research Committee (CORC) was established to support physical therapists interested in creating outcomes-focused research. The numerous benefits of a collaborative effort in translational science to the institution, researcher, clinician, and patient will be discussed. Attendees will be provided with information regarding the conception and execution of the CORC program and the metrics of success. This session will summarize the accomplishments and challenges of the CORC program in its inaugural year. Participants will leave this session with a framework for introducing a CORC program and the numerous benefits of clinician-driven research projects.

**Intermediate**

**CHOOSING WISELY: IMPLICATIONS FOR PHYSICAL THERAPIST PRACTICE**

3:00 pm–5:00 pm  W Grand 5  HP-1C-9412

**Joint Program:** See Health Policy for more details

**SPORTS PHYSICAL THERAPY**

**MEDICAL TENT: THE ROLE OF THE PHYSICAL THERAPIST IN EMERGENCY CARE FOR THE RUNNING ATHLETE**

8:00 am–10:00 am  ICC Sagamore Ballroom 4  SP-1A-8237

**Speakers:** Abigail J. Smith, PT, DPT, SCS, Capt Michele “Shelly” Leavitt Weinstein, PT, MS, SCS, ATC

Participation in endurance running competitions has dramatically increased in recent years. With increased participation comes increased volume of injuries on race day. These larger numbers of injured athletes requires the need for well-prepared medical staff to treat runners. As physical therapists continue to increase their roles as sideline emergency responders and medical staff volunteers, there is a need for further defining these roles as well as developing further knowledge of emergency response for these athletes. This session will give physical therapists the proper preparation to deliver adequate care to these athletes. Presenters will discuss expedited and accurate triage, diagnosis, and treatment that will allow these athletes the optimal opportunity for recovery. This session will also provide the physical therapist with evidence-based knowledge to prepare and implement immediate care for the running athlete.

**Multiple Level**

**UPPER EXTREMITY INJURIES OF THE ADOLESCENT THROWING ATHLETE**

8:00 am–10:00 am  ICC Sagamore Ballroom 5  SP-1A-2267

**Speakers:** Drew T. Jenk, PT, DPT, Kevin J. McHorse, PT, MSPT, SCS, Cert MDT, Joseph T. Molony, PT, MS, SCS, CSCS, Rafael Escamilla, PT, MPT, PhD, MS, CSCS

This session will provide in-depth exploration of upper extremity injuries of the adolescent throwing athlete. This session will also examine pathomechanics and resultant injury typically sustained at the shoulder and elbow in a young thrower. The presenters will describe specific rehab considerations, throwing mechanics, and preventive measures applicable to the adolescent throwing athlete.

**Intermediate**
SURPASSING THE CHALLENGES AND BARRIERS IN DEVELOPING AND PROMOTING RESIDENCY TRAINING IN THE SPORTS REALM
8:00 am–10:00 am ICC 144 SP-1A-9475
Speakers: Airelle O. Giordano, PT, DPT, OCS, SCS, Matt Briggs, PT, DPT, OCS, AT, CSCS, John DeWitt, PT, DPT, OCS, ATC
The physical therapy profession must continue to change and adapt to meet the needs of society. Residency training as part of physical therapist’s education is one important avenue targeted at meeting the demands of the transforming health care environment as the physical therapy profession strives to transform society by optimizing movement to improve the human experience. Currently 28 out of the 163 accredited residency programs represent advanced training in a sport-specific environment. However, identifying which model or how a model may be incorporated into the development of a sports residency program can be challenging. Current accreditation standards and the new Sports Description of Specialty Practice document will form the foundation for this session followed by an interactive panel discussion. Panelists with expertise in the development and accreditation of sports physical therapy residencies will discuss and reflect upon the process of sports physical therapy residency development and the vision of future sports residencies.

Intermediate

OPTIMIZING REHABILITATION FOR SAFE RETURN TO SPORT AFTER ACL RECONSTRUCTION
8:00 am–10:00 am ICC 500 Ballroom SP-1A-9734
Speakers: Stephanie Di Stasi, PT, PhD, OCS, Mark V. Paterno, PT, PhD, MBA, SCS, ATC, Terese L. Chmielewski, PT, PhD, SCS, Laura C. Schmitt, PT, PhD
This session will discuss the current evidence for successful return to sport following anterior cruciate ligament (ACL) reconstruction. Return-to-sport rates and high risk of second injury will be reviewed along with influencing factors. A discussion will follow on how this information can guide clinicians to reevaluate standard treatment strategies throughout all phases of rehabilitation with an emphasis on comprehensive return-to-sport testing. Participants will leave the session with evidence-based critical rehabilitation milestones and clinical pearls for treatment progression and testing.

Multiple Level

ACETABULAR LABRAL TEARS REVISITED: UNDERSTANDING THE CURRENT EVIDENCE AND HOW IT SHAPES OUR INTERVENTIONS
11:00 am–1:00 pm ICC Sagamore Ballroom 2 SP-1B-9156
Speakers: Cara L. Lewis, PT, PhD, Stephanie Di Stasi, PT, PhD, OCS, Michael P. Reiman, PT, DPT, OCS, SCS, John DeWitt, PT, DPT, SCS, ATC, Thomas J. Ellis, MD
This session will provide an in-depth understanding of how acetabular labral pathology of the hip can be successfully managed with conservative surgical treatment. Labral structure and function will be reviewed and its controversial role in the pathogenesis of hip osteoarthritis will be discussed. Data highlighting the association between hip structural abnormalities and labral injury will be used when comparing both conservative and surgical treatment options. An experienced hip arthroscopist will discuss criteria for surgery and use of radiographic findings to guide surgical techniques. Proposed guidelines for perioperative care will integrate principles of neuromuscular training, biological healing, and biomechanics. Case examples will be used to demonstrate efficacy of this clinical care model.

Intermediate

INJURIES IN FOOTBALL: FROM THE ADOLESCENT ATHLETE TO THE NFL
11:00 am–1:00 pm ICC Sagamore Ballroom 5 SP-1B-5973
Speakers: Timothy Tyler, PT, ATC, MS, Brandon M. Schmitt, PT, DPT, ATC, Gary J. Calabrese, PT, DPT, Russ Paine, PT
Football is a high-speed game with a lot of physical contact resulting in a high injury rate. There is an extreme diversity of injuries in football. Concussions are among the most controversial injuries with respect to management and long-term consequences. Similarly management of shoulder injuries must strike a balance between return to play and the risk of long-term consequences that pose clinical challenges. This session will address current approaches to the evaluation, diagnosis, and treatment of football related injuries. Common and difficult football-related injuries will be discussed with an emphasis on current treatment trends and the best evidence-based approaches. Current treatment controversies and risk factors for injury and preventive strategies will be addressed.

Multiple Level

ANTERIOR SHOULDER PATHOLOGY IN ATHLETES: FROM MICRO TO MACRO
11:00 am–1:00 pm ICC Sagamore Ballroom 4 SP-1B-5677
Speakers: Andrew Naylor, PT, DPT, Drew T. Jenk, PT, DPT, Mitchell Salsbery, PT, DPT, Wes Eberlin, PT, MPT
This session will cover multiple common and uncommon anterior shoulder pathologies seen in the sports population. Topics will include SLAP tears, microinstability of the shoulder, nonoperative management of anterior shoulder instability, and laterjet and rempillassage procedures. Each of the 4 topic areas will be further broken down, reviewing evidence supporting the diagnosis, prognosis, rehabilitation, surgical intervention if appropriate, and outcomes.

Intermediate
ADVANCING SPORTS PHYSICAL THERAPY THROUGH CLINICAL RESEARCH
11:00 am–1:00 pm ICC 144 SP-1B-3849
Speakers: Ellen Shanley, PT, PhD, Darin Padua, PhD, ATC, Mark V. Paterno, PT, PhD, MBA, SCS, ATC, Charles A. Thigpen, PT, PhD, ATC

Sports injuries are a major public health concern with increasing frequency and type of injuries, leading to high cost to the health care system, prolonged morbidity with time-loss, risk of reinjury and reduced involvement in activity. Highly skilled rehabilitation facilitates participation in sports through injury prevention and recovery. However, there is a lack of high-quality evidence to direct and guide clinical practice. Implementation and interpretation of emerging evidence requires an understanding of the clinical questions to be answered. This session will provide considerations for applying and conducting research studies within the context of clinical practice. Discussions will focus on tenants for interpreting and applying the results of studies to clinical practice. A review of clinical registries and outcome databases for the promotion of high-quality clinical pathways will be provided. Other topics for discussion include exploration of patient preference and efficacy versus effectiveness research.

Multiple Level

MOTOR LEARNING TO RETRAIN MOVEMENT PATTERNS IN INJURED RUNNERS
11:00 am–1:00 pm M White River Ballroom I RE-1B-9845
Joint Program: See Research for more details

ELBOW PITCHING BIOMECHANICS AND UCL INJURY RISK FACTORS IN ADULT AND YOUTH PITCHERS
3:00 pm–5:00 pm ICC Sagamore Ballroom 4 SP-1C-0280
Speakers: Rafael F. Escamilla, PT, PhD, Charles Leddon, PhD, ATC, Arnel Aguinaldo, MA, ATC, Kevin E. Wilk, PT, DPT

It is estimated that 10%–25% of all professional baseball pitchers have undergone ulnar collateral ligament (UCL) reconstruction. Elbow and UCL injuries have also drastically increased in youth pitchers, largely due to overuse and throwing high-stress pitches such as the slider and curveball. If pitching kinematics (mechanics) is abnormal, both valgus loading and the risk of UCL injury increase. This session will present the findings from the scientific literature on UCL injuries and elbow loading in both adult and youth baseball pitchers. UCL risk factors will be examined as well as how elbow valgus loading is directly related to a number of kinematic and kinetic factors associated with baseball pitching. Finally, UCL reconstruction rehabilitation will be discussed.

Intermediate

THE MANY FACES OF SPORTS PHYSICAL THERAPY
3:00 pm–5:00 pm ICC Sagamore Ballroom 5 SP-1C-7362
Speakers: Ross Nakaji, PT, OCS, SCS, CSCS, ATC, George J. Davies, PT, DPT, SCS, ATC, CSCS, FAPTA, Todd Ellenbecker, PT, DPT, Robert C. Manske, PT, DPT, Allen Hardin, PT, SCS, ATC, Teresa Schuermann, PT, DPT, SCS, CSCS, ATC, Christy Schuckman, PT, Mark V. Paterno, PT, PhD, MBA, SCS, ATC

Sports physical therapy is performed in a wide variety of settings. Many physical therapists would like to become involved in the field but often believe that either the opportunities are too limited or are just unsure how to get involved. The presenters in this session will discuss their varied backgrounds and settings. Each therapist has a unique background and path to his or her current position and will provide insight into current and future opportunities in the field of sports physical therapy.

Basic

GAIT RETRAINING FOR INJURED RUNNERS: IN SEARCH OF THE IDEAL
3:00 pm–5:00 pm ICC Sagamore Ballroom 2 SP-1C-6455
Speakers: Bryan Heiderscheit, PT, PhD, Christopher Powers, PT, PhD, Irene Davis, PT, PhD

In recent years, gait retraining techniques involving modification of foot-strike, trunk lean, and step rate have been advocated as part of running injury management. This session will provide a unique, open discussion of these varying strategies applied to the management of running-related injuries. Each speaker will describe his or her preferred approach based on the evidence that has evolved from decades of clinical practice and biomechanical research. A panel discussion and debate will follow with emphasis on participant questions.

Multiple Level

WOMEN’S HEALTH

PELVIC AND WOMEN’S HEALTH PHYSICAL THERAPISTS: WHAT THEY DO AND HOW THEY GOT STARTED!
8:00 am–10:00 am M White River Ballroom G WH-1A-3075
Speakers: Sarah L. Kohls, PT, Marcy Crouch, PT, DPT, CLT, WCS, Natalie J. Sebba, PT, DPT, WCS, CLT, Nicole Coleman, PT, DPT, Valerie Bobb, PT, MPT, WCS, ATC

Leaders in the field of pelvic and women’s health will discuss their work. Topics will include pelvic pain, incontinence, pregnancy and post-partum symptoms, the female athlete, osteoporosis, and lymphedema. The speakers also will discuss how they got their start in women’s health and/or pelvic physical therapy. This forum is geared toward students who want to learn about this important and rapidly growing field. It will also be informative for therapists without extensive exposure to pelvic physical therapy.

Basic
SEX IS AN ADL TOO
8:00 am–10:00 am  M White River Ballroom E  WH-1A-4944
Joint Program: Geriatrics, Home Health
Speaker: Talli Y. Rosenbaum, PT, CST, MSc, IF
This session will highlight the importance of addressing sex in general physical therapist practice. Sexual health is an integral component to overall wellness, and sexual activity is a valued human activity. Physical disability, orthopedic injury, neurological impairments or the presence of pain are all conditions that potentially affect sexual function. Physical therapists in a variety of treatment centers, both inpatient and outpatient, encounter patients with these conditions. Treatment is geared toward the restoration of the ability to function and perform activities of daily living (ADLs) independently and painlessly. Sexual functioning is an important ADL and will be addressed in this session. Many health professionals, including doctors and nurses as well as physical therapists, have not been properly trained to address issues of a sexual nature. In some cases, health professionals may be embarrassed or hesitant to discuss sexuality and may project these feelings on to their patients. Health professionals may also mistakenly assume that sexuality is not a concern due to advanced age, disability, or marital status.
Multiple Level

IS THERE REALLY A ONE-SIZE-FITS-ALL DIET?
STRATEGIES FOR INDIVIDUALIZED NUTRITION FOR PATIENTS WITH PELVIC PAIN
11:00 am–1:00 pm  M White River Ballroom E  WH-1B-9827
Speaker: J. Drummond
Pelvic pain is commonly due to overlapping bladder, reproductive, and digestive diagnoses, such as interstitial cystitis and painful bladder syndrome, endometriosis, inflammatory bowel disease, irritable bowel syndrome, and musculoskeletal issues such as pelvic floor muscle dysfunction. This session will examine how nutrition can impact treatment outcomes for physical therapists who treat women and men with pelvic pain. Physical therapists have often been introduced to nutrition as a treatment tool using such ideas as the “IC” diet, adding more fiber to address constipation, or keeping bladder and bowel diaries to observe hydration. But most physical therapists are unaware of the impact of nutrition on intestinal permeability, the gut microbiome, and the neuroendocrine system. The presenters will explain the impact of nutrition at a root cause level on pelvic pain conditions, so that therapists can appropriately make functional nutrition recommendations or refer patients for appropriate functional nutrition assessment and treatment by nutrition, naturopath, or functional medicine colleagues.
Basic

RESURRECTING HOPE: DEVELOPING A TOOLKIT FOR THE TREATMENT OF PERSISTENT PELVIC PAIN
11:00 am–1:00 pm  M 104  WH-1B-5837
Speakers: C. M. Vandyken, N. Faghani, M. Forget
Evidence supports the use of pain education in the treatment of persistent pain. Neurophysiology-based pain education gives the patient hope for recovery and sets the stage for the use of a biopsychosocial model of care. This approach starts with an understanding of how to balance our treatment paradigms in a way that considers the biological, psychological, and social components of each patient’s presentation. Despite understanding this concept theoretically, most physical therapists approach treatment of persistent pain using predominately a tissue-based paradigm, which exists in a predominant biomedical model. To effectively treat persistent pain in a biopsychosocial framework, physical therapists need to develop a toolkit of treatment approaches to address the sensitized nervous system. This includes mind-body awareness techniques such as qi gong, yoga, and imagery techniques, and strategies including mindfulness, meditation, and deep breathing. This session will help participants treat tissue dysfunction and a sensitized nervous system in a way that meets the balance of each patient’s individual presentation.
Intermediate

BUILDING THE BRIDGE: CONNECTING PHYSICAL THERAPY PRACTICE WITH RESEARCH
11:00 am–1:00 pm  M 101  RE-1B-9102
Joint Program: See Research for more details

ENHANCE CLINICAL OUTCOMES WITH POSITIVE PAIN EDUCATION
3:00 pm–5:00 pm  M White River Ballroom E  WH-1C-3738
Speaker: Neil Pearson, PT, MSc, BA-BPHE, CYT, RYT500
Patient beliefs about pain and recovery are significant barriers to recovery. Yet for many clinicians, there is no time in the clinical visit to provide effective pain science education. This session provides a framework and clinical examples of using standard physical therapy techniques to provide positive pain education experiences.
Multiple Level
FACILITATING PELVIC FLOOR STRENGTH, SUPPLENESS, AND COORDINATION IN MEN: EXPLORE THE FLOOR OF THE CORE (+ MORE!)

3:00 pm–5:00 pm M 104 WH-1C-7287

Speakers: B. Gallagher, R. Sabel

Many men suffer from pelvic pain, sexual dysfunction, or incontinence related to pelvic floor disorders. The present view of a “pelvic floor–related disorder” is overly limited, given how integral to function this structure is. The pelvic floor comprises muscles that often seem beyond conscious control. By bringing awareness, strength, and suppleness to these muscles, therapists can not only address incontinence and increase sexual fulfillment, but can also alleviate pain in the pelvis, hips, knees, and back; improve respiration; and facilitate functional activities such as lifting objects, reaching, and rising from a chair. Attendees will learn about low-tech, noninvasive techniques that draw from yoga, tai chi, qi gong, Feldenkrais, and conventional physical therapy to guide men toward improved health and function. The speakers will review the anatomy, pathology, pain mechanisms, physiology, kinesiology, mind-body energetics, and psychoemotional aspects of pelvic floor concerns in men.

Multiple Level

OPTIMIZATION OF LABOR AND DELIVERY THROUGH THE APPLICATION OF MANUAL PHYSICAL THERAPY

3:00 pm–5:00 pm ICC 104 WH-1C-2421

Speaker: P. Morrison Wiles

In this session, participants will gain insight into the complexities of treating the obstetric population. Topics covered will include hormonal, physiological, and structural changes during pregnancy, as well as physical therapy evaluation and intervention for common complaints. Manual therapy techniques will be a focus for treatment intervention. The presenters will describe a research study that validates a protocol that may help turn breech and optimize vaginal delivery.

Intermediate

SEX IN THE SECOND HALF: VIBRANT AND HEALTHY SEXUAL AGING

3:00 pm–5:00 pm ICC 241 GR-1C-3691

Joint Program: See Geriatrics for more details

MOVE THE FEAR AWAY: PHYSICAL THERAPY A CENTRAL TREATMENT STRATEGY FOR FEAR OF MOVEMENT

3:00 pm–5:00 pm M White River Ballroom G RE-1C-0840

Joint Program: See Research for more details
Teaching from the heart

Sam Kegerreis, PT, MS

Indy Professor

The name Sam Kegerreis is almost synonymous with the words “physical therapy.” Since 1980, Sam has taught in the Krannert School of Physical Therapy at the University of Indianapolis. But Sam hasn’t taught just PT. He has taught compassion, humanity, and the importance of being real. Sam’s career as a professor is coming to a close, but we know that Sam’s role as a teacher will continue outside of the classroom.

“We are in a profession that enables us to touch people; tactile contact is just a small part of it. We’re not just changing dressings, gait patterns, and motor performance. We are changing lives.”

pt.uindy.edu/sam
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Physical Therapists – Fort Myers, FL

Full-time, part-time and per diem positions available, various shifts

This is a great time to join Lee Memorial Health System! We are growing and expanding our services to meet the needs of our community. As the 4th largest public health system in the country, with four acute care hospitals and two specialty hospitals, we have a dedicated team of more than 200 therapists in our Rehabilitation Department across a variety of clinical settings. Our vision is to be the best patient-centered health care system in Florida, through balancing quality, access and cost.

We have exceptional opportunities for Physical Therapists who share our commitment to excellence. Whether you’re already established in your area of expertise, or a new graduate looking to begin your career, consider the opportunities at Lee Memorial Health System.

Job Requirements: Baccalaureate degree in Physical Therapy

To learn more about Physical Therapist positions at Lee Memorial Health System, please visit jobs.leememorial.org/ad/csm

Drug/Tobacco-free workplace: EOE
SCHEDULE AT A GLANCE

FRIDAY, FEBRUARY 6

COMBINED SECTIONS MEETING OF THE
AMERICAN PHYSICAL THERAPY ASSOCIATION

INDIANAPOLIS • FEBRUARY 4-7

CSM 2015
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**Unopposed Exhibit Hall Hours**

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**FRIDAY, FEBRUARY 6**
CENTRA PHYSICAL THERAPY
WHERE YOUR JOURNEY BEGINS

Your new starting point — one of the top healthcare systems in the Southeast.

At Centra, you will find the right place to grow and develop your skills as a therapist in one of the most beautiful places in the country. Here, you take care of your patients and we will take care of you.

Our therapists provide compassionate, outcome-driven care, utilizing the forefront of technology. Centra is a proven leader in providing a positive patient experience throughout all of our service lines. Our focus is on providing patients exceptional care with a personal touch. Treatment plans are developed on evidence-based practices and proven clinical pathways. We provide our communities with comprehensive care that supports every aspect of the patient’s rehabilitative journey.

We invite you to learn more. Begin your journey with Centra Physical Therapy.

CONTACT BRENT HOLLAND AT 434.200.6242 OR GO TO: BEACENTRATHERAPIST.COM
SESSION CODES

CSM 2015 employs a session code system to better track the educational sessions offered in Indianapolis. Each session is identified by a 2-letter section abbreviation, followed by a number indicating the day of the session, a letter indicating the time, and a 4-digit code unique to that session. A guide to the codes can be found on page 3.

ACUTE CARE

ESTABLISHING A CULTURE OF MOBILITY IN THE HOSPITAL SETTING: CONTINUING THE CONVERSATION

8:00 am–10:00 am  ICC 102  AC-2A-1644
Speakers: Mary Stilphen, PT, DPT, Michael Friedman, PT, MBA

Health care reform has reinforced the need to transform service models to focus on value by emphasizing efficiency and efficacy. This need for system redesign, culture change, and innovation presents an opportunity to overcome obstacles to implementing an interdisciplinary mobility program as a standard of care. Although physical disability has been identified as an important, potentially modifiable factor that may contribute to hospital readmission risk, translation of the evidence recognizing “the preventable harm of inactivity” into interdisciplinary clinical practice has been challenging due to provider attitudes and operational barriers. This session will provide current evidence supporting mobility in the acute care setting. Presenters will identify the value opportunities for mobility to enhance outcomes or reduce costs along the health care continuum. This session will also examine specific strategies to leverage an organization’s health care reform initiatives, including strategies to initiate, conduct, and evaluate an interdisciplinary mobility model. The presenters will demonstrate how hospitals can successfully integrate different types of data to inform their decision-making process and, finally, discuss practical strategies to measure success.

Intermediate

MANAGING CRITICALLY ILL PATIENTS: ARE OTHER CLINICIANS RECOGNIZING THE DIFFERENCE BETWEEN EARLY MOBILITY AND EARLY REHABILITATION?

11:00 am–1:00 pm  ICC 102  AC-2B-0126
Speakers: Jennifer M. Ryan, PT, DPT, MS, CCS, Patricia J. Ohtake, PT, PhD, Mary T. Keehn, PT, DPT, MHPE, Daniel Malone, PT, PhD

This session will examine the role of the physical therapist in the management of critically ill patients, exploring why the physical therapist is essential for successful patient outcomes. This session will also cover the high level of situational awareness needed to determine the appropriate time to initiate and terminate an exercise session with a critically ill patient. Participants will hear about strategies to successfully communicate mobility status and mobility needs to the patient and other members of the interprofessional team. The session will also explore the role that the physical therapist serves on the interprofessional team. Ultimately, participants will receive information they can use to make the case for the role of physical therapist services in managing critically ill patients and to arm them with research that will solidify the physical therapists’ place in critical care.

Intermediate

PHYSICAL THERAPISTS ON THE EMERGENCY DEPARTMENT TEAM: PT AND MD PERSPECTIVES

11:00 am–1:00 pm  ICC 104  AC-2B-4159
Speakers: Stacie J. Fruth, PT, DHS, OCS, Michael Brickens, PT, Timothy Ellender, MD

Physical therapist (PT) practice in the emergency department (ED) has existed for 15 years in the US. There remains a paucity of published research and a lack of understanding of this unique practice, even among PTs. The Indiana University-Methodist Hospital (IU-MH) is an example of a Level 1 Trauma Center with a thriving ED PT practice. This ED has employed PTs since 2002 and currently provides 84 hours of PT coverage per week. Surveys of IU-MH physicians specific to opinions of ED PT practice are overwhelmingly positive. This session will outline the growth of ED PT practice at IU-MH, provide a summary of ED PT research conducted through IU-MH, outline the challenges of implementing meaningful and impactful research in the ED, and allow ED physicians to share personal experiences specific to ED PT practice.

Basic

ACUTE CARE THERAPISTS CAN SURVIVE AND THRIVE IN UNCERTAIN TIMES

3:00 pm–5:00 pm  ICC 102  AC-2C-1823
Speakers: Brian Hull, PT, MBA, Cathy Thut, PT, DPT, MBA, Sharon Cheng, PT, MSPT, MBA, Donna Fitch, OT

The current environment of health care reform and cost cutting require hospital therapists to take significant steps to manage their culture and actual practice patterns. The physical therapy profession consistently promotes advancement, but are hospital therapy programs consistently following through with true best practices? Are hospital therapists aware of health care system politics? Do hospital therapists have strategies to successfully navigate politics and influence change? How are therapy departments viewed by a hospital’s executive leadership? How can hospital therapy programs ensure they are seen in a positive light? This session will discuss the urgent need to manage culture and help lead health care reform in today’s hospitals to avoid becoming irrelevant.

Intermediate
ICU LIBERATION: HOW PHYSICAL THERAPY IS PART OF REDUCING THE HARMs OF CRITICAL ILLNESS

3:00 pm–5:00 pm  ICC 104  AC-2C-8038
Speaker: Heidi J. Engel, PT, DPT

This session will help physical therapists understand the important role they play as members of the ICU team. It will outline the presenter’s approach to minimizing organizational barriers to early physical activity for ICU patients, explain how to make individual patient treatment decisions, and describe how the physical therapist working in the ICU can liberate patients from the ICU. The presenters will tie all this into a summary of work being done by professional organizations such as the Society of Critical Care Medicine ICU Liberation initiative, the Institute for Healthcare Improvement, and the Moore Foundation-sponsored EMERGE Project.

ACUTE CARE LECTURE: SOLIDIFYING THE FUTURE OF THE PT PROFESSION IN ICU: THE TIME IS NOW

6:30 pm–7:30 pm  M White River Ballroom E  AC-2D-0726
Speaker: Christiane Perme, PT

Physical therapists (PT) working with patients in the ICU face immense and complex challenges. An important clinical scenario found in patients during an ICU stay is the limitation and deterioration of functional status. For selected patients, early mobility and physical activity can lead to an increase in functional capacity and improve quality of life. To realistically establish the role of physical therapy in the ICU, we need to determine the best way to optimize our skills from patient selection and therapy techniques to choice of outcome measures. This lecture will inspire PTs and researchers to reflect on and understand the clinical principles that promote best practices in the ICU. Solidifying the future of physical therapy in the ICU is essential.

AQUATIC PHYSICAL THERAPY

USING AQUATICS IN PEDIATRICS TO ENCOURAGE PARTICIPATION

3:00 pm–5:00 pm  M White River Ballroom C  AQ-2C-7837
Speaker: Beth Ennis, PT, EdD, PCS, ATP

Many children with disabilities and their families often feel isolated from the activities that their typical peers engage in. This isolation limits their ability to fully participate in their role as a child, as a result of functional limitations and lack of time due to other appointments and therapies. This session will discuss using aquatic therapy to address not only the functional limitations, but also to increase physical participation in these children. Benefits of aquatics for children will be discussed, along with ways to encourage parent participation and use consultative practice to develop community-based activities.

CARDIOVASCULAR AND PULMONARY

HIGH-INTENSITY INTERVAL TRAINING: REHAB CONSIDERATIONS FOR HEALTH AND CARDIOVASCULAR RISK

8:00 am–10:00 am  ICC 234  CP-2A-8682
Speakers: Jodi Klein, PT, DPT, OCS, CSCS, Lauren Mellett, PT, DPT, CCS

High-intensity interval training (HIIT) was historically designed as an alternative to continuous moderate intensity exercise to improve the performance of high-level athletes. Over the years, HIIT has evolved and grown in popularity in health and fitness, offering superior performance enhancement, weight loss, and efficiency in training. This session will explore the benefits and potential safety issues of HIIT to consider for patients in both orthopedic/sports and cardiovascular rehabilitation settings.

VENOUS THROMBOEMBOLISM AND HEART FAILURE: CURRENT CLINICAL PRACTICE GUIDELINES

3:00 pm–5:00 pm  ICC 209  CP-2C-9185
Speakers: Ellen Hillegass, PT, PhD, CCS, FAPTA, John Heick, PT, DPT, OCS, NCS, Sean Collins, PT, ScD, Michael Puthoff, PT, PhD, GCS, Ethel M. Frese, PT, DPT, CCS, Mary T. Thigpen, PT, PhD

Clinical practice guidelines (CPGs) serve an important role in guiding safe and effective patient management by physical therapists and physical therapist assistants. This session will inform participants about the CPG development process and provide an update on the work of the Cardiovascular and Pulmonary Section. Members of the venous thromboembolism CPG group will present their literature findings, the algorithms they have developed, as well as the key action statements that will be published supported by their review of current practice guidelines developed by other professional groups. The heart failure CPG group is in the early stages of the process and will discuss their progress to date. Participants will hear about the steps involved in organizing and training a team of professionals to write CPGs and explore the common pitfalls and tools available to guide the process.

60  APTA Combined Sections Meeting 2015
CLINICAL ELECTROPHYSIOLOGY AND WOUND MANAGEMENT

INFLUENCE OF ELECTRICAL STIMULATION ON COGNITIVE AND BEHAVIORAL DYSFUNCTION ASSOCIATED WITH DEMENTIA

8:00 am–10:00 am  ICC 120  CE-2A-9094

Speakers: Lynn Freeman, PT, DPT, PhD, GCS, CWS, Bob Shutes, PT, DPT

The National Institute on Aging estimates that over 5 million people in the United States have dementia due to Alzheimer disease. This figure is expected to triple by 2050. These issues make a review of the possible benefits of transcutaneous electrical nerve (TENS) a timely and important topic in the treatment of this disease. Participants will hear about the known effects of TENS on dementia, what remains to be established by research, and the potentially expanded role of physical therapy. A review of literature related to TENS and dementia will be presented. Clinical outcomes of actual patient and client cases using these interventions will also be discussed.

Intermediate

USING NCS/EMG TO FACILITATE EVALUATION OF THE LOWER EXTREMITY

8:00 am–10:00 am  ICC 123  CE-2A-9686

Speakers: John S. Halle, PT, PhD, ECS, David G. Greathouse, PT, PhD, ECS, FAPTA

Neuromuscular evaluation is frequently based on complementary findings that allow the clinician to rule out 1 or more working hypotheses. The identification of specific issues that involve changes in sensation, reflexes, strength, or motor control is often facilitated through the use of nerve conduction studies and electromyography (NCS/EMG). This session will overview select case studies of patients presenting with lower extremity pathology that illustrate how electrophysiological evaluations can help identify a patient’s dysfunction. The evidence-based information on sensitivity, specificity, and odds ratios for electrophysiological findings will also be discussed.

Intermediate
COMPLETE MANAGEMENT OF THE NEUROPATHIC FOOT ULCER
11:00 am–1:00 pm  ICC 120  CE-2B-0121
Speaker: Beth A. Altenburger, PT, MSPT

Neuropathic foot ulcers (NFUs) are a growing problem in the US due to the rise of Type-2 diabetes. This session will cover a complete physical therapy assessment emphasizing different methods for treatment and diagnosis for NFUs. It will also identify evidenced-based physical therapy assessments used for referral and exams and biomechanical assessment of patients with NFUs. Participants will explore vascular and orthopedic interventions that can improve wound healing and preventing future ulcers. Case studies for vascular, orthopedic, and physical therapy intervention will be presented.

Multiple Level

EXERCISE PROGRESSION FOR THE UPPER AND LOWER EXTREMITY: WHAT DOES EMG SAY?
11:00 am–1:00 pm  ICC Sagamore Ballroom 2  SP-2B-4291
Joint Program: See Sports for more details

EDUCATION

TEAM-BASED LEARNING AS THE SIGNATURE PEDAGOGY IN A DPT CURRICULUM
8:00 am–10:00 am  W Capitol II  ED-2A-1743
Speakers: Jan Gwyer, PT, PhD, FAPTA, Kyle Covington, PT, DPT, NCS, Michel Landry, PT, PhD, Jody A. Feld, PT, DPT, NCS, C/NDT, Amy Pastva, PT, PhD, Andrea B. Taylor, PhD

Curriculum development is a continuous process for academic faculty, focusing on problem identification and targeted needs assessments, goals and objectives, instructional and assessment philosophies, and outcomes. This session will describe a 5-year experience with a revised curriculum that uses a signature pedagogy of team-based learning (TBL) across the entire curriculum. The unique strategies of using team-based learning in basic, clinical, and social science courses as well as integrated early clinical education courses will be described. The curriculum resources required to facilitate TBL for faculty and students will be discussed, as will the outcomes for student performance, team effectiveness, and peer learning.

Intermediate

ACADEMIC/CLINICAL PARTNERSHIPS TO TEACH EFFECTIVE MANAGEMENT OF PATIENTS WITH DEMENTIA
11:00 am–1:00 pm  W Capitol III  ED-2B-0047
Joint Program: Geriatrics

Speakers: Carol A. Maritz, PT, EdD, GCS, Shaun N. Varrecchia, PT, DPT, GCS, Jessica Fulmino, PT, DPT, MS, GCS, Keesha Mimms, PT, DPT

With the aging of America, new clinicians face a greater likelihood of working with patients with varying levels of dementia across multiple practice areas. However, classroom access to this patient population is limited, and students are often reluctant to seek out such opportunities as part of their formal clinical education. This session will explore how clinical partners can provide students with hands-on, integrated, clinical experiences working with patients with dementia while simultaneously taking a course in geriatrics. Benefits and challenges to both students and clinical instructors will also be discussed. This session will incorporate lecture material and a panel of clinical partners, faculty, and students to provide insights regarding the value of experiential learning within a geriatrics course.

Multiple Level

THE JOPTE EDITORIAL BOARD RECOMMENDATIONS FOR AN EDUCATIONAL RESEARCH AGENDA
11:00 am–1:00 pm  W Capitol II  ED-2B-9898
Speakers: Jan Gwyer, PhD, Laurita Hack, PT, DPT, PhD, MBA, FAPTA

The members of the editorial board of the Journal of Physical Therapy Education have a unique perspective regarding the types and quality of educational research being conducted in the profession. In this session, this group of experienced educational researchers will facilitate a discussion about the need for a profession-wide, educational research agenda. The presenters will invite all experienced and novice educational researchers to attend this session and contribute to the dialogue on the status of educational research in physical therapy education.

Intermediate

BUILDING FUTURE PRACTICE THROUGH LEADERSHIP DEVELOPMENT: WHY ME, WHY NOW?
11:00 am–1:00 pm  W Grand 3  ED-2B-0003
Joint Program: Health Policy

Speakers: Barbara A. Tschoepe, PT, DPT, PhD, Jennifer E. Green-Wilson, PT, EdD, MBA, John D. Lowman, PT, PhD, CCS, Cheryl B. Footer, PT, PhD, Alice M. Davis, PT, DPT, Heidi J. Eigsti, PT, DPT, PhD

Physical therapists have the potential and the obligation to transform societal perceptions of health and wellness and to integrate their role into the health care community. Evidence shows that leadership is connected to the process of innovation and bringing new ideas, methods, and solutions into practice. However, personal leadership development is rarely included in most physical therapist programs, and often academic and clinical faculty members are unprepared to mentor and guide personal leadership development. This session will reveal how purposeful leadership development can cultivate PTs into leaders. The presenters will review the current evidence on leadership development and engage participants in dialogue on emotional intelligence, transformational leadership behaviors, and the courage needed to advance physical therapist practice across the country.

Intermediate
Dynamic and innovative curricular models are needed to prepare physical therapists to thrive in complex health care environments, manage evolving information, and optimize use of technology. Students have difficulty making sense of the vast amount of information provided with traditional curricula and may rely on memorization of facts rather than use of conceptual learning strategies. This presentation of the annual Pauline Cerasoli Lecture will explore a concept-based approach that organizes learning experiences around key concepts or “big ideas” rather than content or topics. Such concepts foster flexible thinking that can be applied across settings and populations. To adopt this model, the profession will need to define “big ideas” in physical therapy education, consider implications for clinical education, and propose a shift toward conceptually based curricular accreditation standards.

**Pauline Cerasoli Lecture—Coming Into Focus: The Need for a Conceptual Lens**

**3:00 pm–5:00 pm**  
**W Capitol II**  
**ED-2C-7167**  
**Speaker:** Cecilia Graham, PT, PhD

Google Glass, a wearable computer interface, is a recent innovation that has many potential applications in physical therapy. This session will introduce participants to Google Glass with the goal of discussing potential applications in physical therapy. The presenters, who are currently using Google Glass in physical therapy education and clinic settings, will use video and live Google Glass feed in demonstration. Potential ethical conflicts involved with Google Glass use in the class. Room and clinic will also be explored.

**Google Glass in Physical Therapy Education and Clinical Practice**

**3:00 pm–5:00 pm**  
**W Capitol I**  
**ED-2C-9122**

**Joint Program:** Health Policy, Sports, Orthopaedics, Neurology

**Speakers:** Michael Buck, PT, PhD, ATC, Cert MDT, CSCS, Nancy Fell, PT, PhD, NCS, David Levine, PT, DPT, PhD, OCS

Physical therapy educators and clinicians are increasingly expected to incorporate innovative and engaging teaching and functional training strategies. Google Glass allows for a computer interface that can provide real-time feedback and guidance for practical application. This session will also provide greater insight into musculoskeletal screening and guidance for practical application.

**Federal Physical Therapy**

**Therapeutic Adventure: A Complementary and Alternative Approach for Military Personnel and Veterans**

**8:00 am–10:00 am**  
**M White River Ballroom F**  
**FD-2A-1475**

**Speakers:** Barbara Springer, PT, PhD, OCS, SCS, Aaron Leonard, MS, David Scheinfeld, PhD

Psychosocial issues among military personnel and veterans remain high, yet the rate of those seeking help remains low. One innovative approach that shows potential, but has received limited scholarly attention, is therapeutic adventure (TA) approaches. TA integrates adventure, group-based activities with facilitated therapeutic intervention to impact participants physically, cognitively, behaviorally, and affectively. TA aligns well with veteran and active duty personnel’s attraction to adventure sports. These activities often heighten their sense of accomplishment because they involve a mixture of challenge, safe risk-taking, and physicality. This session will highlight 3 distinct therapeutic adventure interventions, Outward Bound for Veterans, Ride 2 Recovery, and Porter S. Garner Jr Warrior Resiliency Training Program for Army personnel, and their associated therapeutic change models. Longitudinal research will be presented examining the impact of each program’s therapeutic model.

**Multiple Level**

**Google Glass in Physical Therapy Education and Clinical Practice**

**3:00 pm–5:00 pm**  
**W Capitol I**  
**ED-2C-9122**

**Joint Program:** Health Policy, Sports, Orthopaedics, Neurology

**Speakers:** Michael Buck, PT, PhD, ATC, Cert MDT, CSCS, Nancy Fell, PT, PhD, NCS, David Levine, PT, DPT, PhD, OCS

Physical therapy educators and clinicians are increasingly expected to incorporate innovative and engaging teaching and functional training strategies. Google Glass allows for a computer interface that can provide real-time feedback and guidance for practical application. This session will also provide greater insight into musculoskeletal screening and guidance for practical application.

**Multiple Level**

**Evidence-Based Amputee Rehab to Maximize Prosthetic Performance**

**3:00 pm–5:00 pm**  
**M White River Ballroom F**  
**FD-2C-9335**

**Speakers:** Robert Gailey, PT, PhD, Ignacio A. Gaunaud, PT, MSPT, PhD, Michele Raya, PT, PhD, SCS, ATC

Justifying specialized treatment for a lifetime of prosthetic care for people with limb loss has made rehabilitation centers around the world begin to debate how to measure quality of care and cost effectiveness, and how to answer the question: “What is good enough?” This session will focus on standardizing physical therapy treatment, implementing outcome measures to identify physical limitations, and determining target exercise programs for people with limb loss.

**Multiple Level**
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EDGE AND PTNow: MANAGEMENT OF HIP FRACTURE
8:00 am–10:00 am ICC 243 GR-2A-4618
Speakers: Kathleen K. Mangione, PT, PhD, FAPTA, Kevin Chui, PT, DPT, PhD, GCS, OCS, FAAOMPT, Alice Bell, PT, DPT, GCS, Tiffany N. Hilton, PT, MPT, PhD
This session will review the tools and the recommendations from the Hip Fracture Evaluation Database to Guide Effectiveness (EDGE) group. Test properties, test performance, and clinical and research recommendations will be discussed. The new clinical summary on hip fracture will also be presented. Evidence-based tools and summary will be showcased and used in patient case examples.

Multiple Level

ENHANCING PROFESSIONAL DEVELOPMENT THROUGH ABPTS CERTIFICATION
11:00 am–1:00 pm ICC 240 GR-2B-9395
Speakers: Derek Stepp, Don Straube, PT, PhD, NCS
The APTA specialist certification program can open up new doors for you as a professional. By becoming a board-certified clinical specialist, you can gain the formal recognition you deserve for your knowledge, experience, and skills. This forum is open to all individuals who wish to learn more about becoming initially certified in any of the 8 approved specialty areas, and about maintaining their certification through the new Maintenance of Specialist Certification (MOSC) program. This will include eligibility requirements and the professional and personal benefits of becoming a board-certified clinical specialist. Following a brief overview of the initial certification and MOSC processes, attendees will have an opportunity to speak with members of ABPTS, the specialty councils, and program staff to get answers to questions about the specialist certification program and process.

Basic

EXERCISE PRESCRIPTION FOR THE OLDER ADULT WITH MULTIPLE CHRONIC CONDITIONS
11:00 am–1:00 pm ICC 241 GR-2B-2449
Speakers: Cathy Ciolek, PT, DPT, GCS, Greg Hartley, PT, DPT, GCS, Jill Heitzman, PT, DPT, GCS, NCS, CWS, CEEAA, FACCCWS, Bill Staples, PT, DPT, DHSc, GCS, CEEAA
The growth in the number and proportion of older adults in the United States has reached an unprecedented rate, with 2 out of 3 older Americans having multiple chronic conditions. Health care costs for this population accounts for 66% of the country’s total health care spending. Physical therapists and physical therapist assistants will work with older adults with multiple chronic conditions in every practice setting. It is imperative that clinicians use exercise prescription principles that appropriately challenge their patients to maximize their physical function via strengthening, aerobic conditioning, gait, and balance interventions that meet guidelines for dose, intensity, frequency, and duration. Functional outcome tools can assist with the development of an exercise prescription and provide the information needed to meet current regulatory requirements. This session will discuss appropriate functional outcome measures that can be used for older adults with multiple chronic conditions and how to use data generated to develop a comprehensive evidence-based exercise program.

Intermediate

THE WORLD HEALTH ORGANIZATION (WHO) WHEELCHAIR SERVICE TRAINING PROGRAM: OPTIMIZING FUNCTION FOR PEOPLE WITH MOBILITY IMPAIRMENTS, PART 1
11:00 am–1:00 pm M Grand Ballroom 4 GR-2B-8418
Speakers: Barbara Crane, PT, PhD, ATP/SMS, Jean Anne Zollars, PT, DPT, MA, Laura Cohen, PT, PhD, ATP/SMS
The World Health Organization's (WHO) Wheelchair Service Training Package is intended to support the training of personnel fulfilling the clinical and technical roles in a wheelchair service at basic and intermediate levels. This session will provide the knowledge and skills for wheelchair prescription for basic and advanced wheelchair users based on the WHO wheelchair training package. The concepts and skills detailed in these materials will be presented to ensure that all participants are ready to synthesize and apply information.

Multiple Level

ACADEMIC/CLINICAL PARTNERSHIPS TO TEACH EFFECTIVE MANAGEMENT OF PATIENTS WITH DEMENTIA
11:00 am–1:00 pm W Capitol III ED-2B-0047
Joint Program: See Education for more details

BEING PRESENT WITH SUFFERING, LOSS, OR DYING: A CONTEMPLATIVE CARE PRACTICE AND PALLIATIVE CARE SIG MEETING
11:00 am–1:00 pm ICC 234 ON-2B-3983
Joint Program: See Oncology for more details

GeriATHLETICS: PTs AS THE RESOURCE FOR AGING ATHLETES
3:00 pm–5:00 pm ICC 241 GR-2C-5735
Joint Program: Sports
Speakers: Mike Studer, PT, Mark Richards, PT, MSPT, CEEAA, Karen Kemmis, PT, DPT, MS, GCS, CDE, CEEAA, Peter C. Barusic, PT, GCS, CEEAA
Be prepared to be challenged. This session will debunk some of the myths of aging and sport performance through evidence-based recommendations. The content was developed by some of the most well-recognized, published, and sought-after clinicians and researchers in the field of geriatric exercise. See and hear how to test, train, and develop your local geriATHLETes.

Intermediate
**Health Promotion and Wellness SIG—Arthritis: Exercise and Behavior Change**

**3:00 pm–5:00 pm  ICC 243  HR-2C-7905**

**Joint Program:** Health Policy

**Speakers:** Lori Schrodt, PT, PhD, MS; Julie Keysor, PT, PhD; Mary Alt peter, PhD, MSW, MPA

One out of every 5 adults in the US has arthritis, making arthritis a common condition among physical therapy patients and clients. Whether arthritis is a primary or secondary diagnosis, physical therapy professionals need to be aware of evidence-based exercise interventions and successful long-term management strategies. Self-management and physical activity are critical for management of arthritis but can be challenging to implement in the clinical setting. Participants will leave this session with a skill set to implement evidence-based clinical interventions and augment physical therapy using evidence-based programs to achieve optimal outcomes.

Intermediate

**Hand Rehabilitation**

**A Review of the PIP Joint**

**8:00 am–10:00 am  ICC 203  HR-2A-5844**

**Speaker:** Emily Altman, PT, DPT, CHT, OCS

A functioning proximal interphalangeal (PIP) joint is critical for hand function. Injury to the PIP joint can be difficult to repair, and restoring function can be challenging for physical therapists. Solid knowledge of the anatomy and biomechanics of the PIP joint and its neighboring joints is helpful for the effective progression of patients through the PIP joint rehabilitation process. This session will cover digit anatomy and biomechanics in detail. From there, the following PIP joint pathologies and management strategies will be reviewed: PIP joint fractures and fracture dislocations, volar plate injuries, collateral ligament injuries, central slip avulsions, swan neck deformities, surgical fixation techniques, PIP joint arthroplasties, dynamic external fixation devices, and hemi-hamate autografts.

Intermediate

**A Clinical Reasoning Approach to Management of TFCC Dysfunction**

**11:00 am–1:00 pm  ICC 203  HR-2B-2565**

**Speaker:** Brenda Boucher, PT, PhD, CHT, OCS, FAAOMPT

Ulnar-sided wrist pain is common among patients presenting to physical therapy with wrist complaints. Triangular fibrocartilage complex (TFCC) dysfunction is often implicated in chronic overuse conditions of the wrist. Faulty alignment and impaired movement patterns can lead to undesirable changes in the structure and function of the TFCC, resulting in pain and loss of stability. This hands-on session explores the relationship between medial column anterior glide syndrome and TFCC dysfunction. Clinical reasoning combined with best evidence will be used to describe the anamnesis of patients with TFCC dysfunction associated with impaired movement patterns. Lecture and lab activities will focus on components of examination, intervention, and home exercise programs.

Basic

**Management of Fractures of the Elbow and Wrist**

**3:00 pm–5:00 pm  ICC 203  HR-2C-1799**

**Speakers:** Jane Fedorczyk, PT, PhD, CHT, ATC; Nancy Cannon, OTR, CHT; Jeffrey Greenberg, MD

Fractures of the elbow and wrist associated with low-energy falls are prevalent in clinical practice. This session will focus on the therapeutic management of elbow and wrist fractures including surgical and nonsurgical management along with rehabilitation programs coordinated with fracture healing. Recommendations for comprehensive client management of impairments associated with elbow and wrist fractures will be discussed.

Multiple Level

**Health Policy and Administration**

**Early Intervention Models: Successfully Transform Your Practice**

**8:00 am–10:00 am  W Grand 3  HP-2A-9253**

**Speakers:** Michael D. Ross, PT, DHSc, OCS, William G. Boissonnault, PT, DPT, DHSc, FAAOMPT, FAPTA; Ryan L. Elliott, PT, OCS, Jeremy A. Jackson, PT, OCS, FAAOMPT

A growing body of literature has shown that early physical therapy intervention can bring value to a patient care by improving outcomes and reducing downstream medical costs. Some examples of early-intervention models include direct access and physical therapists serving in on-call capacities, in emergency departments, and primary care settings. This session will provide physical therapists with a thorough understanding of early intervention models that can be used to immediately transform their practice. This discussion will also show evidence from early intervention models in settings such as the US military, Kaiser Permanente, and the University of Wisconsin Hospital and Clinics.

Intermediate

**Trauma-Informed Physical Therapy for Survivors of Torture**

**8:00 am–10:00 am  W Grand 5  HP-2A-8827**

**Speakers:** Deborah A. O’Rourke, PhD; Justine Dee, MS; Karen Fondacaro, PhD

The US has resettled more than 2 million refugees since 1990, and many of these new Americans were victims of torture before fleeing their countries of origin. Survivors of torture and trauma often present with complex physical, mental, and social needs requiring multidisciplinary expertise and collaborative services to promote health and well being. Physical therapists need to understand the consequences of torture and trauma on health and functioning. They also need to have the knowledge and skills to examine, evaluate, and treat survivors. This session will describe the Trauma-Informed Physical Therapy Services (TIPS) model for survivors of torture and trauma. This culturally sensitive approach will be discussed and illustrated in case vignettes. Interprofessional educational activities to prepare physical therapy students to meet the needs of this underserved population will also be described.

Multiple Level
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EMERGING ISSUES IN MEDICARE AND HEALTH CARE REFORM, PART 1
8:00 am–10:00 am  W Grand 4  HP-2A-4211
 Speakers: Gayle Lee, JD, Roshunda Drummond-Dye, JD, Heather Smith, PT, MPH
Medicare laws, rules, and policies are constantly changing and vary depending on the settings in which PTs and PTAs practice. This session will present the latest developments related to fee schedule payments, the therapy cap, quality initiatives, prospective payment systems, program integrity, innovative payment models, implementation of health care reform provisions, and much more. The information provided during this session will be valuable as participants adapt their own practices to ensure compliance with the changing regulations and laws.
Intermediate

FALLS PREVENTION: OTAGO PROGRAM AND BEHAVIOR CHANGE
11:00 am–1:00 pm  ICC 243  HP-2B-7151
 Speakers: Tiffany Shubert, PhD, Mary Altpeter, PhD
The Otago Exercise Online Training Program for the physical therapist was designed as a first step to standardize practice for better outcomes. This session will present the impact of a freestanding, online training program on changing and standardizing aspects of physical therapist practice in the US. Key challenges and facilitators will be discussed, including client engagement and ownership to facilitate a high degree of self-management. The session will transition to an overview of behavior change models led by an international expert in health promotion for older adults. Models will also be presented to facilitate the integration of evidence-based health promotion theories into practice to engage patients fully in the rehabilitation process.
Basic

OBESITY, BARIATRIC SURGERY, AND LIFESTYLE CHANGE: AN INSIDER’S VIEW
11:00 am–1:00 pm  M Grand Ballroom 6  HP-2B-4126
 Speaker: Kristinn I. Heinrichs, PT, PhD, SCS, ATC
Obesity, metabolic syndrome, and the associated diseases are the greatest public health threat of the 21st century. Bariatric surgery has emerged in the media as an easy cure for the morbidly obese, having gained popularity among celebrity personalities, yet it is not the complete answer. Physical, nutritional, and psychological preparation and follow-up are key to the success of the procedure. This session will provide an insider’s view on the transformation that occurs following the Roux-en-Y procedure from the dual perspective of a clinician who approached the problem from an evidence-based foundation and from a patient who successfully underwent the procedure.
Multiple Level

BUILDING FUTURE PRACTICE THROUGH LEADERSHIP DEVELOPMENT: WHY ME, WHY NOW?
11:00 am–1:00 pm  W Grand 3  ED-2B-0003
Joint Program: See Education for more details

CHIEF, SECTION, AND ASSEMBLY DELEGATES MEETING
3:00 pm–5:00 pm  W Grand 1  HP-2C-6140
 Speakers: Stuart Platt, PT, MSPT, Laurita Hack, PT, DPT, PhD, MBA, FAPTA, Susan Griffin, PT, DPT, MS, GCS, RP
This session is designed to improve the governance of the association.
Multiple Level

WHO SAYS YOU HAVE TO BE COMPETENT TO PRACTICE ETHICALLY?
3:00 pm–5:00 pm  W Grand 4  HP-2C-2308
Speaker: Nancy R. Kirsch, PT, DPT, PhD
Physical therapists have a large scope of practice, but it is up to each one to determine if he or she has the competence to manage the plan of care for a particular patient within a personal scope of practice. This interactive, case-based session, using audience response technology, will focus on the manager’s role to help staff organize a professional development plan that addresses their clinical competence and ensures ethical care. It will also focus on the individual responsibility of each clinician to do reflective self-assessment.
Intermediate

VIEWING DISABILITY AS DIVERSITY WHEN PROVIDING PHYSICAL THERAPY
3:00 pm–5:00 pm  W Grand 3  HP-2C-0560
 Speakers: Susan E. Roush, PT, PhD, Nancy Sharby, PT, DPT, Susan Magasi, OT, PhD, Marilyn Moffat, PT, DPT, PhD, DSc, GCS, CSCS, CEEAA, FAPTA
Many people consider physical therapists to be heroes to persons with disabilities. Many people with disabilities, however, do not find physical therapists particularly helpful in living their lives, sometimes feeling that professionals are paternalistic and unaware of important obstacles to participation in important life activities. If physical therapists are going to become allies for persons with disabilities, a broader understanding of the disability experience is needed. This session will ask participants to consider what it means to be truly client-centered and collaborative with goal setting, treatment planning, and discharge recommendations. It will also ask participants to consider reframing practice from a deficit-based focus to a strengths-based approach that embraces the International Classification of Functioning, Disability and Health (ICF) biopsychosocial model of disability while acknowledging the need for clinical services throughout the lifespan. A broader understanding of disability issues will also be discussed in a current World Congress of Physical Therapy (WCPT) research study looking at the experiences of physical therapists with disabilities.
Multiple Level
EMERGING ISSUES IN MEDICARE AND HEALTH CARE REFORM, PART 2
3:00 pm–5:00 pm  W Grand 5  HP-2C-4223
Speakers: Gayle Lee, JD, Heather Smith, PT, MPH, Roshunda Drummond-Dye, JD
The health care system is dramatically changing with implementation of comprehensive health care reform legislation, quality initiatives, and numerous changes in statutes, rules, and policies. These changes create many opportunities and challenges for physical therapists. This session will include a discussion on some of the latest developments on quality, health care reform, and much more.
Intermediate

HEALTH PROMOTION AND WELLNESS SIG—ARTHRITIS: EXERCISE AND BEHAVIOR CHANGE
3:00 pm–5:00 pm  ICC 243  GR-2C-7905
Joint Program: See Geriatrics for more details

GOOGLE GLASS IN PHYSICAL THERAPY EDUCATION AND CLINICAL PRACTICE
3:00 pm–5:00 pm  W Capitol I  ED-2C-9122
Joint Program: See Education for more details

HOME HEALTH

COPD: HELPING PATIENTS BREATHE BETTER AT HOME SO THEY CAN STAY AT HOME
8:00 am–10:00 am  ICC 239  HH-2A-9529
Speaker: Nikki Krueger, PT, MPT, COS-C
Exacerbation of COPD is one of the top 5 reasons for rehospitalization nationally, but if managed well, and from an interdisciplinary approach, many of these patients could remain in their homes. This session will take clinicians from examination to intervention, starting with thinking about standardized scales (ACSM dyspnea scale and the VRI) as another vital sign to assess. This session will also cover how to use assessment findings to formulate a POC and talk about effective interventions such as pursed-lip breathing, facilitation, and inhibition of the upper chest or diaphragm, segmental breathing, and cough facilitation. Another important aspect of therapy interventions covered during this session is recognizing the basic purposes of medications, how to time medication around therapy sessions, and how to help patients use their medications appropriately to facilitate functional activity when appropriate.
Intermediate

OVERCOMING INERTIA IN THE HOMEBOUND ELDERLY: AN EVIDENCE-BASED PROGRAM
8:00 am–10:00 am  ICC 237  HH-2A-8828
Speakers: James K. Eng, PT, DPT, MS, GCS, Melissa Bednarek, PT, DPT, PhD, Jason Woollard, PT, MPT, PhD Homebound individuals frequently present with low levels of physical activity. A common challenge facing physical therapists is engaging these patients in meaningful therapeutic activities with effective dosing. This session will outline a systematic and practical plan that includes considerations for patient cognitive deficits, evidence-based assessment, and intervention strategies to address impairments of strength, power, endurance, and balance. The session will continue with functional activities that challenge the patient based on motor learning principles and also address issues of patient adherence using the International Classification of Functioning, Disability and Health (ICF) framework.
Intermediate

BEST PRACTICES IN THE CLINICAL MANAGEMENT OF HOME CARE PATIENTS WITH HEART FAILURE
11:00 am–1:00 pm  ICC 239  HH-2B-9151
Speakers: Konrad J. Dias, PT, DPT, Jeffrey C. Child, PT, MPT
This session presents key considerations for the physical therapist in effectively managing patients with heart failure. It will also accentuate various examination strategies, organized clinical decision making, and effective treatment techniques to improve patient outcomes through increased activity and participation. Participants will identify meaningful evidenced-based outcome measures and appropriate service delivery models in an effort to reduce readmissions and improve exercise capacity. Skilled documentation strategies will be demystified to ensure clinicians’ documentation justifies the care provided. Participants will be guided through an evaluation process and challenged to synthesize data from the examination in creating effective treatment interventions.
Intermediate

DO OUR PATIENTS SEE THE FLOOR? FLOOR RECOVERY IN OLDER ADULTS: EVIDENCE-BASED PERSPECTIVES
11:00 am–1:00 pm  ICC 237  HH-2B-8787
Speaker: Dennis Klima, PT, PhD
This session will cover a unique perspective in falls management—floor recovery. It will provide a comprehensive overview of older adults’ ability to rise from the floor, with both examination and intervention considerations. Timed supine-to-stand tests will be demonstrated, along with relevant correlates and procedures to optimize safety. Historical perspectives will also be addressed, including primary motor patterns utilized to rise to stand among older adults. Current paramedic–physical therapy partnership programs will also be discussed and target falls prevention and management initiatives. Finally, therapeutic strategies that facilitate the acquisition of the motor task and present current home and community-based falls prevention initiatives will also be examined.
Intermediate
BEING PRESENT WITH SUFFERING, LOSS, OR DYING: A CONTEMPLATIVE CARE PRACTICE AND PALLIATIVE CARE SIG MEETING
11:00 am–1:00 pm  ICC 234  ON-2B-3983
Joint Program: See Oncology for more details

NEUROLOGY

NCS BREAKFAST AND PRESENTATION:
OPPORTUNITIES AND CHALLENGES IN CLINICAL EDUCATION ACROSS NEUROLOGIC PRACTICE SETTINGS
6:45 am–8:00 am  M 201  NE-2D-2942
Speakers: Ann Williamson, PT, DPT, NCS, Joanna Marie M. Jimenez, PT, DPT, NCS, CKTP, Jovencio C. Jimenez, PT, DPT, CCCE
New and current Neurologic Clinical Specialists (NCSs) are invited to a networking breakfast with others who share a passion for neurologic clinical practice. The breakfast will be followed by a presentation addressing clinical education and the role of the NCS in this area. The presenters will share their experience and perspective on clinical education in different neurologic practice settings and will discuss how the expertise of the NCS might be used to augment student clinical experiences and address clinical education challenges. Note: An RSVP is required for this event.

FALLS IN PARKINSON DISEASE: CAUSES, PREDICTION, AND PREVENTION
8:00 am–10:00 am  M Grand Ballroom 5  NE-2A-7964
Speakers: Ryan Duncan, PT, DPT, Fay B. Horak, PT, PhD, Gammon Earhart, PT, PhD
Many people with Parkinson disease (PD) experience falls. Falls can lead to devastating consequences such as hip fractures, immobility, and reduced quality of life. Physical therapists (PTs) are uniquely positioned not only to assess and treat balance deficits in those with PD, but also to determine whether or not individuals are at risk for future falls. In this session, presenters will discuss standardized outcome measures such as the Berg Balance Scale (BBS) or the Balance Evaluation Systems Test (BESTest) that PTs can use to assess falls risk in individuals with PD. They will also discuss commonly used exercise and movement strategy training to improve balance and mobility in those patients with PD and describe the current evidence about reducing falls in people with PD.

WALKING THE WALK: TRANSLATION OF SCIENTIFIC FINDINGS TO IMPROVE LOCOMOTOR RECOVERY POST STROKE
8:00 am–10:00 am  M Grand Ballroom 2  NE-2A-9387
Speakers: T. George Hornby, PT, PhD, Carey Holleran, PT, MPT, NCS, Abigail Leddy, PT, DPT, MSCI, Jennifer L. Moore, PT, DHS, NCS
This session will present evidence regarding the importance of specific parameters of locomotor interventions applied to patients with neurological injury and translate these findings into the treatment of patients with subacute stroke during inpatient rehabilitation. This session will also address emerging research regarding specific conditions of stepping practice, with focus on how the amount, intensity, and variability of locomotor practice can influence walking recovery in patients with subacute or chronic stroke. Data from quasi-experimental and more controlled studies will be presented. A major focus of the presentation will be on the implementation of such training strategies into a subacute inpatient setting. Data will be presented regarding the feasibility of providing such training, and the resultant outcomes. Specific strategies and potential techniques to facilitate translation at other clinics will be presented.

GETTING PUBLISHED IN JNPT: A CHAT WITH THE EDITORIAL BOARD
8:00 am–10:00 am  M 102  NE-2A-2921
Speaker: Edelle C. Field-Fote, PT, PhD, FAPTA
The Journal of Neurologic Physical Therapy (JNPT) is your Neurology Section journal. Do you have ideas to enhance the usefulness of the journal’s print or digital content? Have you thought about submitting an article, but were uncertain about what it entails? Do you have questions about becoming a reviewer? This informal discussion session will provide information about becoming involved with JNPT either as a contributor or reviewer. The editor-in-chief, associate editors, and editorial board members look forward to chatting with you.

SPINAL CORD INJURY SIG: PROBLEM SOLVING COMPLEX SEATING AND MOBILITY TECHNOLOGY NEEDS FOR INDIVIDUALS WITH SPINAL CORD INJURY
8:00 am–10:00 am  M Grand Ballroom 4  NE-2A-7319
Speakers: Twala H. Maresh, PT, DPT, NCS, ATP, Allison Fracchia, PT, ATP/SMs, Cindy Smith, PT, DPT, ATP
This session will discuss considerations, tradeoffs, and the decision-making process regarding complex seating and mobility, home and environmental modifications, and transportation considerations. Case studies will be presented and time will be allotted for audience participation and discussion of case examples.
CALLED TO CARE: INTEGRATION OF POSITIVE PSYCHOLOGY
8:00 am–10:00 am  ICC 205  PP-2A-8492
Joint Program: See Private Practice for more details

A SKILLED PHYSICAL THERAPIST APPROACH TO ALZHEIMER DISEASE
11:00 am–1:00 pm  M White River Ballroom C  NE-2B-9289
Joint Program: Geriatrics
Speakers: Jennifer M. Nash, PT, DPT, NCS, Christine M. Ross, PT, DPT, GCS, Meleah J. Murphy, PT, DPT
Five million Americans are living with Alzheimer disease, the sixth leading cause of death in the United States. Evidence suggests that exercise has neuroprotective benefits, aiding in delaying cognitive decline while improving activities of daily living and combating challenging behavior, depression, and mortality. Physical therapists are uniquely qualified to provide falls risk assessment, exercise prescriptions, functional training, and advocacy efforts for this growing population. This session will present the diagnostic criteria and phases of Alzheimer disease, provide physical therapy functional and subjective outcome measures, and provide a treatment approach detailing the clinical relevance and value added through skilled physical therapy intervention. New research perspectives for outcome measures as well as exercise and educational interventions will also be presented.

Multiple Level

ON THE EDGE OF POSSIBILITIES: A PROCESS TO IDENTIFY OUTCOME MEASURES FOR NEUROLOGIC PHYSICAL THERAPY PRACTICE
11:00 am–1:00 pm  M Grand Ballroom 2  NE-2B-8290
Speakers: Jennifer L. Moore, PT, DHS, NCS, Sandra L. Kaplan, PT, DPT, PhD, Kirsten Potter, PT, DPT, MS, NCS, Jane E. Sullivan, PT, DHS, MS
Over the past 5 years, the Neurology Section has convened 6 task forces to recommend outcome measures for patients with neurological conditions. These groups used the Evaluation Database to Guide Effectiveness (EDGE) form to summarize psychometric and clinical utility data and provide recommendations for outcome measures for patients with stroke, multiple sclerosis, spinal cord injury, traumatic brain injury, Parkinson disease, and vestibular dysfunction. This session will review the processes and recommendations of the EDGE task forces, define the types of evidence-based practice documents, explore the benefits of a core set of outcome measures, explain the goals and processes of a clinical practice guideline to develop an outcome measures core set, relate this effort to the Neurology Section strategic plan, and discuss implementation of standardized outcome measures in practice.

Multiple Level

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Helping kids lead healthier, happier lives®
INNOVATIVE TECHNOLOGIES IN REHABILITATION
11:00 am–1:00 pm  M Grand Ballroom 5  NE-2B-9954
Speakers: Carolee Winstein, PT, PhD, FAPTA, Philip Requejo, PhD

As nanotechnology, robotics, and brain scanning evolve and enter the R&D track and the marketplace, physical therapists are in the position to take the lead in working with engineers on technologies to enable rehabilitation, prevent decline, and promote health and wellness. Remarkable breakthroughs have occurred in rehabilitation robotics, brain-computer interface, virtual reality-based therapies, wearable sensors and monitors, and all forms of interactive media applications for rehabilitation. Join authors from the Physical Therapy special issue on innovative technologies to find out what’s in your patient’s future—and yours! This session will explore a variety of topics from virtual reality in upper limb rehabilitation to social media to engage patients in mobile technologies.

Multiple Level

PUTTING IT ALL TOGETHER: APPLICATION OF THE WHO WHEELCHAIR TRAINING PROGRAM FOR INDIVIDUALS WITH NEUROLOGIC AND COMPLEX MEDICAL IMPAIRMENTS, PART 2
3:00 pm–5:00 pm  M Grand Ballroom 4  NE-2C-6581
Speakers: Judy Freyermuth, PT, Leta Kant, PT, ATP, Barbara Crane, PT, PhD, ATP/SMS

The treatment of adult and aging individuals referred to therapy for wheelchair positioning is more than the assessment of the current seating system and the provision of new or additional equipment. This session will explore commonly seen postural deviations, related impairments, mobility, and functional deficits. The discussion will include a review of the evaluation, including the hands-on mat assessment and simulation. Information from the World Health Organization’s (WHO) Wheelchair Training Program will be included. Audience participation in case study discussion will facilitate critical analysis, problem solving, and identifying solutions for wheelchair seating and mobility needs. Participants will see and hear how to synthesize the results of the evaluation, match patients and their environments to seated and wheeled mobility equipment features, and identify functional goals, features for the development of a comprehensive treatment plan, and follow-up for wheelchair skills training.

Intermediate

GETTING TO THE HEART OF STROKE REHAB AND MOBILITY: CONSIDERING CARDIO
3:00 pm–5:00 pm  M Grand Ballroom 5  NE-2C-8280
Speakers: Kari Dunning, PT, PhD, Marilyn MacKay-Lyons, PT, PhD, Sandra Billinger, PT, PhD, Pierce Boyne, PT, DPT, NCS

Cardiovascular conditioning has multiple benefits for persons with stroke. Clinical guidelines recommend that cardiovascular fitness training be a part of routine neurorehabilitation and long-term management. Are we doing our best by patients with stroke? This session will present the evidence for poststroke aerobic exercise and procedures for exercise screening, testing, and prescription. The role of high-intensity programs, including the client’s perspective, will be discussed. Health care delivery models that facilitate exercise across the care continuum will also be presented. Testing and treatment ideas will be presented with an emphasis on clinical feasibility across stroke acuity and severity. Throughout the session, the latest evidence and clinical guidelines will be highlighted.

Intermediate

GOOGLE GLASS IN PHYSICAL THERAPY EDUCATION AND CLINICAL PRACTICE
3:00 pm–5:00 pm  W Capitol I  ED-2C-9122
Joint Program: See Education for more details

ONCOLOGY
ONCOLOGY BREAST CANCER EDGE: CLINICAL MEASURES OF FUNCTIONAL MOBILITY, BALANCE, AND PERIPHERAL NEUROPATHY
8:00 am–10:00 am  ICC 232  ON-2A-9932
Speakers: Mary I. Fisher, PT, PhD, OCS, CLT, Min H. Huang, PT, PhD, NCS, Elizabeth S. Hile, PT, PhD, NCS

As an outgrowth of the EDGE (Evaluation Database to Guide Effectiveness) Task Force, the Oncology Section formed a task force to examine and categorize the utility of available clinical tests and measures to identify possible deficits or assess changes in body structure, activities, and participation in individuals treated for breast cancer. In this session, the evidence for outcomes of functional mobility, balance, and chemotherapy-induced peripheral neuropathy will be reported. Measurement characteristics including psychometric properties and limitations reported in the literature will be discussed. At the end of the session, participants will identify which outcomes in these domains are recommended as a routine part of a physical therapist examination for a patient treated for breast cancer.

Intermediate
PHYSICAL THERAPY MANAGEMENT OF SURVIVORS OF HODGKIN LYMPHOMA
8:00 am–10:00 am  ICC 209  ON-2A-9492
Speaker: Sebi Varghese, PT, DPT
Standard medical interventions for persons with Hodgkin lymphoma include radiation, chemotherapy, and surgery. Late effects of these treatments can impair the lymphatic, musculoskeletal, and neuromuscular systems. These impairments contribute to functional impairments including radiation fibrosis, head drop syndrome, inefficient movement patterns, and significant activity limitations requiring physical therapy. This session will provide an overview on how physical therapists can effectively evaluate and treat survivors of Hodgkin lymphoma. The speakers will discuss, from a traditional and holistic manual therapy approach, the optimization of spine and joint alignment, neuromuscular reeducation techniques, and the importance of assessing and treating cervical proprioception.

Basic

BEING PRESENT WITH SUFFERING, LOSS, OR DYING: A CONTEMPLATIVE CARE PRACTICE AND PALLIATIVE CARE SIG MEETING
11:00 am–1:00 pm  ICC 234  ON-2B-3983
Joint Program: Geriatrics, Home Health
Speaker: Richard W. Briggs, PT, MA
Physical therapists often work with seriously ill patients affected by trauma, aging, advanced disease, or terminal illness. While it is essential that we bring the highest level of clinical care to each person, we must also bring our humanity to this care. This session will explore the psychological, social, and spiritual concerns faced by those in our care. Participants will hear of ways to support and cope with the losses experienced and witnessed. Rather than be depleted by this work, participants will discover how to be fulfilled and become more whole. This interactive session will allow for personal reflection and small-group discussion.

Multiple Level

PROSTATE CANCER EDGE: CLINICAL MEASURES OF MUSCLE ENDURANCE, STRENGTH, FUNCTIONAL MOBILITY, AND QUALITY OF LIFE
11:00 am–1:00 pm  ICC 232  ON-2B-6339
Speakers: Lucinda A. Pflaizer, PT, PhD, FAPTA, Mary I. Fisher, PT, PhD, OCS, CLT, Claire C. Davies, PhD, Shana Harrington, PT, PhD, SCS, MTC
As an outgrowth of the EDGE (Evaluation Database to Guide Effectiveness) Task Force, the Oncology Section formed a task force to examine and categorize the utility of available clinical tests and measures to identify possible deficits or assess changes in body structure, activities, or participation in individuals treated for prostate cancer. This session will discuss the evidence describing outcome measures useful in assessing strength, muscle endurance, functional mobility, and quality of life. Measurement characteristics including psychometric properties and limitations as reported in the literature will be discussed. At the end of the session, participants will identify which outcomes in these domains are recommended as a routine part of an examination for a survivor of prostate cancer.

Intermediate

ORTHOPAEDICS

GETTING PATIENTS INTO CARDIAC REHAB AND OTHER WELLNESS PROGRAMS AND KEEPING THEM EXERCISING AFTER REHAB
11:00 am–1:00 pm  ICC 209  CP-2B-2212
Joint Program: See Cardiovascular and Pulmonary for more details

WOMEN LEADING IN PT: DOES OUR PROFESSION WELCOME US WHEN WE “LEAN IN”?
11:00 am–1:00 pm  M White River Ballroom E  WH-2B-9912
Joint Program: See Women’s Health for more details

OSTEONECROSIS AND ORTHOPEDIC LATE EFFECTS IN PEDIATRIC CANCER
3:00 pm–5:00 pm  ICC 232  ON-2C-6029
Speakers: Brian DeFeo, PT, DPT, Terry Wilson, PT, MSPT
This session will present various orthopedic impairments encountered across the continuum of care in a variety of pediatric cancer diagnoses. Topics to be discussed include osteonecrosis and orthopedic late effects such as osteopenia and fibrosis. Physical therapists in many areas of practice will encounter a client with a history of pediatric cancer, and these orthopedic impairments must be considered during assessment and intervention. This session will also describe musculoskeletal late effects among childhood cancer survivors. It will also discuss the state of the evidence for physical therapy and pharmaceutical interventions designed to remediate these musculoskeletal impairments. The diagnosis of osteonecrosis will be extensively described to begin the session, followed by an overview of other skeletal late effects that occur in survivors of pediatric cancer.

Multiple Level

Session handouts are available at www.apta.org/CSM. Use code CSM2015.
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Next Stop...

APTA-CSM 2015
Intra-articular, prearthritic hip disease (PAHD) is a major cause of hip dysfunction in young adults, and without proper management it may progress to hip osteoarthritis (OA). Effective treatment of PAHD is needed to improve function in the young adult and prevent or delay the onset of hip OA. This session will report the findings of a treatment trial assessing the effectiveness of exercise and movement pattern training in people with PAHD. In addition to reporting treatment outcomes, presenters will report associations found among treatment outcomes and proposed biomechanical factors including movement patterns as measured through motion analysis, muscle strength, and the presence of bony abnormalities. Finally, they will describe rehabilitation methods using concepts proposed to reduce forces on the hip joint, present examples of motor pattern training, and discuss implications for functional testing and return to sport after injury.

**Intermediate**

**INTRA-ARTICULAR, PREARTHRTIC HIP DISEASE: EFFECTIVENESS OF MOVEMENT PATTERN TRAINING**

8:00 am–10:00 am ICC 500 Ballroom OR-2A-8915

**Speakers:** Marcie Harris-Hayes, PT, DPT, MSc, OCS, Sylvia Czuppon, PT, DPT, OCS

Heel pain is one of the most common foot and ankle conditions managed by physical therapists. This session, sponsored by the Orthopaedic Section Foot and Ankle Special-Interest Group, will provide attendees with the leading edge information regarding optimal evaluation and treatment strategies for the management of individuals with heel pain. A current best practice model as outlined in the heel pain clinical practice guidelines revision currently being developed by the Foot and Ankle Work Group will provide the framework for this session. The presenters will highlight current controversies in practice and research. The Foot and Ankle Special Interest Group business meeting will follow.

**Intermediate**

**SPORTS MEDICINE SECRETS FOR THE ADVANCED ORTHOPAEDIC CLINICIAN**

11:00 am–1:00 pm ICC 500 Ballroom OR-2B-8025

**Speakers:** Stephanie Bell, PT, MPT, OCS, CSCS, Leigh Weiss, PT, DPT, ATC, Michael Wong, PT, DPT, OCS, FAAOMPT, Christine McDonough, PT, PhD, MS, Todd Davenport, PT, DPT, OCS

The theme of this session is to present progressive clinical reasoning skills utilized in professional and collegiate sports rehabilitation, rooted in evidence-based practice when dealing with the typical orthopedic patient for the more advanced clinician. With the use of well-reasoned manual techniques and movement analysis, participants will augment their repertoire of clinical skills/tools in their orthopedic toolbox. It is becoming more evident in the literature that problems in the spinal region can influence the outcome of managing orthopedic conditions of the extremity and vice-versa. However, these techniques and approaches have not been widely presented as a combined manual therapy and movement science methodology to providing patient-centered care. It is a common pitfall for advanced clinicians that the interplay between spinal regions and related extremity symptom contribution is often missed leading to ineffective interventions. Therefore, this course aims to provide the missing link in how to correctly identify contributions from these regions. Using manual, movement and sports therapy examination approaches, the presenters will demonstrate how specific interventions are targeted to the cause and source of spine/extremity problems thereby achieving desired outcomes. Case examples will be presented by physical therapists to help attendees better integrate how the authors successfully applied these concepts into their own orthopedic clinical practice environment.

**Multiple Level**

**BEST PRACTICE IN PHYSICAL THERAPY: EVALUATION AND MANAGEMENT OF PLANTAR HEEL PAIN**

11:00 am–1:00 pm ICC 107 OR-2B-8258

**Speakers:** RobRoy L. Martin, PT, PhD, J. W. Matheson, PT, DPT, MS, SCS, OCS, CSCS, Christine McDonough, PT, PhD, MS, Todd Davenport, PT, DPT, OCS

Heel pain is one of the most common foot and ankle conditions managed by physical therapists. This session, sponsored by the Orthopaedic Section Foot and Ankle Special-Interest Group, will provide attendees with the leading edge information regarding optimal evaluation and treatment strategies for the management of individuals with heel pain. A current best practice model as outlined in the heel pain clinical practice guidelines revision currently being developed by the Foot and Ankle Work Group will provide the framework for this session. The presenters will highlight current controversies in practice and research. The Foot and Ankle Special Interest Group business meeting will follow.

**Intermediate**

**REHABILITATION: DOES PHYSICAL THERAPY WORK?**

8:00 am–10:00 am ICC 107 OR-2A-9188

**Speakers:** Reuben Escorpizo, PT, DPT, MSc, Deirdre Daley, PT, DPT, MSHPE

Work disability is associated with increased medical care and productivity loss. Individuals with work disability may be referred to work rehabilitation and physical therapists (PTs) may be the primary provider of choice. This session will present and evaluate the role of PTs in work rehabilitation in terms of assessment and intervention. The session will also present evidence from different stakeholders such as employers, insurers, physicians, and other health professionals that are known to impact work disability along with the effort to develop physical therapy clinical practice guidelines for work rehabilitation. A case example of low back pain will be used as a proof-of-concept to demonstrate the role of physical therapists in work disability.

**Multiple Level**

**WORK REHABILITATION: DOES PHYSICAL THERAPY WORK?**

8:00 am–10:00 am ICC 500 Ballroom OR-2A-9188

**Speakers:** Marcie Harris-Hayes, PT, DPT, MSCI, OCS, Sylvia Czuppon, PT, DPT, OCS

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**Multiple Level**

**BEST PRACTICE IN PHYSICAL THERAPY: EVALUATION AND MANAGEMENT OF PLANTAR HEEL PAIN**

11:00 am–1:00 pm ICC 107 OR-2B-8258

**Speakers:** RobRoy L. Martin, PT, PhD, J. W. Matheson, PT, DPT, MS, SCS, OCS, CSCS, Christine McDonough, PT, PhD, MS, Todd Davenport, PT, DPT, OCS

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**Intermediate**

**SPORTS MEDICINE SECRETS FOR THE ADVANCED ORTHOPAEDIC CLINICIAN**

11:00 am–1:00 pm ICC 500 Ballroom OR-2B-8025

**Speakers:** Stephanie Bell, PT, MPT, OCS, CSCS, Leigh Weiss, PT, DPT, ATC, Michael Wong, PT, DPT, OCS, FAAOMPT, Christine McDonough, PT, PhD, MS, Todd Davenport, PT, DPT, OCS

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**Multiple Level**

**REHABILITATION: DOES PHYSICAL THERAPY WORK?**

8:00 am–10:00 am ICC 107 OR-2A-9188

**Speakers:** Reuben Escorpizo, PT, DPT, MSc, Deirdre Daley, PT, DPT, MSHPE

Work disability is associated with increased medical care and productivity loss. Individuals with work disability may be referred to work rehabilitation and physical therapists (PTs) may be the primary provider of choice. This session will present and evaluate the role of PTs in work rehabilitation in terms of assessment and intervention. The session will also present evidence from different stakeholders such as employers, insurers, physicians, and other health professionals that are known to impact work disability along with the effort to develop physical therapy clinical practice guidelines for work rehabilitation. A case example of low back pain will be used as a proof-of-concept to demonstrate the role of physical therapists in work disability.

**Multiple Level**

**WORK REHABILITATION: DOES PHYSICAL THERAPY WORK?**

8:00 am–10:00 am ICC 107 OR-2A-9188

**Speakers:** Marcie Harris-Hayes, PT, DPT, MSCI, OCS, Sylvia Czuppon, PT, DPT, OCS

Work disability is associated with increased medical care and productivity loss. Individuals with work disability may be referred to work rehabilitation and physical therapists (PTs) may be the primary provider of choice. This session will present and evaluate the role of PTs in work rehabilitation in terms of assessment and intervention. The session will also present evidence from different stakeholders such as employers, insurers, physicians, and other health professionals that are known to impact work disability along with the effort to develop physical therapy clinical practice guidelines for work rehabilitation. A case example of low back pain will be used as a proof-of-concept to demonstrate the role of physical therapists in work disability.

**Multiple Level**

**INTRA-ARTICULAR, PREARTHRTIC HIP DISEASE: EFFECTIVENESS OF MOVEMENT PATTERN TRAINING**

8:00 am–10:00 am ICC 500 Ballroom OR-2A-8915

**Speakers:** Marcie Harris-Hayes, PT, DPT, MSCI, OCS, Sylvia Czuppon, PT, DPT, OCS

Intra-articular, prearthritic hip disease (PAHD) is a major cause of hip dysfunction in young adults, and without proper management it may progress to hip osteoarthritis (OA). Effective treatment of PAHD is needed to improve function in the young adult and prevent or delay the onset of hip OA. This session will report the findings of a treatment trial assessing the effectiveness of exercise and movement pattern training in people with PAHD. In addition to reporting treatment outcomes, presenters will report associations found among treatment outcomes and proposed biomechanical factors including movement patterns as measured through motion analysis, muscle strength, and the presence of bony abnormalities. Finally, they will describe rehabilitation methods using concepts proposed to reduce forces on the hip joint, present examples of motor pattern training, and discuss implications for functional testing and return to sport after injury.

**Intermediate**
HOW SCIENCE CAN BE USED IN THE COURT ROOM: A CASE STUDY FOR WHIPLASH, PART 2

3:00 pm–5:00 pm ICC Wabash Ballroom 1 OR-2B-0376
Speakers: Matthew L. Daugherty, PT, DPT, MOT, OTR/L, OCS, MTC, FAAOMPT, Amanda Grant, PT, DPT, MTC, CLT, FAAOMPT

This session will discuss the clinical assessment of various impairments and how these findings contribute to clinical decisions about surgical intervention. Attendees will also discover how instrumented gait analysis may contribute to clinical decisions. Other considerations when planning for surgical intervention will be presented, including other body-system impairments, the child’s age and social factors. Common surgical interventions will be described and short case studies will be used to demonstrate surgical outcomes. Finally, consideration will be turned to postsurgical management and rehabilitation.

Intermediate

REFERENCE SOURCES OF WRIST PAIN

3:00 pm–5:00 pm ICC 107 OR-2C-9498
Speakers: James M. Elliott, PT, PhD, Sheila Nicholson, PT, DPT, JD, MBA, MA, Todd B. Parrish, PhD, D. Mark Courtney, MD, David Walton, PT, PhD

This session will further cultivate an interdisciplinary collaborative working environment for understanding the pathophysiology underlying the onset and maintenance of pain in the wrist. It will also include case examples.

Intermediate

UNCOMMON SOURCES OF WRIST PAIN

3:00 pm–5:00 pm ICC 107 OR-2C-9498
Speakers: Chad Cook, PT, PhD, Joshua Cleland, PT, PhD, Michael P. Reiman, PT, DPT, OCS, SCS

As a basic purpose, the lumbar spine surgery is intended to reduce pain, increase function, and improve quality of life. The US, lumbar spine surgery has increased dramatically, as has concurrent health care expenditures. What has not occurred is a corresponding trend toward improvements in outcomes of patients who have received spine surgery. This session will address these challenges by emphasizing the role of science in the clinical decision-making process and the importance of evidence-based practice in surgical decision making. Attendees will participate in clinically oriented surgical research and who have participated in clinically oriented surgical research and who have routinely referred patients for surgery or suggested otherwise.

Basic

ORTHOPEDIC SURGERY IN AMBULATORY CHILDREN WITH CEREBRAL PALSY

8:00 am–10:00 am M Grand Ballroom 6 PD-2A-6020
Speakers: Dora Gosselin, PT, DPT, PCS, C/NDT, Bettina M. Gyr, MD

A pediatric orthopedic surgeon and pediatric physical therapist will team up to describe the role of each discipline in the clinical decision making for ambulatory children with cerebral palsy. This session will discuss the common musculoskeletal and neuromuscular impairments in children with cerebral palsy, including congenital and acquired bony abnormalities as well as soft tissue contractures that lead to gait dysfunction. Attendees will review the clinical assessment of various impairments and how these findings contribute to clinical decisions about surgical intervention. Attendees will also discover how instrumented gait analysis may contribute to clinical decisions. Other considerations when planning for surgical intervention will be presented, including other body-system impairments, the child’s age and social factors. Common surgical interventions will be described and short case studies will be used to demonstrate surgical outcomes. Finally, consideration will be turned to postsurgical management and rehabilitation.

Intermediate

REASONING: MANAGING PRACTICE

8:00 am–10:00 am M Grand Ballroom 7 PD-2A-1901
Speakers: Deb Rose, PT, DPT, PCS, Gail Jensen, PT, PhD, FAPTA, Jennifer A. Furze, PT, DPT, PCS

Pediatric therapists across the continuum of care are often challenged to make complicated and difficult practice decisions for children and their families. How do we make these decisions with confidence and objectivity to ensure we consider all key factors for all stakeholders? This session presents practical, effective strategies for physical therapists to examine and enhance their clinical reasoning and decision-making skills around complex contexts of practice including transitions, dosing, episodes of care, and changes in strengths and needs of children and families. Strategies and resources will be provided to support participants in developing their own reflective communities of practice in their practice setting.

Intermediate
KNOWLEDGE TRANSLATION: PEDIATRIC VESTIBULAR-RELATED IMPAIRMENTS
11:00 am–1:00 pm M Grand Ballroom 7 PD-2B-8618
Speakers: Rose M. Rine, PT, PhD, Elizabeth Dannenbaum, PT, MSc, Joanne Szabo, PT, DPT, MHA, PCS
Until recently, the incidence and impact of vestibular system impairments in children has been grossly under-identified and thus not addressed. Researchers and clinicians are focusing on developing optimal evaluation and interventions to enhance functional mobility and minimizing the negative impact on reading, gross motor development, and postural control. This session will explore how clinicians and researchers can collaborate so that vestibular deficits and related impairments can be readily identified in children with central and peripheral vestibular involvement. The presenters will also discuss optimal interventions that can be identified and implemented so that children with varying diagnoses can benefit from this research. Possible barriers, challenges, and opportunities for facilitating collaboration and joint efforts of clinical and research practice will also be discussed.
Multiple Level

ASSOCIATION OF STUDENT OUTCOMES AND SCHOOL-BASED INTERVENTIONS
3:00 pm–5:00 pm M Grand Ballroom 7 PD-2C-2135
Speakers: Susan K. Effgen, PT, PhD, FAPTA, Lisa A. Chiarello, PT, PhD, PCS, FAPTA
This session will present the results of a national, multisite observational study, the Relationship of Student Outcomes to School-based Physical Therapy Services (PT COUNTS). The School Function Assessment (SFA) and Goal Attainment Scaling (GAS) were used as measures to describe the outcomes that 296 students achieved when receiving physical therapist interventions within schools over 6 months. Presenters will explain the relationship of the interventions provided by 111 physical therapists to the standardized and individualized outcomes. Specifically, the relationship of physical therapist service delivery models, activities, interventions, and dosage to changes in students’ participation in school. The importance of both “services to the student” and “services on behalf of the student” will be represented and a dialogue of open discussion encouraged. The discussion will include the importance of using evidence-based interventions and outcome measures to evaluate student and physical therapist performance.
Multiple Level

SECTION ON PEDIATRICS UPDATE ON GUIDELINE DEVELOPMENT AND IMPLEMENTATION
3:00 pm–5:00 pm M White River Ballroom G PD-2C-9097
Speaker: S. L. Kaplan
In concert with the Section on Pediatrics Strategic Plan, this session will update members about the status of clinical practice guideline development and implementation. Current projects, updates in methodology, and evidence of implementation will be reviewed. Participants will hear about the roles for volunteers and opportunities for training, as well as participate in discussions that may influence future topics and guideline development processes.
Multiple Level

PHARMACOLOGY INTERACTIONS COMMON IN THE SCHOOL-BASED SETTING
11:00 am–1:00 pm M Grand Ballroom 9 PD-2B-3708
Speakers: Robert Barnhart, PT, ScDPT, PCS, Peter C. Panus, PT, PhD
Your practice is affected by the drugs your patients take. The administration of these drugs may or may not be related to the physical therapy activities of the patient. These drugs have the potential to either enhance or impede your physical therapy activities. This session will discuss how polypharmacy may affect physical therapy outcomes in the school-based setting. A review of the pathophysiologies will precede a discussion of the pharmacologic treatment. This session will also identify major pharmacologic classes with mechanisms of action and clinically relevant pharmacokinetics. The potential benefits to physical therapy activities in these patients and potential limitations of these drugs to these same activities will then be discussed. The application of this information will be reinforced by case studies at the end of each section.
Intermediate

TETHERED CORD: DIFFERENTIAL DIAGNOSIS AND EVALUATION STRATEGIES
3:00 pm–5:00 pm M Grand Ballroom 9 PD-2C-0127
Speaker: Caroline Creager, PT, DPT
Children and adolescents with tethered cord syndrome (TCS) often develop progressive neurological, musculoskeletal, gastrointestinal, and urological damage if their symptoms are not recognized and
treated early. Diagnosis is difficult since many of the symptoms are not unusual. The presenter will provide an analysis of the evidence and clinical reasoning, which may lead to recognition of the tethered cord pattern in the clinic. The presenter will also describe valid and reliable tests and measures available to physical therapists, such as transabdominal ultrasound imaging, bladder logs, the 6-minute walk test, and handheld dynamometry. The presenter will also discuss how a physical therapist’s exam and evaluation can be key to proper diagnosis of TCS before long-term neurological damage has occurred.

Intermediate

INTEGRATING EMBODIMENT CONCEPTS INTO CLINICAL PRACTICE

3:00 pm–5:00 pm M Grand Ballroom 6 PD-2C-5292

Speakers: Gay L. Girolami, PT, PhD, MS, Gunn Kristin Øberg, PT, PhD, Britt Norman, PT, PhD, MSc, Yvette Blanchard, PT, PhD

Physical therapy is the art of touch and healing, and our view of the body should not be confined to the impairments identified during the evaluation process. This session will describe how an understanding of phenomenology can expand our definition and perception of the body and our ability to connect with the patient. Phenomenology, a philosophy consistent with current neuroscience research, defines the body as the center of experience and expression and also considers the significance of the perceptual system, the sensory-motor networks that support movement and action, and interactions with other people and the environment. Videos examples of key phenomenological concepts with pediatric and adult clients will be presented to illustrate how the philosophy of phenomenology can support the development of a more comprehensive clinical practice.

Intermediate

PRIVATE PRACTICE

CALLED TO CARE: INTEGRATION OF POSITIVE PSYCHOLOGY

8:00 am–10:00 am ICC 205 PP-2A-8492

Joint Program: Neurology

Speaker: Laurence N. Benz, PT, DPT, MAPP

Called to Care is a clinical research study and an initiative to integrate evidence-based positive psychology topics and interventions into the practice of physical therapy. Key topics deemed practical and portable from the science of positive psychology were chosen with the goal to facilitate better patient experiences and renewing or enhancing physical therapists’ sense of purpose or meaningful work. Physical therapists participated in a blended training that included experiential, didactic, collaborative, and self-paced online portal including training in empathy, compassion, self-efficacy, active constructive communication, and high-quality connections. Results showed significant improvements among Called to Care trained physical therapists versus those who had not undergone the training. Integrating practical and portable evidence-based positive psychology topics positively impact patient health care experiences. This session will detail the topics and research about Called to Care, and it will also provide a curriculum that research suggests should be part of every health care provider’s training.

Intermediate

FREE YOURSELF AND YOUR PRACTICE FROM PHYSICIAN REFERRALS

11:00 am–1:00 pm ICC 205 PP-2B-3929

Speaker: Aaron LeBauer, PT, DPT

This session will discuss how to increase patient self-referral to physical therapy and share what it takes to market a physical therapy practice directly to the consumer. The presenter will identify the key elements of a direct-to-patient marketing approach and 5 actionable strategies that can be implemented immediately. This session will also examine how a 100% cash-based physical therapy practice receives over 50% of its new patients from the Internet and over 90% of new patients by self-referral. Private practice physical therapists are in an ideal position to market their unique and valuable services directly to the public and their already established patient bases.

Basic

WOMEN LEADING IN PT: DOES OUR PROFESSION WELCOME US WHEN WE “LEAN IN”?

11:00 am–1:00 pm M White River Ballroom E WH-2B-9912

Joint Program: See Women’s Health for more details

FIVE FACES OF COMPLIANCE: PRACTICAL APPLICATIONS FOR PRIVATE PRACTICE

3:00 pm–5:00 pm ICC 205 PP-2C-6203

Speakers: Nancy J. Beckley, MS, MBA, CHC, Wade E. Meyer, PT, DPT, CHC, Lynn S. McGivern, LLM, JD

Do you know the compliance laws affecting your practice? Do you understand how they affect enrollment, billing, coding, documentation, marketing, practice, and supervision? This session will take your compliance plan to next level as you learn how to apply the law for private practices. You will learn best practice risk assessment techniques to conduct a practice-specific risk assessment and identify risk areas for mitigation and remediation. Session leaders will bring background experience of working with practices under audit, investigation, and/or corporate integrity agreement via OIG, ZPICs, RACs, and MACs, and emerging specialty audit contractors. Bonus tools and templates will be shared for monitoring and auditing, risk assessment, and compliance training.

Intermediate
RESEARCH

ASK-A-LIBRARIAN: BETTER SEARCHING IN 2 HOURS OR LESS
8:00 am–10:00 am ICC 132 RE-2A-8905
Speaker: Gini Blodgett Birchett, MSLS
Finding the research you need for the clinical services you provide can be frustrating and time consuming. In 2 hours, APTA’s information specialist will walk you through a variety of resources and searching techniques to help you find the literature you need more efficiently. The presenter will cover selecting the correct database, crafting a research question into a search query using a P-I-C-O framework, incorporating Boolean connectors in your search, selecting between keyword or subject searching, refining search results, and saving results for future use. This session will also explore time-saving tools such as personal research accounts with the databases, creating alerts, using already-created evidence search tools, and more. Participants should have basic experience with database searching.
Intermediate

ASK-A-LIBRARIAN: SEARCHING PTNOW FOR CLINICAL ANSWERS
11:00 am–1:00 pm ICC 132 RE-2B-9264
Speaker: Gini Blodgett Birchett, MSLS
Do you have less than 5 minutes at a time to answer clinical questions? Searching for answers to clinical questions online, especially those related to diagnosis and treatment, can be challenging. Who has the time to find already validated functional outcome measures, clinical practice guidelines, systematic reviews, and more? You do! This session introduces clinicians to searching “PTNow: Tools for Advancing Physical Therapist Practice.” APTA’s information specialist will walk you through a hands-on tour of the evidence resource, followed by problem-solving sessions as a class and in small groups. Participants should have basic experience with database and internet searching.
Intermediate

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**TRANSITIONING FROM ACUTE TO CHRONIC PAIN: PREDICTORS AND PREVENTION**

11:00 am–1:00 pm M White River Ballroom I RE-2B-6483

**Speakers:** Kathleen A. Sluka, PT, PhD, FAPTA, Laura Frey Law, PT, PhD, Mark Bishop, PT, PhD, Katrina Maluf, PT, PhD, Steven Z. George, PT, PhD, Marie Hoeger Bement, PT, PhD

Chronic pain affects over 100 million Americans and costs billions of dollars in health care costs and lost wages. Preventing the development of chronic pain is critical to reduce the impact of this debilitating condition. This session will bring leading researchers together to discuss the transition from acute to chronic pain. Short TED-format talks will focus on physiological and psychosocial predictors for the development of chronic pain and on factors that prevent the development of chronic pain. These talks will be followed by a panel discussion. The panel will present recent research and concepts related to the transition from acute to chronic pain. The discussion will specifically focus on the role of exercise and physical activity in the prevention of chronic pain. The discussion will also cover pain catastrophizing and fear of movement as psychological predictors in the development of chronic pain.

**Basic**

**CLINICAL TRIALS: CHALLENGES WITH RECRUITMENT, RETENTION, AND FIDELITY**

11:00 am–1:00 pm M 101 RE-2B-8759

**Speakers:** Jennifer Stevens-Lapsley, PT, PhD, Kathleen Mangione, PT, PhD, FAPTA, Edelle C. Field-Fote, PT, PhD, FAPTA, David R. Sinacore, PT, PhD, FAPTA

Enrolling and retaining clinical trial participants is crucial for conducting a successful trial. Yet, meeting enrollment targets is one of the primary reasons clinical trials fail to achieve timely completion. This session will highlight practical solutions for identifying sources of patients, requesting referrals from physicians, contacting and screening patients, obtaining informed consent, training recruitment staff, establishing goals, assessing progress, and rescuing a clinical trial that is not reaching patient recruitment goals. An overview of these considerations will be followed by a sharing of ideas among experienced clinical trial investigators to offer additional insight into creative strategies to facilitate clinical trials recruitment. Whether you are a clinician interested in helping partner with others to implement clinical trials or you have some experience with clinical trials, this session is designed to provide insights to enhance your skill sets with clinical trials.

**Intermediate**

**THE PATH TO SUCCESSFUL PUBLICATION OF YOUR QUALITATIVE RESEARCH**

11:00 am–1:00 pm M 102 RE-2B-7571

**Speakers:** Anita M. Santasier, PT, PhD, OCS, Susan Wainwright, PT, PhD, Kim A. Nixon-Cave, PT, PhD, PCS, Patricia Q. McGinnis, PT, PhD

Editorial Board members know publication inside and out—both as editors and as authors who have had more than their own share of acceptances and rejections. A panel of experienced individuals is willing to share their pearls of wisdom to streamline the process for research to publication. A moderator will query the editorial board members about everything you need to know to avoid fatal flaws as well as forge a path to acceptance. This session will be followed by participant questions regarding their own experiences.

**Multiple Level**

**HOW SHOULD I TREAT THIS PATIENT? EVIDENCE AT THE POINT OF CARE**

3:00 pm–5:00 pm ICC 132 RE-2C-3450

**Speakers:** Lisa Selby-Silverstein, PhD, Julie K. Tilson, PT, DPT, MS, NCS, Michael Costello, PT, DSc, OCS, MTC, Jena B. Ogston, PT, PhD, Carrie Russen, PT, DPT

Time is the most commonly stated barrier for clinicians trying to implement evidence-based practice. A close second is access to full-text resources. This hands-on session will demonstrate use of the “6S Approach to Finding Useful Evidence” at the point of care. The “6S” approach promotes efficient, evidence-based point-of-care decision making through the use of synthesized evidence such as clinical practice guidelines, systematic reviews, and clinical summaries. Clinicians will present cases from a number of settings. Participants will answer the question “How should I treat this patient?” by accessing synthesized evidence via personal smartphone or tablet. All resources for synthesized evidence will be available to all APTA members.

**Basic**

**MECHANICAL AND PSYCHOLOGICAL MEASURES IN ACL RECONSTRUCTION REHABILITATION**

3:00 pm–5:00 pm M White River Ballroom I RE-2C-7532

**Joint Program:** Sports

**Speakers:** Ryan L. Mizner, PT, PhD, Terese L. Chmielewski, PT, PhD, SCS

Published practice guidelines for anterior cruciate ligament (ACL) reconstruction outline criteria for return to sports and defining postoperative success based on 3 tiered outcomes: physical impairments (eg, muscle weakness), patient reported outcome surveys, and performance-based measures (eg, hop testing). Such schemes are beneficial, but the vast majority of patients will successfully resolve their physical impairments, score within normal variance of their uninjured limb on performance tests, and will total over 90% on patient reported outcome surveys. Despite these successes with modern rehabilitation approaches, patients...
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with ACL reconstruction exhibit a high rate of second ACL injury and less than half will return to their preoperative level of sports participation. This session will focus on how biomechanical and psychological measures can enrich clinical assessments and influence choices made in order to deliver better patient care.

**Multiple Level**

**WRITING FOR HIGH IMPACT: COCHRANE REVIEWS AND LEAPS**

3:00 pm–5:00 pm M 101 RE-2C-9588

**Speakers:** Rachelle Buchbinder, PhD, MBBS, MSc, FRACP, Rana Hinman, BPhysio, PhD, Chris G. Maher, PT, PhD

Cochrane reviews are considered the “gold standard” of systematic reviews. They aim to synthesize evidence about the effectiveness of interventions and utility of diagnostic tests to inform clinical and policy decisions. Find out the basics of reading, applying, and performing Cochrane reviews from experts who know systematic reviews from both sides, as editors/reviewers and as authors. And if writing a Cochrane Review isn’t for you right now, find out about what’s involved in writing a PTJ LEAP that applies a Cochrane review to a patient case.

Intermediate

**SPORTS PHYSICAL THERAPY**

**I’VE PERFORMED A RUNNING ANALYSIS… NOW WHAT?**

8:00 am–10:00 am ICC Sagamore Ballroom 4 SP-2A-9643

**Speakers:** Douglas Adams, PT, DPT, SCS, OCS, CSCS, Eric Greenberg, PT, DPT, SCS, CSCS, Richard Willy, PT, PhD, OCS

While physical therapists are often experts in identifying gait impairments in runners, addressing these flaws can be perplexing to even the most skilled clinicians. Clinicians are often challenged by the design and implementation of an individualized and successful treatment plan that ensures a safe and durable return to running. This session will focus on the assessment of the body as a unit and the prescription of running-specific interventions.

In this session, the principle of regional interdependence will be discussed to assist in the identification of neuromuscular dysfunctions that may be primary contributors to abnormal gait patterns. Attendees will also learn to incorporate proper feedback and cueing using concepts of motor learning to lead to meaningful and lasting changes in faulty running mechanics. This session is intended for attendees who are proficient in running gait analysis and would like to expand their interventional skills to incorporate a movement-based approach.

Intermediate

**SPORT-RELATED CONCUSSION: EVIDENCE-BASED ASSESSMENT AND MANAGEMENT**

8:00 am–10:00 am ICC Sagamore Ballroom 2 SP-2A-9891

**Speakers:** Kathryn Schneider, PT, PhD, FCAMPT, Clin Spec MSK, Carolyn Emery, PT, PhD, Isabelle Gagnon, PT, PhD

Sport-related concussion is 1 of the most commonly encountered injuries in sport today. The majority of individuals recover in 7–10 days following a concussion, but as many as 30% are left with persistent symptoms. The physical therapist is in a unique position to provide assessment and management strategies for individuals who have suffered a sport-related concussion. A thorough familiarity of the current trends in the literature, assessment, and treatment guidelines is important to minimize risk and optimize the assessment and management of athletes who have suffered a sport-related concussion. This session will provide an update on the most recent evidence in the area of sport-related concussion, including practical applications to clinical scenarios.

Multiple Level

**LOWER EXTREMITY INJURY: A MODERN, PREVENTIVE APPROACH**

8:00 am–10:00 am ICC Sagamore Ballroom 5 SP-2A-7341

**Speakers:** Lindsay Becker, PT, DPT, SCS, CSCS, Sue Falsone, PT, MS, SCS, ATC, CSCS, COMT, Barton N. Bishop, PT, DPT

Lower extremity injuries are a common yet devastating occurrence in sport activities. This session will discuss a screening process to identify faulty movement patterns and asymmetries that potentially increase risk for lower extremity injury. Corrective strategies to address asymmetrical patterns and poor mechanics will also be discussed, including integration with sport-specific and strength and conditioning activities. This session will further the clinician’s understanding of factors associated with lower extremity injury risk and aid in implementation of screening and interventions to decrease primary injury risk.

Multiple Level

**COMPLICATED PATIENT: SPORTS EDITION**

11:00 am–1:00 pm ICC Sagamore Ballroom 5 SP-2B-9463

**Speaker:** Michael Mullaney, PT, DPT

This session offers several interesting complex, complicated, or difficult cases related to sports physical therapy. Details will be provided regarding the diagnostic process, evaluation, intervention strategies, and outcomes. The presenter will highlight clinical decision making, critical thinking, problem-solving strategies, and related evidence.

Multiple Level
SPORTS CONCUSSIONS IN YOUTH: THE ROLE OF PTs FOR A SURGING PATIENT POPULATION
11:00 am–1:00 pm   ICC Sagamore Ballroom 4   SP-2B-6663
Joint Program: Pediatrics
Speakers: Jason A. Hugentobler, PT, DPT, SCS, CSCS, Brad Kurowski, MD, MS, Barbara Janiszewski, PT, DPT, ATC, Gretchen A. Mueller, PT, DPT, Catherine Quatman-Yates, PT, DPT, PhD
Concussion continues to be one of the leading headlines and hottest topics in the world of sport from youth leagues to professional levels. This session will provide a comprehensive overview of the evolving role of physical therapists in concussion management, including assessment of potential impairments and active rehabilitation strategies for children and athletes that experience protracted recoveries. A case-based style will be used to review current evidence, provide evidence-based recommendations for evaluation and treatment approaches, and highlight the potential limitations and opportunities for physical therapists to participate as part of a multidisciplinary team in caring for young athletes that suffer concussions.
Intermediate

EXERCISE PROGRESSION FOR THE UPPER AND LOWER EXTREMITY: WHAT DOES EMG SAY?
11:00 am–1:00 pm   ICC Sagamore Ballroom 2   SP-2B-4291
Joint Program: Clinical Electrophysiology
Speakers: Terry R. Malone, PT, EdD, Lori Bolgla, PT, PhD, MAcc, Arthur J. Nitz, PhD, Tim Uhl, PhD, Scott Shaffer, PhD
Clinicians are faced with decisions related to the progression or introduction of exercises for their clients every day. The challenge is to properly sequence exercise demand to best match the clients’ capabilities. This session will provide evidence for the progression of exercise as outlined and specified by electromyography (EMG) for the exercises commonly used for both the upper and lower extremity. Basic concepts of the value of EMG and how to best apply such will be provided. The data will provide a logical progression of exercise applications and special recommendations for specific conditions.
Intermediate

ADVANCING THE SCIENCE OF PLYOMETRICS FOR THE SHOULDER
3:00 pm–5:00 pm   ICC Sagamore Ballroom 5   SP-2C-7541
Speakers: George J. Davies, PT, DPT, SCS, CSCS, ATC, FAPTA, Bryan Riemann, PhD, ATC, FNATA
This session will discuss the design of plyometric training programs for the shoulder. The science of plyometrics, including biomechanics, kinematics, and kinetics, will be discussed. Many clinicians use plyometrics for the shoulder in the terminal phases of the rehabilitation program; however, there is limited science to support the best applications. Presenters will provide several examples of the clinical application of plyometrics in the upper extremity. Based on recent research from the lab, they will present unique studies on open and closed kinetic chain plyometrics of the shoulder, recommended volume dosage for training, and describe a progressive hierarchy of plyometric exercises for the shoulder that can be used for a rehabilitation, strength, and conditioning or performance enhancement program.
Multiple Level

MY PATIENT IS OUT OF VISITS: WHAT DO I DO NOW?
3:00 pm–5:00 pm   ICC Sagamore Ballroom 2   SP-2C-1972
Joint Program: Private Practice
Speakers: Daniel Lorenz, PT, DPT, CSCS, ATC/L, USAW, Robert Panariello, PT, MS, ATC, CSCS, James W. Matheson, PT, DPT, MS, SCS, OCS, CSCS, Ross Nakaji, PT, OCS, SCS, CSCS, ATC
With ever-changing reimbursement policies in physical therapist practice coupled with reduced visits and higher patient copays, sports physical therapists often have to discharge patients prior to physical readiness, or they have to significantly reduce the amount of supervised visits. Fortunately, there are cash-based practice models that the physical therapist can use to ensure their athletes have a safe return to sport. This session will discuss the methods to increase insurance visits with effective use of outcome measures. The presenters will also explain the physical qualities of athletic performance as well as program design to achieve these goals.
Intermediate
MANAGEMENT OF PATELLAR INSTABILITY:
CONSERVATIVE AND POSTOPERATIVE GUIDELINES
3:00 pm–5:00 pm ICC Sagamore Ballroom 4 SP-2C-8994
Speakers: Jason A. Hugentobler, PT, DPT, SCS, CSCS, Mark V. Paterno, PT, PhD, MBA, SCS, ATC, Catherine Quatman-Yates, PT, DPT, PhD, Jeffery A. Taylor-Haas, PT, DPT, OCS, CSCS, Amber Boyd, PT, DPT, SCS, CSCS
Patellar instability is a source of short- and long-term impairments and disability in the young, athletic knee. This session will provide a comprehensive description of the epidemiology, etiology, prognosis and approaches to manage patellar instability. A specific emphasis will be placed on evidence-based decision making for evaluation, exercise selection, and treatment precautions across the continuum of care for both conservative and surgical management cases. Evidence-based rehabilitation guidelines generated through a systematic, critical appraisal of the literature will be presented. Recommendations will be provided based on consensus statements generated by a panel of experienced physical therapists.
Intermediate

GOOGLE GLASS IN PHYSICAL THERAPY EDUCATION
AND CLINICAL PRACTICE
3:00 pm–5:00 pm W Capitol I ED-2C-9122
Joint Program: See Education for more details

GERIATHLETICS: PTs AS THE RESOURCE
FOR AGING ATHLETES
3:00 pm–5:00 pm ICC 241 GR-2C-5735
Joint Program: See Geriatrics for more details

MECHANICAL AND PSYCHOLOGICAL MEASURES IN
ACL RECONSTRUCTION REHABILITATION
3:00 pm–5:00 pm M White River Ballroom I RE-2C-7532
Joint Program: See Research for more details
WOMEN’S HEALTH

COMPLEX CASES IN MEN’S AND WOMEN’S HEALTH
8:00 am–10:00 am  M White River Ballroom E  WH-2A-2978
Speaker: Sandy Hilton, PT, DPT, MS
This session will showcase 7 complicated case reports from a variety of men’s and women’s health settings. Assessment, diagnosis, treatment, and outcomes will be discussed along with the critical thinking and clinical decision making supporting the plan of care. Presenters will clearly differentiate between evidence and experience to generate discussion on best practice patterns.

Multiple Level

UNTAMED MEMORIES: THE ROLE OF PAST TRAUMA IN THE DEVELOPMENT OF CHRONIC PAIN
8:00 am–10:00 am  M White River Ballroom C  WH-2A-5296
Joint Program: Federal
Speakers: D.G. Sueki, E.J. Puentedura, K. Dunleavy
Injury can have long-term physiological, psychosocial, and behavioral consequences. Research is demonstrating that in individuals with chronic pain, cortical and subcortical processing of information shifts from normal nociceptive processing areas to the medial prefrontal, anterior cingulate, and insular cortices and the hippocampus region, all of which also show dysregulation and signs of gray matter atrophy. Because these regions are involved in emotional processing, learning, and memory, it is reasonable to suggest that these processes may be involved in the pain experience. Because there are similarities in behavioral responses and patterns of neural adaptations in posttraumatic stress disorder (PTSD) and chronic pain it is reasonable to speculate that the 2 conditions represent behavioral manifestations linked to conscious or unconscious memory of threat or fear during injury. This session will discuss concepts related to neural and structural alterations in chronic pain and PTSD, and the role of associative learning and protective memory-based behavioral responses to provide a framework to inform clinical management of individuals with chronic pain and PTSD.

Intermediate

THE EFFECT OF LOWER EXTREMITY DYSFUNCTION ON PELVIC PAIN AND INCONTINENCE
11:00 am–1:00 pm  M White River Ballroom G  WH-2B-9392
Speakers: S. C. Clinton, C. H. Vargo, A. Newell
This session will link current evidence related to the influence of some common musculoskeletal dysfunctions of the lower extremity on the biomechanics and function of the lumbopelvic region. The implications of these dysfunctions are often not regarded appropriately in the early stages of intervention and can have lasting implications on the function of the system into the pelvis and lumbar spine, including but not limited to persistent pain and urinary incontinence. The consideration of the lower quarter function in its entirety is essential to help change compensatory patterns, improve movement, and change input into the peripheral and central nervous system. The ability of the muscles in the lumbopelvic region to function actively in stabilization and eccentric control for force attenuation will also be demonstrated. Patient case reports will be used to demonstrate the concepts for examination and intervention.

Multiple Level

WOMEN LEADING IN PT: DOES OUR PROFESSION WELCOME US WHEN WE “LEAN IN”?
11:00 am–1:00 pm  M White River Ballroom E  WH-2B-9912
Joint Program: Private Practice, Oncology
Speakers: Nicole Stout, PT, DPT, CLT-LANA, Ann Wendel, PT, ATC, CMTPT, Sandy Hilton, PT, DPT, MS, Carole Lewis, PT, PhD, Helene Fearon, PT, FAPTA, John D. Childs, PT, PhD, MBA, Justin Moore, PT, DPT
Workforce demographics show that the physical therapy profession is heavily dominated by women. While women participate in many aspects of clinical practice, leadership, education, and research, there are prevalent perspectives among the physical therapy community that women struggle to attain leadership roles in practice areas traditionally dominated by men. This session will explore the perceptions of male-dominated leadership in certain areas of practice. Is it perception or reality? The presenters will highlight their individual experiences and research from various disciplines suggesting that women’s collective experiences in the workplace are frequently not in line with the “intuitive” notions of their coworkers. Could it be that the very mechanisms put in place to promote gender equality in the workplace and in the boardroom continue to be hindered by gender bias that persists in organizations? The discussion will aim to highlight experiences among men and women that contribute to gender bias.

Multiple Level
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*Posture-movement changes following repetitive motion-induced shoulder muscle fatigue: http://link.me/proven

**Neuromuscular and biomechanical characteristic changes in high school athletes: a plyometric versus basic resistance program: http://link.me/efficient
SATURDAY, FEBRUARY 7

COMBINED SECTIONS MEETING OF THE
AMERICAN PHYSICAL THERAPY ASSOCIATION

SCHEDULE AT A GLANCE

SATURDAY, FEBRUARY 7
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As vital as your morning coffee.
SESSION CODES

CSM 2015 employs a session code system to better track the educational sessions offered in Indianapolis. Each session is identified by a 2-letter section abbreviation, followed by a number indicating the day of the session, a letter indicating the time, and a 4-digit code unique to that session. A guide to the codes can be found on page 3.

ACUTE CARE

MENTAL HEALTH MATTERS: RECOGNIZING AND SUPPORTING CLIENTS WITH ANXIETY

11:00 am–1:00 pm  ICC 104  AC-3B-7888

Speakers: Heather A. Feldner, PT, MPT, PCS, Margaret Danilovich, PT, DPT, GCS, Anna Russo, MSW, CADC

Generalized anxiety disorder is one of the most common mental health conditions in the US, affecting nearly 18% of the population. Anxiety, whether premorbid or new onset, impacts physical therapy service delivery across all practice settings, patients, and clients of all ages and demographic domains. Research indicates that physical therapists may not routinely screen for or adequately respond to symptoms of anxiety in their clients. This session will seek to improve physical therapists’ knowledge and confidence in recognizing, screening, and making referrals for clients with anxiety. Participants will also practice direct intervention strategies to facilitate motivation and in-session anxiety symptom management to maximize the holistic health outcomes of their clients.

Multiple Level

OVERCOMING OBSTACLES TO ACUTE CARE REHABILITATION RESEARCH

11:00 am–1:00 pm  ICC 102  AC-3B-7764

Speakers: Barbara K. Smith, PT, PhD, Patricia J. Ohtake, PT, PhD, Steve Fisher, PT, PhD, GCS, Diane U. Jette, PT, DSc, MS, FAPTA, Carmen S. Kirkness, PT, PhD, Dianne V. Jewell, PT, DPT, PhD

Acute care physical therapists and clinics are ideally positioned to generate evidence about the value of physical therapy. While there is a growing recognition of the value of rehabilitation interventions in acute care settings, there is also an increased demand for controlled studies of therapies on patient-centered (eg, physiological function, mobility, and disability) as well as health services-related (eg, cost and utilization) outcomes. Despite the need for systematic studies of therapeutic interventions in acute care, the systems and environment of a hospital setting provide challenges to designing and implementing relevant and feasible studies. The speakers will examine current challenges associated with rehabilitation research in the acute care setting and suggest potential methods to address these obstacles.

Particular focus will be placed on obtaining the appropriate institutional approvals, employing a rigorous study design, navigating hospital systems barriers, using valid, standardized outcome measures, and locating research mentors and networks.

Multiple Level

WHEN EARLY MOBILITY IS NOT THE ANSWER: CHALLENGES TO THE EFFECTIVENESS AND APPROPRIATENESS OF PT INTERVENTION FOR PATIENTS WITH CRITICAL ILLNESS

3:00 pm–5:00 pm  ICC 102  AC-3C-2193

Speakers: Amy Pawlik PT, DPT, CCS

Recent literature touts the feasibility, safety, and effectiveness of early physical therapy intervention in the management of patients with critical illness. Making the decision to provide earlier care to patients with critical illness also comes with a responsibility of the physical therapist to consider that a patient may not be appropriate for intervention or that a medical problem, rather than a physical therapy problem, may be contributing to a patient’s limitation in function. In this case-based session, the presenters will identify complex medical conditions which may limit the effectiveness or appropriateness of physical therapy intervention and discuss strategies the physical therapist can use to initiate challenging conversations with the medical team regarding a patient’s response, or lack of response, to physical therapy intervention.

Advanced

AQUATIC PHYSICAL THERAPY

AN EVIDENCE-BASED AQUATIC EXERCISE PROGRAM FOR PATIENTS WITH NEUROLOGICAL DISORDERS

8:00 am–10:00 am  M White River Ballroom C  AQ-3A-9419

Joint Program: Neurology

Speakers: Yasser Salem, PT, PhD, MS, NCS, PCS, Ellen M. Godwin, PT, PhD, PCS

This session will provide evidence-based aquatic exercises for patients with neurological disorders. The goals of this session are to present the theoretical framework and recent empirical evidence regarding aquatic exercises for patients with neurological disorders. The unique aspects and rationale for using aquatic exercises for patients with neurological disorders, and the current evidence on the effects of aquatic exercises in people with neurological disorders, will be presented to guide practical application of aquatic therapy. The speakers will present general guidelines for treatment design and use of aquatic exercise in rehabilitation, and will discuss how to design effective and specific aquatic exercise and treatment strategies. Attendees will learn about using aquatic therapy to improve gait and balance and the transition to land-based exercises in people with neurological disorders.

Intermediate
CARDIOVASCULAR AND PULMONARY

A CARDIOVASCULAR AND PULMONARY PHYSICAL THERAPY RESIDENCY: WHERE DO WE START?
8:00 am–10:00 am  ICC 209  CP-3A-1597
Speakers: Ellen Hillegass, PT, PhD, CCS, FAPTA, Alexandra Sciaky, PT, DPT, CCS, Rebecca H. Crouch, PT, DPT, CCS

This session will give an overview of what is needed to design and implement a cardiovascular and pulmonary physical therapy residency program. The speakers will discuss what have been considered to be entry-level cardiovascular and pulmonary physical therapy competencies and compare and contrast them with the American Board of Physical Therapy Specialties’ Cardiovascular and Pulmonary Description of Specialty Practice (DSP). After a discussion on resources for establishing a residency program, including program models, a residency program graduate will identify the pros and cons from their perspective. Finally, a debate on competencies will be held to discuss entry-level versus advanced-level competencies.

Intermediate

MECHANICAL SUPPORT AND MOBILITY: ECMO, IABP, AND TAH
11:00 am–1:00 pm  ICC 209  CP-3B-4338
Speaker: Meghan Lahart, PT, DPT

This session will review extracorporeal membrane oxygenation (ECMO), intra-aortic balloon pumps (IABP), and total artificial hearts (TAH)—how each device works, for what procedure each device is used, and how early mobility can be successfully completed while each of these devices are in place. There will also be a discussion with other centers that are implanting and mobilizing patients with these devices.

Intermediate

LAUGH AND LIVE LONGER!
11:00 am–1:00 pm  ICC 232  ON-3B-4330
Joint Program: See Oncology for more details

CLINICAL ELECTROPHYSIOLOGY AND WOUND MANAGEMENT

EVERY PATIENT HAS SKIN: HOW TO HELP THEM KEEP IT
8:00 am–10:00 am  ICC 120  CE-3A-0241
Joint Program: Oncology
Speaker: Renee Cordrey, PT, MSPT, MPH, CWS

With the profession’s move toward direct access and wellness, and as physical therapists become an entry point into the health profession, it’s important that physical therapists, no matter their practice area, consider the skin when reviewing systems and planning treatment. Physical therapists have a unique opportunity to identify the risk for ulceration, educate the patient to reduce that risk, and address functional impairments that can contribute to mitigating that risk or supporting wound healing. This session will address the risk factors for major wound types, screening tools to assess risk, treatment planning considerations, and points for education for patients and clients with and at risk for wounds, no matter the treating diagnosis.

Multiple Level

THERAPEUTIC TECHNOLOGIES IN WOMEN’S HEALTH
8:00 am–10:00 am  ICC 123  CE-3A-9232
Joint Program: Women’s Health
Speakers: Gad Alon, PhD, Ruth M. Maher, PT, DPT, PhD, WCS, BCB-PMD, Karen Abraham, PT, PhD

Physical therapists involved in women’s health treat pelvic floor impairments and dysfunctions and typically combine manual techniques, exercises, and various therapeutic technologies. Major recent advancements in therapeutic technologies in general, and specifically electrical stimulation and biofeedback (force and EMG), coupled with new evidence-based clinical data are likely to alter treatment options. This session will review the latest evidence-based knowledge regarding electrical stimulation and biofeedback technologies and explain the primary reasons for inconclusive, controversial clinical studies that led some researchers, clinicians, and third-party payers to question the value of these technologies. The presenters will share recently published and unpublished research findings and offer new approaches to selecting and applying these technologies to manage incontinence and pain in the pelvic girdle. The session will include video demonstrations of proper applications of the discussed technologies and focus on establishing the most effective training programs of electrical stimulation and biofeedback, including setting up objective clinical outcome measures.

Advanced

THE USE OF HIGH-VOLTAGE PULSED CURRENT FOR TREATING SECONDARY LYMPHEDEMA AND LYMPHEDEMA SIG MEETING
11:00 am–1:00 pm  ICC 234  ON-3B-9551
Joint Program: See Oncology for more details
EDUCATION

A SYSTEMS-BASED APPROACH TO EVIDENCE-BASED PRACTICE: RECONCEPTUALIZING AND REINVIGORATING AN OVERWORKED TOPIC

8:00 am–10:00 am W Capitol I ED-3A-9547
Speakers: Eric Robertson, PT, DPT, OCS, FAAOMPT, Kendra Gagnon, PT, PhD, Carla Sabus, PT, PhD

Teaching and learning about evidence-based practice has changed very little since the term’s inception and emergence in the 1990s. Evidence-based practice is often taught as an introductory, foundational-level course and is grounded in evidence gathering and appraisal methods. These methods bear little resemblance to how individuals access, share, and consume information in a digital world. This session will explore evidence-based practice through a new lens, proposing a framework of evidence connectivity. It will provide examples of how physical therapists and health care organizations are using new media and technology to improve exposure to emerging evidence and support for the implementation of evidence-based innovation. Participants will be prepared to implement a new model of professional development to support evidence-based practice by developing networks of knowledge, appraising, and integrating evidence into practice. Participants will also learn how to return this new knowledge to the network in an increasingly social and collaborative way.

Multiple Level

A CASE STUDY OF INTEGRATED CURRICULAR DESIGN

8:00 am–10:00 AM W Grand 3 ED-3A-9792
Speakers: Babette S. Sanders, PT, DPT, MS, FAPTA, Lois Hedman, PT, DScPT, William E. Healey, PT, EdD, GCS

To respond to the health care needs of individuals and society, physical therapists must be able to provide care utilizing a broad set of knowledge and skills. The Commission on Accreditation of Physical Therapy Education (CAPTE) requires a physical therapist curriculum to be comprised of a series of organized, sequential, and integrated courses. However, levels of integration between courses are not dictated, allowing curricula to be designed in formats consistent with programs’ mission, vision, goals and available resources. The purpose of this session is to describe a curricular redesign that deliberately coordinated and integrated course content in order to facilitate students’ ability to provide effective care to individuals of any age across the healthcare continuum. Speakers will describe the process used and rationale behind creation of a curricular plan that facilitated integration across courses, the resources required to implement the plan, student feedback on the outcome, and ways to apply the process at your institution.

Intermediate
The American Academy of Academic Physical Therapy (ACAPT) Board of Directors charged a task force to explore the possibility of a new journal focused on the humanities in physical therapy. The goal was to develop an educational and scholarly forum for PTs and others involved in rehabilitation and disability studies to disseminate scholarly papers as well as personal narratives, poems, and fiction that can shed light on dimensions of caring for and living with individuals with disabilities. This session will discuss these questions concerning humanities as not only an important source of knowledge to practice physical therapy but also a powerful tool for its critical and reflective function in the development and practice of a “doctoring professional.” The task force hopes to provide a forum to broaden the discussion to include the viewpoints of educators, clinicians, and scholars.

Basic

CLINICAL REASONING IN THE CLASSROOM AND CLINIC: TAKING OUR PULSE
11:00 am–1:00 pm W Grand 5 ED-3B-3450

Speakers: Karen Huhn, PT, PhD, Lisa Black, PT, DPT, Jennifer A. Furze, PT, DPT, PCS, Nicole Christensen, PT, PhD, MAppSc, Susan Wainwright, PT, PhD, Ann Vendrely, PT, DPT, EdD

Entry-level doctor of physical therapy (DPT) education has evolved to meet the expectations of expanding professional roles in an increasingly complex health care environment. While there are varied curricula models for educating students in entry-level physical therapy, it was not known how instruction in and assessment of clinical reasoning has been incorporated into entry-level DPT curricula. This session will summarize the results of 2 national surveys to inform the teaching, learning, and assessment of clinical reasoning skills in entry-level DPT education. The results of the surveys establish the breadth of current educational practice in teaching and assessing clinical reasoning in entry-level DPT curricula. The results also make it clear there is a limited unification across entry-level DPT programs. The session will use small, facilitated work groups to continue the discussion of issues that arose from the surveys related to the teaching and assessment of clinical reasoning skills. Summary reports from these small work group discussions will be collected and incorporated into recommendations and future research.

Multiple Level

CHALLENGES OF IMPLEMENTING INTERPROFESSIONAL EDUCATION
3:00 pm–5:00 pm W Capitol I ED-3C-6201

Speakers: Julie DeVahl, PT, MS, OCS, Susan Simpkins, PT, EdD

Implementation of interprofessional education (IPE) in the health care curriculum has substantial challenges in many institutions. This session will describe the successful development and implementation of an IPE program to enhance the students’ educational experience at a university academic medical center. The program, called Convergence, brings first-year students from the university’s medical, graduate, and health professions schools together in learning communities that explore a focused science of medicine annual theme. This session will explore the data analysis from the first 5 years of the program’s implementation, which indicate significant changes in student’s IP competence. Feedback from student course evaluations confirms that the IP learning community model is an effective way to prepare the next generation of health care providers.

Basic

PTNOW.ORG WORKSHOP: WRITING WITH A FOCUS ON INFLUENCING PATIENT CARE
3:00 pm–5:00 pm ICC 132 ED-3C-0174

Joint Program: Research

Speakers: Judith Deutsch, PT, PhD, FAPTA, Tara J. Manal, PT, DPT, OCS, SCS

Do you want to move knowledge into action? Do you want to be an author who influences patient care across the profession? PTNow.org is a website portal designed to make it easy for clinicians to use evidence in direct care. In this session led by PTNow co-chairs, authors and potential authors have the opportunity to meet in small groups with PTNow team editors to focus on how to write and revise clinical summaries, clinical cases, CPG+ (aids for applying clinical practice guidelines), or test summaries. It takes a village to make evidence and new knowledge come alive at the point of care! Explore how this evidence is being translated on PTNow.

Intermediate

NATIONAL STUDY OF PHYSICAL THERAPIST EDUCATION: EMERGING FINDINGS
3:00 pm–5:00 pm W Capitol II ED-3C-9872

Joint Program: Research

Speakers: Gail Jensen, PT, PhD, FAPTA, Jan Gwyer, PT, PhD, FAPTA, Laurita Hack, PT, DPT, PhD, MBA, FAPTA, Terrence Nordstrom, PT, EdD, Elizabeth Mostrom, PT, PhD, Susan Wainwright, PT, PhD, Anthony Delitto, PT, PhD, FAPTA

The Carnegie Foundation supported research that studied clergy, engineering, law, nursing, and medical education to identify curricular structures, instructional practices, assessment approaches, and environmental characteristics that support preparation of professionals. The research has led to ongoing educational reforms. Currently, the literature in physical therapy
demonstrates that no particular pattern of education leads to excellence. In-depth qualitative case studies of 9 exceptionally well integrated and managed entry-level and residency educational and clinical programs provide data for phase 1 of this national study. These cases form a working conceptual framework that is grounded across 3 core dimensions—organizational environment, people and expectations, and the learning environment. This session will share Phase One findings from the 9 cases and demonstrate a working model for the evaluation of educational research. Participants will complete a critique that will provide analytical and critical commentary on the significance and credibility of the research.

**SECONDARY DATABASE EVIDENCE: INFORMING PRACTICE AND POLICY**

3:00 pm–5:00 pm  
W Grand 5  
HP-3C-7231  
Joint Program: See Health Policy for more details

**FEDERAL PHYSICAL THERAPY**

**PHYSICAL THERAPY IN THE PATIENT-CENTERED MEDICAL HOME (PCMH): WHAT IS OUR ROLE IN THIS PRIMARY CARE SETTING?**

8:00 am–10:00 am  
M White River Ballroom F  
FD-3A-9690

Speakers: Daniel Rhon, PT, DPT, DSc, OCS, FAAOMPT, Steven Travers, PT, Brian Hatler, PT, DPT, OCS

The underlying premise of the patient-centered medical home (PCMH) is that centralized and collaborative multidisciplinary practice, centering on multiple needs of the patient, not only expedites quality care but also saves money. Because musculoskeletal injuries make up a substantial number of visits to a primary care provider, it would make sense to integrate additional orthopedic assets. A physical therapist place in a PCMH clinic model looked at his influence on outcomes and health care utilization (eg, imaging, referrals) of patients seen in that clinic. In this session, the presenter will discuss practical lessons learned, rationale, and initiatives that helped make him successful in this setting. With the growing popularity of integrated patient care models, and the increasing scope of the physical therapist as a primary care provider for musculoskeletal complaints, finding optimal models implementation is key for the physical therapy profession.

**CRASH, BANG, BOOM: INJURIES AND REHABILITATION OF CONTACT AND TACTICAL ATHLETES**

11:00 am–1:00 pm  
ICC Sagamore Ballroom 5  
SP-3B-5527

Joint Program: See Sports for more details

**GERIATRICS**

**ADDING POWER TO THE AGING ADULT’S EXERCISE PROGRAM**

8:00 am–10:00 AM  
ICC 243  
GR-3A-8859

Speakers: Michael Puthoff, PT, PhD, GCS

Muscle power has been shown to play an integral role in the mobility of aging adults with some studies concluding that muscle power has a stronger relationship to function than strength. This leads to the question of whether interventions designed for aging adults should emphasis muscle power over strength. This presentation will review factors that influence muscle power, clinical and laboratory measures of muscle power, and the application of current literature in the area of muscle power to the physical therapy management of aging adults. Attendees will be prepared to design power training programs for aging adults across a range of practice settings and address barriers and challenges to using power training clinically.
BONE HEALTH SIG—HYPERKYPHOSIS: ARE WE DESTINED TO STOOP WITH AGING?
8:00 am–10:00 am  ICC 241  GR-3A-1689
Speaker: Wendy Katzman, PT, DPTSc

Hyperkyphosis is an important cause of disability in older adults. With the aging of the US population, hyperkyphosis will be an increasingly important challenge for the health care delivery system. This session will address the need to develop effective interventions that optimize aging and maximize independence among older persons at increased risk of adverse health outcomes. Presenters will begin by examining the effects of hyperkyphosis on physical function fracture risk and other adverse health outcomes. The presenters will also show evidence for an exercise intervention that targets musculoskeletal impairments associated with hyperkyphosis. Participants will have the opportunity to practice an evidence-based exercise program targeted to improve hyperkyphosis and integrate good posture into activities of daily living.

OPTIMIZING BONE HEALTH ACROSS THE LIFESPAN
11:00 am–1:00 pm  ICC 241  GR-3B-4897
Speakers: Amy Wagner, PT, DPT, Susan N. Smith, PT, DPT, PCS, Jennifer Kish, PT, DPT, SCS, COMT, CSCS, Amy Crocker, PT, DPT, OCS, Mona Bains, PhD

Optimizing bone health begins in the early part of the lifespan. It’s often affected by pivotal events such as adolescence, athletic activity, pregnancy, breastfeeding, menopause, and aging. Chronic medical comorbidities such as autoimmune diseases or stress can also play a role in building and preserving quality and quantity of bone throughout the lifespan. This session will promote the physical therapist’s knowledge of how optimal bone health can be developed and promoted in women throughout the lifespan. This session will also focus on how the physical therapist can play a role in exercise prescription and healthy choices to develop the healthiest bone for life.

Shepherd Center
BRAIN AND SPINAL CORD INJURY EXPERTS

Located in Atlanta, Shepherd Center is a world-renowned, non-profit hospital specializing in medical treatment, research and rehabilitation for people with spinal cord or brain injury. A 152-bed facility, Shepherd Center is ranked among the top 10 rehabilitation hospitals in the nation and proud to employ some of the best and the brightest Occupational and Physical Therapists.

Shepherd Center, Therapy-in-Action

AS A THERAPIST AT SHEPHERD CENTER, YOU WILL BE A PART OF A COMPREHENSIVE REHABILITATION TEAM. IMPATIENT THERAPISTS FOR THE SCI PROGRAM MOST COMMONLY TREAT PATIENTS EARLY IN THEIR REHABILITATION PROCESS FOLLOWING A TRAUMATIC OR NON-TRAUMATIC SPINAL CORD INJURY GUIDING THEM THROUGH THE INITIAL MOBILITY AND ACTIVITIES OF DAILY LIVING PROGRESSORS. WE OFFER SPECIALIZED TEAMS WORKING WITH ADOLESCENT PATIENTS, OLDER CLIENTS, PATIENTS WITH OTHER NEUROLOGICAL IMPAIRMENT SUCH AS GUILLAIN BARRE (GBS), TRANSVERSE MYELITIS (TM), OR LOW RANCHO LEVEL BRAIN INJURIES (BI), AS WELL AS PATIENTS WITH CONCURRENT SCI AND BI INJURIES.

The brain injury program provides therapy services throughout the continuum of care ranging from ICU, inpatient progressive rehabilitation, day program, and outpatient services. As the patients progress, those who are appropriate may continue therapy in day program where they receive comprehensive rehabilitation with an interdisciplinary team, but no longer require 24 hour nursing care.

Outpatient therapy services provide care to patients with a wide range of neurological impairments. As a therapist in OP, you would gain experience working with SCI further down the continuum, people with MS, GBS, and other neurological diagnoses.

Therapists have joined our team with a variety of experiences and backgrounds providing a rich environment in which to work and learn. At Shepherd, you’ll find competitive compensation, a diverse workplace culture, enlightened leadership and professional growth opportunities. Visit our website and apply on-line at Shepherd.org.

ASK US ABOUT OUR PHYSICAL THERAPY NEURO-RESIDENCY PROGRAM!
Visit us at Booth #2003 at the CSM Conference!
OPTIMIZING DOSAGE IN ACUTE CARE AND OUTPATIENT SETTINGS
11:00 am–1:00 pm ICC 243 GR-3B-8912
Joint Program: Acute
Speakers: Brady Whetten, PT, DPT, GCS, Cielita Lopez-Lennon, PT, DPT, NSC

As the percentage of elderly individuals continues to increase, there will be increasing demands placed on the health care system. Physical therapists are in a position to provide quality care for improved functional safety and quality of life. This session will define the importance of appropriate therapeutic exercise prescription for the geriatric population within the acute care and outpatient setting. It will also compare and contrast the interventions within these 2 settings. A primary tenet that will be resolved is the difficulty in establishing the “dosage” or intensity for each area of intervention for each patient. The primary areas that will be discussed are resistance training, endurance training, gait speed, and dual-task tolerance. Theoretical framework for the necessity of intensive training will be given, as well as the evidence-based guidelines for prescription for proper dosage. Specific ideas for intervention will be given through video case studies.

Intermediate

NET: MODEL TO ENGAGE CLIENTS WITH COGNITIVE IMPAIRMENT
3:00 pm–5:00 pm ICC 241 GR-3C-6412
Joint Program: Oncology
Speakers: Jennifer Howanitz, PT, MPT, Kelly O. Carney, PhD, CMC, Alice Donlan, PT, DPT, MBA, Kay Malek, PT, PhD

Neurocognitive engagement therapy (NET) is an innovative patient-centered model for providing rehabilitation services to individuals with cognitive impairment that blends best practices in dementia care with best practices in physical, occupational, and speech therapy. Over the course of the past year, in conjunction with various academic partners, resident and physical therapist outcomes associated with the NET model have been explored—in particular, changes in physical therapists’ knowledge and efficacy as a result of NET training and mentoring. This program also evaluated patient outcomes related to functional improvement, engagement in the therapy process, and overall quality of life. This session will discuss the challenges to effective rehabilitation services for individuals with neurocognitive disorders that motivated the development of the NET model, review the key components of the model itself, and share initial outcome data gathered through our research project.

Intermediate

OSTEOPOROSIS: DRUG THERAPY, NUTRITION, AND EXERCISE
3:00 pm–5:00 pm ICC 243 GR-3C-9744
Speakers: Suzanne L. Tinsley, PT, PhD, Marie Vazquez Morgan, PT, PhD, Sherri Betz, PT, GCS, CEEAA

Many myths and misconceptions exist today about the treatment of osteoporosis. Many patients have questions regarding the best medications to take to treat osteoporosis and about the devastating side effects of these medications. In this session, evidence-based data will be presented to guide participants in helping patients understand the best treatment options for osteoporosis. By having a comprehensive understanding of drug effects, nutrition and specialized therapy programs, the physical therapist can offer more effective rehabilitation programs and recognize the need for referrals and/or rehabilitation team conferences. This session will include a discussion on patient case studies with complex comorbidities (based on the ICF model) to enhance critical thinking skills and offer the optimal interventions for patients with bone loss.

Intermediate

HAND REHABILITATION
ORTHOSSES FOR IMMOBILIZATION
11:00 am–1:00 pm ICC 202 HR-3B-1014
Speaker: Debby Schwartz, OTD, OTR/L, CHT

The art and science of orthotic fabrication requires awareness of the principles of orthotic fabrication, including biomechanical and anatomical principles, selection of the appropriate thermoplastic material, pattern making, and proper fitting and strapping techniques. This session will give special attention to principles of orthotic fabrication and proper selection of low-temperature thermoplastic materials. A short discussion will review common upper extremity diagnoses that are typically treated with orthoses for immobilization. The current evidence on the use of orthoses as a therapeutic intervention will be reviewed. The discussion will also focus on proper handling of materials, pattern making, design, and protocols for wear and client instructions. Participants will observe a demonstration of orthotic fabrication and make a simple orthosis for the thumb and/or digit.

Intermediate
EXAMINATION OF THE PAINFUL WRIST: MORE THAN A “WRIST SPRAIN”
3:00 pm–5:00 pm  ICC 202  HR-3C-9072

Speakers: Mia L. Erickson, PT, EdD, CHT, Carol Waggy, PT, PhD, CHT, Kim Kraft, PT, DPT, CHT, Stacy Hite, PT, DPT, MS, CHT

Patients with wrist pain seek intervention in physical therapy clinics. These patients may seek treatment through self or physician referral. It is important for physical therapists to be able to perform a comprehensive wrist examination to decide whether or not the patient should be treated and/or referred for further diagnostic studies. This session will cover special tests and measures for wrist conditions that should alert the therapist to a significant pathology. These conditions include fractures, instability patterns, and soft tissue injuries. The importance of significant wrist injuries, as well as their consequences will be discussed. This session will also feature a lab component.

Basic

HEALTH POLICY AND ADMINISTRATION

THE POWER OF DATA: ACHIEVING CONSISTENT PATIENT OUTCOMES
8:00 am–10:00 am  W Grand 5  HP-3A-3589

Speakers: Heather Smith, PT, MPH, Dianne V. Jewell, PT, DPT, PhD, Mary Stilphen, PT, DPT

Measurement and reporting quality indicators and patient outcomes can help reduce costs, decrease unwarranted variation in practice, and improve efficiency of operations. Quality measures are increasingly being tied to payment by federal and private payers. The ability to effectively demonstrate your practice outcomes will allow you to maximize your payment potential with a variety of insurers and focus on delivery of patient-centered care. This session will discuss key factors for successful integration of quality and outcome measurements into clinical practice. Presenters from a variety of practice settings, using various data collection strategies, will share their experiences in using data to achieve consistent patient outcomes.

Intermediate

PAYMENT REFORM: AN INNOVATIVE APPROACH TO ADVANCE PHYSICAL THERAPY PRACTICE
8:00 am–10:00 am  W Grand 4  HP-3A-9602

Joint Program: Private Practice

Speakers: Carmen Elliott, MS, Helene Fearon, PT, FAPTA

The Affordable Care Act, combined with state-driven efforts, is transforming the delivery of health care. Likewise, commercial payers have adopted quality based payment methods to reduce costs through payment models that shift a larger percentage of financial risk onto the shoulders of providers. These new payment methods will have a considerable impact on physical therapists now and in the future. This session will provide a progress report on payment reform trends by Medicare and commercial payers to contain costs through bundled payment arrangements and quality initiatives. Most important, this session will focus on APTA’s initiative to implement an alternative payment system transitioning away from traditional fee-for-services payment models and embracing new approaches that emphasize the quality of care.

Basic

WHAT PTs NEED TO KNOW TO AVOID A LAWSUIT
8:00 am–10:00 am  W Grand 1  HP-3A-9861

Speaker: Michael Loughran

The best way to minimize risks of a lawsuit is to carry out 2 common-sense steps immediately after an incident occurs. First, notify your supervisor or practice owner, and, second, request the appropriate incident report form to properly document the event. Incident reports alert administrators in your practice setting to an event that’s outside the facility’s ordinary operations. Each practice setting should have guidelines for the timing and routing of an incident report. This session will focus on why incident reporting policies are important, regardless of your staff size, and how you can use them to defend yourself against a malpractice lawsuit.

Intermediate

IMPROVING ACCESS TO PHYSICAL THERAPY AND MEETING THE NEEDS OF THE NEWLY INSURED
11:00 am–1:00 pm  W Capitol II  HP-3B-2538

Speakers: Robert Sandstrom, PT, PhD, Ira Gorman, PT, PhD

The Affordable Care Act expands access to physical therapy services through commercial insurance plans offered through American Health Benefit Exchanges and the expansion of Medicaid. It is expected that 25 million more Americans will become insured through these insurance programs over the next few years. This session will explore the principles of access to physical therapy, patients who traditionally use physical therapy services, characteristics of the newly insured population, and special challenges to meeting the needs of this new population, such as limited social resources (eg, transportation and economic accessibility), health literacy, and longstanding disparities in access to care.

Basic

CONTINUOUS QUALITY IMPROVEMENT IN PHYSICAL THERAPY
11:00 am–1:00 pm  W Grand 3  HP-3B-9963

Speakers: Jennifer Schmit, PT, DPT, PhD, Mark V. Paterno, PT, PhD, MBA, SCS, ATC

This session will explore the case for improvement science techniques as an effective mechanism to reduce variation in care, honor evidence-based recommendations for intervention in therapeutic practice, and enhance patient outcomes. A focus of the session will be a review of the health care improvement standards established by Institute of Medicine’s Quality Chasm and Institute of Healthcare Improvement’s Triple Aim. This course will summarize the Model for Improvement, an approach developed in order to accelerate improvement within an organization. The model is buttressed by foundational questions that help to focus the scope of improvement work and execution of change using the plan-do-study-act (PDSA) cycle. PDSA cycles will be discussed within the context of 2 case reports. Workshop attendees will participate in the development of mock test cycles and data interpretation in order to evaluate change cycles.

Intermediate
I NEED LEADERSHIP HELP! RESOURCES FOR YOUR LEADERSHIP JOURNEY

11:00 am–1:00 pm   W Grand 4   HP-3B-7337
Speakers: Amelia Arundale, PT, DPT, SCS, Kathy Mairella, PT, DPT, MS, Barney Poole, PT, DPT, Carina Torres, PT, DPT

Everyone has a capacity for leadership. Every PT and PTA has the opportunity to influence the growth of our profession and the APTA Leadership Development Committee is here to help! By identifying your personal leadership style, resources you may use to develop your leadership capacity and related leadership journeys, you will learn how to progress your role as a leader in your work setting, community, and association. Early career professionals are especially encouraged to attend. This course is suitable for all levels of leadership whether you are just beginning your journey or are farther along the trail.

Basic

IMPLEMENTING DIRECT ACCESS AT HOSPITAL-BASED OUTPATIENT CLINICS

3:00 pm–5:00 pm   W Grand 4   HP-3C-6342
Speaker: Aaron Keil, PT, DPT, OCS

Significant legislative gains have been made in the US allowing physical therapists to function in direct access roles. Although direct access is now legal in all states, adoption of this practice privilege appears limited. Physical therapists have indicated 2 common barriers to implementing direct access—concerns over reimbursement and existing institutional policies restricting this privilege. As attention turns toward updating these policies allowing physical therapists to function as first-contact providers, it seems timely to consider additional aspects of the physical therapists’ scope of practice, specifically independent referral for diagnostic imaging studies. This session will describe the steps taken to successfully implement direct access at a large academic medical center that highlights direct referral for radiology and reimbursement data.

Intermediate

SECONDARY DATABASE EVIDENCE: INFORMING PRACTICE AND POLICY

3:00 pm–5:00 pm   W Grand 5   HP-3C-7231
Joint Program: Education, Pediatrics

Speakers: Beth McManus, PT, ScD, MPH, Margaret O’Neil, PT, PhD, MPH, Kristie Bjornson, PT, PhD, PCS, Mary E. Gannotti, PT, PhD

As the Affordable Care Act is fully implemented, pediatric physical therapists will face even greater accountability pressures and reimbursement challenges. Nationally, using health services research methods such as secondary database analyses to answer questions related to cost-effective care is increasing in popularity and necessity. While pediatric physical therapists are familiar with evidenced-based practice, they are often less confident in their knowledge and skills to translate findings from epidemiologic and health services research to actual population-level community-based interventions for young children with disabilities. This session will use a combination of information from large pediatric secondary database analyses and case examples to demonstrate the application of translation science to pediatric physical therapist practice.

Intermediate

PHYSICAL THERAPY STATE LEGISLATURE ISSUES

3:00 pm–5:00 pm   W Grand 1   HP-3C-9796
Speakers: Grace Knott, PT, GCS, Justin Elliott, Angela Chasteen, MPA

State legislatures are the battlegrounds for a plethora of key issues that impact the physical therapy profession. Issues such as term protection for “physical therapy,” direct access to physical therapist services, referral for profit, fair physical therapy copays, and infringement from other providers are just some of the challenges the profession faces at the state level. This session will cover the hottest physical therapy issues being debated in the state legislature across the country and what you can do to make a difference.

Multiple Level

FITNESS SYSTEM TO ADD AT LEAST 100K IN NET REVENUE TO YOUR PRACTICE

3:00 pm–5:00 pm   ICC 205   PP-3C-5657
Joint Program: See Private Practice for more details

HOME HEALTH

PATIENT ENGAGEMENT: OPTIMAL OUTCOMES

8:00 am–10:00 am   ICC 237   HH-3A-7655
Joint Program: Oncology

Speakers: Kenneth L. Miller, PT, DPT, CEEAA, Laurie A. Page, PT, DPT

As the federal government tackles health care delivery costs and redefines the health care system itself, the need for improving patient outcomes becomes critical as reimbursement moves towards a value-based system from the current volume-based system. Health care providers must evolve their practice to meet the value-based mandate where efficiency is paramount. Better outcomes in fewer patient visits will be the gold standard. This session will address how patient engagement is a key ingredient to achieving optimal outcomes. Incorporating the self-determination theory (SDT), the transtheoretical model of change (TTM), and techniques such as health coaching (HC) and motivational interviewing (MI) to get patients to engage in their health behaviors will be explored for use in physical therapy. The session will also discuss how to use the SDT, TTM, HC, and MI methods and gradually increase the accountability for the patient and/or caregiver to choose and make changes in their health behavior on their terms.

Multiple Level

Session handouts are available at www.apta.org/CSM. Use code CSM2015.
**HARMONY: ENSURING THAT YOUR DOCUMENTATION, OASIS, AND CODING ARE COMPATIBLE**

11:00 am–1:00 pm  
ICC 237  
HH-3B-1611

*Speakers:* Arlynn Hansell, PT, HCS-D, HCS-O, COS-C, Cindy Krafft, PT, MS

Agencies continue to be notified of additional development requests (ADRs) surrounding the lack of documentation supporting a plan of care and OASIS. This session will illustrate how proper in-depth documentation will enable comprehensive and correct coding and ensure correct OASIS reviews. OASIS instruction on common difficult M items will be interplayed with audit review commentary. Scenarios will be presented to reflect both correct and incorrect coding and documentation, as well as introduce changes coming in the ICD-10 code set that physical therapists need to be aware of.

Basic

**BEING CONFIDENT WITH MAINTENANCE THERAPY IN THE HOME HEALTH SETTING**

3:00 pm–5:00 pm  
ICC 237  
HH-3C-7479

*Speaker:* Jonathan S. Talbot, PT, MS, COS-C

Clinicians have often been reluctant to provide maintenance therapy services to home health Medicare beneficiaries due to concerns about both perceived and actual coverage denials. Unfortunately, clinicians have operated based upon a mistaken belief that “skilled care” cannot be provided without an expectation of patient progress. The Jimmo v. Sebelius settlement agreement in January 2013 provided much-needed clarification that an improvement standard must not be used as a rule-of-thumb to establish the skilled need for physical therapist services. Armed with this knowledge, clinicians must then understand how to recognize patients who are appropriate to transition from a restorative to a maintenance plan of care. This session will describe how standardized testing and evidence-based practice continue to play a vital role within the framework of maintenance therapy. This session will also prepare physical therapists to efficiently provide maintenance therapy services within an evolving value-based system to help prolong and preserve quality of life for patients with degenerative conditions.

Intermediate

**NEUROLOGY**

**PRACTICE ISSUES FORUM: DOES MEDICARE REALLY COVER MAINTENANCE THERAPY?**

8:00 am–10:00 am  
M Grand Ballroom 2  
NE-3A-5622

*Joint Program:* Health Policy

*Speakers:* Kathryn D. Mitchell, PT, DPT, NCS, Mike Studer, PT, Beth Crowner, PT, DPT, NCS, MPPA, Jennifer Brown, PT, DPT, GCS, Roshunda Drummond-Dye, JD

The final settlement in the class action Improvement Standard lawsuit Jimmo v. Sebelius upheld the right of Medicare beneficiaries to continue to receive reasonable and necessary care to maintain their condition and prevent or slow decline. As a result of the settlement, Medicare intermediaries were directed to update their local coverage determinations, removing language that may have unfairly denied services based on an arbitrary improvement standard. This session will explore all of the issues associated with the improvement standard lawsuit, the settlement, and impact on practice. Clinicians will share real-life examples of how they have managed patients under these updated provisions. There will be opportunity for discussion and sharing of ideas with members of the audience.

Multiple Level

**VESTIBULAR SIG—EVALUATION AND TREATMENT OF VISUAL DYSFUNCTION FOLLOWING CONCUSSION: CONCEPTS FOR VESTIBULAR PHYSICAL THERAPISTS**

8:00 am–10:00 am  
M Grand Ballroom 4  
NE-3A-0568

*Joint Program:* Sports

*Speakers:* Anne Mucha, PT, DPT, MS, NCS, Nathan Steinhafel, MS, OD, FAAO

Concussion is a highly prevalent injury, with estimates as high as 3.8 million injuries occurring annually in the US. Vestibular physical therapists are frequently consulted to intervene in the evaluation and management of concussed individuals who experience dizziness and balance impairment. Physical therapists treating vestibular deficits in persons following concussion must be familiar with screening, gross evaluation, and treatment techniques for common ocular motor pathology. This session will provide the vestibular physical therapist with tools to better understand the role of the visual system in co-management of concussed individuals with vestibular system pathology through demonstration and case presentation. Ocular motor screening and evaluation techniques will be reviewed, along with potential intervention strategies for managing visual system deficits. The roles of optometry, ophthalmology, neuro-ophthalmology, vision therapy, and physical therapy in vision evaluation and treatment will also be discussed.

Intermediate
HIGH-INTENSITY AEROBIC EXERCISE TO ENHANCE PLASTICITY POSTSTROKE
8:00 am–10:00 am  M Grand Ballroom 5  NE-3A-8589

Speakers: Susan M. Linder, PT, DPT, NCS, Jay Alberts, PhD, Anson B. Rosenfeldt, PT, DPT, MBA

There is emerging evidence that aerobic exercise may play a key role in neuroplasticity through the release of brain-derived neurotrophic factor (BDNF), a protein responsible for neuronal survival, differentiation, and growth. In individuals with neurologic disorders, declines in cardiovascular conditioning along with diminished cortical output can prevent them from attaining exercise parameters of sufficient intensity to increase levels of BDNF and realize its potential neurophysiologic benefits. This session will review recent literature relating to aerobic exercise and stroke rehabilitation, describe a randomized controlled trial using a forced exercise (FE) protocol for individuals with stroke, and present the preliminary results investigating high-intensity cycling coupled with upper extremity repetitive task practice (RTP). The presenters also will discuss the translatable of this approach into clinical practice.

Multiple Level

AN EVIDENCE-BASED AQUATIC EXERCISE PROGRAM FOR PATIENTS WITH NEUROLOGICAL DISORDERS
8:00 am–10:00 am  M White River Ballroom C  AQ-3A-9419

Joint Program: See Aquatics for more details

SPINAL CORD INJURY SIG: ASSESSMENT AND MANAGEMENT OF THE OBESE OR OVERWEIGHT PATIENT WITH SPINAL CORD INJURY
11:00 am–1:00 pm  M Grand Ballroom 4  NE-3B-7056

Speakers: Daniel Dale, PT, DPT, Karen Hutchinson, PT, DPT, PhD, SueAnn Sisto, PT, PhD, MA, FACRM, Celia Suber, MS, RD, LD, CNSC

The US population suffers from obesity in increasing numbers. Managing an obese person who then suffers a spinal cord injury or managing a person with spinal cord injury who then becomes obese adds unique challenges in both the clinical and homecare settings. The speakers will explore the multisystem impact of SCI on overall health, and the additional burden of obesity on the development of secondary conditions and functional mobility. We will discuss the determination of an appropriate level of exercise intensity to combat obesity and the development of exercise parameters for engagement in fitness activities. The application of management principles to clinical cases from both the inpatient and outpatient settings will be reviewed. The case series will identify the unique equipment, staffing challenges, and management considerations for the obese patient with spinal cord injury.

Intermediate

BDNF and realize its potential neurophysiologic benefits. This exercise parameters of sufficient intensity to increase levels of BDNF and realize its potential neurophysiologic benefits. This session will review recent literature relating to aerobic exercise and stroke rehabilitation, describe a randomized controlled trial using a forced exercise (FE) protocol for individuals with stroke, and present the preliminary results investigating high-intensity cycling coupled with upper extremity repetitive task practice (RTP). The presenters also will discuss the translatable of this approach into clinical practice.

Multiple Level

DDSIG: USE OF MOBILE HEALTH TECHNOLOGY TO FACILITATE LONG-TERM ENGAGEMENT IN EXERCISE IN PERSONS WITH CHRONIC NEUROLOGICAL CONDITIONS
11:00 am–1:00 pm  M Grand Ballroom 5  NE-3B-5169

Speakers: Terry Ellis, PT, PhD, NCS, Robert Motl, PhD

Persons with chronic neurological conditions, like Parkinson disease, face significant declines in function resulting in greater disability. Function can improve through participation in exercise, yet many people with chronic neurological conditions are physically inactive. Physical therapy is effective in improving function in persons with neurological conditions. However, participation in ongoing physical therapy indefinitely is not a realistic option due to limited health care resources. This session will show how interventions using mobile health technologies allow physical therapists to stay connected to patients over time thereby potentially improving their ability to meet the changing needs of patients with chronic neurological conditions and improve adherence to exercise.

Multiple Level

Session handouts are available at www.apta.org/CSM. Use code CSM2015.
DIFFERENTIAL DIAGNOSIS AND MANAGEMENT OF BRAINSTEM AND CEREBELLAR INFARCTIONS

3:00 pm–5:00 pm    M Grand Ballroom 5    NE-3C-1309
Speakers: Janet O. Helminski, PT, PhD, Janet Callahan, PT, DPT, MS, NCS

Physical therapists are increasingly called upon to evaluate patients in the emergency department and acute settings. The extent to which symptoms associated with lesions involving the vestibular system and brainstem overlap creates a significant diagnostic challenge for therapists. An understanding of the neuropathological correlates and clinical presentations associated with lesions involving these structures is necessary to improve diagnostic accuracy and ensure appropriate care for patients. This session will focus on the process of differential diagnosis of brainstem and cerebellar infarctions and acute vestibular pathology. The presenters will show how brainstem strokes are categorized into different syndromes depending on the vascular territory involved. This session will also cover how the location of the brainstem and cerebellar lesion correlates with the clinical presentation and long-term outcomes. The differential diagnostic process and treatment will be illustrated with the use of cases and digital oculography recordings.

Multiple Level

KNOCKING OUT PARKINSON: A COLLABORATIVE, COMMUNITY-BASED PARTNERSHIP

3:00 pm–5:00 pm    M Grand Ballroom 4    NE-3C-6837
Joint Program: Private Practice
Speakers: Stephanie A. Combs-Miller, PT, PhD, NCS, Jeff Mestrich, PT, DSc, CMPT, ATC, Christine Timberlake, PT, NASM-CPT

This session will describe a novel, collaborative, community-based model that encourages an ongoing, interactive approach between physical therapists and fitness specialists for long-term support and access to services. Implications for physical therapist practice through consultation, referral sources, and direct access will be discussed. An established partnership between physical therapists and Rock Steady Boxing, a community-based fitness program for people with Parkinson disease, will be described to demonstrate the practicality and advantages of the model. This session will include videos and demonstrations to illustrate the established model, recommendations for implementing this model in one’s own setting, and an interactive discussion with participants about their own experiences working with community-based fitness programs for people with disability.

Multiple Level

ONCOLOGY

HEAD AND NECK CANCER EDGE: OUTCOME MEASURES FOR THE.shoulder, Neck, TMJ, AND LYMPHEDEMA

8:00 am–10:00 am    ICC 232    ON-3A-1257
Speakers: Melissa M. Eden, PT, DPT, OCS, Ann Marie Flores, PT, PhD, CLT, Mary Lou Galantino, PT, PhD, MSCE, Bryan A. Spinelli, PT, MS, OCS, CLT-LANA

The head and neck cancer (HNC) patient population commonly experiences problems amenable to physical rehabilitation. Reliable and valid outcome measures are essential for rehabilitation specialists to accurately assess, monitor, and document change in status. The Oncology Section EDGE Task Force on Head and Neck Cancer Outcomes has completed a series of systematic reviews of the literature to provide rehabilitation specialists with evidence-based recommendations for appropriate outcome measures for use with patients with HNC. Specifically, the presenters will address limitations related to the shoulder, neck, temporomandibular joint, and lymphedema. This session will highlight the activities and recommendations of the task force and provide suggestions for future research.

Multiple Level

EVERY PATIENT HAS SKIN: HOW TO HELP THEM KEEP IT

8:00 am–10:00 am    ICC 120    CE-3A-0241
Joint Program: See Clinical Electrophysiology for more details

LAUGH AND LIVE LONGER!

11:00 am–1:00 pm    ICC 232    ON-3B-4330
Joint Program: Cardiopulmonary
Speaker: Joanne Watchie, PT, CCS

This session will address the physiological and psychological responses to laughter, the characteristics of healthy humor, research findings that support the therapeutic benefits of laughter and humor in physical rehabilitation, methods of improving humor skills, and increasing the amount of laughter in life.

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THE USE OF HIGH-VOLTAGE PULSED CURRENT FOR TREATING SECONDARY LYPHEDEMA AND LYPHEDEMA SIG MEETING
11:00 am–1:00 pm ICC 234 ON-3B-9551
Joint Program: Women’s Health, Clinical Electrophysiology
Speakers: Lisa VanHoose, PT, PhD, CLT-LANA, Mary Calys, PT, DPT, Gabriela Montero

Lymphedema is a chronic and progressive edematous condition. Therapeutic modalities can be used to address the sequelae associated with the chronic edemas. Low-level laser therapy has been cleared by the US Food and Drug Administration for the treatment of lymphedema. Evidence also exists for the use of thermal and nonthermal ultrasound for edematous conditions. High-voltage pulsed current (HVPC) is an electrotherapy modality with the ability to decrease edema, due to its physiological effect on the permeability of the capillary vessel. Recently, therapeutic taping techniques have been introduced as novel treatment for lymphedema. This session will discuss the physiological theories that refute and support various therapeutic modalities as treatment options for secondary lymphedema and other lymphatic failures. Parameters and treatment modifications will be discussed based on current literature and patient scenarios.

Intermediate

I HAVE ARTHRITIS … IS MY RUNNING CAREER OVER? EVIDENCE-BASED MANAGEMENT OF THE RUNNER WITH OSTEOARTHRITIS
8:00 am–10:00 am ICC 500 Ballroom OR-3A-1180
Speakers: Leigh-Ann A. Plack, PT, DPT, Michael Silverman, PT, MSPT

Running produces many health benefits. Unfortunately, there is a common misbelief that running can cause osteoarthritis, which may deter many individuals from running as they age. This session will examine the current evidence on running and its relationship to osteoarthritis in the hip and knee. Multiple strategies will be examined to mitigate the risks, optimize the benefits of running, and maximize techniques and strategies for treatment and management of osteoarthritis. Discussion of current concepts and the management of osteoarthritis including their application to case studies will enhance the participants’ knowledge and understanding of the runner with osteoarthritis.

Multiple Level

DYNAMIC NEUROMUSCULAR STABILIZATION IN SPINAL REHABILITATION AND PERFORMANCE
8:00 am–10:00 am ICC Wabash Ballroom 1 OR-3A-9545
Speakers: Mark D. Sleeper, PhD, Clare Frank, PT, DPT, MS, OCS, FAAOMPT

During the 20th century the founders of the Prague School of Manual Medicine proposed a functional approach to understanding musculoskeletal pain syndromes, focusing on the interdependence between the central nervous system and sensorimotor system. The Prague School’s approach has influenced many of our current models of functional rehabilitation. This session will introduce the Prague School’s functional approach to musculoskeletal pain syndromes with particular focus on the dynamic neuromuscular stabilization (DNS) approach. Participants will hear more about this cutting-edge tool of intervention that is based on a developmental kinesiology perspective. A video of a functional movement evaluation of a performing artist will be shown. Active exercises based on developmental kinesiological positions will be demonstrated along with various corrective strategies.

Basic

NET: MODEL TO ENGAGE CLIENTS WITH COGNITIVE IMPAIRMENT
3:00 pm–5:00 pm ICC 241 GR-3C-6412
Joint Program: See Geriatrics for more details

ORTHOPAEDICS

DESIGNING AN EFFECTIVE THERAPEUTIC EXERCISE PROGRAM FOR CANINE CLIENTS
8:00 am–10:00 am ICC 107 OR-3A-5715
Speaker: Lisa G. Bedenbaugh, PT, CCRP

Therapeutic exercise is an integral component of a physical rehabilitation program for any client population. A well-designed exercise prescription can enhance muscle strength, improve neuromuscular control, increase flexibility, and improve functional mobility. It is important for the clinician to be able to design a comprehensive plan of care to specifically address any deficits identified during evaluation of the canine client. An added challenge in the canine population is the inability to give verbal instruction to the patient, so an exercise prescription has to be very functional, and the clinician needs to have a good understanding of how to motivate the canine client to perform the exercises correctly in order to achieve desired results. This session will give participants an understanding of how and when to progress exercise programs to achieve desired outcomes that are essential for physical therapist practice in canine rehabilitation.

Intermediate
CURRENT CONCEPTS IN SCAPULA STABILIZATION: IS IT TIME TO MOVE ON?
11:00 am–1:00 pm ICC 500 Ballroom OR-3B-6382
Speakers: John Borstad, PT, PhD, Kevin McQuade, PT, PhD, MPH, Anamaria S. Oliveira, PT, PhD

Scapula stabilization exercises remain fundamental to shoulder rehabilitation, yet many constructs related to scapula stability remain unknown. While the presence of scapula dyskinesis suggests loss of stability, no direct relationships among scapula dyskinesis, scapula stability and shoulder pathology have been established. This session will present a fresh and perhaps controversial perspective to the concept of scapula stability. The speakers will present several key questions covering the definition of scapula stability, loss of scapula stability through injury or return of stability with treatment, and the role of increased scapulothoracic muscle strength in scapular stability. The presenters will offer definitions and theories from other disciplines to evaluate the idea of scapula stability, use current evidence to challenge existing paradigms, consider historical practice patterns that may inform our current clinical approaches, and challenge attendees to reflect on their biases.

Advanced

FOOT ORTHOTICS: THE USE OF ADHESIVE STRAPPING TO DETERMINE EFFICACY AND PRESCRIPTION
11:00 am–1:00 pm ICC 107 OR-3B-9226
Speakers: Thomas G. McPoil, PT, PhD, FAPTA, Mark W. Cornwall, PT, PhD, FAPTA

Substantial evidence indicates that increased foot pronation can be a factor in the development of overuse lower extremity and foot injuries. The key question for the clinician is whether controlling foot mobility will lead to a reduction in the patient's pain and symptoms and improve functional levels of activity. This session will provide a review of the current literature on excessive foot mobility as a factor in overuse injuries in the lower extremity and foot. It also will present evidence that supports the treatment direction test (TDT) using adhesive tape to determine if foot orthoses should be considered as a treatment intervention. Finally, the presenters will discuss the current evidence which supports the use of the change in foot position created by the adhesive tape to guide the amount of posting of the foot orthosis.

Intermediate

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Dry Needling and Neurodynamics Within a Clinical Reasoning Model

11:00 am–1:00 pm   ICC Wabash Ballroom 1   OR-3B-8288

Speakers: Joseph M. Donnelly, PT, DHS, Beth Collier, PT, DPT, Margaret M. Gebhardt, PT, DPT

Often, when a patient's pain complaints are unexplainable, treatment becomes haphazard. Clinical reasoning gives physical therapists the framework in which to understand a patient's complex complaints and an ability to identify the best course of treatment strategies within their own skill set. Understanding how we can use a clinical reasoning structure to diagnose complex pain, and how to appropriately incorporate manual therapy techniques such as dry needling and neurodynamics will improve clinical outcomes and efficiency. This session will focus on the application of clinical reasoning in the management of the complex pain patient with integration of dry needling and neurodynamic manual therapy techniques. Emphasis will be placed on diagnostic and management strategies to most effectively and efficiently direct patient outcomes.

Intermediate

Current Evidence for the Management of Lower Extremity Tendinopathies

3:00 pm–5:00 pm   ICC 500 Ballroom   OR-3C-3187

Speakers: R. Barry Dale, PhD, Craig R. Denegar, PT, PhD, ATC, FNATA, Jeremiah Tate, PT, PhD, Gary B. Wilkerson, EdD, ATC

Tendinopathies have gained considerable attention in the last several years. The emergence of numerous examination and intervention strategies will leave the physical therapist with choices to make regarding examination and treatment. This session will review the latest evidence regarding the pathophysiology of tendinopathy and the best management strategies currently available to address impairments of the posterior tibials, triceps surae, and patellar tendons. Technology will be incorporated to facilitate interaction between participants and the presenters.

Intermediate

Upper Quarter Movement Analysis: Can You See It Now?

3:00 pm–5:00 pm   ICC 107   OR-3C-0245

Speakers: Skulpan Asavasopon, PT, OCS, FAAOMPT, Jason Tonley, PT, DPT, OCS

Restoration of normal movement is the fundamental skill that sets physical therapy apart from any other profession. In order to determine how to restore optimal movement patterns, proficiency in the diagnosis of movement impairments is essential. This involves the skill of motion analysis and identification of faulty movement patterns; linking movement faults to physical impairments; and prioritizing the treatment of these impairments to achieve optimal outcomes. This session will discuss the most common faulty movement patterns of the upper quarter ranging from musculoskeletal pain associated with reaching and throwing to shoulder and/or neck pain that worsens by the end of the day. Functional relationships of the upper quarter will be presented in such a way that they can be applied in clinical practice immediately. Clinical cases will be presented to highlight the skills and clinical patterns needed to reason through select patients with musculoskeletal pain of the upper quarter. The key elements of tissue source, tissue stresses, and pathomechanics will be strongly emphasized as key ingredients to a large component of a physical therapy diagnosis.

Multiple Level

Movement System Diagnosis and Management of Shoulder Conditions

3:00 pm–5:00 pm   ICC Wabash Ballroom 1   OR-3C-9629

Speakers: Barbara J. Norton, PT, PhD, FAPTA, Joseph Godges, PT, DPT, MA, OCS, Paula M. Ludewig, PT, PhD, Phillip McClure, PT, PhD, FAPTA, Shirley A. Sahrmann, PT, PhD, FAPTA

One of the guiding principles for achieving APTA's new vision refers to the importance of affirming the physical therapy profession's responsibility to evaluate and manage the movement system in patients and clients. Before we can decide on appropriate management strategies, we first must be able to diagnose the conditions of the movement system that are within the scope of our practice. The Orthopaedic Section has been developing clinical practice guidelines within an ICF framework. In the guidelines, a framework for evaluation and recommendations regarding management strategies based on the best evidence currently available are presented. For the shoulder region, the guidelines focus on 3 large categories of most the prevalent disorders. However, one of the planned guidelines addresses a popular diagnostic category, “shoulder impingement,” the relevance of which is being challenged and debated. Questions remain among physical therapists and physicians about the appropriateness of many diagnostic labels and the level of specificity that is necessary and sufficient to appropriately guide treatment selection, particularly for rehabilitation. This session will provide background on several approaches for classifying movement system conditions and will use a case-based approach for presenting clusters of movement impairments that may represent useful diagnostic categories. Collegial discussion with audience members will address advantages and disadvantages of proposed diagnostic labels and classification approaches.

Intermediate

Pediatrics

Dianne Cherry Forum: Integration of the Essential Competencies

8:00 am–10:00 am   M Grand Ballroom 6   PD-3A-9351

Speakers: Donna Cech, PT, DHS, PCS, Andrew T. Haverstock, PT

This session will focus on learning strategies to integrate the pediatric essential competencies that emerged from the Section on Pediatrics Education Summit into both the didactic and clinical curriculum. Specifically, implementation of the essential competencies in various curricular models and evaluating
standalone courses versus an integrated approach will be presented. In addition, clinical educators will discuss advantages and disadvantages of embedding early pediatric clinical experiences into the curriculum to meet the essential core competencies. Assessment of student outcomes related to the integration of the essential competencies into the curriculum will be explored.

**Intermediate**

**NEUROPLASTICITY IN THE INFANT BRAIN, PART 1: STRUCTURE AND FUNCTION**

8:00 am–10:00 am  M Grand Ballroom 7  PD-3A-6014

**Speaker:** Colleen Peyton, PT, DPT, PCS

This session will link brain structure to function of the infant. It will explore the age-dependent maturation of the infant nervous system and explore how experience and activity shape the brain, beginning with the first human movements of the fetus to the intentional motor behavior seen in the first year of life. The session will describe the current evidence and concepts surrounding implications of neuroplasticity in the young brain in the intact nervous system.

**Multiple Level**

**DoSES: DETERMINING APPROPRIATE SERVICE RECOMMENDATIONS FOR SCHOOL PHYSICAL THERAPY**

8:00 am–10:00 am  M Grand Ballroom 9  PD-3A-2586

**Speakers:** Dawn James, PT, DPT, PCS, Tanya Grabinski, PT, DPT, MHS, PCS, Laura N. Phillips, PT, DPT

This session will describe the development and use of a clinical reasoning model designed for determining the appropriate dosage of educationally related physical therapist services. The session will explore the multiple considerations that guide the clinical reasoning process of school-based physical therapists as they establish dosage recommendations and will include case studies that demonstrate the use of the DoSES Model within practice.

**Intermediate**

**NEUROPLASTICITY IN THE INFANT BRAIN, PART 2: RESEARCH AND TREATMENT**

11:00 am–1:00 pm  M Grand Ballroom 7  PD-3B-6017

**Speaker:** Colleen Peyton, PT, DPT, PCS

Part 2 of this session will explore neuroplasticity in the young infant with brain injury. Typical mechanisms for motor neuroplasticity can actually work as a maladaptive adaptation to brain injury in the young infant. The presenter will outline and review the current research involving nervous system development in infants with brain injuries. This session will also cover treatment strategies designed to optimize recovery and harness the positive effects of neuroplasticity.

**Multiple Level**

**TREATING THE YOUNG ATHLETE: EXERCISE PRESCRIPTION AND PERFORMANCE ENHANCEMENT**

11:00 am–1:00 pm  M Grand Ballroom 6  PD-3B-1761

**Speaker:** Gabriel P. Brooks, PT, DPT, MTC

The young athlete requires sport-specific strength and motor control to achieve performance targets and reduce the risk of injury in sport. This session will provide new evidence to achieve peak performance both in the clinic and on the field. Strategies will be presented for evaluating your athlete and deploying activities that improve performance both in physical therapy and in sport.

**Intermediate**

**POSTURAL MANAGEMENT FOR IMPROVED MUSCULOSKELETAL FUNCTION AND ACTIVITY**

11:00 am–1:00 pm  M Grand Ballroom 9  PD-3B-6606

**Speakers:** Ginny Paleg, PT, DScPT, MPT, Elisabet Rodby-Bousquet, PhD

Children with cerebral palsy (CP) and other forms of motor impairments that result in the inability to walk and transition between positions often experience progressive musculoskeletal deformity. Emerging evidence suggests that these sequelae can be reduced and/or prevented through continuous postural management. This session will review evidence for sitting, standing, lying, and activity to decrease hip dislocation, scoliosis, and contracture. Data will be presented from the Swedish health care program and CP registry (CPUP) including dramatic results that show that hip dislocation can be eradicated while contractures and scoliosis are significantly reduced.

**Advanced**

**FITNESS, BALANCE, AND MOBILITY IN ADULTS WITH LIFELONG DISABILITY**

3:00 pm–5:00 pm  M Grand Ballroom 7  PD-3C-2297

**Speakers:** Joyce R. Maring, PT, DPT, EdD, Margo N. Orlin, PT, PhD, Ellen Costello, PT, PhD, Jeanette Mangano, PT, DPT

According to the US Census Bureau, the number of children and young people with disability surviving into adulthood is increasing. Physical therapists in all practice settings are positioned to provide age-related care for adults with lifelong disability (LLD) seeking to live independently within their community. Practitioners face complex challenges in meeting those needs, including a lack of valid and reliable instruments available to assess risk for adverse outcomes for populations without disabilities and the need to consider the effect of aging on chronic conditions when designing interventions. Presenters will discuss the interaction of aging-related health issues with LLD, including falls risk. Pilot work validating tools to assess balance, fitness, and function in aging adults with LLD will be presented. Through the use of case studies, participants will problem solve the appropriate physical therapist examinations and propose interventions related to the examination findings in order to provide the best care, maintain independence, and avoid adverse outcomes in aging adults with LLD.

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SPINAL MUSCULAR ATROPHY: EVIDENCE-BASED EVALUATION AND MANAGEMENT
3:00 pm–5:00 pm  M Grand Ballroom 9  PD-3C-6292
Speakers: Matthew Civitello, PT, MPT, Sally Dunaway, PT, DPT, Richard Gee, PT, MPT, Allan M. Glanzman, PT, Jacqueline Montes, PT, Amy E. Pasternak, PT, Janet Quigley, PT, PCS, Rachel Salazer, PT, DPT, Jenna Turner, PT

This session will provide clinicians with an update on evaluation and management of individuals with spinal muscular atrophy (SMA). Clinicians involved in SMA-specific nationwide networks will review the natural history of the disease across all ages and severities, provide information on disease specific functional motor outcome measures and their utilities across all service delivery settings, discuss consensus-based recommendations regarding the role of physical therapy in the management of SMA including exercise and assistive and adaptive equipment. Opportunities will be provided for practice of scoring and interpretation of functional motor outcome measures via video technology.

Multiple Level

OPTIMIZING THERAPEUTIC INTERVENTION FOR YOUNG INFANTS
3:00 pm–5:00 pm  M White River Ballroom F  PD-3C-9078
Speakers: Barbara Sargent, PT, PhD, PCS, Susan V. Duff, PT, EdD, OTR/L, CHT

Participation in early intervention is considered to be essential for infants at risk for movement dysfunction to achieve optimal functional outcomes. This session will present a framework for designing an evidence-based therapeutic program for young infants by supporting the development of exploratory learning strategies, skill acquisition, and capacity. Recent research will be discussed with an emphasis on techniques to foster exploratory strategies, skill acquisition, and capacity. Opportunities will be provided for practice of scoring and interpretation of functional motor outcome measures via video technology.

Multiple Level

SECONDARY DATABASE EVIDENCE: INFORMING PRACTICE AND POLICY
3:00 pm–5:00 pm  W Grand 5  HP-3C-7231
Joint Program: See Health Policy for more details

PRIVATE PRACTICE

LOOKING OUTSIDE HEALTH CARE TO TEACH PHYSICAL THERAPY BUSINESS PRACTICE
8:00 am–10:00 am  ICC 205  PP-3A-3084
Speakers: Zoher Kapasi, PT, PhD, MBA, Beth P. Davis, PT, DPT, MBA

One focus of APTA “Beyond Vision 2020” is the exploration of opportunities and roles for the physical therapy profession as we aim to meet the needs of society in the current health care environment. Physical therapists can benefit from understanding certain business concepts and can learn from other industries that have successfully navigated similar business challenges. Analyzing business practices in other industries can be incorporated in private practices and entry-level DPT curriculum to better prepare employees and graduates with the entrepreneurial mindset needed to establish and deliver new roles and services. The presenters used case-based analysis from Harvard Business School cases to teach business skills and expose physical therapist students to business practices in other industries. This session will describe how the case-based analysis of Harvard Business School cases can be implemented to teach business disciplines and promote innovative thinking in private practice employees and DPT students.

Multiple Level

WHAT ARE YOUR PURPLE COWS? FINDING YOUR DIFFERENTIATOR
11:00 am–1:00 pm  ICC 205  PP-3B-2153
Speaker: Dennis Bush, PA, MHA

What makes you different from all the other rehab providers in your community? What are the strategies and tactics you are implementing daily to stand out in an already crowded market? What are your therapists, practice liaisons, front office staff, and social media coordinators doing differently to attract the attention of your direct referral sources, increase patient referrals, and create opportunities for memorable moments? This session will take participants through innovative thinking around implementing creative ways to expose your brand to increase loyal patient volumes and support business goals. The concept of purple cows is based on the notion that the only way to stand out from the crowd is to look, act, smell, taste, feel, and perform differently from the crowd. This session will center on the development of a Purple Cow Work Group whose sole purpose is to identify creative, business differentiators and then deploy these ideas throughout the organization. The session will include a 15-minute, unheared brainstorming session to demonstrate how a Purple Cow Work Group can create unbelievable ideas in a very short period of time.

Intermediate

FITNESS SYSTEM TO ADD AT LEAST $100K IN NET REVENUE TO YOUR PRACTICE
3:00 pm–5:00 pm  ICC 205  PP-3C-5657
Joint Program: Health Policy and Administration
Speaker: Steve Young, PT, DPT

This session will explain how to implement the ideal personal fitness program into a physical therapy practice and generate at least 100K net revenues a year within existing facility space. Participants will hear how to set up lead generators to get potential clients knocking on the door automatically and how to convert them to be clients. Each attendee will receive ideas as well as action items to set this system up immediately.

Intermediate
RESEARCH

LARGE DATASETS AND SECONDARY DATA ANALYSIS: RELEVANCE FOR PHYSICAL THERAPISTS
8:00 am–10:00 am M White River Ballroom G RE-3A-1859
Speakers: Meghan Warren, PT, PhD, MPH, Hendrik de Heer, PhD, MPH
This session will introduce big data and explore the relevance to physical therapy. It will start by describing the recent developments that have driven the role of big data in health care. Drawing upon a study of a Medicare dataset analyzed by the presenters, it will provide a step-by-step overview of the process of secondary data analysis of a large national database. Topics range from formulating the appropriate research question to acquiring the data, security issues, data analysis considerations, and disseminating the findings. The use of data collected as part of clinical practice will be discussed to allow application of the concepts of big data to clinical practice. Finally, presenters will discuss future important research questions that can be addressed with large national databases and have relevance for physical therapy.
Intermediate

WRITING WITH THE EDITORS
8:00 am–10:00 am M 102 RE-3A-9750
Joint Program: Education
Speakers: Rebecca L. Craik, PT, PhD, Daniel Riddle, PT, PhD, FAPTA, Kathy Gill-Body, PT, DPT, NCS, FAPTA, Philip J. van der Wees, PT, PhD, Chris J. Main, PhD, FBPTSS, Steven Z. George, PT, PhD, Terese L. Chmielewski, PT, PhD, SCS
PTJ’s editorial board members know publication inside and out—both as editors and as authors who have had their own share of accepts and rejections. During the first half of this session, moderators will quiz the editors about everything you need to know, including trial registration, study participant flowcharts, data analysis, and informed consent. During the second half of the session, participants will break into small groups, each including an editor, with interactions geared for authors who plan to submit a paper to a journal or who have questions about writing, submitting, and revising.
Multiple Level

5 + GRADE + 5 = SOLID CLINICAL REASONING FOR GUIDELINE IMPLEMENTATION
11:00 am–1:00 pm M White River Ballroom G RE-3B-3207
Speakers: Tricia Austin, PT, PhD, ATC, Randy R. Richter, PT, PhD, Chris Sebelski, PT, DPT, OCS, CSCS
Published clinical practice guidelines related to physical therapy and rehabilitation have increased nearly 3-fold since 2000. Well-conducted guidelines synthesize information and may address the challenge of time and efficiency in clinical practice. This session will demonstrate a systematic approach to using guidelines in clinical practice, including a 5-minute strategy to search for guidelines from PTNow, PEDro (Physiotherapy Evidence Database), PubMed/MEDLINE, and guideline.gov; a relatively new approach, GRADE (Grading of Recommendations Assessment, Development and Evaluation), to understand guideline development; and 5 minutes to conduct an initial appraisal. Strengths and weaknesses of GRADE and links between GRADE and the AGREE II instrument will also be made. Guidelines across patient populations and types of care will be used to illustrate the 5-minute approach for searching, GRADE considerations, and the 5-minute initial appraisal.

NUTS AND BOLTS OF QUALITATIVE RESEARCH
11:00 am–1:00 pm M 101 RE-3B-8891
Speakers: Sarah H. Kagan, PhD, RN, Kamila Alexander, PhD, MPH, RN
Designed especially for investigators who have minimal experience with the naturalistic paradigm, this session will help you implement qualitative research methods (QRM). Using an interactive format, 2 experienced qualitative methodologists explore the naturalistic, qualitative paradigm to highlight the differences in assumptions, approach, and operations from quantitative research. Key features including inductive thought and the roles of philosophy and theory will be discussed in detail. Means to avoid common pitfalls—such as “no name” qualitative research reporting, borrowing data collection, and analytic techniques in studies that create a jumbled method--are explored through case examples. The session will use critical questions and exemplars to foster exchange with participants about experiences with QRM, challenges and questions in their use, and access to resources for the design, conduct, and dissemination of qualitative studies.
Basic

RESEARCH FUNDING SYMPOSIUM
11:00 am–1:00 pm M 102 RE-3B-9256
Joint Program: Education
Speakers: David Scalzitti, PT, PhD, OCS, Mary Rodgers, PT, PhD, FASB, FAPTA
This session will provide an overview of several federal agencies, institutes, and centers that support funding for rehabilitation research. The speakers will discuss information on extramural research programs, current research interests and initiatives, and opportunities for training and career development. A panel discussion will include representatives from the National Institutes of Health (NIH) and other federal agencies. One-on-one discussions will also be available.
Intermediate

REHABILITATION TECHNOLOGY: FRIEND OR FOE?
3:00 pm–5:00 pm M White River Ballroom G RE-3C-9064
Speakers: James C. Galloway, PT, PhD, Julius P. Dewald, PT, PhD, Pamela W. Duncan, PT, PhD, FAHA, FAPTA
The availability of technology for use in rehabilitation has significantly increased over the past 20 years. That increase has been accompanied by both rising prices and substantial pressure...
for rehabilitation facilities to offer the latest and greatest treatment technology. For researchers, this pressure translates to greater research costs at a time when external funding is challenging. Researchers at facilities with high-tech devices may also feel pressured to design studies with the devices once the investment is made rather than choosing equipment that best matches their research questions. In this debate-style session, the presenters will argue either for high-tech treatments or for low-tech treatments, and may even agree with each other on some technology. Leave your minds open to listen, think, and learn.

**SPORTS PHYSICAL THERAPY**

**INTEGRATION OF STEM WITH PHYSICAL THERAPY: THE FUTURE OF SPORTS MEDICINE**

8:00 am–10:00 am  ICC Sagamore Ballroom 5  SP-3A-5355

**Speakers:** Matthew Sremsa, PT, DPT, Christopher Powers, PT, PhD, David Logerstedt, PT, PhD, MA, SCS, Eric Nauman, PhD, Paul Mitalski, MS, Kyle Ridgeway, PT, DPT

This session is designed for the physical therapist (PT) interested in innovative best practice models for sports performance and sports medicine. The presenters will illustrate how interprofessional collaboration between physical therapists and scientists, engineers, and mathematicians can advance the quality of care provided to athletes and redefine the professional role of physical therapists in sports medicine. Examples of how technology can directly impact the decision making needed for efficient quality care by sports medicine physical therapists will be provided. The biomechanical models developed by physical therapists, engineers, and mathematicians to establish return-to-sport and evaluation protocols will be presented in a case format highlighting complicated sports medicine issues. This presentation will provide unique insight to the future of sports performance and sports medicine with the physical therapist in a leadership role.

**THE FEMALE TRIATHLETE: CONSIDERATIONS ACROSS THE LIFE SPAN**

8:00 am–10:00 am  ICC Sagamore Ballroom 4  SP-3A-7750

**Joint Program:** Women’s Health

**Speakers:** Shefali M. Christopher, PT, DPT, SCS, LAT, ATC, Janice Loudon, PT, PhD, SCS, ATC, CSCS, Teresa Schuemann, PT, DPT, SCS, ATC, CSCS, Jill Thein-Nissenbaum, PT, DSc, ATC, SCS

As the popularity of triathlons has grown, so has the participation of the female athlete. Women are now competing in high school as well as late into their careers, as Harriet Bruder did this past year at age 77. With this, physical therapists face a different set of challenges such as overtraining, the female athlete triad, equipment modifications, and strengthening for the prenatal athlete and injury considerations for the postpartum athlete and the geriatric athlete. This session will explore issues specifically related to the female triathlete and aim to equip each physical therapist with the tools to address the needs of these athletes.

**PEARLS FOR PROBLEM SOLVING THE TOUGH ONES**

8:00 am–10:00 am  ICC Sagamore Ballroom 2  SP-3A-2915

**Speakers:** Sue Falsone, PT, MS, SCS, ATC, CSCS, COMT, Walter L. Jenkins, PT, DHS, ATC, Terry R. Malone, PT, EdD, ATC, FAPTA, Robert C. Manske, PT, DPT, Tim Tyler, PT, MS, ATC, Robert Panariello, PT, MS, ATC, CSCS, Mike Rosenthal, PT, DSc, SCS, ECS, ATC

This session will provide clinical pearls that participants may use to address specific patient presentations when traditional approaches have not provided patient progression. Some of these conditions may be described as “the tough ones” that all clinicians struggle to provide optimal outcomes. Experienced clinicians will share and demonstrate manual and therapeutic exercise techniques they have used when clinical challenges arise. It is designed for the experienced therapist wishing to gain a pearl or two.

**CRASH, BANG, BOOM: INJURIES AND REHABILITATION OF CONTACT AND TACTICAL ATHLETES**

11:00 am–1:00 pm  ICC Sagamore Ballroom 5  SP-3B-5527

**Joint Program:** Federal

**Speakers:** Marisa Pontillo, PT, DPT, SCS, Daniel Lorenz, PT, DPT, ATC/L, CSCS, USAW, Mike Rosenthal, PT, DSc, SCS, ECS, ATC, James Voos, MD

Tactical athletes experience frequent injuries as a result of highly intensive occupational demands, which are vastly different from those of other athletes. As rehabilitation specialists, physical therapists are required to understand the unique set of biomechanical demands that these athletes face. This session will examine the incidence and prevalence of common injuries in contact and tactical athletes, the clinical presentation and differential diagnosis of these conditions, and the sport-specific rehabilitation for these athletes after upper and lower extremity injuries.

**UNDERSTANDING THE UNIQUE MANAGEMENT APPROACH TO CONCUSSIONS IN FEMALE ATHLETES**

11:00 am–1:00 pm  ICC Sagamore Ballroom 4  SP-3B-6927

**Joint Program:** Women’s Health

**Speakers:** Carol M. Ferkovic, PT, DPT, E. Scott Euype, PT, DPT, MHS, OCS, Teresa Schuemann, PT, DPT, SCS, ATC, CSCS

Recent data has shown that female athletes have a higher incidence of sports-related concussions as compared to men in similar sports. Female athletes also have been shown to have a greater length in postconcussion symptoms as compared to male athletes, which may cause challenges for their rehabilitation. This session will describe special considerations for the acute management of concussion in female athletes. Treatment of concussion symptoms in the female athlete by the sports physical therapist will also be discussed, emphasizing the cervical spine and vestibular rehabilitation, as well as determination of return to play. The speakers will provide an in-depth review of the literature with consideration to proposed risks and management of concussions in female athletes.

**APPROACH TO CONCUSSIONS IN FEMALE ATHLETES**

11:00 am–1:00 pm  ICC Sagamore Ballroom 5  SP-3B-5527

**Joint Program:** Women’s Health

**Speakers:** Carol M. Ferkovic, PT, DPT, E. Scott Euype, PT, DPT, MHS, OCS, Teresa Schuemann, PT, DPT, SCS, ATC, CSCS

Recent data has shown that female athletes have a higher incidence of sports-related concussions as compared to men in similar sports. Female athletes also have been shown to have a greater length in postconcussion symptoms as compared to male athletes, which may cause challenges for their rehabilitation. This session will describe special considerations for the acute management of concussion in female athletes. Treatment of concussion symptoms in the female athlete by the sports physical therapist will also be discussed, emphasizing the cervical spine and vestibular rehabilitation, as well as determination of return to play. The speakers will provide an in-depth review of the literature with consideration to proposed risks and management of concussions in female athletes.

**Intermediate**
**SOCRATIC DEBATE ON ROTATOR CUFF REHABILITATION: EARLY (ACCELERATED) VERSUS DELAYED (DECELERATED) PROGRAMS**

*11:00 am–1:00 pm ICC Sagamore Ballroom 2 SP-3B-7545*

**Speakers:** George J. Davies, PT, DPT, SCS, ATC, CSCS, FAPTA, Kevin E. Wilk, PT, DPT

This session will be a Socratic debate comparing early (accelerated) and delayed (decelerated) programs. A case presentation illustrating a surgical procedure that requires an early rehabilitation program along with the evidence to support the techniques will be discussed. A second case presentation and the surgical procedure will be illustrated along with the rationale to support the delayed program.

**Multiple Level**

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**GREATER TROCHANTERIC PAIN SYNDROME: ANTALGIC HIPS IN AN ACTIVE POPULATION WITH ATHLETIC ASPIRATIONS**

*3:00 pm–5:00 pm ICC Sagamore Ballroom 4 SP-3C-8832*

**Speakers:** Edward P. Mulligan, PT, DPT, OCS, SCS, Blair Bundy, PT, DPT, CSCS

This session will provide a current concepts overview of the management of extra-articular pain syndromes that affect the lateral hip region in an active, athletic population. The session will highlight examination techniques, differential diagnostic strategies, and treatment perspectives specific to the underlying pathology or operative intervention. Emerging evidence deemphasizing the focus on bursal inflammation and drawing corollaries between shoulder and hip rotator cuff dysfunction will be highlighted. Ongoing studies evaluating the value of soft tissue mobilization and the algorithmic approach to diagnostic testing will be discussed. The participant will leave the presentation with an evidence-based approach that will help in providing treatment(s) to maximize outcomes, ensure safe resumption of sporting activities, and detect prognostic factors that impact terminal expectations.

**Intermediate**

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**A KINETIC CHAIN APPROACH TO THE OVERHEAD THROWING ATHLETE**

*3:00 pm–5:00 pm ICC Sagamore Ballroom 5 SP-3C-1146*

**Speakers:** Drew T. Jenk, PT, DPT, Michael P. Reiman, PT, DPT, OCS, SCS, John DeWitt, PT, DPT, SCS, ATC, Luis A. Feigenbaum, PT, DPT, SCS, ATC, LAT, CSCS

This session will provide in-depth information on the kinetic chain and kinematic sequence associated with the baseball throw. It will examine the influence that the foot and ankle, hip, spine, and scapulae play during the throwing motion. The presenters will discuss the specific mobility and stability that is necessary from each body segment to complete an efficient, effective, safe, and proper overhand throwing motion.

**Intermediate**

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**MANAGEMENT AND PREVENTION OF KNEE INJURIES IN THE YOUNG ATHLETE**

*3:00 pm–5:00 pm ICC Sagamore Ballroom 2 SP-3C-9050*

**Joint Program:** Pediatrics

**Speakers:** Mark V. Paterno, PT, PhD, MBA, SCS, ATC, Laura C. Schmitt, PT, PhD, Christin Zwolski, PT, DPT, OCS

The face of youth sports participation has evolved dramatically in recent decades. Youth and adolescent participation in organized athletics has increased over six-fold in the last 30 years, resulting in over 3.5 million sports-related injuries in children between the ages of 5 and 14. Knee injuries are frequently the result of this high-intensity sport participation. Knee injuries historically thought to occur primarily in adults, such as ligament tears, patellar dislocations, and overuse injuries, are now more prevalent in youth today. The application of adult treatment algorithms in this young population may be inadequate to meet the unique needs of a skeletally immature athlete. This session will focus on describing the unique medical and rehabilitation management of children and adolescents with knee injuries, as well as the adverse effects of overuse on young athletes. In addition, strategies for knee injury prevention will be discussed as an essential intervention to avoid long-term sequelae in this population.

**Intermediate**

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**WOMEN’S HEALTH**

**CASH AND COMPLIANCE**

*8:00 am–10:00 am M 104 WH-3A-1518*

**Speakers:** N. J. Beckley, MS, MBA, CHC, Ann Wendel, PT, ATC, CMTPT, S. Haag, PT, DPT, MS, WCS

It’s all the buzz—and cash is the next practice evolution tempting the entrepreneurial spirit. This session will explore starting a cash practice from the start, evolving your existing practice to a cash mixed model, and learning compliance with the magic of Medicare. Join our expert presenters who have done it: an entrepreneurial therapist starting a “cash-only please” practice as a solo practitioner; a partner in a small group practice that accepts Medicare assignment on one hand and “cash-only please” for all other payers; and a rehab compliance expert to set the record straight on all the rumors you have heard about cash and compliance.

**Intermediate**
EXERCISE AND PREGNANCY: WHO, WHY, AND HOW TO PRESCRIBE AND THE CONTROVERSIAL
8:00 am–10:00 am M White River Ballroom E WH-3A-9920
Speakers: V. Bobb, C. Hill

Being physically active is an important component of leading a healthy life. Physical therapists strive to promote activity at any level as part of their patients’ and clients’ everyday routines. This concept is never more important than during pregnancy. Unfortunately, the physical symptoms that accompany pregnancy can become an obstacle to keeping active for many women, while physical activity during pregnancy has proven to reduce the incidence of gestational diabetes, low back pain, and urinary incontinence. Taking preventive measures can reduce the risk of pregnancy complications and lessen the need for more medical intervention during and after pregnancy. Being in good physical shape can shorten labor and speed recovery, resulting in shorter hospital stays and getting moms and babies home sooner. Physical therapists address movement dysfunction and pain, and they should work with physicians to educate women regarding exercise during pregnancy, safe return to exercise after dysfunction, or provide exercise prescription during and after pregnancy. The physical therapist can also help the pregnant woman navigate through controversial exercises such as running, Pilates, and Crossfit programs.

THERAPEUTIC TECHNOLOGIES IN WOMEN’S HEALTH
8:00 am–10:00 am ICC 123 CE-3A-9232
Joint Program: See Clinical Electrophysiology for more details

VISCERAL MANIPULATION: FACT AND FANTASY
11:00 am–1:00 pm M White River Ballroom E WH-3B-4584
Speaker: R. C. Horton

This session will address the paucity of higher-level evidence to support the manual treatment of internal organs and provide in depth discussion on available scientific rationale for visceral manipulation as a possible viable manual therapy technique. The main points in support of visceral mobilization to be discussed are that the internal organs are affixed to the somatic frame through connective tissue and ligamentous attachments, these structures carry a significant mass within the human body and are subject to the same laws of physics as the locomotor system, and the visceral structures and their fascial attachments have an influence on the biomechanics of the somatic frame.

Intermediate

THE USE OF HIGH-VOLTAGE PULSED CURRENT FOR TREATING SECONDARY LYMPHEDEMA AND LYMPHEDEMA SIG MEETING
11:00 am–1:00 pm ICC 234 ON-3C-9551
Joint Program: See Oncology for more details

BUILDING FEMALE ATHLETES FROM THE INSIDE OUT
3:00 pm–5:00 pm M White River Ballroom E WH-3C-7972
Speakers: J. Granger, B. Green, Julie Wiebe, PT

Female athletes from youth to adulthood have needs that merit special consideration by the physical therapist in order to return them to fitness and sport. This session will connect the research supporting female-specific approaches and current movement theories with clinical practice for the female athlete. Part 1 presented evidence and theory behind 5 specific movement principles applied to female athlete management. Part 2 will explore these principles applied to different populations of female athletes: youth athletes, for whom intervention strategies must consider rapid changes in physiological, psychological, cognitive, and emotional growth; middle-aged mothers with orthopedic complaints and fitness goals, for whom practitioners must understand how pregnancy and “typical” women’s health concerns such as incontinence, diastasis, and pelvic organ prolapse contribute to functional limitations and impact progress; and high impact exercisers, for whom increased intra-abdominal pressure and impact loading during intense athletic pursuits challenges practitioners to maximize results without compounding issues such as joint pain or injury, incontinence, and organ prolapse. Case studies for each population will be presented with ample opportunity for discussion.

Multiple Level

OBESITY IN PREGNANCY: PHYSICAL THERAPY INTERVENTIONS TO REDUCE RISKS AND IMPROVE OUTCOMES
3:00 pm–5:00 pm M Grand Ballroom 6 WH-3C-5030
Speaker: K. Litos, PT, MPT

Obesity is a worldwide health epidemic affecting 20% of all US pregnancies. The health consequences of obesity in pregnancy are severe and pervasive, resulting in multiple morbidity and mortality risk factors for both the mother and the baby. Maternal risk factors associated with obesity affect the cardiovascular, respiratory, integumentary, musculoskeletal, digestive, metabolic, and psychosocial systems. The infants of obese mothers are at risk for small for gestational age and increased morbidity and mortality rates associated with maternal gestational hypertension, eclampsia, and preterm birth; large for gestational age with increased risk of lifelong metabolic and cardiovascular disorders associated with maternal gestational diabetes; and multiple neurodevelopmental disorders. Physical therapists are biomechanical and musculoskeletal experts who are uniquely positioned to help break the cycle of obesity and improve birth outcomes through promotion of healthy behaviors as well as develop and monitor safe exercise programs for this special population of pregnant women.

Multiple Level
Help your clients move with ease again.

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**Geriatrics**

**PLATEFORM PRESENTATIONS 1**
8:00 am–10:00 am ICC 241
GR-1A-7947

Geriatrics Section Platform Presentations 1
8:00 am–8:05 am
Moderator: Susan Wenker, PT, MS, GCS

Mobility Device Use and Incidence of Falls and Worry About Falling Among Older Adults: Findings From the 2011-2012 National Health and Aging Trends Study
8:05 am–8:15 am
Speaker: Nancy Gell, PT, PhD

Walking Speed Differs in African American and White American Community-Dwelling Women With or at Risk for Osteoarthritis: The Osteoarthritis-Initiative (OAi) Study
8:15 am–8:25 am
Speaker: Carmen Kirkness, PT, PhD

Quality of Turning Mobility During Daily Life Is Compromised in Elderly Fallers
8:25 am–8:35 am
Speaker: Fay Horak, PT, PhD

Postural Sway, as Measured by the Sway Balance Smart Device Application, Does Not Discriminate Between Older Persons With and Without a Fall History
8:35 am–8:45 am
Speaker: Jennifer Vincenzo, PT, MPH, GCS, CHES

Translation, Validation, and Reliability of the Dutch Computer Adapted Late-Life Function and Disability Instrument
8:45 am–8:55 am
Speaker: Remco Arensman, PT

RCT to Study the Effect of Dual-Task Exercise Program on Balance, Mobility, Gaze, and Cognition in Older Adults
8:55 am–9:05 am
Speaker: Akshata Nayak, MSc

Balance and Cognition Assessment as a Part of Physical Therapy Practice in Michigan: A Descriptive Study
9:05 am–9:15 am
Speaker: Alison Martin

Independent Influence of Depression and Cognitive Impairment on Walking Speed in an Older, Biethnic Cohort
9:15 am–9:25 am
Speaker: Myles Quiben, PT, DPT, PhD, GCS, NCS

**PLATFORM PRESENTATIONS 1: NEUROLOGY**

**NEUROLOGY**

**PLATEFORM PRESENTATIONS 1: GAIT AND BALANCE 1**
3:00 pm–5:00 pm M Grand Ballroom 2
NE-1C-1641

**Moderator:** Bart Hanson, PT, DScPT, NCS

**Thinking While Walking: Does Type of Cognitive Domain Matter?**
9:25 am–9:35 am
**Speaker:** Kristin Lowry, PhD

**Inertial Sensors Detect Subtle Mobility Differences in Soldiers With Persistent Concussion Symptoms: Preliminary Findings for the Instrumented Stand and Walk**
3:00 pm–3:15 pm
**Speaker:** Matthew Scherer, PT, PhD

**Home-Based Robot-Assisted Ankle Rehabilitation for Chronic Stroke Survivors**
3:15 pm–3:30 pm
**Speaker:** James Lynskey, PT, PhD

**Biomechanical Gait Characteristics of Unsuccessful Foot Clearance During Swing in Individuals With Chronic Stroke**
3:30 pm–3:45 pm
**Speaker:** Jessica Burpee

**Self-Efficacy Mediates the Relationship Between Balance/Walking Performance, Activity, and Participation After Stroke**
3:45 pm–4:00 pm
**Speaker:** Margaret French, PT, DPT

**Baseline Balance Predicts Gait Speed Improvement Following Gait Training in Chronic Stroke**
4:00 pm–4:15 pm
**Speaker:** Carty Husted, PT, DPT

**Stepping Strategies for Lateral Balance Recovery During Unexpected Lateral Perturbations and Lateral Voluntary Stepping in Persons Post-Stroke**
4:15 pm–4:30 pm
**Speaker:** Vicki Gray, PT, MPT, PhD

**Single Session of Cortical Stimulation-Enhanced Gait Training Improves Post-Stroke Lower Limb Corticomotor Excitability**
4:30 pm–4:45 pm
**Speaker:** Sangeetha Madhavan, PhD

**Comparison of an Intermittent vs. Continuous Walking Program in Persons With Multiple Sclerosis Using the 6-Minute Walk Test: A Randomized Crossover Pilot Study**
4:45 pm–5:00 pm
**Speaker:** Herbert Karpatkin, DSc

**Orthopaedics**

**PLATFORM PRESENTATIONS 1**
8:00 am–10:00 am ICC 110
OR-1A-8538

**Moderator:** Chad Cook, PT, PhD, MBA, FAAOMPT

**Orthopaedic Section Clinical Research Network: Year 2 Update**
8:00 am–8:15 am
**Speaker:** Steven George, PT, PhD

**A Red Flag Screening Tool for Orthopaedic Physical Therapy Settings: Results From the Optimal Screening for Prediction of Referral and Outcome (OPSISRO) Cohort**
8:15 am–8:30 am
**Speaker:** Steven George, PT, PhD

**The Diagnostic Utility of Clinical Tests for Differentiating Between Cervicogenic and Other Causes of Dizziness After a Sports-Related Concussion: An International Delphi Study**
8:30 am–8:45 am
**Speaker:** Jennifer Reneker, PT, MSPT, NCS

**The Distribution of Muscle Fat Infiltration Within the Deep Extensor Muscles in Whiplash-Associated Disorders**
8:45 am–9:00 am
**Speaker:** Rebecca Abbott

**External Validation of a Clinical Prediction Rule to Predict Full Recovery and Continued Moderate/Severe Disability Following Acute Whiplash Injury**
9:00 am–9:15 am
**Speaker:** Michele Sterling, MPhy, Grad Dip Manip Physio, PhD, FACP

**NMES to the Lumbar Multifidus in Conjunction With Trunk Stabilization Exercises Returns Patient to a High Level of Competition Following an L4-L5 Microdiscectomy**
9:15 am–9:30 am
**Speaker:** Michael Roberto, PT, DPT

**The Temporal Expression of Neck Muscle Degeneration Following Whiplash**
9:30 am–9:45 am
**Speaker:** James Elliott, PT, PhD
PLATFORM PRESENTATIONS 3
3:00 pm–5:00 pm ICC 110
OR-1C-8565
Moderator: Tara Jo Manal, PT, DPT, OCS, SCS
Centralization of Pain Response in Females
With Patellofemoral Pain
3:00 pm–3:15 pm
Speaker: Logan Shuping, PT, DPT
A Prospective, Randomized Control Trial:
Efficacy of Continuous Passive Motion
Device Post Total Knee Arthroplasty
3:15 pm–3:30 pm
Speaker: Rupali Joshi, PT, PhD, MEd
Decompressive Knee Bracing for Medial
Compartment Knee Osteoarthritis
3:30 pm–3:45 pm
Speaker: Eric Lamberg, PT, EdD, CPed
The Influence of Demographic and Physical
Therapy Utilization on Incidence Rates
for Revision Surgery Following Anterior
Cruciate Ligament Reconstruction
4:00 pm–4:15 pm
Speaker: Caitlin Miller, PT, DPT
Clinical Tests to Determine Femoral Version
Category in People With Chronic Hip Joint
Pain and Asymptomatic Controls
4:15 pm–4:30 pm
Speaker: Alexandria Uding
Force-Displacement Differences in the
Lower Extremities of Young Healthy Adults
Between Drop Jumps and Drop Landings
4:30 pm–4:45 pm
Speaker: James Hackney, PhD
Forces on Arms and Feet During Assisted
Sit-to-Stand Movements of Unilateral
Transfemoral Amputees Using the POWER
KNEE
4:45 pm–5:00 pm
Speaker: Vibhor Agrawal, PhD

PLATFORM PRESENTATIONS 2
11:00 am–1:00 pm ICC 110
OR-1B-8550
Moderator: David Sinacore, PT, ScD, MSc
Contributing Factors to Balance Training in
People With Functional Ankle Instability
11:00 am–11:15 am
Speaker: Tara Jung, PT, DPT, OCS, FAAOMPT
Prevalence of Low Back Pain in Individuals
With Plantar Heel Pain: A Retrospective
Case Control Analysis
11:15 am–11:30 am
Speaker: Shane McClintock, PT, DPT, OCS, FAAOMPT
Foot and Rearfoot Contributions to
Ankle Rotation During the Lunge Test in
Healthy Controls and Individuals With
Achilles Tendinopathy
11:30 am–11:45 am
Speaker: Ruth Chimenti, PT, DPT, PhD
Investigation of Age, Body Mass Index,
and Symptom Duration as Predictors of
Response to Physical Therapy Intervention
for Plantar Heel Pain: A Retrospective
Cohort Analysis
11:45 am–12:00 pm
Speaker: Shane McClintock, PT, DPT, OCS, FAAOMPT
In Situ and Ex Vivo Bone Mineral Content
and Density of Human Metatarsals Derived
From DXA
12:00 pm–12:15 pm
Speaker: David Sinacore, PT, PhD, FAAOMPT
Instrument-Assisted Soft Tissue
Mobilization Alters Material and Mechanical
Properties in Healthy, Shortened Achilles
Tendons
12:15 pm–12:30 pm
Speaker: Amy Bayliss, PT, DPT
Comparison of a Stretching Protocol With
the First Step to Foot Relief Protocol on
Selected Clinical Outcome Measures in
Patients With Heel Pain
12:30 pm–12:45 pm
Speaker: Joseph Brosky, PT, DHS, SCS
Do Differences in Gait Mechanics and Hip
Strength Extend to Non-Athletic Females
With Patellofemoral Pain?
12:45 pm–1:00 pm
Speaker: Brian Noehren, PT, PhD

PLEDIES ICS
PLATFORM PRESENTATIONS 1
8:00 am–10:00 am M Grand Ballroom 9
PD-1A-9327
Moderator: Margaret O’Neil, PT, PhD, MPH
Pediatrics Section Platform Presentations 1
8:00 am–8:05 am
Moderator: Margaret O’Neil, PT, PhD, MPH
Reliability and Validity of Objective
Measures of Physical Activity in Youth With
Cerebral Palsy
8:05 am–8:19 am
Speaker: Margaret O’Neil, PT, PhD, MPH

Improved Gait Function in Children With
Cerebral Palsy Following an Off-Axis
Elliptical Training Program
8:19 am–8:33 am
Speaker: Liang-Ching Tsai, PhD
Identifying a Framework, Outcomes, and
Measures to Evaluate Best Practices in
Dosing Interventions for Children With
Cerebral Palsy
8:33 am–8:47 am
Speaker: Mary Gannotti, PT, PhD
Determining the Minimal Detectable
Change of the Timed Up & Go Test for
Ambulatory Children With Cerebral Palsy
8:47 am–9:01 am
Speaker: Helen Caret, PT, MHS, PCS
Use of the Child Engagement in Daily Life
and Ease of Caregiving for Children to
Measure Change in Young Children With
Cerebral Palsy
9:01 am–9:15 am
Speaker: Robert Palisano, PT, ScD, FAPTA
Kicking Behaviors in Infants With Neonatal
Stroke: A Preliminary Analysis
9:15 am–9:29 am
Speaker: Sara Mrowinski, PT, DPT
Is Gait Efficiency Stable During Self-
Selected Slow, Brisk, and Fast Walking in
Youth With Cerebral Palsy?
9:29 am–9:43 am
Speaker: Nancy Lennon, PT, MS
Development of Prone Locomotion in
Infants With or at Risk for Cerebral Palsy
9:43 am–9:57 am
Speaker: Thubi Kolobe, PT, PhD, FAPTA
## Platform Presentations

### SPORTS PHYSICAL THERAPY

**PLATFORM PRESENTATIONS 1: ADVANCES IN SPORTS THERAPY**  
3:00 pm–5:00 pm  
ICC 212  
SP-1C-3701

**Moderator:** Charles Thigpen, PT, PhD, ATC

**Identification of Intrinsic Risk Factors Associated With Musculoskeletal Injury in Rangers**  
3:05 pm–3:15 pm  
Speaker: Deydre Teyhen, PT, PhD, OCS

**Reference Ranges for the Comprehensive High-Level Activity Mobility Predictor-Sport (CHAMP-S) in Female Division I Collegiate Athletes**  
3:15 pm–3:25 pm  
Speaker: Ignacio Gaunaurd, PT, MSPT, PhD

**Comparison of EMG Activation of Gluteal Musculature During Therapeutic Exercises With and Without Elastic Resistance in Healthy and Low Back Pain Populations**  
4:35 pm–4:45 pm  
Speaker: Barton Bishop, PT, DPT

### AQUATIC PHYSICAL THERAPY

**PLATFORM PRESENTATIONS**  
8:00 am–10:00 am  
M 104  
AQ-2A-9214

**Moderator:** Yasser Salem, PT, PhD, MS, NCS, PCS

**Decreases in Abdominal Adiposity and Insulin Resistance After Prescribed Exercise for a Woman With Chronic Motor Incomplete Spinal Cord Injury (CMISCI): A Case Report**  
8:05 am–8:15 am  
Speaker: Paula Goigle, PhD

**Can Physical Therapy Intervention in the Emergency Department Positively Influence Patient-Reported Falls and Return Visits for the Same Condition?**  
8:00 am–8:15 am  
Speaker: Stacie Fruth, PT, DHS, OCS

**Acute Care**

**PLATFORM PRESENTATIONS 1**  
8:00 am–10:00 am  
ICC 104  
AC-2A-1889

**Moderator:** Barbara Smith, PT, PhD

**Can Physical Therapy Intervention in the Emergency Department Positively Influence Patient-Reported Falls and Return Visits for the Same Condition?**  
8:00 am–8:15 am  
Speaker: Stacie Fruth, PT, DHS, OCS

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**Reference**

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CARDIOVASCULAR AND PULMONARY

PLATFORM PRESENTATIONS 1
8:00 am–10:00 am ICC 210
CP-2A-9225
Moderator: Chris Wells, PT, PhD, ATC, CCS
Cardiovascular and Pulmonary Platform Presentations 1
8:00 am–8:10 am
Speaker: Chris Wells, PT, PhD, ATC, CCS
Moderator: Chris Wells
Respiratory Plasticity After Diaphragm Pacing: Power Spectral Analysis
8:10 am–8:20 am
Speaker: Gaura Mehta, PT, DPT
The Effects of Acute Exposure to Air Pollution on the Cardiopulmonary System in Recreational Cyclists
8:20 am–8:30 am
Speaker: Harshavardhan Deoghar, PT, PhD
Measuring and Walking at Ventilatory Threshold After Stroke
8:30 am–8:40 am
Speaker: Pamela Bosch, PT, DPT, PhD
The Reliability and Validity of the Timed Stair Climbing Test as an Outcome Measure for Individuals With Pulmonary Disease
8:40 am–8:50 am
Speaker: Ted Marks, PT, DPT, CCS
Physical Rehabilitation for Persons Pre-Lung Transplant at a Long Term Acute Care Hospital (LTACH)
8:50 am–9:00 am
Speaker: Aaron Thrush, PT, DPT, MPH
Functional Outcomes Associated With Pulmonary Rehabilitation in Lung Transplant Candidates: A Systematic Review
9:00 am–9:10 am
Speaker: Amy Pastva, PT, PhD
Long-Term Physical Function Continues to Improve in Patients Post Lung Transplant But Remains Below the Level of Healthy Individuals
9:10 am–9:20 am
Speaker: Anne Mejia-Downs, PT, MPH

PLATFORM PRESENTATIONS 2
11:00 am–1:00 pm ICC 210
CP-2B-9225
Moderator: Chris Wells, PT, PhD
Cardiovascular and Pulmonary Platform Presentations 2
11:00 am–11:10 am
Moderator: Chris Wells

Exercise Capacity Performance Using a Modified 6-Minute Walk Test in Children Who Are Healthy Weight, Overweight, and Obese
11:10 am–11:20 am
Speaker: Rebecca Staples, PT, DPT
Do Web-Based Interventions for Weight Loss Influence Change in Physical Activity in Obese and Obese Rural Women?
11:20 am–11:30 am
Speaker: Patricia Hageman, PT, PhD
Clinical Variables Could Surrogate Blood Lactate Levels as an Exercise Intensity Marker Only During Low-Intensity Exercise in Patients With Coronary Artery Disease
11:30 am–11:40 am
Speaker: Alvaro Gurovich, PT, PhD, FACS
A Preoperative 5-Meter Walk Test as a Predictor of Hospital Length of Stay and Intensive Care Unit Length of Stay in Individuals Following Open Heart Surgery: An Exploratory Predictive Design
11:40 am–11:50 am
Speaker: Shannon McPherson
Validation of the RT-3 and Actiwatch in Estimating Daily Physical Activity in Individuals With Chronic Heart Failure
11:50 am–12:00 pm
Speaker: Yanlong Li
Effects of Sleep and Depression on Physical Activity Performance in Individuals With Heart Failure
12:00 pm–12:10 pm
Speaker: Candice Chessum
Single Center Comparison of Initial Acute Care Outcomes in Patients Awaiting Heart Transplant: The HeartMate II vs HeartWare 12:10 pm–12:20 pm
Speaker: Michael Shoemaker, PT, DPT, PhD, GCS

CLINICAL ELECTROPHYSIOLOGY AND WOUND MANAGEMENT

PLATFORM PRESENTATIONS
3:00 pm–5:00 pm ICC 120
CE-2C-9238
Moderator: John Halle, PT, PhD, ECS
Clinical Electrophysiology and Wound Management Platform Presentations
3:00 pm–3:05 pm
Moderator: John Halle, PT, PhD, ECS
An Electromyographic Analysis of Selected Asana: Males vs. Females
3:05 pm–3:20 pm
Speaker: Kathleen Kelley, EdD
Electromyographic (EMG) Analysis of Hip Abductor Muscle Activity During Common Exercises and Functional Activities in Subjects After Stroke
3:20 pm–3:35 pm
Speaker: Stephanie Greenspan, PT, DPT, OCS, NCS
Diagnostic Accuracy of Neuromuscular Screening for Median and Ulnar Neuropathies in Military Service Members
3:35 pm–3:50 pm
Speaker: Scott Shaffer, PT, PhD, OCS, ECS
Comparison of 2 Methods of Tibial H-Reflex Acquisition
3:50 pm–4:05 pm
Speaker: William Eisner, PT, DSc, ECS
The Development of a Web-Based Interactive Educational Tool to Enhance the Instruction of Clinical Electrophysiology in Physical Therapy
4:05 pm–4:20 pm
Speaker: John Lugo, PT, MS, ECS
The Effect of Galvanic Stimulation on Bacterial and Fungal Growth: In Vitro Study
4:20 pm–4:35 pm
Speaker: Rahul Parihar, PT, MPT

EDUCATION

PLATFORM PRESENTATIONS 1
8:00 am–10:00 am W Capitol III
ED-2A-0953
Moderator: Christine McCallum, PT, PhD
Education Section Platform Presentations 1
8:00 am–8:02 am
Moderator: Christine McCallum, PT, PhD
Perceived Challenges in Clinical Education: Perspectives From Various Stakeholders
8:02 am–8:21 am
Speaker: Jean Timmerberg, PT, PhD, MHS, OCS
Do Different Clinical Education Curricular Models Lead to Differences in First-Time and Ultimate Pass Rates Among CAPTE-Accredited Programs?
8:21 am–8:40 am
Speaker: Christine McCallum, PT, PhD
The Collaborative Model of Clinical Education: Perceptions of Physical Therapist Clinical Instructors
8:40 am–8:59 am
Speaker: Susan Tomlinson, PT, OCS, NCS
Development of a Structure to Support Clinical Education and Facilitate Staff Development at a Large Multi-Site Academic Medical Center
8:59 am–9:18 am
Speaker: Angela Stolfi, PT, DPT

120 APTA Combined Sections Meeting 2015
GERIATRIC PHYSICAL THERAPY

PLATFORM PRESENTATIONS 2
8:00 am–10:00 am
ICC 241

GR-2A-7953

Moderator: Susan Wenker, PT, MS, GCS

Geriatrics Section Platform Presentations 2
8:00 am–8:05 am
Moderator: Susan Wenker, PT, MS, GCS

The Impact of a Walking Program on the Quality of Life of Geriatric Patients With Dementia: A Systematic Review
8:05 am–8:15 am
Speaker: Beverly McNeal, PT, DPT, GCS

Daily Walking and the Risk of Incident Functional Limitation in Knee OA: An Observational Study
8:15 am–8:25 am
Speaker: Daniel White, PT, ScD, MSc

Effect of Multifactorial Interventions on Fall Prevention in Community-Dwelling Adults: A Systematic Review
8:25 am–8:35 am
Speaker: Joy Kuebler, PT, DPT, MS

Improvements in Movement Pattern Symmetry During Sit-to-Stand Task in Hip Fracture Recipients Following Rehabilitation Targeting Strength and Movement Symmetry
8:35 am–8:45 am
Speaker: Robert Briggs, PT, DPT

Coactivation During a Submaximal Pedaling Power Task at 3 Cadences: A Comparison of Sedentary and Active Older Adults With Young Adults
8:45 am–8:55 am
Speaker: Ann Newsstead, PT, PhD, MS, GCS, NCS, CEEAA

No Difference in Multifidi and Erector Spinae Cross-Sectional Area and Intramuscular Fat Between Older Adults With and Without Chronic Low Back Pain
8:55 am–9:05 am
Speaker: J. Megan Sions, PT, PhD, OCS

The Relationship Between Self-Rated Health and Changes in Function in Older Adults With Chronic Low Back Pain
9:05 am–9:15 am
Speaker: Peter Coyle, PT, DPT

Health-Related Quality of Life in Persons With Type 2 Diabetes in a Rural Community Served by a Critical Access Hospital
9:15 am–9:25 am
Speaker: Michael Butler, PT, DPT

Physical Therapy Students’ Essential Competencies in the Care for Older Adults
9:25 am–9:35 am
Speaker: Robert Briggs, PT, DPT

The Effects of Inclusion of a Geriatric-Based Exercise Class Within an Entry-Level Doctor of Physical Therapy Program on Students’ Perceptions of Geriatrics
9:35 am–9:45 am
Speaker: Jennifer Reneker, PT, MSPT, NCS

A New Model of Knowledge Translation for Physical Therapy Clinicians Who Work in Skilled Nursing Facilities: A Case Study
9:45 am–9:55 am
Speaker: Victoria Hornyk, PT, DPT, GCS

Service Learning Activities Enhance Physical Therapy Students’ Essential Competencies in the Care for Older Adults
9:55 am–10:05 am
Speaker: Brandi Schwarz, PT, DPT, OT, MBA

The Impact of Required Participation in a Student-Led Community Outreach Clinic on Perceived Value and Participation
10:05 am–10:15 am
Speaker: Brandi Schwarz, PT, DPT, OT, MBA

Teaching Health Care for Underserved Populations: A Model for Service Learning With the Homeless Community
10:15 am–10:25 am
Speaker: Peter Tooley, PT, DPT

Discordance Between Self-Reported and Performance-Based Testing of Balance Among Older Adults: Findings From the 2011 National Health and Aging Trends Study
9:25 am–9:35 am
Speaker: Nancy Gell, PT, PhD

HEALTH POLICY AND ADMINISTRATION

PLATFORM PRESENTATIONS 1: ADMINISTRATION
8:00 am–10:00 am
W Grand 1
HP-2A-9258

Moderator: Beth McManus, PT, ScD, MPH

Health Policy and Administration Platform Presentations: Administration
8:00 am–8:05 am
Moderator: Beth McManus, PT, ScD, MPH

Using Lean Principles to Improve Productivity in the Rehabilitation Department of an Academic Medical Center
8:05 am–8:20 am
Speaker: Diana Johnson, PT, MS

A Model for Strategic Implementation Using Lean Principles and Discipline to Hardwire Success
8:20 am–8:35 am
Speaker: Hilary Harris, PT, MSPT

Factors That Impact Discharge Planning for Physical Therapists in an Inpatient Acute Medical Stay: A Systematic Review
8:35 am–8:50 am
Speaker: Kate Stimpert, PT

Functional Outcomes of Inpatient Rehabilitation Versus Early Supported Discharge Following Stroke: A Meta-Analysis
8:50 am–9:05 am
Speaker: Elizabeth Popolizio, PT, DPT

Implementation of a Standardized Outcomes Process Across Multiple Outpatient Therapy Practices
9:05 am–9:20 am
Speaker: Brian Leggin, PT, DPT, OCS

Preliminary Findings of a Retrospective Chart Review on the Assessment and Reporting of Functional Limitations of Patients in an Outpatient Clinic in New Orleans
9:20 am–9:35 am
Speaker: Caroline Crawford

Choice Between Severity Modifiers in Functional Limitation Reporting/G-Code Categorization: Does the Functional Measure Matter?
9:35 am–9:50 am
Speaker: Tamara Struessel, PT, DPT, OCS
What’s your opinion on...

working with a therapist-led management team, in centers stocked with cutting edge tools and technology?

a career that includes an environment focused on helping you build and elevate to your professional and clinical goals?

a no-cap incentive plan (paid monthly), flexible schedules, and a $15K tuition forgiveness program?*

medical Practitioners looking to you for therapy recommendations at the onset of a patient’s engagement, and then throughout the course of treatment?

seeing your expertise evidenced in patient’s care?

a clearly defined patient engagement process where the therapist’s role is understood as a crucial part of the overall continuum of care?

*for new graduates that complete a qualifying clinical affiliation with Concentra.

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Please stop by booth 928 for a chance to win a prize.

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PLATFORM PRESENTATIONS 2: GLOBAL HEALTH
11:00 am–1:00 pm W Grand 1
HP-2B-9262
Moderator: Suzanne O’Brien, PT, PhD, NCS
Heath Policy and Administration Platform Presentations 2: Global Health
11:00 am–11:05 am
Speaker: Jill Black, PT, DPT, EdD
Collaborative and Reciprocal Lessons Learned Through the Integration of a Health Fair in a Student-Run Pro Bono Clinic
11:05 am–11:20 am
Speaker: Lisa Johnston, PT, DPT, MS
A Fitness Mentorship Program Positively Impacts Children and PT Students
11:35 am–11:50 am
Speaker: Lauren Shirley
Exercise Adherence in an Underserved Population
11:50 am–12:05 pm
Speaker: Joseph Day, PT, PhD, OCS, CIMT
Factors Influencing the Decision of Physical Therapist Students to Practice in Rural Appalachia
12:05 pm–12:20 pm
Speaker: Ralph Uzman, PT, PhD, MPH
The Lived Experiences of Physical Therapists Practicing in Inpatient Rehabilitation Facilities: An Interpretive Phenomenological Analysis
12:20 pm–12:35 pm
Speaker: Steve Wiley, PT, PhD, GCS
They Posted What?! Actionable Offenses in Social Media: The Clinical Instructor’s Perspective of Physical Therapist Student Online Professionalism
12:35 pm–12:50 pm
Speaker: Karen Morren, PT, DPT, MS

PLATFORM PRESENTATIONS 3: POLICY/HEALTH SERVICES RESEARCH
11:00 am–1:00 pm W Capitol I
HP-2B-1965
Moderator: Gina Musolino, PT, EdD, MSEd
Health Policy and Administration Platform Presentations 3: Policy/Health Services Research
11:00 am–11:05 am
Moderator: Gina Musolino, PT, EdD, MSEd
Disability in Children in Low-Income and Lower-Middle-Income Countries: A Narrative Review of Parental and Community Perception and the Psychosocial Impact on the Family
11:05 am–11:20 am
Speaker: Laura Good, PT
Online Visibility of Physical Therapists in Chicago-Area Hospitals and Clinics
11:20 am–11:35 am
Speaker: Peter McMenamin, PT, MS
A National Survey of Physical Therapists’ Knowledge of Health Literacy, Patient-Centered Attitudes, and Teaching Practices
11:35 am–11:50 am
Speaker: Alice Saltzman, PT, EdD
Patient’s Knowledge of Direct Access in Outpatient Physical Therapy
11:50 am–12:05 pm
Speaker: Jennifer Collins, EdD
Physical Therapy Direct Access Utilization in Virginia and Patient Satisfaction About the Direct Access Care Provided
12:05 pm–12:20 pm
Speaker: Lisa Snoaf, PT, DPT, PhD
Geographic Distribution of Specialized Stroke Rehabilitation Services in Nebraska
12:20 pm–12:35 pm
Speaker: Zachariah Douglas
A Comparison of Physical Therapy Utilization and Expenditures in Office-Based and Hospital-Based Outpatient Settings Using the Medical Expenditure Panel Survey
12:35 pm–12:50 pm
Speaker: Mary Marchetti, PhD
Geographic Differences in Physical (PT) and Occupational Therapy (OT) Service Utilization Intensity and Costs Among Medicaid Children With Special Health Care Needs (CSHCN), Ages 0-3, in Colorado
12:50 pm–1:00 pm
Speaker: Beth McNamar, PT, ScD, MPH

HOME HEALTH
PLATFORM PRESENTATIONS
3:00 pm–5:00 pm ICC 237
HH-2C-7016
Moderator: Matt Janes, PT, DPT, MHS, OCS, CSCS
Home Health Section Platform Presentations
3:00 pm–3:10 pm
Moderator: Matt Janes, PT, DPT, MHS, OCS, CSCS
Examination of Home Care Physical Therapists’ Confidence in Using Evidence-Based Practice
3:10 pm–3:28 pm
Speaker: Samantha Woloszyn
Knowledge Translation: Does Behavior Change After a Training Initiative?
3:28 pm–3:46 pm
Speaker: Patricia Scheets, PT, DPT, MHS, NCS
In-Home Functional Assessment of Participants Post Hip Fracture With Mild Cognitive Impairment Using Vertical Ground Reaction Force During a Sit-to-Stand
3:46 pm–4:04 pm
Speaker: Janet Kneiss, PT, PhD, MS

NEUROLOGY
PLATFORM PRESENTATIONS 2: UPPER EXTREMITY REHAB AND COGNITION
3:00 pm–5:00 pm M Grand Ballroom 2
NE-2C-1645
Moderator: Bart Hanson, PT, DScPT, NCS
Daily Arm Use Measured by a Triaxial Accelerometer in Individuals With Impairment From Chronic Stroke: A Pilot Investigation
3:00 pm–3:15 pm
Speaker: Margaret Finley, PT, PhD
Validity of an Interactive Functional Reach Test (i-FRT) Performed Using the Microsoft Kinect® Sensor
3:15 pm–3:30 pm
Speaker: Andrew Diamond
Upper Extremity Performance Improves Following Video Game Delivery of Constraint-Induced Movement Therapy in a Pilot Study
3:30 pm–3:45 pm
Speaker: Laura Marx, PT, DPT
A Principle-Based Approach to Neurorehabilitation Through Accelerated Skill Acquisition
3:45 pm–4:00 pm
Speaker: Carolee Weinstein, PT, PhD, FAPTA

A Case Exemplar for the Accelerated Skill Acquisition Program: Painting the Wall Blue
4:00 pm–4:15 pm
Speaker: Sarah Blanton, PT, DPT, NCS

Characterizing Associated Reactions in Pediatric and Adult Hemiplegia: Preliminary Results
4:15 pm–4:30 pm
Speaker: Rachel Hauke, PT, DPT

Acute and Post-Acute Assessment of Postural Control and Cognitive Efficiency Following Concussion
4:30 pm–4:45 pm
Speaker: Laurie King, PT, PhD

Interhemispheric Supplemental Motor Area Tract-Specific Measures Are Associated With Dual-Task Walking Variability In Multiple Sclerosis
4:45 pm–5:00 pm
Speaker: Nora Fritz, PT, DPT, PhD

Effects of a Community-Based Multimodal Exercise Program on Physical Function and Quality of Life in Cancer Survivors: A Pilot Study
4:22 pm–4:40 pm
Speaker: Michael Foley, PT, PhD

Gait Changes in Pediatric Cancer Patients With Vincristine Neuropathy
4:40 pm–4:58 pm
Speaker: Laura Gilchrist, PT, PhD

ORTHOPAEDICS

PLATFORM PRESENTATIONS 4
8:00 am–10:00 am
ICC 110
OR-2A-8569
Moderator: Joshua Cleland, PT, PhD

Description of Clinical Outcomes and Utilization of Physical Therapy in Patients With Shoulder Disorders
8:00 am–8:15 am
Speaker: Brian Leggin, PT, DPT, OCS

Complication Rates and Associated Gender Differences Following Rotator Cuff Repair
8:15 am–8:30 am
Speaker: Kate Minick Thayn, PT, DPT, OCS, CSCS

Rotator Cuff Tear Severity Versus Concomitant Surgical Procedures in the Prediction of Pain and Function After Shoulder Arthroscopy
8:30 am–8:45 am
Speaker: Corey Simon, PT, DPT

Effects of Aging on Mechanical Properties of the Glenohumeral Joint en Masse in Association With Anteroposterior Glide Mobilization
8:45 am–9:00 am
Speaker: Ar-Tyan Hsu, PhD

One-Year Outcome of Subacromial Corticosteroid Injection Compared to Manual Physical Therapy for the Management of Unilateral Shoulder Impingement Syndrome: A Pragmatic Randomized Clinical Trial
9:00 am–9:15 am
Speaker: Daniel Rhon, PT, DPT, DSc, OCS, FAAMPT

Effects of Manual Therapy in Addition to Supervised Exercise for Subacromial Impingement Syndrome
9:15 am–9:30 am
Speaker: Charles Thigpen, PT, PhD, ATC

Relative Muscle Activity of Scapular Muscles During Active Arm Elevation and Lowering in Patients With Subacromial Impingement Syndrome
9:30 am–9:45 am
Speaker: Sapna Sharma, PT, MS

The Relationship Between Kinesiophobia, Pain Catastrophizing, and Disability in Overhead Throwing Athletes Following Injury
9:45 am–10:00 am
Speaker: Giorgio Zoppetti, PT, MPT

PLATFORM PRESENTATIONS 5
11:00 am–1:00 pm
ICC 110
OR-2B-8573
Moderator: Joseph Zeni, PT, PhD

Can Knee Pain Be Prevented Through Diet and Exercise Among Those at High Risk? The Look AHEAD Study
11:00 am–11:15 am
Speaker: Daniel White, PT, ScD, MSc

Association of Pain Location With Symptoms, Functional Limitations, and Knee-Related Quality of Life in Patients With Knee Pain: Data From the Osteoarthritis Initiative
11:15 am–11:30 am
Speaker: Shawn Farrokhi, PT, PhD

Association Between Depression, Physical Function, and Potential Mediating Factors in Veterans With Knee and/or Hip Osteoarthritis
11:30 am–11:45 am
Speaker: Devin DelGraef, CSCS

Quadriceps Strength Mediates the Relationship Between Quadriceps Volitional Activation and Physical Function After Knee Arthroplasty
11:45 am–12:00 p.m.
Speaker: Ali Alnahdi, PT, PhD

Do Women Have Poorer Outcomes Following Total Knee Replacement for Arthritis?
12:00 pm–12:15 pm
Speaker: Saurabh Mehta, PhD

Knee Joint Contact Mechanics During Downhill Gait and Its Relationship With Varus/Valgus Motion and Muscle Strength in Patients With Knee Osteoarthritis
12:15 pm–12:30 pm
Speaker: Shawn Farrokhi, PT, PhD

Effectiveness of a Progressive Strengthening Rehabilitation Protocol in Restoring Function 1 Year Following Total Knee Arthroplasty
12:30 pm–12:45 pm
Speaker: Federico Pozzi, PT, MA

Conservative Management of Femoracetabular Impingement: A Pilot Study
12:45 pm–1:00 pm
Speaker: Alexis Wright, PT, DPT, PhD, FAAOMPT
Platform Presentations

**PEDIATRICS**

**PLATFORM PRESENTATIONS 2**

8:00 am–10:00 am  M Grand Ballroom 9

PD-2A-9329

**Moderator:** Margaret O’Neil, PT, PhD, MPH

Section on Pediatrics Platform

Presentations 2

8:00 am–8:05 am

**Moderator:** Margaret O’Neil, PT, PhD, MPH

Prone Locomotion in Infants With Down Syndrome Using the SIPPC: A Pilot Study

8:05 am–8:19 am

Speaker: Paula Cox, DSc

Movement Variation During Spontaneous Leg Movements in Infants Born at Term: A Pilot

8:19 am–8:33 am

Speaker: Chao-Ying Chen, PhD

Altered Autonomic Function in the Mobile Paradigm Task in 3-Month-Old Infants With Complex Congenital Heart Disease

8:33 am–8:47 am

Speaker: Colleen Peyton, PT, DPT, PCS

Abnormal Fidgety Movements and Low Test of Infant Motor Performance Scores Are Related to Abnormal White Matter in a Cohort of High-Risk Premature Infants

8:47 am–9:01 am

Speaker: Jan McIlroy, PhD

Exercise-Induced Hypoalgesia in Adolescents: Effects of Sex and Weight Status

9:01 am–9:15 am

Speaker: Stacy Stolzman, PT, MPT

The Use of Hippotherapy in Adolescent Male s/p Subacute TBI: A Case Study

9:15 am–9:29 am

Speaker: Ellen Erdman, PT, DPT

Physical, Occupational, and Speech Therapy Services for Young Children With Developmental Delay: Capturing Unmet Service Needs Using National Survey Data

9:29 am–9:43 am

Speaker: Dawn Magnusson, PT, MPT, PhD

Relationship of School-Based Physical Therapy Services to Standardized Students Outcomes on the School Function Assessment

9:43 am–9:57 am

Speaker: Sarah McCoy, PhD

**RESEARCH**

**PLATFORM PRESENTATIONS 1: MARILYN Gossman GRADUATE STUDENT RESEARCH SEMINAR**

8:30 am–10:00 am

M White River Ballroom I

RE-2A-4391

**Moderator:** Justin Beebe, PT, PhD

Marilyn Gossman Graduate Student Research Seminar

8:30 am–8:32 am

**Moderator:** Justin Beebe, PT, PhD

Atypical Cortical Drive During Activation of the Paretic and Nonparetic Tibialis Anterior Are Related to Gait Deficits in Chronic Stroke

8:32 am–8:46 am

Speaker: Andrew Kittelson, PT, DPT

Identification of Pain Phenotypes in Knee Osteoarthritis Using Latent Class Analysis: Data From the Osteoarthritis Initiative

8:46 am–9:00 am

Speaker: Jacqueline Palmer, PT, DPT

Initial Results From the FastFES Randomized Controlled Trial

9:00 am–9:14 am

Speaker: Louis Awad, PT, DPT

Physical, Psychological, and Neurophysiological Risk Factors for Development of Chronic Neck Pain: A Prospective Cohort Study

9:14 am–9:28 am

Speaker: Bahar Shahidi, PT, DPT

Measuring Force-Generating Capacity of the First Dorsal Interosseous Using Peripheral Nerve and Transcranial Magnetic Stimulation

9:28 am–9:42 am

Speaker: Miriam Rafferty, PT, DPT, NCS

A New Kinetic Profile of Foot Function in People With Diabetes Mellitus and Peripheral Neuropathy

9:42 am–9:56 am

Speaker: Frank DiLiberto, PT, MS, OCS, FAAOMPT

**SPORTS PHYSICAL THERAPY**

**PLATFORM PRESENTATIONS 2: SPORTS RESIDENCY RESEARCH**

8:00 am–10:00 am  ICC 212

SP-2A-3711

**Moderator:** Charles Thigpen, PT, PhD, ATC

Platforms: Sports Residency Research

8:00 am–8:05 am

**Moderator:** Charles Thigpen, PT, PhD, ATC

Sports Residency: The Relationship Between Muscle Strength and Functional Outcome Measures in Athletes Following Hip Arthroscopy for Femoracetabular Impingement

8:05 am–8:15 am

Speaker: Chelseana Davis, PT, DPT

Sports Residency: Clinical Observation and Analysis of Movement Quality During Performance on the Star Excursion Balance Test

8:15 am–8:25 am

Speaker: Brandon Ness, PT, DPT, CSCS

Extreme Skier Returns to Sport Following Trunk Puncture Wound After Treatment of Stabilization Exercises Supplemented With Neuromuscular Electrical Stimulation

8:25 am–8:35 am

Speaker: Joseph Mahon, PT, DPT

Physical Therapy Utilization Is Not Influenced by Sex, Age, Graft Type, or Meniscal Repair in Adolescents Following ACLR

8:35 am–8:45 am

Speaker: Joseph Myhren, PT, DPT

A Comparison of Humeral Torsion and Shoulder ROM in High School Softball and Baseball Players

8:45 am–8:55 am

Speaker: Lisa Pataky, PT, DPT

Landing Mechanics in Youth Gymnasts From Dismounts in a Real-World Environment

8:55 am–9:05 am

Speaker: Annie Parker, PT, DPT

Sports Residency: The Effects of Lower Body Fatigue on the Kinematics of the Windmill Pitch in the Mature Softball Pitcher

9:05 am–9:15 am

Speaker: Jennifer Tarplee, PT, DPT

Rehabilitation Following an Acute Traumatic First Rib Fracture in a Collegiate Football Player

9:15 am–9:25 am

Speaker: Michael Sclafani, PT, DPT, CSCS

Glenohumeral External and Internal Rotation Strength Comparisons Between Collegiate Baseball Pitchers and Collegiate Fastpitch Softball Pitchers

9:25 am–9:35 am

Speaker: Lauren Habisch, PT, DPT, ATC

Baseball Players With Ulnar Collateral Ligament Tears Demonstrate Decreased Rotator Cuff Strength Compared to Healthy Controls

9:35 am–9:45 am

Speaker: Sean Bardenett, PT, DPT
PLATEFORM PRESENTATIONS 3: PREVENTION AND INTERVENTION STRATEGIES FOR SHOULDER, KNEE, AND ANKLE INJURIES
11:00 am–1:00 pm ICC 212
SP-2B-3721
Moderator: Charles Thigpen, PT, PhD, ATC
Prevention and Intervention Strategies for Shoulder, Knee, and Ankle Injuries
11:00 am–11:05 am
Moderator: Charles Thigpen, PT, PhD, ATC
The Gap Between ACL Injury Prevention Research and Its Successful Implementation Into Female Soccer Programs
11:05 am–11:15 am
Speaker: Nicole Canning
Effects of a Customized Exercise Intervention Program in Adolescent Basketball Players
11:15 am–11:25 am
Speaker: Laura Stanley, PT, DPT
Vibration-Induced Falling or Stability: Effects During Stance on Challenging Compliant Surfaces in Young Adults With and Without History of Repeated Ankle Sprains
11:25 am–11:35 am
Speaker: Anat Lubetzky-Vilnai, PT, MSc
A Neuromuscular Balance Training Program for Female High School Basketball Athletes to Prevent Ankle Sprains
11:35 am–11:45 am
Speaker: Kevin Mooney
Functional Movement Screening Components as Predictors of On-Field Performance Measures in Professional Baseball Pitchers
11:45 am–11:55 am
Speaker: Lane Bailey, PT, PhD, CSCS
Total Rotational Arc of Motion in the Sidelying Position: Evidence to Support an Alternate Position to Examine Glenohumeral Internal Rotation Deficit
11:55 am–12:05 pm
Speaker: Cort Chmielinski, PT, PhD, ATR
A Comparison of Humeral Torsion and Shoulder ROM in Youth Overhead and Non-Overhead Athletes
12:05 pm–12:15 pm
Speaker: Amanda Arnold, PT, DPT, ATC, OCS
Strength of the Shoulder Muscles Based on Scapular Position: A Prospective, Randomized Multicenter Trial Design
12:15 pm–12:25 pm
Speaker: Robert Manske, PT, DPT
Establishment of Normative Shoulder Internal Rotation Passive Range of Motion Values in the Sidelying and Semi-Sidelying Positions in Overhead-Throwing Athletes
12:25 pm–12:35 pm
Speaker: Hugo Klaers, PT, DPT
The Effectiveness of a Home-Based Eccentric Shoulder Exercise Program
12:35 pm–12:45 pm
Speaker: Tim Uh, PhD

PLATFORM PRESENTATIONS 4: EXCELLENCE IN RESEARCH AWARD
3:00 pm–5:00 pm ICC 212
SP-2C-3729
Moderator: Charles Thigpen, PT, PhD, ATC
Excellence in Research Award
3:00 pm–3:05 pm
Moderator: Charles Thigpen, PT, PhD, ATC
Self-Reported Function Predicts Quadriceps Strength at Return to Sport Following Anterior Cruciate Ligament Reconstruction
3:05 pm–3:15 pm
Speaker: Christine Zwolesi, PT, DPT, OCS
Quadriceps Femoris Strength Asymmetry Differentiates Single-Leg Drop-Landing Mechanics at Return to Sport in Young Athletes After Anterior Cruciate Ligament Reconstruction
3:15 pm–3:25 pm
Speaker: Matthew Ithurburn, PT, DPT
Cross-sectional Comparisons of Postural Sway Dynamics Demonstrate Potential as a Biomarker for mTBI Recovery
3:25 pm–3:35 pm
Speaker: Catherine Quatman-Yates, PT, DPT, PhD
Baseball Players With an Ulnar Collateral Ligament Reconstruction Demonstrate Lower Extremity Balance and Shoulder Range of Motion Measurements Similar to Healthy Controls at Time of Release From Physical Therapy
3:35 pm–3:45 pm
Speaker: Craig Garrison, PT, PhD, ATC, CSCS
Impaired Quadriceps Rate of Torque Development Alters Knee Mechanics After Anterior Cruciate Ligament Reconstruction
3:45 pm–3:55 pm
Speaker: Paul Kline, PT, DPT
Achieving Symmetry in ACL Return to Sport Testing Does Not Represent Prior Functional Levels
3:55 pm–4:05 pm
Speaker: Elizabeth Weilands, PT, DPT
Baseball Players Diagnosed With Epiphyseal Injuries Demonstrate ROM and Torsion Deficits Compared to Healthy Controls
4:05 pm–4:15 pm
Speaker: Ellen Shanley, PhD

SATURDAY, FEBRUARY 7

ACUTE CARE

PLATFORM PRESENTATIONS 2
8:00 am–10:00 am ICC 104
AC-3A-1890
Moderator: Barbara Smith, PT, PhD
Ready for Residency?
8:00 am–8:15 am
Speaker: Eric Stewart, PT, DPT
The Development of a Physical Therapy Mentorship Program in Acute Care
8:15 am–8:30 am
Speaker: Shannon Carthas, PT, DPT
Losing Control: A Case Study of a Physical Therapist With Acute Motor Axonal Neuropathy Variant of Guillain-Barre Syndrome in the Acute Care Setting
8:30 am–8:45 am
Speaker: Sarah Gross, PT, DPT
Implementation of an Interprofessional Mobility Program in the Medical ICU
8:45 am–9:00 am
Speaker: Barbara Schiavone, PT
Teams That Walk the Talk
9:00 am–9:15 am
Speaker: Eric Stewart, PT, DPT
Patients With Femoral Extracorporeal Membrane Oxygenation (ECMO) Cannulation Can Be Safely Mobilized
9:15 am–9:30 am
Speaker: Jenny Forrester, PT, DPT
Rehabilitation for Patients With Left Ventricular Assistive Devices Who Are Hospitalized for Acute Complications
9:30 am–9:45 am
Speaker: Tamra Keeney, PT, DPT

PLATFORM PRESENTATIONS 1:
8:00 am–10:00 am ICC 212
AC-3A-1890
Moderator: Charles Thigpen, PT, PhD, ATC
Hospitalized for Acute Complications With Ventricular Assistive Devices Who Are Rehabilitation for Patients With Left Ventricular Assistive Devices Who Are Hospitalized for Acute Complications
8:00 am–8:15 am
Speaker: Eric Stewart, PT, DPT
The Development of a Physical Therapy Mentorship Program in Acute Care
8:15 am–8:30 am
Speaker: Shannon Carthas, PT, DPT
Losing Control: A Case Study of a Physical Therapist With Acute Motor Axonal Neuropathy Variant of Guillain-Barre Syndrome in the Acute Care Setting
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Rehabilitation for Patients With Left Ventricular Assistive Devices Who Are Hospitalized for Acute Complications
9:30 am–9:45 am
Speaker: Tamra Keeney, PT, DPT
Platform Presentations

Cardiovascular and Pulmonary Section

Platform Presentations 3
8:00 am–10:00 am
ICC 210
CP-3A-4362

Moderator: Chris Wells, PT, PhD, ATC, CCS

Cardiovascular and Pulmonary Section
Platform Presentations 3
8:00 am–8:10 am
Moderator: Chris Wells, PT, PhD, ATC, CCS

Dynamic Inference in Cardiopulmonary PT Practice
8:10 am–8:20 am
Speaker: Sean Collins, PT, ScD

Fostering Effective Collaboration
Skills Among Nursing and Physical Therapy Students Using a Patient Code Simulation Scenario
8:20 am–8:30 am
Speaker: Kristin Lefebvre, PT, PhD, CCS

Survey of Nursing Confidence and Barriers to Early Mobilization of Patients in Critical Care
8:30 am–8:40 am
Speaker: Jennifer Anderson, PT, DPT

Determining the Interrater and Inter-instrument Reliability of an Electronic Stethoscope: A Pilot Study
8:40 am–8:50 am
Speaker: Patrick Hauer, PT, EdD, MHS

A University-Based Physical Activity Program for Individuals With Parkinson Disease
8:50 am–9:00 am
Speaker: John Greany, PT, PhD

Orthodeoxia-Platypnea: A Case Study on Initiating Mobility When Upright Cannot Be Tolerated
9:00 am–9:10 am
Speaker: Sara Alhajeri, PT, GCS

Derivation of a Clinical Prediction Rule to Identify Individuals With Chronic Fatigue Syndrome Based on Cardiopulmonary Exercise Testing
9:10 am–9:20 am
Speaker: Todd Davenport, PT, DPT, OCS

Hand Rehabilitation Section

Platform Presentations & Continental Breakfast
8:00 am–10:00 am
Room 203
HR-3A-5586

Moderator: Susan Duff, PT, EdD, OTR/L, CHT

Hand Rehabilitation Section Platform Presentations & Continental Breakfast
8:00 am–8:10 am
Moderator: Susan Duff, PT, EdD, OTR/L, CHT

The Patient-Specific Functional Scale: Relationship With the DASH in Patients With Upper Extremity Pathology
8:10 am–8:35 am
Speaker: Mia Erickson, PT, EdD, CHT

A Cross-Sectional Analysis of Grip Strength and Scapular Positioning in Asymptomatic Individuals
8:35 am–9:00 am
Speaker: Jeffrey Kwok, PT, DPT

Effects of Movement Duration on Use of the Affected Limb in Individuals Post-Stroke
9:00 am–9:25 am
Speaker: Sujin Kim, MS

The Use of Donor Activation as the Guiding Rehabilitation Strategy Following Multiple Nerve Transfer Surgeries: A Case Report
9:25 am–9:50 am
Speaker: Ashley Beers, PT, DPT
**NEUROLOGY**

**PLATFORM PRESENTATIONS 3: GAIT AND BALANCE II**

11:00 am–1:00 pm  
M Grand Ballroom 2  
NE-3B-1646

**Moderator:** Bart Hanson, PT, DScPT, NCS

- The Use of Specific Balance Assessments to Guide Development of a Balance-Focused Virtual Reality Intervention in Adults With TBI  
  11:00 am–11:15 am  
  Speaker: Kaitlin Hays, PT, DPT, NCS

- Virtual Reality-Based Therapy for the Treatment of Balance Deficits in Patients Receiving Inpatient Rehabilitation for Traumatic Brain Injury  
  11:15 am–11:30 am  
  Speaker: Denise O’Dell, PT, DSc

- Combining Magnetization Transfer Ratio Magnetic Resonance Imaging and Quantitative Measures of Walking Improves the Identification of Fallers in Multiple Sclerosis  
  11:30 am–11:45 am  
  Speaker: Nora Fritz, PT, DPT, PhD

- Fall Reduction and Functional Improvement With Balance-Based Torso-Weighting in People With Multiple Sclerosis  
  11:45 am–12:00 pm  
  Speaker: Gail Widener, PT, PhD

**ONCOLOGY**

**PLATFORM PRESENTATIONS 2**

8:00 am–10:00 am  
ICC 234  
ON-3A-7986

**Moderator:** Jeanette (Jet) Lee, PT, PhD

- Ipsilesional VOR Gain Adaptation: Advancing Gaze Stability Training  
  12:00 pm–12:15 pm  
  Speaker: Michael Schubert, PhD

- Increased Central Activation During Eccentric Contractions Is Associated With Increased Spinal Excitability During Muscle Lengthening in Individuals With Spinal Cord Injury  
  12:15 pm–12:30 pm  
  Speaker: Hyosub Kim, PT, DPT

- Withdrawal of Anti-Parkinson Medication Suppresses Central Activation of the Quadriceps in People With Parkinson Disease-Related Fatigue  
  12:30 pm–12:45 pm  
  Speaker: A. Threlkeld, PT, PhD

- Characteristics of Subjects Who Exhibit Avoidance Behavior Due to a Fear of Falling in Parkinson Disease  
  12:45 pm–1:00 pm  
  Speaker: Merrill Landers, PT, DPT, PhD, OCS

- Night Splinting Intervention to Manage Pain and Sleep Disturbances in Patients Living With HIV/AIDS-Related Neuropathy  
  9:22 am–9:40 am  
  Speaker: Robert Sandoval, PT, PhD
**ORTHOPAEDICS**

**PLATFORM PRESENTATIONS 6**
8:00 am–10:00 am  
ICC 110  
OR-3A-8609  
**Moderator:** Paul Mintken, PT, DPT, OCS, FAAOMPT

**Electrical and Posturography Measures in Working Individuals With Non-Acute Low Back Pain: Comparison With Age- and Sex-Matched Controls**
8:00 am–8:15 am  
**Speaker:** Duane Davis, PT, EdD, MS, OCS

**Defining Patient-Acceptable Symptom State Thresholds for Patient-Reported Outcomes Measures in Orthopedic Practice**
8:15 am–8:30 am  
**Speaker:** Alexis Wright, PT, DPT, PhD, FAAOMPT

**Accuracy of Self-Reported Versus Direct Measures for Height, Weight, and Derived Body Mass Index in the Outpatient Physical Therapy Setting**
8:30 am–8:45 am  
**Speaker:** Matt Lee, PT, DPT

**Relationships Between Different Measures of Body Composition, Lower Extremity Functional Performance, and Quality of Life in Children and Adolescents**
8:45 am–9:00 am  
**Speaker:** Katherine Winters

**A Novel Osteocyte Model That Recapitulates in VIVO Mechanical and Hormonal Responses**
9:00 am–9:15 am  
**Speaker:** William Thompson, PT, DPT, PhD

**Factors Associated With Predicting Time-Loss Injuries in Active-Duty Soldiers**
9:15 am–9:30 am  
**Speaker:** Deydre Teyhen, PT, PhD, OCS

**Prospective Musculoskeletal Injury Rates Among Different Categories of Soldiers**
9:30 am–9:45 am  
**Speaker:** Scott Shaffer, PT, PhD, OCS, ECS

**Establishment of Normative Shoulder Internal Rotation Passive Range of Motion Values in the Sidelying and Semi-Sidelying Positions in Non-athletic Persons**
9:45 am–10:00 am  
**Speaker:** Shannon Kelly, PT, DPT

**PLATFORM PRESENTATIONS 7**
11:00 am–1:00 pm  
ICC 110  
OR-3B-8612  
**Moderator:** Daniel White, PT, ScD, MSc

**Are Changes in Clinical Impairments Related to Improvements in Function After Total Hip Arthroplasty?**
11:00 am–11:15 am  
**Speaker:** Joseph Zeni, PT, PhD

**Effects of Trigger Point Dry Needling on Pain and Disability in Individuals With Patellofemoral Pain Syndrome**
11:15 am–11:30 am  
**Speaker:** Shane Koppenhaver, PT, PhD, OCS, FAAOMPT

**Sex Differences in Self-Reported Function up to 6 Months After Hip Arthroplasty for Symptomatic Femoroacetabular Impingement**
11:30 am–11:45 am  
**Speaker:** Roody Joseph, PhD

**Meniscus Volume in Persons With and Without Radiographic Knee Osteoarthritis**
11:45 am–12:00 pm  
**Speaker:** Toran MacLeod, PT, PhD

**Individuals With Isolated Patellofemoral Joint Osteoarthritis Exhibit Higher Mechanical Loading at the Knee During the Second Half of the Gait Cycle**
12:00 pm–12:15 pm  
**Speaker:** Hsiang-Ling Teng, PhD

**The Effect of Age on Perceived Level of Function Before and After a Primary Total Knee Arthroplasty**
12:15 pm–12:30 pm  
**Speaker:** William Draddy, PT, DPT

**Intraoperative Tourniquet Use Negatively Impacts Quadriceps Strength Following TKA: A Randomized Controlled Trial**
12:30 pm–12:45 pm  
**Speaker:** Brian Loyd, PT, DPT

**Validity of the Nintendo Wii Balance Board for Assessment of Weight-Bearing Asymmetry**
12:45 pm–1:00 pm  
**Speaker:** Sumayeh Abujaber, PT, MS

**The Influence on Patient Outcomes When a Referring Physician Understands and Applies the Clinical Prediction Rule for Spinal Manipulation in the Treatment of Acute Low Back Pain**
3:15 pm–3:30 pm  
**Speaker:** Stephen Hunter, PT, DPT

**Update on Neck Pain Clinical Practice Guideline Revision**
3:30 pm–3:45 pm  
**Speaker:** Peter Blanpied, PhD

**Improving Surgical Spine Outcomes Through a Targeted Postoperative Rehabilitation Approach**
3:45 pm–4:00 pm  
**Speaker:** Kristin Archer, PT, DPT, PhD

**Patient-Reported and Performance-Based Outcome Measures Following Spine Surgery: A Longitudinal Analysis**
4:00 pm–4:15 pm  
**Speaker:** Kristin Archer, PT, DPT, PhD

**Influences of Pain Self-Efficacy on Pain Catastrophizing: Evidence for Mediation and Moderation Roles in Outpatient Orthopedic Physical Therapy**
4:15 pm–4:30 pm  
**Speaker:** Trevor Lentz, PT, SCS, CSCS

**Kinesiophobia Levels at Initial Evaluation in Outpatient Physical Therapy**
4:30 pm–4:45 pm  
**Speaker:** Penny Goldberg, PT, DPT, ATC

**Ohio Physical Therapists’ Accuracy in Identifying Abnormalities on Diagnostic Images With and Without a Clinical Vignette**
4:45 pm–5:00 pm  
**Speaker:** Abby Morris, PT, DPT

**RESEARCH**

**PLATFORM PRESENTATIONS 2**
8:00 am–10:00 am  
M 101  
RE-3A-4431  
**Moderator:** Justin Beebe, PT, PhD

Section on Research Platform Presentations
8:00 am–8:03 am  
**Moderator:** Justin Beebe, PT, PhD

**Muscular Bracing as an Effective Strategy for Maintaining Lumbar Pelvic Control During Frontal Plane Stability Challenges in a Subgroup of Patients With Low Back Pain**
8:03 am–8:17 am  
**Speaker:** Matthew Burks, MSc

**Muscle Activation During a Wheelchair-Based Home Exercise Program Designed to Decrease Shoulder Pain for a Population With Paraplegia**
8:17 am–8:31 am  
**Speaker:** Linda Riek, PT, DPT, PhD
Platform Presentations

Physical Therapy for People Living With HIV/AIDS: A Needs Assessment
8:31 am–8:45 am
Speaker: Sara Pullen, PT, DPT, MPH

Do Kinematic Impairments Persist Between Symptomatic Episodes in Young Adults With Persistent Low Back Pain?
8:45 am–8:59 am
Speaker: Jo Armour Smith, PT, PhD

Hypoesthesia in Individuals With Painful Knee Osteoarthritis: Relationship Between Pain, Function, Vibratory Detection Deficits, and Diminished Proprioception
8:59 am–9:13 am
Speaker: Ali Alsouhibi

Reliability of Physical Activity Measures During Free-Living in Individuals With Knee Osteoarthritis
9:13 am–9:27 am
Speaker: Gustavo Almeida, PT, MS

Comparison of Hip Range of Motion Between Persons With and Without Femoracacetabular Impingement
9:27 am–9:41 am
Speaker: Jennifer Bagwell, PT, DPT

Calf Muscle and Compartmental Intermuscular Adipose Tissue (IMAT) Accumulation in Obese, Type 2 Diabetes Mellitus, and Peripheral Neuropathy: Relationship to Physical Function
9:41 am–9:55 am
Speaker: Adam Bittel, PT, DPT

Shoe Cushioning Influences Tibia Stress During Running
8:35 am–8:45 am
Speaker: Stacey Meardon, PhD

Running Injury and Dynamic Postural Control
8:45 am–8:55 am
Speaker: Anna Klusendorf

Reliability of a Qualitative Video Analysis for Running Gait
8:55 am–9:05 am
Speaker: Kristen Kotecki, PT, DPT

The Concurrent Validity and Reliability of 2-Dimensional Kinematic Analysis of Frontal Plane Motion During Running as Compared to 3-Dimensional Analysis
9:05 am–9:15 am
Speaker: Jennifer Maykut, PT, DPT

Step-Rate Manipulation as an Adjunct Intervention for Runners With Chronic Anterior Knee Pain
9:15 am–9:25 am
Speaker: James Crick

A Pilot Survey of an Urban Running Community to Identify Training Characteristics and Injury Profiles
9:25 am–9:35 am
Speaker: William Russell

Young, Competitive Long-Distance Runners With a History of Medial Tibial Stress Syndrome Have a Decreased Hip Abductor-to-Hip Extensor Strength Ratio Compared to Uninjured Runners
9:35 am–9:45 am
Speaker: Jeffery Taylor-Haas, PT, DPT

Functional Return in Adolescents With Meniscal Repair on Early ROM and Loading During Running in Individuals Who Are Post-Partial Meniscectomy
9:45 am–9:59 am
Speaker: Mathew Failla, PT, MSPT, SCS

Factors Associated With a Visually Assessed Quality of Movement During a Leg Extension and Leg Press to Isometric Dynamometry to Identify Clinically Meaningful Deficits in Quadriceps Strength
11:15 am–11:25 am
Speaker: Andrew Lynch, PT, PhD

Quadriceps Rate of Torque Development After Arthroscopic Partial Meniscectomy
11:25 am–11:35 am
Speaker: Daniel Cobian, PT, DPT, CSCS

Comparison of Quadriceps Activation and Outcomes by Graft Type at Time of Return to Activity After ACLR
11:35 am–11:45 am
Speaker: Mathew Failla, PT, MSPT, SCS

ACLR-SPORTS Training Improves Fear of Movement/Reinjury After Training
12:35 pm–12:45 pm
Speaker: Kathleen White, PT, DPT

Factors Impacting Return to Sports After ACLR
3:00 pm–3:05 pm
Moderator: Charles Thigpen, PT, PhD, ATC

Factors Impacting Return to Sports After ACLR
3:00 pm–3:05 pm
Moderator: Charles Thigpen, PT, PhD, ATC

Do Demographics, Utilization, and Cost of Physical Therapy Interventions Influence Clinical Outcomes in Individuals Following Anterior Cruciate Ligament Reconstruction?
3:05 pm–3:15 pm
Speaker: Jesse Christensen, PT, DPT, SCS
Faculty Position – Musculoskeletal/Orthopedic

A.T. Still University-Arizona School of Health Sciences (ASTU-ASHS) located on the Mesa, Ariz. campus is pleased to announce an open faculty position at the assistant or associate professor level in the residential Doctor of Physical Therapy program. Opportunities to teach using content expertise in the Orthopedic Residency program are also available. Rank and salary are commensurate with experience and qualifications. ATSU is a fully accredited graduate health professions institution with opportunities for interdisciplinary collaboration. As the founding school of osteopathic medicine, ATSU is committed to the integration of body, mind, and spirit. For more information visit www.atsu.edu.

Responsibilities: Include scholarship, academic and research advising, teaching, and service. The current entry-level musculoskeletal curriculum is well-developed and produces clinically strong graduates. We are seeking the addition of a faculty member with university teaching experience who can contribute to the program’s scholarship in the musculoskeletal area. The ATSU environment is supportive of faculty scholarship efforts and the program’s appointment for this position reflects that support.

Qualifications: Candidates must be eligible for physical therapy licensure in Ariz. The preferred candidate will have a PhD or equivalent post-professional academic doctoral degree, in addition to advanced certification or extended experience in musculoskeletal/orthopedic rehabilitation. The ideal candidate will demonstrate success in a defined area of scholarship and experience teaching at the university graduate physical therapy level. Candidates with strong foundations in kinesiology, biomechanics, therapeutic exercise, or other areas related to musculoskeletal rehabilitation will also be considered.

Interested applicants should: Complete an ATSU employment application, which can be found at http://www.atsu.edu/contact/jobs/display.asp and send a cover letter, curriculum vita, and three professional references to:

Cheri Hodges, PT, DPT, MAppSc, OCS, FAAOMPT
Assistant Professor
Physical Therapy Search Committee Chair
A.T. Still University-Arizona School of Health Sciences
5850 E. Still Circle
Mesa, AZ 85206

480.219.6078 phone | 480.219.6100 fax | hraz@atsu.edu email
(electronic submission is encouraged)

Dr. Hodges may also be contacted for inquiries about the position at chodges@atsu.edu

A.T. Still University of Health Sciences (ATSU) does not discriminate on the basis of race, color, religion, national origin, sex, gender, sexual orientation, age, or disability in admission to or access to, or treatment or employment in, its programs and activities. Harassment and retaliation are forms of discrimination prohibited by the university.
Knee Loading Asymmetries in Running Are Related to Early Gait Asymmetries in Individuals Following Anterior Cruciate Ligament Reconstruction  
3:15 pm–3:25 pm  
Speaker: Susan Sigward, PT, PhD, ATC

Knee Loading Deficits in a Single-Limb Loading Task and Running During Early Initiation of Running in Individuals Status Post Anterior Cruciate Ligament Reconstruction  
3:25 pm–3:35 pm  
Speaker: Kristamarie Pratt

Effects of Preferred Hip Strategy During Landing in ACL Reconstructed Athletes Returning to Sport  
3:35 pm–3:45 pm  
Speaker: Kevin Ford, PhD, FACSM

Challenging Walking Increases Knee and Hip Moments in Patients After Anterior Cruciate Ligament Reconstruction  
3:45 pm–3:55 pm  
Speaker: Erin Hartigan, PT, DPT, PhD, ATC

Hip Moment During Landing, Hip Strength, and Self-Reported Quality of Life Predict Contralateral Anterior Cruciate Ligament (ACL) Injury After ACL Reconstruction and Return to Sport  
3:55 pm–4:05 pm  
Speaker: Mark Paterno, PT, PhD, MBA, SCS, ATC

A Comparison of Outcomes Following ACLR in Collision, Contact, and Non-Contact Sport Athletes  
4:05 pm–4:15 pm  
Speaker: Amelia Arundale, PT, DPT, SCS

Impact of Thigh Muscle Recruitment on Limb Loading During Jump Landing After Anterior Cruciate Ligament Reconstruction  
4:15 pm–4:25 pm  
Speaker: Lindsey Ketterling

Altered Lower-Extremity Joint Moments During Running in Individuals 6-8 Months Post-ACL Reconstruction  
4:25 pm–4:35 pm  
Speaker: Mikel Stiffler

Subjects Who Fail Return to Activity Criteria 6 Months After ACL Reconstruction Continue to Demonstrate Deficits at 2 Years  
4:35 pm–4:45 pm  
Speaker: Zakaria Nawasreh, MS

Platform Presentations

WOMEN’S HEALTH

PLATFORM PRESENTATIONS

11:00 am–1:00 pm  M 104  WH-3B-8472

Moderator: Pamela Downey, PT, DPT, WCS

Section on Women’s Health Research Platform Presentations  
11:00 am–11:05 am  
Moderator: Pamela Downey, PT, DPT, WCS

Self-Reported Rehabilitation Needs and Physical Therapy Utilization of Breast Cancer Survivors  
11:05 am–11:19 am  
Speaker: Ann Marie Flores, PT, PhD, CLT

Obturator Internus and Pelvic Floor Function  
11:19 am–11:33 am  
Speaker: Elizabeth DeLozier

Pelvic Pain, Pelvic Organ Prolapse, Urinary and Colorectal Distress Incidence, and Relationship to Quality of Life and Birth Mode  
11:33 am–11:47 am  
Speaker: Amy Trautwein

Effect of an 8-Week Nutrition and Physical Therapy Education Program on Pelvic and Colorectal Pain, Prolapse, Incontinence, and Nutritional Intake on Quality of Life for Prenatal and Postpartum Women  
11:47 am–12:01 pm  
Speaker: Lori Walton, PT, DPT, PhD, CLT

Pelvic Girdle Pain and Postpartum Depressive Symptoms in the First 12 Weeks After Delivery: A Pilot Study  
12:01 pm–12:15 pm  
Speaker: Adrienne Simonds, PT, PhD

A Survey of Running Habits and Injury in a Postpartum Population  
12:15 pm–12:29 pm  
Speaker: Elizabeth Chumanov, PT, DPT, PhD

Inter-recti Distance Is Improved With an 8-Week Deep Abdominal Training Program  
12:29 pm–12:43 pm  
Speaker: Elizabeth Chumanov, PT, DPT, PhD

Health Concerns of Women in the Postpartum Period: A Qualitative Study  
12:43 pm–12:57 pm  
Speaker: Karen Abraham, PT, PhD
THURSDAY, FEBRUARY 5

AQUATIC PHYSICAL THERAPY

1001 Functional Outcomes After Aquatic Therapy in a 17-Year-Old Status-Post Osteotomy Due to Multi-Epiphyseal Hip Dysplasia
Little AA

1002 Improved Balance With Aquatic Therapy and Body Weight–Supported Treadmill Training for a Patient With Chronic Stroke
Cappadocia C

1003 The Outcomes Associated With an Aquatic-Based Exercise Program in a Woman Who Was Morbidly Obese: A Case Report
Ross MD

1004 For People With Multiple Sclerosis, Is There Evidence That Aquatic Group Exercise Improves Functional Mobility, Fatigue, and Strength?
Van Wingerden A

CLINICAL ELECTROPHYSIOLOGY AND WOUND MANAGEMENT

1006 A Multi-Treatment Approach for a Patient With Chronic Venous Insufficiency Ulcers and a Failed Skin Substitute Allograft
Warsinke A

1007 Electrocardiogram Artifact Removal in Electromyogram Recording
Cooper AS

1008 A Laboratory Comparison Between 2 Liquid Skin Barrier Products for Their Ability to Protect Skin From Moisture Exposure or Abrasion
Young D

1009 Identification and Prevention of Integumentary Disorders in the Athlete Who Presents With Darkly Pigmented Skin
Traylor EJ

1010 Effectiveness of Virtual Reality on Pain During Treatment of Burns: A Systematic Review
Graham E

1011 A Systematic Review on the Effects of Transcranial Magnetic Stimulation in Patients With Neuropathic Pain
Adah F

1012 The Effects of Electrode Placement and Type on Muscle Force Production During Neuromuscular Electrical Stimulation
Bellevue JW

1013 Noncontact Low-Frequency Ultrasound Therapy for the Treatment of Neuropathic and Diabetic Lower Extremity Wounds: A Systematic Review and Meta-Analysis
Lee J

1014 Confirming Effective Off-Loading and Repositioning Using Continuous Bedside Pressure Mapping
Thurman K

1015 The Effects of the Inter-Phase Interval of Biphasic Pulsed Current and Volitional Muscle Fatigue on the Electrically Induced Contraction Levels of the Quadriceps Femoris Muscles
Parker MG

1016 The effectiveness of medical honey vs. silver sulfadiazine as a topical treatment for acute partial thickness burns: a meta-analysis
Wood S

1017 Electrically-Elicited Muscle Torque: Russian Stimulation Versus Optimized Monophasic Square Wave Pulses
Scott W

GERIATRICS

1019 Predicting Discharge Destination Following Hip Fracture Using the Cumulated Ambulation Score
MacPhedran AK

1020 A 12-Week Static Balance Training Program Shows Improvements in Medio-lateral Components of Balance
Schallhorn A

1021 Critical Values of Leg Intermuscular Adipose Tissue, Planter Flexor Strength, and Stair Power to Differentiate Individuals With Sarcopenia and Obese Type 2 DM
Bittel A

1024 Optimal Living for an Older Adult: A Model of Wellness
Gomez AM

1025 Age- and Activity-Related Coactivation Differences Underlying Maximal Power Production in Young and Older Adults
Newstead AH

1026 8 Minutes of Awareness: Can a Single Experiential Learning Exercise Transform Understanding and Awareness of Dementia in a DPT curriculum?
Lorio AK

1027 Balance Accelerometry in Residents of Long Term Care Facilities
Alqahtani B

1028 Evaluation of a Tool for Assigning Physical Activity Classes for Residents in Personal Care Facilities
Ennis B
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<td>1031 Grip Strength in Senior Athletes</td>
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<td>1032 Forward Head Posture and Shoulder Flexibility in Senior Athletes</td>
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<td>1033 The Effect of a New Gait Training Program on an Elderly Patient Following a Total Knee Arthroplasty</td>
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<td>1034 LSST®BIG and Retention of Functional Gains in Subjects With Parkinson Disease</td>
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<td>1036 Relationships Between Lower Extremity Adipose Tissue, Muscle Performance, and Physical Function in Obese Adults With and Without Type 2 Diabetes and Peripheral Neuropathy</td>
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<td>1037 Does the Dynamic Gait Index Measure Change in Balance Performance Among Community Dwelling Adults: A Systematic Review</td>
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<td>1039 The Effects of a Pilates/Ballet Exercise Program on Dynamic Balance in a Group of Older Adults: A Case Series</td>
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<td>1040 Community-Based Falls Prevention Programs: Challenges, Partnering, and Service Learning Opportunity for Entry-Level Physical Therapist Students</td>
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3340  Meeting the Needs of an Underserved Population: Developing a Program to Address Pelvic Floor Dysfunction
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At Ohio State, our mission is to advance the profession of physical therapy through education, scholarship, leadership, and service. With outstanding students and faculty, excellent clinical partners, and innovative educational and outreach programs, we aim to be among the truly great physical therapy programs. Our PhD in Health and Rehabilitation Sciences, including a dual degree program for the DPT/PhD, is preparing future PT faculty. Residency and fellowship programs, with residents as teaching assistants for PT skills labs, model professional excellence to our DPT students, maintain close relationships with our clinics, and prepare the next generation of master clinicians. DPT students at OSU can specialize in research, pediatrics, or global health. Our partnerships with a PT school in Merida, Mexico, and in Columbus with a physician’s free clinic and a family and neighborhood clinic foster diverse perspectives in health care. We support six PT faculty research labs including biomechanics, neurologic rehabilitation, pediatrics, and motor control systems. Research partnerships with neuroscience, engineering, orthopedics, neonatology, neurology, physical medicine and rehabilitation, and sports medicine among others offer a powerful research training environment.

**Clinical Excellence Across the Board**

- Between the PT School and the clinics, we have 51 board certified clinical specialists, including sports, orthopedics, neurology, geriatrics, and pediatrics.
- Our residency training has produced 40 graduates, and 2 fellows in pro baseball.
- The OSU Wexner Medical Center offers comprehensive PT services. We’ve been among “America’s Best Hospitals” by US News and World Report for 21 years.
- Our faculty and clinicians work together in clinical research, education of DPT and PhD students, residents and fellows. We hold service and leadership positions in the APTA, CDC, NIH, the Foundation for Physical Therapy Research, and more.
- For information about residency or fellowships, contact John DevWitt, PT, DPT, SCS, AT, Director of PT Residencies & Fellowships, john.devwitt@osumc.edu, (614) 293-2385.
- For information about academic programs and research opportunities at OSU, contact John Buford, PT, PhD, Program Director, buford.5@osu.edu, (614) 292-5922.

Visit our website to learn more today:

http://medicine.osu.edu/hrs/pt

**Creating the Future of Physical Therapy**

Session handouts are available at www.apta.org/CSM. Use code CSM2015.
### APTA SECTION BOOTHS

<table>
<thead>
<tr>
<th>Section</th>
<th>Booth #</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academy of Geriatric Physical Therapy, APTA</td>
<td>841</td>
<td><a href="http://www.geriatricpt.org">www.geriatricpt.org</a></td>
</tr>
<tr>
<td>The Section on Geriatrics fosters clinical excellence and the professional and career development of physical therapists and physical therapist assistants working with older adults by providing members with continuing education and assistance in the areas of practice, research, and advocacy.</td>
<td></td>
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</tr>
<tr>
<td>Acute Care Section, APTA</td>
<td>822</td>
<td><a href="http://www.acutept.org">www.acutept.org</a></td>
</tr>
<tr>
<td>The Acute Care Section is dedicated to meeting the needs of physical therapy practitioners in all practice settings who work with persons with acute care needs across the lifespan.</td>
<td></td>
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</tr>
<tr>
<td>Aquatic Physical Therapy Section, APTA</td>
<td>823</td>
<td><a href="http://www.aquaticpt.org">www.aquaticpt.org</a></td>
</tr>
<tr>
<td>The Aquatic Physical Therapy Section strives to advance the practice of aquatic physical therapy.</td>
<td></td>
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<tr>
<td>Cardiovascular and Pulmonary Section</td>
<td>820</td>
<td><a href="http://www.cardiopt.org">www.cardiopt.org</a></td>
</tr>
<tr>
<td>The Cardiovascular and Pulmonary Section serves its members, the physical therapy profession, and the community by promoting the development, application, and advancement of cardiovascular and pulmonary physical therapy practice, education, and research.</td>
<td></td>
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</tr>
<tr>
<td>Clinical Electrophysiology &amp; Wound Management Section, APTA</td>
<td>831</td>
<td><a href="http://www.aptasce-wm.org">www.aptasce-wm.org</a></td>
</tr>
<tr>
<td>The Section addresses the needs of its members in electrotherapy/physical agents, electrophysiological evaluation, physical agents, and wound management. The section provides continuing education programs and works to influence legislative and reimbursement issues that affect physical therapy services.</td>
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<tr>
<td>Education Section, APTA</td>
<td>829</td>
<td><a href="http://www.aptaeducation.org">www.aptaeducation.org</a></td>
</tr>
<tr>
<td>The Education Section is dedicated to developing each new generation of physical therapy practitioners, academic educators, educational leaders, and administrators.</td>
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<td></td>
</tr>
<tr>
<td>Federal Physical Therapy Section, APTA</td>
<td>839</td>
<td><a href="http://www.federapt.org">www.federapt.org</a></td>
</tr>
<tr>
<td>The Federal Physical Therapy Section provides opportunities for networking, continuing education, leadership, and professional development for physical therapists and physical therapist assistants who are or have been employed by the federal government in civil service, as members of the uniformed services, as contractors or as tribal hires.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand Rehabilitation Section, APTA</td>
<td>834</td>
<td><a href="http://www.handrehabsection.com">www.handrehabsection.com</a></td>
</tr>
<tr>
<td>The Hand Rehabilitation Section provides a forum for members with a common interest in hand and upper extremity rehabilitation to meet, confer, and promote current concepts in hand management.</td>
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<tr>
<td>Home Health Section, APTA</td>
<td>835</td>
<td><a href="http://www.homehealthsection.org">www.homehealthsection.org</a></td>
</tr>
<tr>
<td>The Home Health Section serves those with interests or practices in home health care and other “out-of-hospital” settings. The Section provides a forum for exchanging information on clinical practice, education, reimbursement, documentation, management, regulatory, and other issues specific to the home health environment.</td>
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<tr>
<td>Neurology Section, APTA</td>
<td>830</td>
<td><a href="http://www.neuropt.org">www.neuropt.org</a></td>
</tr>
<tr>
<td>The mission of the Neurology Section is to serve neurologic physical therapy providers and to advance evidence-based practice, education, and research in neurologic physical therapy.</td>
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<tr>
<td>Oncology Section, APTA</td>
<td>821</td>
<td><a href="http://www.oncologypt.org">www.oncologypt.org</a></td>
</tr>
<tr>
<td>The Oncology Section provides a forum for the sharing of knowledge, ideas, and skills pertaining to physical therapy for the person diagnosed with cancer or HIV/AIDS.</td>
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<tr>
<td>Orthopaedic Section, APTA</td>
<td>838</td>
<td><a href="http://www.orthopt.org">www.orthopt.org</a></td>
</tr>
<tr>
<td>The Orthopaedic Section provides a forum for those with an interest in the management of patients with musculoskeletal disorders. Education Groups: PTA, Knee/Patellafemoral, Manual Therapy, and Primary Care.</td>
<td></td>
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<tr>
<td>Private Practice Section, APTA</td>
<td>832</td>
<td><a href="http://www.ppsapta.org">www.ppsapta.org</a></td>
</tr>
<tr>
<td>The Private Practice Section fosters economic viability and professional development of the private practitioner and promotes physical therapy ownership and management of physical therapy services through education, legislation, and networking.</td>
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<tr>
<td>Section on Health Policy and Administration, APTA</td>
<td>833</td>
<td><a href="http://www.aptahpa.org">www.aptahpa.org</a></td>
</tr>
<tr>
<td>The mission of the Health Policy &amp; Administration Section is to develop health care leaders within the profession; advocate APTA positions and initiatives regarding health policy and the administration of physical therapist practice; and serve as a resource to members through practice, education, and scholarship.</td>
<td></td>
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<tr>
<td>Section on Pediatrics, APTA</td>
<td>824</td>
<td><a href="http://www.pediatricapta.org">www.pediatricapta.org</a></td>
</tr>
<tr>
<td>The Section on Pediatrics promotes the highest quality of life for all children, people with developmental disabilities, and their families.</td>
<td></td>
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<tr>
<td>Section on Research, APTA</td>
<td>828</td>
<td><a href="http://www.ptresearch.org">www.ptresearch.org</a></td>
</tr>
<tr>
<td>The Section on Research aims to foster as well as enhance quality and dissemination of a spectrum of physical therapy-related research through section and member activities.</td>
<td></td>
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</tr>
<tr>
<td>Section on Women’s Health, APTA</td>
<td>825</td>
<td><a href="http://www.womenshealthapta.org">www.womenshealthapta.org</a></td>
</tr>
<tr>
<td>The Section on Women’s Health is dedicated to promoting and expanding the role of physical therapy in women’s health across the lifespan. The section provides networking opportunities, resources, and continuing education.</td>
<td></td>
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</tr>
<tr>
<td>Sports Physical Therapy Section, APTA</td>
<td>840</td>
<td><a href="http://www.spts.org">www.spts.org</a></td>
</tr>
<tr>
<td>The Sports Physical Therapy Section addresses the needs of its members who are interested in athletic injury management, including acute care, treatment and rehabilitation, prevention, and education.</td>
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<thead>
<tr>
<th>EXHIBITOR BOOTH</th>
<th>Website</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>A. T. Still University</strong></td>
<td><a href="http://www.atsu.edu">www.atsu.edu</a></td>
<td>TDPT program is 100% online, flexible, and affordable to meet your needs. Customized academic plans are based on prior work experience and CEUs.</td>
</tr>
<tr>
<td><strong>A2C Medical</strong></td>
<td><a href="http://www.a2cmedical.com">www.a2cmedical.com</a></td>
<td>Clinic Controller: Therapy is the complete practice management solution covering billing, scheduling, documentation, and reporting. Come see what sets us apart from the others.</td>
</tr>
<tr>
<td><strong>ABPTRE (APTA Residency &amp; Fellowship Accreditation)</strong></td>
<td><a href="http://www.abpte.org">www.abpte.org</a></td>
<td>Thinking about applying to, or developing, a physical therapy residency or fellowship program? Then come by and ask the experts your questions.</td>
</tr>
<tr>
<td><strong>ABPTS</strong></td>
<td><a href="http://www.abpts.org">www.abpts.org</a></td>
<td>ABPTS coordinates the specialist certification process for APTA. Since 1985, over 14,392 specialists have been certified in 1 of our 8 specialty areas.</td>
</tr>
<tr>
<td><strong>Acadaware</strong></td>
<td><a href="http://www.acadaware.com">www.acadaware.com</a></td>
<td>Acadaware clinical software integrates each aspect of clinical education for experiential learning programs. The result: most efficient processes that close the information loop!</td>
</tr>
<tr>
<td><strong>American Council of Academic Physical Therapy (ACAPT)</strong></td>
<td><a href="http://www.acapt.org">www.acapt.org</a></td>
<td>Serve and lead academic physical therapy by promoting excellence in education, scholarship and research, practice and service to improve the health and wellness of society.</td>
</tr>
<tr>
<td><strong>Academy of Lymphatic Studies</strong></td>
<td><a href="http://www.acols.com">www.acols.com</a></td>
<td>Certification courses and seminars in manual lymph drainage and complete decongestive therapy for lymphedema management. CEUs available. We also sell bandaging supplies and compression garments.</td>
</tr>
<tr>
<td><strong>Accelerated Care Plus</strong></td>
<td><a href="http://www.accelerated-care-plus.com">www.accelerated-care-plus.com</a></td>
<td>ACP (Accelerated Care Plus) is the nation’s leading provider of modality-based clinical programs for rehabilitation, combining innovative technology with evidence-based protocols and advanced therapist training.</td>
</tr>
<tr>
<td><strong>Advanced Medical</strong></td>
<td><a href="http://www.advanced-medical.net">www.advanced-medical.net</a></td>
<td>Advanced medical offers nationwide travel assignments for physical therapists. We offer comprehensive benefits, mentorship, CEU’s, tuition reimbursement, housing, and terrific pay packages.</td>
</tr>
<tr>
<td><strong>Aegis Therapies</strong></td>
<td><a href="http://www.aegistherapies.com">www.aegistherapies.com</a></td>
<td>Bracing solutions for foot drop (TeeOFF/BlueROCKER), genu-recurvatum (COMBO™/CHECK™), as well as innovative splinting systems, and contracture management (MultiMotion), and pediatric bracing (KiddieGAIT/KiddieROCKER &amp; SWASH™).</td>
</tr>
<tr>
<td><strong>Allina Hospitals &amp; Clinics</strong></td>
<td><a href="http://www.allina.com">www.allina.com</a></td>
<td>Allina Health is a not-for-profit system of 11 hospitals, over 75 clinics, and other health care services located in Minnesota and western Wisconsin.</td>
</tr>
<tr>
<td><strong>AlterG Inc</strong></td>
<td><a href="http://www.alterg.com">www.alterg.com</a></td>
<td>AlterG’s anti-gravity treadmill provides up to 80% body weight support, in 1% increments, so patients can rehab sooner and athletes can train through injuries.</td>
</tr>
<tr>
<td><strong>American 3B Scientific</strong></td>
<td><a href="http://www.3bs.com">www.3bs.com</a></td>
<td>American 3B Scientific offers professional quality fitness, rehab, therapy, patient education products, and supplies. Treatment tables, hot/cold therapy, electrotherapy, massage equipment, and anatomical models.</td>
</tr>
<tr>
<td><strong>American Society of Hand Therapists</strong></td>
<td><a href="http://www.asht.org">www.asht.org</a></td>
<td>ASHT is a professional organization comprising licensed occupational and physical therapists who specialize in the treatment and rehabilitation of the upper extremity.</td>
</tr>
<tr>
<td><strong>AMTI</strong></td>
<td><a href="http://www.amti.biz">www.amti.biz</a></td>
<td>With the OPTIMA system, AMTI is revolutionizing multi-axis force measurement technology with a platform offering 10-fold accuracy improvement over any other platform in the market.</td>
</tr>
<tr>
<td><strong>AmTryke/AMBUCS</strong></td>
<td><a href="http://www.ambucs.org">www.ambucs.org</a></td>
<td>AmTryke therapeutic tricycles create mobility and independence for people with disabilities. Our fleet of trykes and adaptations make it possible for nearly everyone to ride!</td>
</tr>
<tr>
<td><strong>Anatomical Concepts Inc</strong></td>
<td><a href="http://www.anatomicalconceptsinc.com">www.anatomicalconceptsinc.com</a></td>
<td>Anatomical Concepts Inc is the original concept developer of the PRAFO® ankle foot orthosis. As well as manufacturer/supplier of quality custom-fit and custom-made orthoses.</td>
</tr>
<tr>
<td><strong>Anatomy in Clay® Learning System</strong></td>
<td><a href="http://www.anatomyinclay.com">www.anatomyinclay.com</a></td>
<td>Anatomy in Clay® Learning System offers unique, successful hands-on anatomy teaching models for teachers and students alike—promotes learning, understanding, and knowledge retention.</td>
</tr>
<tr>
<td><strong>Anders Group LLC</strong></td>
<td><a href="http://www.andersgroup.org">www.andersgroup.org</a></td>
<td>Anders Group has a “different” approach to staffing. We find the best match for you. Anders offers temporary and permanent placements, nationwide, in all settings.</td>
</tr>
</tbody>
</table>
Aretech is the world leader in robotic overground body-weight support systems. Our products are developed based on evidence-based research and our extensive experience and expertise.

Ari-Med Pharmaceuticals
Booth #1917

Stop by for a free sample and information on Flexall Pain Relieving Gels (mentholated aloe vera gels); versatile additions to many therapy protocols, including ultrasound.

Armedica Manufacturing
Booth #934

Armedica manufactures a broad range of hi-lo treatment & traction tables, including bariatric models, hi-lo mat platforms, electric parallel bars and various other PT equipment.

ASICS
Booth #420

ASICS is a premium producer of athletic footwear + apparel and is proud to release our new Workplace, Running, Tennis and Volleyball lines to market.

Assist Tables/Electro-Medical Equipment
Booth #1523

Assist High/Low Tables are designed for the safe treatment and positioning of patients in physical rehabilitation facilities. Nearly 30 years experience; thousands of tables sold.

Astym Treatment
Booth #429

Astym treatment sets the standard in soft tissue therapy. It is the only regenerative medicine in therapy, and is unmatched in resolving soft tissue disorders.

Athletico Physical Therapy
Booth #620

Athletico is the largest provider of outpatient orthopedic physical therapy in the Midwest, providing patient-centered physical therapy services to over 330+ locations in eight states.

ATI Physical Therapy
Booth #1609

ATI Physical Therapy is a growing and highly-energetic privately-held orthopedic rehabilitation company committed to being the best in the industry.

Aureus Medical Group
Booth #1905

Aureus Medical is a leader in health care staffing. Our specialized Rehabilitation Therapy division offers local contract, travel, and full-time opportunities nationwide.

Bailey Manufacturing Co
Booth #1521

Join us as we celebrate 58 years of making the best products for physical therapy, sports medicine and occupational therapy, here in the USA!

Balanced Body
Booth #1429

For over 36 years Balanced Body has worked with rehabilitation professionals to develop the most versatile, practical, and safe Pilates-based rehabilitation equipment on the market.

Balancemetrics LLC
Booth #1444

Bankers Leasing Co
Booth #1116

Bankers Leasing Company offers the latest innovations in leasing professional equipment, combined with flexible options and the ultimate in service.
Why Become Trained In Functional Dry Needling®?

Here are a few benefits of Functional Dry Needling:

- Assess and treat not only the pain but the functional impairment causing the pain.
- Drastically improve patient satisfaction as this treatment can provide them with the immediate relief they desire.
- Improve your marketability by offering a treatment that is now demanded by many patients.
- Functional Dry Needling is a modality that can be easily integrated into your current treatment techniques & style. Use FDN immediately after completion of Level 1.
- Protect your hands with a technique that is gentle on the therapist.

Upcoming Dates:

Level 1
Feb 20-22 Birmingham, AL
Feb 27-Mar 1 Ashburn, VA
Feb 27-Mar 1 Calgary, Alberta
Mar 13-15 Brighton, CO
Mar 20-22 Ashburn, VA
Mar 20-22 Las Vegas, NV
Mar 27-29 Durham, NC
Apr 10-12 Brighton, CO
Apr 24-26 Ashburn, VA

Level 2
Mar 6-8 Denver, CO
Apr 10-12 New Orleans, LA
Apr 24-26 Birmingham, AL

Hub Locations

- Brighton, CO
- Reston, VA
- Atlanta, GA
- Las Vegas, NV
- Fort Worth, TX
- Vancouver, BC

Call (877) 573-7036 or Click Today for Details, Schedules & Online Registration

www.KinetaCore.com
The Barral Institute
Barral Institute is an international continuing education organization based on innovative manual therapies developed by world-renowned French osteopath-physical therapist Jean-Pierre Barral and French osteopath Alain Croibié.

Beds by George
Safety beds for children, youth, adults. Suitable for special needs, disabled, medically fragile, or with dementia who are at risk in bed.

BenchMark Rehab Partners
BenchMark Rehab Partners is committed to high-quality, evidence-based care with a passion for excellence. We have over 165 locations in 8 states.

Bertec Corp
Bertec Corporation is taking balance assessment and treatment to the next level. Come see how Bertec’s unique Immersive Virtual Reality environment can enhance your practice.

Biodex Medical Systems Inc
Biodex introduces the NEW Sit2Stand™ Trainer. Strengthen lower extremities in a safe, progressive environment. Allow therapists to teach and reinforce seated to standing function.

BioEx Systems Software
NEW Exercise Pro LIVE cloud-based video exercise programs and Exercise Pro desktop. Fitness assessment software, senior & functional testing for wellness programs. Show specials.

Biogaming
Yugo is an e-Health software system that gamifies physical therapy exercises, automatically transforming them into fun and interactive virtual computer games or a virtual trainer.

Biomechanical Services
Biomechanical Services offers custom, semi-custom, and prefabricated foot orthotics, therapeutic footwear, custom sandals, lower extremity evaluation systems, balance therapy tools, and educational courses.

Bioness Inc
Bioness develops and manufactures pioneering technologies that provide functional and therapeutic benefits for individuals affected by pain and central nervous system injuries and disorders.

BMS Practice Solutions
Leading provider of outsourced revenue cycle management services for independent therapy practices, including web-based technology solutions consisting of billing, reporting EMR, and scheduling.

Borgess
Are you a PT/PTA who seeks something more fulfilling than the daily grind? At Borgess, we consider health care a calling, not simply a job.

Boston Brace
Our innovative company, known for breakthrough scoliosis treatment, also distributes dynamic movement orthoses (DMOs). DMOs manage tone and direct movement for better function and posture.

Brighton Rehabilitation
Brighton Rehabilitation is a full-service comprehensive rehabilitation company. We service the western United States with job opportunities in California, Hawaii, Arizona, Washington, and Utah.

Brooks Institute of Higher Learning
Brooks IHL is the academic division of Brooks Rehabilitation in Jacksonville, Florida, providing state-of-the-art continuing education, residency, fellowship, and clinical internship programs.

BTE Technologies Inc
BTE produces innovative solutions to keep patients actively engaged in treatment and returning for exercises they can’t do at home. Come try the new Eccentron.

BTS Bioengineering Corp
BTS Bioengineering designs the most innovative solutions for motion analysis leading the way in wireless EMG technology, 3D motion capture, force plates, and inertial sensors.

Canine Rehabilitation Institute
The premier certification program in canine rehabilitation therapy. Canine Rehabilitation Institute is a CEU provider for PTs. Visit our booth at #935.

Cardon Rehabilitation & Medical Equipment Ltd
Visit Booth #515 to see what’s NEW at Cardon! NEW 15-year warranty. NEW surround bar hi-lo control, NEW traction table. NEW adjustable height table.

Cariant Health Partners
Cariant Health Partners provides qualified therapy professionals to health care facilities throughout the US on a temporary contract basis—New grads welcome!

Carpal Therapy / SASTM.com
David Graston, a pioneer in instrument-assisted soft tissue mobilization (IASTM) industry, has created the SASTM method for treating soft tissue injuries.

Cascade DAFO Inc
Cascade Dafo, Inc. manufactures the original DAFO® (dynamic ankle foot orthosis)—offering pediatric lower-extremity bracing solutions, fast turnaround times, and a full (90-day) warranty.

Cedaron Medical Inc
Eliminate denials, streamline workflow, and increase productivity with APTA CONNECT, the industry’s most trusted, flexible, and comprehensive rehab EMR, documentation, compliance, and reporting solution.

Cell Staff
Are you ready for a FRESH START? Of course you are, and Cell Staff can help. Let us show you how good “good” can be.

Certiphi Screening Inc
Certiphi Screening developed and administers centralized student screening programs for APTA, AACMC, AACP, ASCO, and ADEA, and offers pre-employment applicant screening programs for individual schools.
CIR Systems / GAITRite
www.gaitrite.com

GAITRite: WORLD LEADER in truly portable gait analysis produces rapid, quantifiable, evidenced-based, objective measurements. Quick-easy setup—Assess variability, determine dynamic balance, predict fall risk.

Clarke Healthcare Inc
www.clarkehealthcare.com

Featuring the new DST Dynamic Stair Trainer. The first height-adjustable steps for stair training and parallel bars, all in one, easily moveable unit.

Clinical Pattern Recognition
www.clinicalpatternrecognition.com

The first guideline-based, clinical reasoning rehabilitation app for iPhone, iPad, and the web. Simplifying the integration of manual therapy, movement, and pain sciences.

Clinicent
www.clinicent.com

Clinicent provides all-in-one, cloud-based scheduling, documentation, billing, revenue cycle management, and data-driven coaching to help therapy practices take control and grow with confidence.

CodeMetro Inc
www.codemetro.com

CodeMetro is the leading business operations management company focused on the special needs industry, offering: practice management software, medical insurance billing, and administrative services.

The College of St. Scholastica
www.css.edu/applyTDPT

The College of St. Scholastica’s transitional Doctor of Physical Therapy program is 100% online, 6 courses/16 credits, and moderately priced! DPT education leader since 1973.

Concentra Physical Therapy
www.concentrapt.com

Concentra combines therapist/physician teams with early intervention and evidence-based practice models to facilitate rapid return to function with reduced risk of re-injury.

Contemporary Design Co. (Shuttle Systems)
www.shuttlesystems.com

Shuttle Systems focus on facilitating the early recovery from acute injury or surgery, to the advancement of ACLs and athletic performance through function, precision, quality.

Convaid Inc
www.convaid.com

Leading manufacturer of lightweight, compact-folding wheelchairs for children and adults. Many models offer advanced seating and positioning, and crash tested transit chairs are available.

Core Products
www.coreproducts.com

Core’s expertise is pillows/supports and hot/cold therapy. We are excited to introduce a new innovative product, WiTouch, a wireless remote controlled back pain relief device.

Core Stix LLC
www.corestix.com/physical-therapy

Perform 100s of physical therapy protocols and functional exercises for every part of the body, in both standing and seated positions. New also wheelchair accessible.

CranioCradle
www.craniocradle.com

The CranioCradle is a therapy tool designed to be used under the cranium, thoracic, lumbar, and sacral areas to relieve pain and dysfunction.

Cross Country TravCorps Allied
www.crosscountryallied.com

Cross Country TravCorps Allied Division places rehab therapists, speech-language pathologists, respiratory care practitioners, imaging/radiologic technologists, and medical laboratory professionals in travel positions nationally.

CSMi
www.csmisolutions.com

HUMAC NORM (previously CYBEX NORM) isokinetic system, refurbished isokinetic systems. HUMAC computer/software update for BIODEX & CYBEX isokinetic machines, and HUMAC Balance System.

Current Medical Technologies Inc
www.cmtmedical.com

Nationally recognized leader of clinical instrumentation, supplies, accessories, and home DME for the treatment of bowel & bladder dysfunction. Come see what’s new for 2014!

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www.dartfish.com

Dartfish Technologies are video-based tools providing data-driven feedback and live visual feedback to present correct protocols and to track patient progress over time.

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www.delsys.com

Delsys Inc is a world leader in electromyography. Our line of EMG products and biomechanics sensors provide researchers versatility and reliability.

The Delta Companies
www.tdcepeople.com

The Delta Companies offer permanent and temporary staffing solutions nationwide for allied and therapy health care professionals are represented by Delta Healthcare Providers.

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www.DignityHealth.org/careers

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DJO Global, Inc
www.djoglobal.com


Doctor Hoy’s Natural Pain Relief
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Two products! DOCTOR HOY’S Pain Relief Gel and Arnica Boost...Powered by Camphor, Menthol, Arnica...Timed delivery system...Use separately or combine for maximum relief.

Drayer Physical Therapy Institute
www.drayerpt.com

Outpatient orthopedic physical therapy company. 100+ locations in 14 states. Interested in speaking with job seekers, potential students for residency, and business development opportunities.

DS2 Rehab Systems, LLC
www.ds2rehabsystems.com

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Frequency Specific Seminars teaches a technique shown to reduce inflammation, treat myofascial, neuropathic pain, scar tissue, fibromyalgia, brain injuries, and other challenging conditions.

FSBPT—Federation of State Boards of Physical Therapy
www.fsbpt.org
FSBPT promotes public protection through development of regulatory standards, resources, tools, and systems for licensees and regulatory boards to assess entry-level and continuing competence.

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www.goodshepherdpenpartners.org
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The SafeGait 360 Balance & Mobility Trainer provides a safer rehabilitation experience, detailed assessments, and the potential to strengthen clinical outcomes while reducing facility costs.

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www.phschiropractic.com/store/PHS-Therapeutics-C165.aspx
Class IV laser therapy, therapy treatment tables, massage tables, work conditioning.

Polestar Pilates Education  
www.polestarpilates.com
Polestar Education is a worldwide provider of rehabilitation-based Pilates education, producing high-caliber Pilates teachers and successful Pilates studio models.

PowerPlay  
www.powerplay.us
POWERPLAY—the most affordable, portable cold and compression therapy available. Small and battery powered, PowerPlay provides joint relief and muscle recovery anywhere.

Practice Perfect EMR & Management Software  
www.practiceperfectemr.com
Practice Perfect. Integrated billing, scheduling, documentation, EMR, & business growth tools. Let us help you fill your calendar! Book your demo today.

Preferred Healthcare Registry  
www.preferredhealthcareregistry.com
Since 1994, Preferred Healthcare has worked with Therapy Professionals. Preferred provides OT, COTA, PT, PTA and SLP placement throughout the United States.

PrePak Products Inc  
www.prepakproducts.com

Primal Pictures Ltd  
www.primalpictures.com
Primal Pictures are presenting their range of award winning 3D anatomy, clinical, and educational software, with many titles for physical therapists in practice and education.

Prime Engineering  
www.primeengineering.com
Standing and gait devices featuring the KidWalk Dynamic Mobility System, Superstand, Superstand Youth, Granstand, Kidstand, Symmetry, and Symmetry Youth adult and pediatric standing systems.

The Prometheus Group  
www.theprogrp.com
Pathway sEMG, stimulation, and manometry products for orthopedic and pelvic muscle rehabilitation, uroflow rate/volume, PVR ultrasound with supporting software and accessories.

Pro-Tec Athletics  
www.pro-tecathletics.com
Pro-Tec Athletics is a leading sports medicine company specializing in orthopedic supports, hot/cold, and massage therapy products.

ProtoKinetics  
www.protokinetics.com
Movement analysis systems for dynamic and standing studies. Zeno Walkway with PKMAS software easily produces pressure, temporal, and spatial parameters over a variety of protocols.

Providence Health & Services  
www.providenceiscalling.jobs/therapy/pt.html
Providence, a non-profit health system providing for the needs of the communities it serves and continues a tradition that began more than 155 years ago.

PT ROM Associates  
www.ptrom.com
PTCAS allows applicants to use 1 application and set of materials to apply to multiple DPT education programs.

PTCAS  
www.ptcas.org
PTCAS, from Patterson Medical, provides a fully integrated practice management solution, including billing, EMR/documentation, scheduling, electronic claims, and detailed management reporting.

PTOS-Patterson Medical  
www.ptos.com
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PT-PAC  
www.ptpac.org
Support PT-PAC and learn more about APTA's government affairs activities in Washington, DC.

PT Solutions Physical Therapy  
www.pt-solutions.us

Qualisys Motion System  
www.qualisys.com
Qualisys is the global leader providing quality service, support, OUT/INDOOR 20/3D, 12mg Hi-speed digital video and optical/video base RF motion capture technology. www.qualisys.com @3Dmocap
Rad Roller Booth #314
Manufacture of new and innovative myofascial/massage tools. RAD Roller—RAD Helix—RAD Rod—RAD Rounds RAD Block.

Railyard Fitness Booth #2339
www.railyardfitness.com

Raintree Systems Inc Booth #2002
www.raintreeinc.com
Raintree offers a specialty based of EHR/PMS solution that is “Future proof.” Contact us and see why we have over 2,000 installations nationwide and growing.

RangeMaster / Therapeutic Dimensions Booth #523
www.myRangedMaster.com
RangeMaster Shoulder Pulleys, shoulder kits, Stretch Straps, and other shoulder therapy products.

Rapid Release Booth #2116

ReDoc Software Booth #1543
www.redocsoftware.com
ReDoc Software, another perfectly fitted software solution from Net Health, is widely accepted clinical rehab documentation/scheduling and management software for compliance and efficiency.

Reflectx Services Booth #603
www.reflectxstaffing.com/
Reflectx Services provides travel and direct hire positions for physical therapists and assistants nationwide, in all settings.

Reha Technology USA Inc Booth #708
www.rehatechnology.com
We at Reha Technology design, manufacture, and globally distribute advanced technological robotic-assisted systems for neurorehabilitation.

Rehab & Sports Med Outfitters Booth #745
www.rsmoutfitters.com
RSM Outfitters is an innovative OT/PT owned and operated Rehab Supply Company. Our interactive website allows for learning while shopping for orthopedic products.

RehabCare Booth #1623
RehabCare is the leading provider of rehabilitation services, including physical, occupational, and speech-language therapies, to over 2,000 facilities in 46 states.

Rehabilitation Institute of Chicago Booth #2016
www.ric.org
RIC treats adult and pediatric patients with cerebral palsy, spinal cord injury, stroke, traumatic brain injury, arthritis, chronic pain, limb deficiencies, and orthopedic conditions.

HONORS & AWARDS 2015

Celebrate your colleagues’ achievements, including the newly elected Catherine Worthingham Fellows of APTA, the Mary McMillan and John H.P. Maley Lecturers, and those who are being recognized for excellence in education, publications, practice and service, and research by planning to attend the 2015 Honors and Awards Ceremony on Thursday, June 4, during APTA’s NEXT Conference and Exposition in National Harbor, Maryland.

Even better, have a say in the recipients recognized by APTA! It’s never too early to begin planning a nomination for the 2016 Honors and Awards Program. Visit www.apta.org/HonorsAwards to learn more about the recognition and awards APTA has to offer, as well as watch a video of what past recipients have to say about being recognized by APTA.
Rehab Management/Physical Therapy Products
www.rehabpub.com
Rehab Management is a clinical and management magazine for rehab teams. Physical Therapy Products is the industry’s only magazine, covering products practicing physical therapists use.

Rekovo
www.rekovo.com
Using the latest in university research, Rekovo helps patients with balance therapy using digital artwork.

Reliant Rehabilitation
www.reliant-rehab.com
Reliant Rehabilitation is a leading provider of rehabilitation management services providing therapy programs to subacute facilities, SNFs, LTACHs, acute care, and rehab hospitals nationally.

Renown Health
www.renown.org
Renown Health is an integrated healthcare network, which means endless therapy opportunities and part of the largest not-for-profit health care network in northern Nevada.

Restorative Therapies Inc
www.restorative-therapies.com
Utilize our leading FES systems, including cycles, elliptical, stepping, and supine models. Available for adults and pediatrics. Take CEU courses at our new training center.

Results Physiotherapy
Richmar
Rifton Equipment
www.sales@rifton.com
The Rifton HTS redefines special-needs toileting and showering. Completely reimagined, the HTS offers flexibility and functionality, 5 bases, tilt-in-space capability, adjustability, positioning, and washable construction.

Rocktape
www.rocktape.com
Rocktape will be showing its newest kinesiology tape, Tattoo, Rock Sauce, a topical pain reliever, and details on its custom tape program.

Rocky Mountain University of Health Professions
www.ruohp.edu
Through a limited residency model, Rocky Mountain University of Health Professions (RMUoHP) offers doctoral degrees for physical therapists and other health care providers and educators.

ROHO Inc
www.roho.com
ROHO Inc is a manufacturer of medical mattresses, wheelchair cushions, and backs specializing in DRY FLOATATION® technology to provide a customizable fit for individuals.

Rusk Rehabilitation, NYU Langone Medical Center
rusk.med.nyu.edu/

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www.sagepub.com
SAGE is a leading international publisher of journals, books, and electronic media for academic, educational, and professional markets. Visit us at www.sagepub.com.

Sanctuary Health Sdn Bhd
www.sanciband.com
Sanctband Resistant Band and Tubing—Powder free, no repowdering needed, and more durable. GS Mark (Product Safety) certificate by TUV.

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www.serola.net
We manufacture unique therapy products: Serola Sacroiliac Belt; Gel Arc Elbow Brace; Sacrotrac flexion/distraction pillow; and the inflatable pelvic blocks. Discount available for PTs.

Shepherd Center
www.shepherd.org Shepherd Center specializes in the medical & rehabilitative treatment of people with brain injuries, spinal cord injuries, and other neurological diseases/disorders.

SI-BONE
www.simis.com
SI-BONE is a leading medical device company dedicated to the development of diagnosing and treating patients with low back issues related to the SI joint.

Sidestix Ventures Inc
www.sidestix.com
SideStix Ventures designs and manufactures the highest quality assistive mobility devices. Our forearm crutches feature damping shock absorbers and tip attachments for all terrains.

Signature Healthcare LLC
www.signaturehealthcareinc.com
Signature HealthCARE is a family-based organization revolutionizing the long-term care industry, through its 3 organizational pillars, Spirituality, Intrapreneurship, and Education.

Simi Reality Motion Systems
www.simireality.com
Simi Reality Motion Systems offers high-end image-based motion capture and analysis systems for movement analysis.

SLACK Inc
www.sliconbooks.com
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SleepSafe Beds, LLC
www.sleepsafebed.com
For special needs—3 bed models available with adjustable safety rail protection from 8" to 36". Addresses problems with entrapment and falls. Proudly made in USA.

Snug Seat Inc
www.snugseat.com
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Software Depot Online
www.smartptonline.com
PTO mobile app and web portal. Full library of condition-based 3D animations and exercise videos for patient education and home exercise programs.

Solo Step Inc.
www.SoloStep.com
The Solo Step System is a patented rehabilitation/fall-prevention support system designed to provide numerous benefits to patients, therapists, and facilities while eliminating patient falls.

Square
www.square.com
Square makes commerce easy with a free card reader for iPhone, iPad, and Android and allows anyone to accept credit cards for 2.75% per swipe.

Star Cushion Products
www.starcushion.com
Focusing on high-end rehab cushions, Star Cushion continues to provide quality and innovative products to the marketplace.

STEPRIGHT™ Stability System
Booth #2329

Stonehaven Medical
www.stonehavenmedical.com
Stonehaven Medical offers hi-lo treatment tables at competitive prices and highest quality, latex and latex-free exercise band, and heel seats for plantar fasciitis/heel spurs.

Strider Sports International Inc
www.striderbikes.com
STRIDER bikes are FUN, effective tools for therapists. Although not originally designed as an adaptive-needs bike, STRIDER is the perfect bike for people with special needs.

Superfeet Worldwide Inc
www.superfeet.com
Superfeet Worldwide manufacturers and distributes a complete line of prefabricated professional-grade orthotics.

Swede-O Inc
www.swedeo.com
For over 25 years, Swede-O has been a name you can trust for quality braces designed to prevent and rehab sports injuries.

SwimEx Inc
www.swimex.com
SwimEx manufactures aquatic therapy and fitness pools that feature the industry exclusive paddlewheel water current, underwater treadmills, multiple water depths, and built-in workstations.

Team Movement for Life
www.teammovementforlife.com
An elite team of outpatient physical therapy clinics who take pride in being the best, are looking to add amazing PTs to our team.

Tekscan
www.tekscan.com
Tekscan manufactures pressure mapping systems that help you optimize seating and positioning, and objectively evaluate gait symmetry, balance, and sway.

Tender Touch Rehab Services
www.tendertouch.com
Tender Touch Rehab provides rehabilitation services to subacute, long-term care, outpatient, and EI. Locations include NY, NJ, PA, DE, MD, and DC.

Texas Woman's University
www.twu.edu/physical-therapy/
TWU School of PT offers post-professional education including the PhD in PT and Certificates in Geriatrics, Manual Therapy, Women's Health, and Neurologic Physical Therapy.

Therapeutic Associates Inc
www.therapeuticassociates.com
PT-owned since 1952, Therapeutic Associates is a collective of outpatient clinics in the Northwest. We also manage hospital contracts and a clinical outcomes tool, CareConnections.

Therapy Exam Prep
www.therapyexamprep.com
Therapy Exam Prep (TEP) is an online NPTE webinar program that helps you pass the board exam with exam analysis and a clinical thinking approach.

TherapyEd
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TherapyEd is the leader in exam preparation for the NPTE and NBCOT exams. O’Sullivan/Siegelman review-study guides, prep classes, practice exams, online resources.

TherapySource
www.sourcemed.net
TherapySource is an end-to-end solution designed for outpatient rehabilitation clinics. It’s the most comprehensive software available and is scalable for any practice.

Thieme Medical Publishers
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<th>Exhibitors</th>
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<tr>
<td>Tri W-G Inc</td>
<td>1021</td>
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<td>Bariatric specialists—that’s Tri W-G. Our mat tables, treatment tables,</td>
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<td>and parallel bars are specifically designed for bariatrics, accommodating</td>
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<td>weight capacities of 1,000 lbs. Free popcorn.</td>
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<td>Triumph Mobility Inc</td>
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<td>TruRehab LLC</td>
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<td><a href="http://www.trurehabllc.com">www.trurehabllc.com</a></td>
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<td>Tri W-G Inc is a leading Midwest rehab company, specializing in comprehensive</td>
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<td>management of physical therapy within skilled nursing facilities and a</td>
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<td>variety of other clinical settings.</td>
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<td>UCLA Health System</td>
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<td>At UCLA Health System, we define greatness by the quality of the patient</td>
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<td>experience we are able to deliver. Each and every time, to every</td>
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<td>UF Health Shands</td>
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<td>ufhealth.org/</td>
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<td>UF Health includes six health colleges, six research institutes, two</td>
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<td>teaching hospitals, two specialty hospitals, and physician medical</td>
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<td>practices and outpatient services throughout north central Florida.</td>
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<td>The University of Findlay</td>
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<td><a href="http://www.findlay.edu">www.findlay.edu</a></td>
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<td>Come visit The University of Findlay! Our program offers two options for</td>
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<td>achievement: The “traditional” entry-level DPT degree and the unique</td>
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<td>University of Florida</td>
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<td>Department of Physical Therapy</td>
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<td>pt.phhp.ufl.edu</td>
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<td>The University of Florida offers the professional Doctor of Physical</td>
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<td>Therapy degree and the academic Rehabilitation Science doctoral programs.</td>
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<td>University of Indianapolis,</td>
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<td>pt.uindy.edu</td>
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<td>Full- and part-time postprofessional programs designed for working</td>
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<td>professionals. 75-100% online with some weekend labs. Doctor or Master of</td>
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<td>Health Science and Certificates. Email: <a href="mailto:pt@uindy.edu">pt@uindy.edu</a></td>
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<td>University of Michigan–Flint</td>
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<td><a href="http://www.umflint.edu">www.umflint.edu</a></td>
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<td>Enhance your knowledge and skills, broaden your clinical perspective, and</td>
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<td>invigorate your passion for the profession. Check out the Michigan</td>
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<td>difference!</td>
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<td>University of Southern California</td>
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<td><a href="http://www.usc.edu/pt">www.usc.edu/pt</a></td>
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<td>Programs of study offered: Doctor of Physical Therapy; MS and PhD in</td>
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<td>Biokinesiology; residency programs in neurologic, orthopedic, sports, and</td>
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<td>pediatric physical therapy.</td>
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<td>University of St Augustine</td>
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<td><a href="http://www.usa.edu">www.usa.edu</a></td>
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<td>The University of St. Augustine is a health science based graduate</td>
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<td>institution. We offer entry-level graduate education and degree programs</td>
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<td>for already practicing clinicians.</td>
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<td>Vionic Group/Vasyli Medical</td>
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<td><a href="http://www.vasylimedical.com">www.vasylimedical.com</a></td>
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<td>VirtuSense Technologies</td>
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<td><a href="http://www.virtusenseotech.com">www.virtusenseotech.com</a></td>
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<td>VirtuBalance is the only combined balance, movement, and functional</td>
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<td>assessment system for physical rehabilitation professionals. Mobile and</td>
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<td>markerless, transform subjective information into precise, objective</td>
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<td>measures.</td>
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<td>Washington University in St Louis</td>
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<td>Washington University in St Louis offers a PhD degree, clinical residency,</td>
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<td>and clinical fellowship. Be a part of aout in education, research, and</td>
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<td>patient care.</td>
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<td>WebExercises Inc</td>
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<td><a href="http://www.webexercises.com">www.webexercises.com</a></td>
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<td>Create personalized rehab exercise programs to be printed or emailed with</td>
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<td>video. Add your own exercises or choose from the library of 3,500 we offer.</td>
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<td>WebOutcomes</td>
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<td>WebOutcomes is an online outcomes tracking tool that allows physical</td>
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<td>therapists to enhance patient care and objectively demonstrate their</td>
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<td>clinical performance to payers and referrers.</td>
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<td><a href="http://www.webpt.com">www.webpt.com</a></td>
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<td>WebPT believes in empowering the rehab community to achieve greatness in</td>
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<td>therapy practice, so we created a web-based EMR software and</td>
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<td>comprehensive practice management services.</td>
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<td><a href="http://www.whitehallmfg.com">www.whitehallmfg.com</a></td>
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<tr>
<td>Whitehall Manufacturing provides the health care and therapy industries</td>
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<tr>
<td>with in-room patient care units and toilets, surgical scrub sinks, and</td>
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<td>physical therapy products.</td>
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<td>Lippincott Williams &amp; Wilkins, a Wolters Kluver Health company, is a</td>
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<tr>
<td>leading international publisher of physical therapy books, journals, and</td>
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<td>electronic media.</td>
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<td><a href="http://www.woodway.com">www.woodway.com</a></td>
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<tr>
<td>Woodway treadmills are the absolute best investment in treadmill technology,</td>
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<tr>
<td>efficiency, and performance. Our running surface and ball bearing design</td>
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<td>are unlike any other.</td>
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<td><a href="http://www.workwell.com">www.workwell.com</a></td>
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<tr>
<td>Expand your ability to offer occupational health services and experience</td>
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<td>bottom line revenue growth. WorkWell providers receive referrals from our</td>
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<td>referral center. Call 866-WWS-WORKS.</td>
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<td><a href="http://www.zimmerusa.com">www.zimmerusa.com</a></td>
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<td>With over 45 years of experience, Zimmer MedizinSystems has become one</td>
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<td>of the leading manufactures of therapeutic physical agents for physical</td>
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<td><a href="http://www.ZirMed.com">www.ZirMed.com</a></td>
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<td>ZirMed® is the only company delivering proven cloud-based clinical and</td>
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<td>business performance management solutions for managing population health</td>
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<td>and optimizing fee-for-service and fee-for-value reimbursements.</td>
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Resource Central has the latest selection of APTA logo apparel, specialty items, publications, great gift items, and much more! And, stop by our lounge to rejuvenate and learn more about APTA’s products and services.

Be sure to check out the daily specials for additional savings!
Visit Resource Central at Booth #1027!

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Celebrating 50,000 Credentialed CIs

Stop by the CCIP/Advanced CCIP table to pick up information regarding both programs, including:
» Program brochures
» Schedule of upcoming courses
» List of CCIP and Advanced CCIP trainers

And, for those interested in sponsoring a course a list of simple steps for hosting a course is available.

Since the CCIP was launched in 1996, over 50,000 PTs and PTAs have been credentialed!

And since the Advanced CCIP was launched in early 2008 – more than 1,500 PTs have earned their advanced credential!

Stop by BOOTH 1040 (Exhibit Hall, Indiana Convention Center, Indianapolis, IN) to speak with CCIP and Advanced CCIP trainers and APTA staff.

And – are you already a credentialed CI?
Stop by the table to pick up your Credentialed CI ribbon!
## EXHIBITORS BY PRODUCT TYPE

### AMBULATION/MOBILITY

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