The 18 sections of APTA have joined together to present posters on various physical therapy topics. Posters may be viewed during Exhibit Hall hours. Authors will be available to discuss their posters from 1:00 pm to 3:00 pm on the following days:

**Group 1: Thursday, January 24, 2019**
Acute Care, Aquatic Physical Therapy, Education, Federal Physical Therapy, Hand Rehabilitation, Neurology (Balance & Falls, Stroke), Orthopaedics (Elbow/Wrist/Hand, Imaging, Shoulder, Spine), Sports (Case Studies, Sports Residency)

**Group 2: Friday, January 25, 2019**
Home Health, Neurology (Brain Injury, General, Practice Issues, Spinal Cord Injury), Oncology, Orthopaedics (Poster Award Candidates, Foot/Ankle, Health Services, Hip/Knee, Occupational Health), Pediatrics, Sports (Knee, Knee-ACL, Running, Women’s Health, Miscellaneous)

**Group 3: Saturday, January 26, 2019**
Cardiovascular/Pulmonary, Clinical Electrophysiology and Wound Management, Geriatrics (Cultural Diversity, Health/Wellness, Mental Health, Osteoporosis, Residency and Fellowship), Health Policy and Administration, Neurology (Degenerative Diseases, Vestibular), Orthopaedics (Pain Management, Performing Arts, Residency Poster Case Reports), Research, Sports (Biomechanics, Foot/Ankle, Shoulder/Elbow, Spine)

**Acute Care**
1001 Differential Diagnosis of Low Back Pain in the Emergency Department - A Case Report

*Griffith RL, Rademaker T*
Rebekah Griffith
1002 The Effect of Different Sitting Positions and Posture on Incentive Spirometer Performance in Healthy, Sedentary Adults
Marks T, Chi R, Maier N, O'Flaherty K, Rudman E, Small S, Garcia R
Ted Marks

1003 Early Mobilization of Patients with Stroke: A snapshot of current physical therapy practice at a comprehensive stroke center
Steinhorn GS, Bahouth M, Kumble S, Klein LM, Tahara N, Zink E, Szanton SL
Gabrielle Steinhorn

1004 Exploring clinical competence for physical therapists responding to natural disasters
Hartman J, Cuthell H, Lackey S, Miller M, Morency D, Savage G
Jeff Hartman

1005 Factors Associated with Discharge Disposition: Outcomes Following a Stroke
Zielke DR, Tucker K, Brady S
Donna Zielke

1006 Barriers to Early Intervention Mobility and Discharge Planning with the Extremely Obese in the Acute Care Setting
Harte SM, Shulder R, Arnett L, Frampton K
Stephanie Harte

1007 Interventions for Patient Adherence with Exercise or Activity: A Review of Systematic Reviews
James Smith

1008 Feasibility of Early Rehabilitation Program for Patients Post Total Knee Arthroplasty with Popliteal Artery Injury and the Effect on Acute Care Functional Outcomes
Brindle S, Karsten J
Sarah Brindle

1009 Use and understanding of Physical Therapy evaluation complexity codes in acute care settings
Orlander E, Steffens Y
Evelyne Orlander

1010 Using High Fidelity Simulation to Practice Physical Therapy/Occupational Therapy Co-Treatment in the Intensive Care Unit
Swisher A, Davis D, Evans KW, Acord-Vira A
Anne Swisher

1011 Use of the AM-PAC 6-Clicks to Prioritize Patients on a Cardiovascular Medical Unit
Turner S, Johnson JK, Lohse BD, Benson D, Noren CS, Marcus RL
Stacey Turner

1012 Relationship of the Perme ICU Mobility Score and Medical Research Council Sum Score with discharge destination for patients in five different Intensive Care Units.
Terrence Schwing

1013 Outcomes Impacted by Initiation of Physical Therapy on POD (Post-operative Day) 0 in Patients with Total Joint Replacement (TJR)
MODICA T, Wing J
THOMAS MODICA

1014 Changing the Culture of Mobility Through Implementation of a Mobility Technician: Case Report
Exum E, Hull B
Emelia Exum

1015 Six-Minute Walk Performance and Muscle Oxidative Capacity in Chronic Kidney Disease
Alexander Stone

1016 Is Early Physical Therapy Intervention Safe and Feasible For Patients with Subarachnoid Hemorrhage?
THE EFFECTS OF EARLY MOBILITY IN REDUCING LENGTH OF STAY FOR ADULT PATIENTS IN THE INTENSIVE CARE UNIT DUE TO TRAUMA: A SYSTEMATIC REVIEW
Maida D, Klug S, Loftus M, Zaccaria S, Scardillo J
Dana Maida

Mobility of Patients in the ICU with Open Abdominal Fascia and an Abdominal Reapproximation Anchor Device
Nelson S, Wood D
Sarah Nelson

Quality Improvement of Physical & Occupational Therapy Referral Process to Reduce Unskilled Consults
Bednarczyk MJ, Barquin WK, Stankiewicz C
Matthew Bednarczyk

A Multidisciplinary Approach for a Patient With a Massive Inguinal Hernia.
Kras A, Ausmann KJ, Finkel AG
Allison Kras

Physical Therapy and Thoracic ultrasound: A Special Interest Report on an international collaborative competency-based training programme
Hayward S, Mirian P, Parziale T
Teresa Parziale

A Health System Based Approach to Treatment of Low Back Pain from Entry Point Care in Emergency Department to an Outpatient Physical Therapy Clinic: A Case Study.
Kelly M, Benton M
Mike Kelly

Early Physical Therapy for Patients Undergoing Total Hip and Knee Arthroplasty: Impact on Length of Stay
Tsirakidis L, DeLucia L, Elsabrou K, Apold S
Lana Tsirakidis
1024  **Pilot of Prescriptive Video Game Therapy in a Neuroscience Critical Care Unit**  
*Ziegler M, Kumble S, Vora I, Zink E, Bahouth M, Robert SD*  
Megan Ziegler

1025  **Functional Mobility in Relation to Tibialis Anterior Mitochondrial Oxidative Capacity in Patients with Chronic Kidney Disease**  
Lauren Hickey

1026  **Strengthening the Academic and Clinical Partnership to Address Recruitment and Engagement in an Urban, Quaternary Care Center**  
*Neely LC, Blorstad A, Harte SM, Johnson DJ*  
Laurie Neely

1027  **Who wants to go for a walk? The role of the Mobility Technician vs Physical Therapy in the acute care setting**  
*Adams J, Omanwa K, Pick C, Lighty K, Evans M, Sedlander D*  
Jason Adams

1028  **An Interdisciplinary Approach to Patient Care with Diagnostic Lung Ultrasound: A Case Study from a Physical Therapist Perspective**  
*Mirian P, Hayward S, Parziale T*  
Phillip Mirian

1029  **A Pilot Study of Emergency Department-Initiated Physical Therapy for Acute Low Back Pain**  
*Strickland KJ, McCarthy DM, Courtney DM, Lambert BL, Kim H*  
Kyle Strickland

1030  **High-Intensity Training and Implementation of Cardiac Rehabilitation in Critical Care After Implantation of a Total Artificial Heart: A Case Report**  
*Gumieny A*  
Annie Gumieny
Kargela M
Mallory Kargela

1032 Striving to enhance the DPT students' knowledge and preparation in acute care- a partnership with Acute Care PT's and the University of South Florida School of Physical Therapy and Rehabilitation Sciences.
Kelly Tucker

1033 Characteristics of Motor Vehicle Accident Patients That Are Predictive of Being Mobilized in the ICU: A Retrospective Study
Gargas PD, Gish EE, Davis JC, Benton AM, Chitika PS, Lehrer N, Warren GL
Paul Gargas

1034 Effects of a Pilot Interdisciplinary Group Education Class on Discharge Readiness in the Thoracic Surgery Population
Quintans M
Melanie Quintans

1035 Rehabilitation after Total Hip Arthroplasty in a Patient with Congenital Bilateral Shoulder Disarticulations and Contralateral Proximal Femoral Focal Deficiency
Spohr AM
Amy Spohr

1036 Differences in Lumbar Spinal Muscle Morphology and Performance in Amputees With and Without Low Back Pain
Ciccotelli JA, Damele M, Gross R, Robina R, Lee S
Jason Ciccotelli

1037 “I’m not going to walk, just for the sake of walking...”: a qualitative, phenomenological study on physical activity during hospital stay
Thomas Hoogeboom

1038 Utilizing Preoperative Measurements of Single Leg Stance (SLS) and the Timed Up and Go (TUG) as Clinical Predictors of Length of Stay (LOS) Following Total Knee Arthroplasty (TKA).

Sherrie Renzi

1039 Case Study: Combining Cardiac Rehabilitation and Cognitive Retraining in a Patient post Heart Transplant and LVAD related Stroke

Perrotti A
Ally Perrotti

1040 Adapting High Intensity Interval Training and High Resistance Strength Training to the Critical Care Setting for Patients with Chronic Respiratory Disease.

Moore A
Anne Moore

1041 Pectoralis Muscle Activity During Ambulation Using an Assistive Device: Implications for Sternal Precautions

LaPier T, Krum J, Campeau JB, Wehrer JD
Jenna Krum

1042 Determining AM-PAC “6-Clicks” Cutoff Scores based on Type of Joint Replacement to Predict Discharge Destination

Wagner BR, Maida D, Bockelkamp HS
Barbara Wagner

1043 Cycle Ergometry in Critical Illness: A Case Series

Jason Ofodile

1044 Improving Nursing Staff’s Perception and Knowledge of Early Mobility to Support the ABCDEF Bundle in a Medical Intensive Care Unit

Shields E, Krug SM, O'Berry B
Stephanie Krug
1045 Establishment of a Hospital-wide Protocol for Early Mobilization of Patients with Complex Medical Needs

Alberding K, Gamble D
Karen Alberding

1046 Reducing Inappropriate Physical Therapy Referrals in Acute Care: Success Through Engaging Nurses?

McLaughlin M
Mary McLaughlin

1047 An Interdisciplinary approach to early mobilization and eventual discharge home of a 26 year old male patient on VV ECMO

Appel E, Newkirk M
Elizabeth Appel

1048 Establishing safe and effective mobilization for patients on the TandemHeart

Appel E, Traditi KA
Elizabeth Appel

1049 A Case Study on the Appropriateness of Liberalized Craniectomy Precautions for Early Mobility

Gamble D, Alberding K
Dominique Gamble

1050 Dosing Project: Managing treatment frequency by adding a frequency program

Steffens Y
Yvonne Steffens

1051 Mobility Change During Hospitalization Is A Better Predictor Of Discharge Disposition Than Initial Mobility Score In Critical Care Patients.

Dummer DR, Johnson JK, Stoddard G, Marcus RL
Danica Dummer

Aquatic Physical Therapy

1052 Aquatic Therapy Effects on Gait, Balance, and Quality of Life in Patients with Parkinson’s Disease: A Systematic Review
Babl RM, Pritchard MO, Laster J, Rogers LJ, Schultz M
Ryan Babl

1053  Does dosage in aquatic physical therapy affect motivation towards functional mobility in the neurologic pediatric population? A systematic review.
Percy V, Jones K, McFarland K, McNeley C, Turner L, Weibel F
Victoria Percy

1054  Literature Review of the Most Common Balance Outcomes Measures Used in Aquatics Balance Studies
Hinton A, Carter V, Jain TK, Thoman C
Valerie Carter

Education

1055  Improving the efficiency of multiple choice question development using cognitive models and automated item generation and test assembly
Geoff Bostick

1056  Grit Scale Predictability of Academic Performance in the Doctor of Physical Therapy Program
Carp SJ, Fry K, Gumerman B, Pressley K, Whitman A
Stephen Carp

1057  Pro Bono Physical Therapy Services Provided to Undocumented Immigrants as a Service-Learning Experience: A Complex Picture
Palombaro KM, Carp SJ
Stephen Carp

1058  Perceived Stress in Doctor of Physical Therapy Students
Wisdom C, Mizner B, Alumbaugh B, Ballantyne T, Lytle M, Radke M, Woodward L
Christina Wisdom

1059  Learning through adaptive sports: physical therapy students' service-learning experience with veterans who are disabled
Schumacher M, Harrington S, Henkin K
1060 A student-led pro bono group exercise program improves movement efficiency in an individual with stroke

*Ricard, SPT R, Chen T, Whetstone K, Kessler M*

Risa Ricard, SPT

1061 DEVELOPMENT OF A PHYSICAL THERAPY FACULTY WORKLOAD MEASUREMENT TOOL

*Liphart J, Peters-Brinkerhoff C, Manella K, Nitsch WB*

Jodi Liphart

1062 Differences in Physical Therapy Program Outcomes Based on Institutional Classification

*Bandy WD, Reese NB, Cole AE, Mayo A, Pierceall T, Pollard D, Sweere C*

William Bandy

1063 Online Clinical Mentoring for Physical Therapists Experiencing Professional Isolation: A Pilot Study

*Westervelt KC, Kunker K, Patel R, Smith E, Wolitzer K*

Katrina Kunker

1064 Impact of the Number of Core Faculty FTEs on Physical Therapy Program Outcomes

*Reese NB, Bandy WD, Cole AE, Mayo A, Pierceall T, Pollard D, Sweere C*

Nancy Reese

1065 Physical Therapist Student Perceptions of Market and Social Justice of the United States Health Care System: A Five-Year Analysis

*Van Zant RS*

Robert Van Zant

1066 The development of clinical decision-making using a case rounds seminar course

*Clark K, Bayliss AJ, Thompson WR, Strunk VA, Altenburger P*

Kelly Clark

1067 Using a valid and reliable measure to assess clinical instructor self-perception of teaching behaviors in physical therapy
Impact of taking prerequisite science courses at 2-year versus 4-year institutions on course grades, admissions criteria, and performance in a Doctor of Physical Therapy program.

Burton Hess J
Judith Burton Hess

Entry-level Clinical Performance: Determining "Full Caseload Capability" for Student Physical Therapists

Sherman E, Talley S, Berg K
Erica Sherman

A Different Instructional Model to Improve Student Learning Outcomes in Gross and Applied Anatomy for Physical Therapy Students

Peters-Brinkerhoff C, Childers C
Cherie Peters-Brinkerhoff


Thompson KA, Doherty DJ, Loftus S, Mi M, Riley-Doucet C, Yao L, Paul JC, Fouladbashsh JM
Kristine Thompson

Cultivating Musculoskeletal Health in Migrant and Seasonal Agricultural Workers through a Video-Based Teaching and Learning Approach

John Carzoli

Valuation of Scholarly Activities for Physical Therapy Faculty

Rost T, Thompson M, Sayles H, Willett GM, Becker BJ
Betsy Becker

The Effect of Mindfulness-Based Stress Reduction on Physical Therapy Students in a DPT Program: A Pilot Study
Garcia JD, Walker D, Gutierrez S, Pike S, Vassallo LM, Farrell BJ
Jodan Garcia

1075 Clinician Self-Reported Practices for Evaluating Patients With Fibromyalgia and Whiplash-Related Injuries
Gamwell C, Adamick L, Durham R, Robertson M, Van Der Laan KF, Elliott JM
Caroline Gamwell

1076 An Exploration of Inter-Professional Education Involving Physical Therapist Assistant and Nursing Students
Jackson YD, Yatsik J, Hoover DL
Yvonne Jackson

1077 A cross-sectional study of self-reported levels of empathy and work engagement among Physical Therapists (PTs).
Holmes M, Starr JA, Driscoll LC, Riley E, McDonnell B, Camarinos J
Mary Beth Holmes

1078 An Integrated Clinical Experience with Concurrent Problem-Based Learning is Associated with Increased Clinical Reflection and Reasoning in Third Year Doctorate of Physical Therapy Students.
Willis BW, Campbell A, Sayers S, Beal E, Gibson K
Bradley Willis

1079 International Service Learning Curriculum developed for OHSU Pediatric Physical Therapy Residency Program
Sloane BM, O'Connell M
Bethany Sloane

1080 Reflection and evidence appraisal develop clinical decision making and patient education skills in a student physical therapist: A case report
Chirby MC
Megan Chirby

1081 Attitudes and Knowledge with Participation in an Integumentary Interprofessional Simulation Experience Between Nursing and Physical Therapy Students.
1082 Investigation of Prosthetic Curricular Content within Doctor of Physical Therapy Programs across the United States

Troiano R, Corio F, Dorney A, Froelich E, Jasper J, Menday D, Romanello Z, Ventriglia L
Robert Troiano

1083 Relationship Between Emotional Intelligence Scores and Admission Interview Scores in Prospective Physical Therapy Students

Brewer JF, O'Connell JK, McCormick J, Hinman MR, Allen L, Frazier R, Morris A
Joe McCormick

1084 Student Lead Initiatives Integrating Sustainability Concepts into Physical Therapy Education

Holshouser E, Blanton S
Eric Holshouser

1085 Research productivity of doctor of physical therapy faculty promoted in the southeastern United States

Littman MA, Sonne JW, Smith GV
James Sonne

1086 Feasibility of a Brief Mindfulness Program on Stress and Anxiety Levels in Doctor of Physical Therapy (DPT) Students

Brizzolara KJ, Shirley KD
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1087 A Description of Interprofessional Collaborative Care: Frequency of Interactions and Knowledge of Roles and Responsibilities

Horbacewicz J, Akman A, Gendler Y, Sklaren R, Wicentowski MA, Zatzkin L
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1088 Personal Values of Physical Therapy Students

Horbacewicz J, Chech B, Davydov Y, Kupchenko S, Peled A, Tewfik P
Jill Horbacewicz
1089 Understanding Success Among Physical Therapy Students: Association of Success in Early Courses, Comprehensive Final Examination, and NPTE
Crawford M, Ross Z, English RA
Robert English

1090 The Propensity to Adopt Evidence-Based Practice: A National Survey of Clinical Instructors and Center Coordinators of Clinical Education
Greenfield B, Carter V, Phillips T, Bridges PH
Bruce Greenfield

1091 What Instructional Scaffolds are Needed to Support First Year PT Student Clinical Reasoning Using Mobile Technology?: A Multi-Case Study
Smith N, Bartlett A, Johnson A, Oliver K, Lee H
Nancy Smith

1092 HuskyADAPT Student Organization: An Interdisciplinary Contribution to Making Communities Inclusive through Accessible Design and Play Technology
Nguyen B, Rodriguez O, Mollica MY, Goodwin BM, Israel S, Feldner HA
Brandon Nguyen

1093 Prevalence of Implicit Bias in Practicing Physical Therapists
McIntosh J, Dunn B, McCarty D, Ray L, Gupta J, Faldowski RA
Jennell McIntosh

1094 Engaging Higher Education Students in Coursework Through Evidence-Supported Strategies: A Faculty Development Course
Cox GC, Allen B, Sizer PS, Dendy D, Brismée J
Greg Cox

1095 Creating Unique Learning Experiences in Post Professional Development: Collaborative Residency Programming
Miczak K, Morris J, Ferraro M
Kimberly Miczak

1096 Sexual and Gender Minority Cultural Competency Education in Health Care: A Systematic Review of the Literature
1097 The Effect of Pediatric Experiential Learning on the Self-Efficacy of DPT Students
Flowers M, Yates CC, Lowe L
Meredith Flowers

1098 Traits and Attributes of a Successful Physical Therapy Resident: A Delphi Study
Haines L, Shepard R, Contel K, Abraham KE, Lievre A
AJ Lievre

1099 A “Reflection-on-Specific Action” Approach to Developing an Exercise Program for a Person with Severe Cognitive Deficits
Loving V, Danzl M, Ulanowski E
Victoria Loving

1100 Collaborative Clinical Reasoning in Student Physical Therapists: Preliminary Findings
LaRosa N, Dinsmore DL, Lundy M, Meires J
Nicholas LaRosa

1101 The Effects of Geriatric Home Health Care Simulations on Health Care Students’ Perceptions of Interprofessional Collaboration
Cunningham S, Moseley C, Smith P, Howes MK, Shelton-Despain E
Chelsea Moseley

1102 Changes in Volunteerism in First Year Physical Therapy Students
Gilboy S, Shaibi SD
Stephanie Gilboy

1103 How is patient handling taught in physical therapy education?
Rockefeller K, Frost L
Kathleen Rockefeller

1104 Durham Stroke Camp: A service learning experience for Doctor of Physical Therapy students
1105  A case for improving the quality of health information on Wikipedia
Weiner S, Horbacewicz J, Rasberry L
Shira Weiner

1106  Structured Reflection to Develop Clinical Reasoning In An Integrated Clinical Practicum: A Case Study
Dembinski K, Douglas M, Gottlieb V, Mohrfeld H, Mazurek R, Zalewski K
Kimberly Dembinski

1107  Integrating Model and Strategy into Clinical Supervision across Health Science Disciplines
Guenther L, Copes A, Adelung M
Lee Ann Guenther

1108  How is Physical Therapy Clinical Education Responding to the Environment?
Fein B, Schweizer K
Beverly Fein

1109  Experiential Learning in DPT Curriculum: Partnering with Community Members in a Neurological Interventions Course
Cherven A, Haines JJ
Alexis Cherven

1110  Building a Wheelchair Using In-country Materials in Masindi, Uganda: Student-driven Service Learning
Roettger G, Dodds C, Stoll T
Taylor Stoll

1111  The Evolution of a Student-Created, Student-Led Elective in the DPT Curriculum
Stewart MK, Adler E, Cohane ZA, Sinodinos JR
Mahlon Stewart
1112 A Teaching Practicum: A model for teaching physical therapy residents how to teach
Ford-Smith C, Bowman DH
Cheryl Ford-Smith

1113 Students Assessments on Impact of Soft-Cure vs Traditional-Embalmed Cadavers for Gross Anatomy Learning
Sridher A, Gidwani A, Hendrick D, Stambaugh N, Graham JH
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1114 Clinical Instructors' Perceptions of DPT StudentBehaviors During Clinical Education
Ozga KL, Kenyon LK, Fila A, Kempers L, Sudek AJ
Karen Ozga

1115 In persons with skin of color, what is the presentation of three common skin cancers?
Amanda Kara

1116 How does Grit factor into DPT student success?
Ellison J, Mitchell K, Bogardus J, Gleeson PB
Jennifer Ellison

1117 Application of an International Classification of Functioning Treatment Planning Framework to an Independent Study Program for Clinical Experience Remediation: A Case Report
Eikenberry M, Thomas J, Bierwas D
Megan Eikenberry

1118 Plagiarism, Writing and Citing: An online tutorial for health professions students
Stevermer CA, Bush TA, Hines R
Catherine Stevermer

1119 Central sensitization: using the central sensitization index to differentiate pain.
Yelvington CJ
1120 **Aligning Clinical Practice & Education: An Interprofessional Collaborative Experience for Students**  
*Dominguez MR, Lairamore C*  
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1121 **Dry Needling Curricula in Entry-Level Education Programs for Physical Therapists**  
*Matthews LS, Ford G, Schenk R, Ross MD, Donnelly J*  
Lynn Matthews

1122 **Impact of Terminal Clinical Length on Satisfaction, Learning Opportunities and Confidence**  
*Anderson C, Eckert J*  
Christina Anderson

1123 **Interprofessional Collaboration Assessment of Doctor of Physical Therapist Students in 3 Michigan Programs-A Pilot Study**  
*Berg K, Schiller M, Ozga KL*  
Martha Schiller

1124 **Kids Equipment Palooza: Experiential Service-Based Learning in Entry Level DPT Education**  
*Davis A, Grandeo JE, Cummins C*  
Anissa Davis

1125 **Are We Ready Yet? Physical Therapy Student Perceptions of Preparedness for Long-Term Clinical Experiences and Overall Competency with the Implementation of a Clinical Skills Day**  
*Huggins CF, Lorio AK, Mallar HA*  
Carla Huggins

1126 **A Pilot Study of Physical Therapist Students’ Attitudes and Readiness to Manage Patients with Chronic Pain**  
*Bangs D, Corkery MB, Ventura SH, Fruszetti A, Huang E, O’Brien J*  
Debra Bangs
1127 Program-Level Factors Influencing Graduation from a Physical Therapy Residency Program
Hartley GW, Roach KE, Harrington K
Greg Hartley

1128 Physical Therapy Students’ Perception of a Tri-Professional Patient Safety Course on Performance During Terminal Clinical Experiences
Hartley GW, Mandel D, Drevyn E, Sanko J, McKay ME
Greg Hartley

1129 An investigation of development of clinical reasoning skills in physical therapy students during clinical education experiences
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1130 Integrating Interprofessional Education with Simulation Experiences in OT and PT Curricula: A Look at the Backwards Design Process.
RODRIGUEZ N, Belleza NC, Johnson M
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1131 Organic emergence of the IPEC competencies in a combined physical and occupational therapist student asynchronous discussion board
Steinbarger K, LaPrino S, Howland KM
Kimberly Steinbarger

1132 Rural or Underserved Practice Interest Amongst Doctor of Physical Therapy Students: Do Clinical Affiliations Change Opinions?
Godin BW, Moresca M, Poulson T, Satoshige T, Young DL, Kins K, Gillis CB
Brandon Godin

1133 Physical Therapy Student Perception of Learning After a Simulation Experience: A Comparison of Video-taped, Verbal, and Written Feedback of Performance
Amy Hammerich
1134  A standardized patient encounter to assess movement analysis skills in DPT students as part of the neuromuscular patient management curriculum

*Newsam C, Lowe D, Adibe B*

Craig Newsam

1135  Student-Based, Self-Report Interprofessional Education Outcome Measures to use in Entry-Level Physical Therapy Curricula

*Palermo A, Hartley GW, Sanko J, Kirk-Sanchez NJ*

Anne Palermo

1136  Doctor of Physical Therapy Student Skill Attainment: Using the Resting Blood Pressure Skill Assessment Tool

*Vogel CN, Gilliland S, Ito C, Brown PS*

Casey Vogel

1137  Variance in Clinical Instructor Reporting of Caseload Expectations for Physical Therapist Students Using the Physical Therapist Clinical Performance Instrument (PT CPI)

*Booth M, Stephens S*

Melissa Booth

1138  Mentoring from the Resident’s Perspective: How Does the Kaiser Permanente Physical Therapy Neurologic Residency Program Impact Professional Growth?

*Najjar T, McCarthy A*

Theresa Najjar

1139  Utilization of student feedback to standardize Interprofessional Education in the clinical setting

*Schaub C, Snowdon L*

Christine Schaub

1140  Do small-group, interactive discussion sessions during acute care clinical rotations improve student confidence?

*Decker LM, Smith BA, Simpson MS, Woelfel S*

Lauren Decker

1141  Clinician Productivity: What happens when students arrive?
1142 **Learning Together: Interprofessional Education involving a physical therapy program and occupational therapy program**

*Jeffries L, Bender DG*

Lynn Jeffries

1143 **Collaborative Retesting as a Teaching and Learning Tool**

*Fenderson CB*

Claudia Fenderson

1144 **Lab Activities to Prepare DPT Students for Medically Complex Internships**

*Horn LB, Neely LC*

Linda Horn

1145 **Student Perceptions of Participation in Service as Part of a PT Program**

*Krug JB*

Jeffrey Krug

1146 **Establishing a Culture of Civic-Mindedness: Assessing the Impact of Student-Led Civic Engagement**

*Ellis K, McCord K, Needham M, Peavler O, Loghmani T, Altenburger P*

Peter Altenburger

1147 **Implementation of Duke Doctor of Physical Therapy Faculty Development Residency**

*Roll M, Salamh P, Figuers C, Covington K*

Marcus Roll

1148 **Health Behavior Decision Making and Its Implications on Physical and Mental Well-being in Professional Graduate Students**

*Rothschild CE, Aranda Garcia C, Erbe H, Rarick S*

Carey Rothschild

1149 **The perceptions of an interprofessional experience for entry level physical and occupational therapy students in an acute intensive care pediatric simulation (SIM) laboratory encounter.**
1150 Integrating entry-level physical therapist students into an interprofessional education course which provided an evidence-based falls prevention program to older adults
Elrod CS, Tripken J
Cathy Elrod

1151 Doctorate of Physical Therapy Student Grit as a Predictor of Academic Success: A Pilot Study
Bliss R, Jacobson ET, Swiggum MS
Rebecca Bliss

1152 Reflection within a Community of Practice: A Model of Integrated Clinical Education
Hayward L, Cesario C, Canali A, Yen S
Christopher Cesario

1153 Development and Preliminary Evaluation of a Clinical Affiliation Education Program for Enhancing Clinical Reasoning and Specialty Practice Knowledge in DPT Students
Webb M, Phillips S
Matthew Webb

1154 Optimizing Basic Science Content In Physical Therapy Education: A Systematic Process
Gutierrez GM, Haladay D, Klein AB, Gamboni DH, Evans M, Swisher LL, Teran Wodzinski P
Gregory Gutierrez

1155 Exploring the lived experiences of first year Doctor of Physical Therapy students studying gross anatomy: a prospective, mixed methods study
Enz R, Jarrett SE, Aberle L, Diehl MC
Renee Enz

1156 The Relationship between Grit and Burnout in Doctor of Physical Therapy Students
Morris S, Bliss R, Gillette C
1157 Analysis of an Innovative Admissions Review Process for a Physical Therapy Doctorate Program

Johnstone LM
Laura Johnstone

1158 Student Perceptions of the Faculty-Student Relationship during International Service Learning

Thomas J
Jodi Thomas

1159 Student Attitudes and Beliefs About Active Learning: Relationship to Emotional Intelligence, Group Dynamics and Student Performance

Curfman SE, Austin GP, Nicholas JS
Sue Curfman

1160 Knowledge and Perceptions of Genetics/Genomics in DPT Students

Lindenberg K, Bednarek M, Woollard J
Kelly Lindenberg

1161 Student Performance in a Team-Based Learning Course: Student Experiences and Perceptions

George Holan

1162 Student and Team Performance in a Team-Based Learning Course: Quantitative Analysis

Holan GP, Marshall TF, Asare C, Lulejian A, Wynarczuk KD
George Holan

1163 The Clinical Cultural Competency Questionnaire (CCCQ-PRE): psychometric properties in entry-level physical therapy students

Garg H, Tenbrink JD
Hina Garg

1164 Survey of Physical Therapists’ Knowledge of Screening and Management Practices for Patients with Prediabetes

Purrington B, Zuniga C, Farnand B, Pattacciato F, Ross MD
Michael Ross

1165 The Effects of Lower Extremity and Hybrid Functional Electrical Stimulation on Upper Extremity Aerobic Capacity in Individuals With Spinal Cord Injury: A Systematic Review and Meta-Analysis
Allen M, Ruszel C, Nair P
Margot Allen

1166 Are Health Care Students' Perceptions of Interprofessional Performance Meaningful?
Christine Lysaght

1167 The effectiveness of flipped classrooms in health professional education: A Systematic Review
Acosta MM, Simmonds M
Martha Acosta

1168 Functional Outcomes of Patients with Orthopedic Diagnoses Receiving Pro Bono Physical Therapy Services in a Student-Run Clinic: A Retrospective Study
Hakim RM, Fitzgerald C, Palladino E, Scully SJ
Renee Hakim

Federal Physical Therapy
1169 Rehabilitation for a Patient with Bilateral Transfemoral Amputations Undergoing Incremental Increase in Pylon Length: A Case Report
Alongi LM, Wendland DM
Lauren Alongi

1170 Association between Shoe Selection and Running Performance in United States Military Academy Cadets
Gary Helton

1171 Summary of a year-long implementation plan for physical therapists in Maryland VAHCS to replicate whole health intervention developed at Atlanta VAHCS with fidelity and contextual adaptability.
Gansen J, Vesely A, Seelagan RN
1172 Behavioral Health Screening Algorithm for use in Direct Access Physical Therapy in a Basic Training Military Population

Shutt CE, Ko C, Hale M
Casey Shutt

1173 Progression of Femoral Neck Stress Injury in Presence of Joint Effusion

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