

# Jennifer M Ryan, PT, DPT, MS

*Board-Certified Cardiovascular and Pulmonary Clinical Specialist*

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## EMPLOYMENT

Northwestern University, Chicago, IL

**2019-Present: Assistant Professor**

**2005-2019: Associated Faculty**

- Course director for Physiology 2
- Course design contributor
  - Foundations I and II
  - Clinical Management of Patients with Cardiovascular and Pulmonary Dysfunction I and II
  - Examination and Evaluation I
  - Introduction to Clinical Decision Making
  - Complex Patients
- Lab developer and instructor
  - Foundations I and II
  - Clinical Management of Patients with Cardiovascular and Pulmonary Dysfunction I and II
  - Examination and Evaluation I
- Facilitate and design written and practical exams
  - Foundations I and II
  - Clinical Management of Patients with Cardiovascular and Pulmonary Dysfunction I and II
  - Examination and Evaluation I
- Student adviser: 2-3 students per cohort
- Acute Care Residency Co-Director
  - Mentor residents during their teaching participation in the entry level program
  - Teach Electrocardiogram relation to movement problems
  - Facilitate Combined Residency Rounds
- Neurologic Residency
  - Teach in the Neurological ICU curriculum
  - Teach case-based vital sign interpretation
  - Facilitate Combined Residency Rounds
- Orthopedic Residency
  - Teach case-based vital sign interpretation
  - Facilitate Combined Residency Rounds
- Fellowship in Advanced Orthopedic Physical Therapy Practice, Research and Education
  - Teach case-based vital sign interpretation

Rehab Education Formula, LLC, Roselle, IL

**2013-Present: Owner**

- Course designer and presenter
- Website and brochure designer

University of Chicago, Chicago, IL

**2015-2019: Program Coordinator/ Director, Critical Care Fellowship**

- Lead Physical Therapist for the Medical Intensive Care Unit
- Physical Therapy Critical Care Fellowship mentor
- Physical Therapy Critical Care Fellowship and Occupational Therapy Residency faculty
  - Lecturer of didactic segments related to respiratory failure, acid-base physiology, and oxygen delivery
  - Annual program modification and coordination with Occupational Therapy program elements
  - Critical Care Fellowship Program redesign to enhance interprofessional experiences with medical and surgical services

**Trainees**

University of Chicago Critical Care Fellowship

- Allison DeWitt, PT, DPT, Board Certified Cardiovascular and Pulmonary Clinical Specialist
- Elizabeth Steele, PT, DPT Board Certified Cardiovascular and Pulmonary Clinical Specialist
- Cristiane Meirelles, PT, PhD, Board Certified Cardiovascular and Pulmonary Clinical Specialist
- Colleen Ward, PT, DPT, Board Certified Cardiovascular and Pulmonary Clinical Specialist
- Peter Herbst, PT, DPT, Board Certified Cardiovascular and Pulmonary Clinical Specialist

Governors State University, University Park, IL

**2005 to 2009: Adjunct Faculty Member**

- Instructor in Cardiovascular and Pulmonary Physical Therapy
  - Lecture presentation
  - Small Group facilitation
  - Exam development
  - Student mentoring

Rush University, Chicago, IL

**1990-2001; 2004-2015: Senior Physical Therapist**

- Primary Physical Therapist in the Medical, Surgical and Cardiac ICU's
- Inpatient Acute, Inpatient Rehab, Skilled Level Care, and Outpatient experiences in a large urban facility.

Northwestern Memorial Hospital, Chicago, IL

**2003-2004: Resource Coordinator for Orthopedics and Neurological Services**

- Patient care and staff mentoring

Sherman Hospital, Elgin, IL

**2001-2003; 2004-2008: Inpatient Manager for Physical Therapy; Outpatient Therapy**

- Inpatient manager
- Acute Care educator for Physical, Speech and Occupational Therapy
- Outpatient physical therapy float position

## EDUCATION

Rosalind Franklin University of Medicine and Science, North Chicago, IL

### **2002-2004: Transitional Doctor of Physical Therapy**

- Final project: “Acute Care Laboratory Values and Electrocardiogram Findings Interpretation and Clinical Reasoning.”

Finch University of Health Sciences/ Chicago Medical School, North Chicago, IL

### **1998- 2002: Master of Science in Physical Therapy**

- Thesis: “A Comparison of Verbal and Written Instruction for Symptom Management for Inpatients in the Cardiomyopathy and Transplant Unit.”
- Independent Study project: “Shortness of Breath Clinical Decision-Making Tree”

University Of Illinois at Chicago, Chicago, IL

### **1988-1990: Bachelor of Science in Physical Therapy**

University of Illinois at Urbana-Champaign, Urbana-Champaign, IL

### **1986-1988: Pre-Physical Therapy requirements**

- Honor Roll Spring 1988 semester

## LICENSURE

State of Illinois

**1990-Present: Physical Therapist** License Number 070.006290

## TRAINING

### **2022**

- Exploring Experiences and Language of Diversity, Equity, and Inclusion
  - Respiratory Health Association
- Feinberg School of Medicine Curriculum Bias Checklist orientation and mechanism for students to report bias in curriculum education

### **2021**

- Workshop on Unconscious Bias
  - Department of Physical Therapy and Human Movement Sciences
- Foundation Research Grants: Tips on How to be a Successful Applicant and What Happens When You Are
  - Foundation for Physical Therapy
- Post Conference course, Advanced Topics in Dementia
  - APTA Geriatrics

### **2020-2022**

- Feinberg Academy Medical Educators Certificate Program
- Northwestern University Education Technology Fellow

## **2019**

- New Faculty Development Workshop
  - Searle Center for Advanced Learning and Teaching
- Faculty Development Workshop
  - Academy of Physical Therapy Education

## **2017**

- Leadership Training
  - The Advisory Board. Collaborative leadership training at the University of Chicago
- Leadership Development
  - APTA

## **2016**

- Leadership Development
  - APTA

## **HOSPITAL APPOINTMENTS**

Shirley Ryan AbilityLab

### **2019-present**

- Supplemental staff

University of Chicago Hospitals

### **2015- 2019**

- Program Coordinator in Critical Care

Rush University Medical Center, Chicago, IL

### **1990-2001; 2004-2015**

- Senior Physical Therapist

Northwestern Memorial Hospital, Chicago, IL

### **2003-2004**

- Resource Coordinator of Orthopedic and Neurological Services

Sherman Hospital, Elgin, IL

### **2001-2003; 2004-2008**

- Inpatient Acute and Subacute Physical Therapy Team Leader in a Level 2 Trauma Center
- Outpatient Care

## **HONORS AND AWARDS**

2022 Nominee "Canvas Hall of Fame", Northwestern University

2014 Acute Care Section Lecture Award, APTA

2012 Mary Sinnott Award for Clinical Excellence in Acute Care, APTA

2008 Illinois Physical Therapist of the Year, IPTA

## PROFESSIONAL ORGANIZATIONS

American Physical Therapy Association

### **1989-Present: Member**

- 2019-2021: Appointed Member of the Special Committee to the House of Delegates to Amend and Propose Bylaws (SCB)
- 2019-present: Practice Analysis Coordinator: Acute Care Residencies and Critical Care Fellowships Practice Analysis Survey and development of descriptions of specialty, residence, and fellowship practices.
- 2014-2015: Productivity Staff Taskforce

APTA Acute Care

### **1997-Present: Member**

- 2019-present: Vice President
- 2007-2010: Nominating Committee Member
- 2007-2010 and 2019-present: Development of the Practice Analysis survey
- 2007-2010: Implementation and publication of the Practice Analysis survey
- 2009 Design and submission of the application for specialization to the American Board of Physical Therapist Specialists (ABPTS); in process at present
- 2007-2010 Subject Matter Expert: Task Force to define Acute Care as a specialty.

APTA Cardiovascular and Pulmonary Section

### **1995-present: Member**

- 2007-2020: Education Chair and Board of Director member
- ABPTS participant in qualitative analysis of Cardiovascular and Pulmonary board certification exam

Academy of Physical Therapy Education

### **2019-Present: Member**

Academy of Orthopedic Physical Therapy

### **1991-95, 1999-01: Member**

Illinois Physical Therapy Association

### **1989-Present: Member**

- 2020-2021: Member Illinois Physical Therapy Association Awards Committee
- 2020-present: At Large Delegate, Illinois Chapter
- 2016-2019: Chief Delegate, Illinois Chapter
- 2004-2018: Delegate to the APTA House of Delegates
- 92-98, 03-present: Assembly Representative for the Illinois Assembly of Representatives
- 1/97-1/99, 2005-2012: Editor, PT Priority Illinois Physical Therapy Association Newsletter
- 2005-2007, 2009 –2010: Northern District Vice-Chair
- 2007-2009, 2011: Northern District Chair

## PROFESSIONAL ACTIVITIES

Respiratory Health Association, Chicago IL

**2014-Present:** Board of Directors

Depositions

**2007:** Deposition participation for case content in a case related to an ongoing patient

**2000:** Deposed in a defense case for Rush University Medical Center

## PRESENTATIONS

American Physical Therapy Association

**2022** San Antonio, TX

- Advancing Acute Care Practice: One Future Specialist at a Time
- Teaching Cardiovascular and Pulmonary Exam Techniques using a Novel Approach and Mastery Learning Techniques
- Variable Physiological Responses to Acute Intermittent Hypoxia in Healthy Participants
- Effective Teaching Strategies to Convert Cardiovascular Physiology Non-Believers

**2019** Washington, DC

- Is Your Career Plan Keeping Up with the Future of Physical Therapy Care in the ICU?

**2018** New Orleans, LA

- How Hospitalization Precludes Your Patient from Returning to Their PLOF

**2015** Nashville, TN

- Where Do I Begin When Treating the Medically Complex Patient?

**2014** Las Vegas, NV

- Defining Clinical Competence in the ICU
- Do You Own Your Practice? Owning Your Decisions and Behaviors

**2013** San Diego, CA

- Clinical Reasoning for the Patient with Complex Cardiovascular and Pulmonary Dysfunction: From Critical Care to Rehab
- How Clinical Reasoning Can and Should Impact Interprofessional Communication that Hinders Acute Care Practice

**2011** New Orleans, LA

- PT Examination and Interventions for Older Patients with Heart Failure: Lecture and Lab

**2010** Boston, MA

- Acute Care Specialization Update
- The Complex Patient

**2008** San Antonio, TX

- The Matrix: A Tool to Understand the Cardiopulmonary Changes with Exercise and Disease

**1999** Seattle, WA

- The Shortness of Breath Decision Making Tree

## Illinois Physical Therapy Association

### **2022**

- Vital Sign Measurement and Interpretation
- Variable Physiological Responses to Acute Intermittent Hypoxia in Healthy Participants

### **2021**

- Vital Sign Measurement and Interpretation of the Aging Client

### **2018**

- How Hospitalization Precludes Your Patient from Returning to Their PLOF

### **2013**

- Tailoring Physical Therapy Treatment to Achieve Optimal Function for a Patient with Multiple Sclerosis Receiving Intrathecal Baclofen Therapy: A Case Report

### **2010**

- An Update on Antihypertensive Medication

### **2009**

- The Comprehensive Management of the Complex Patient

### **2007-2017**

- Know When to Say When: How to Determine Your Patient's Activity Tolerance  
Spring 2007 Tri-District  
Winter 2008 Southern District  
Winter 2008 Chicago Area Director's Forum  
February 2009 IPTA Central District  
November 2009 IPTA West Central District  
September 2011 IPTA Fall Meeting

### **1998**

- Shortness of Breath Decision Making Tree

## Peer Reviewed Presentations

### Governors State University

#### **2021**

- Physical Therapy Rehabilitation of an Elderly Inpatient with Post-Acute COVID-19 Syndrome: A Retrospective Case Report

### Northwestern University

#### **2021**

- Using Structured Student Interaction to Enhance Student Performance
- Effective Teaching Strategies to Enhance a Growth Mindset  
Medical Education Day, September

## Evidence In Motion

**2020**

- Acute Care 101

## University of Chicago

**2018**

- Seeing Versus Doing: A Comparison of Observers Versus Doers During a Novel Interprofessional Discharge OSCE. McKinnon M, Chandiramani A, Stulberg M, Ryan J, Farnan J, Arora V. University of Chicago Research Symposium. April 2017.

## Rush University

**1999**

- Shortness of Breath Decision Making Tree

## Invited Lectures

## University of Chicago

**2019**

- Laboratory Value Interpretation in the Critically Ill Patient, Northwestern University Physical Therapy and Human Movement Sciences

**2015**

- Post Intensive Care Syndrome, Northwestern University Physical Therapy and Human Movement Sciences
- **2014**
- Why ICU Patients Should be the High Priority Patients, Jesse Brown VA

**2011**

- Multisystem Examination for Patients with Lymphedema and Comorbidities, Klose Lymphedema Conference **2010**
- Antihypertensive Use with the Elderly, Midwestern University

**2008**

- Management of Patients with Pulmonary Disorders, University of Illinois at Chicago

**2008-2018**

- Management of Patients with Pulmonary Disorders PT 635, 2007, 2013
- Do You Feel Like Your 'Get Up and Go' Got Up and Went?, Scleroderma Foundation
- **2001-2008**
- Management of the Critically Ill Patient Heart Failure, Cardiac Transplant and Lab Value interpretation, Rosalind Franklin University of Medicine and Science

## **EDITORIAL RESPONSIBILITIES**

## Illinois Physical Therapy Association

**1997-99, 2005-12:** Editor

- PT Priority, The Illinois Physical Therapy Newsletter

APTA Geriatrics



**2008:** Guest Editor

- GeriNotes, APTA Geriatrics Newsletter

## **REVIEW RESPONSIBILITIES**

APTA Acute Care

2010-Present: Journal reviewer

- Journal of Acute Care Physical Therapy

Northwestern University

2021: Submission reviewer

- TEACHx 2021

## **PUBLICATIONS**

Peer Reviewed:

- Ryan JM, Do You Own Your Practice? Owning Your Decisions and Actions. JACPT. 2014;5:54-8.
- Ryan JM, Gorman SL. How Clinical Reasoning Can and Should Impact Inter Professional Communication to Address Behaviors that Hinder Acute Care Practice. JACPT. 2013;5(1):18-29.
- Gorman SL, Hakim EW, Johnson W, Bose S, Harris KS, Crist MH, Holtgreffe K, Ryan JM, Simpson MS, Coe JB. Nationwide Acute Care Physical Therapist Practice Analysis Identifies Knowledge, Skills, and Behaviors That Reflect Acute Care Practice. Phys Ther. October 2010 vol. 90 no. 10 1453-1467.
- Frownfelter D, Ryan J. Dyspnea: Measurement and Evaluation. J Cardiopulm Phys Ther. 2000;11:7-12.
- Ryan JM "The Patient in the Community" chapter 41 in Cardiovascular and Pulmonary Physical Therapy, 5th Ed, Elsevier. 2012. 6th Ed 2021 planned.
- Ryan JM, Frownfelter D. Shortness of breath clinical decision-making tree. Cardiopulmonary Physical Therapy Journal. 9(4):19, October 1998.
- McKinnon M, Chandiramani A, Stulberg M, Ryan J, Farnan J, Arora V. Seeing versus doing: A comparison of observers versus doers during a novel interprofessional discharge OSCE. SGIM. June 2017.
- Ryan J, Frownfelter D. Shortness of Breath Clinical Decision-Making Tree-Abstract. J Cardiopulm Phys Ther. Fall 1998;9(4):19.

Non-Peer Reviewed:

- Ryan J. Antihypertensive Medication Use with the Elderly. Gerinotes. 2008;15(5):17-20.
- Getting Around: Community Mobility. PT\_in\_Motion. 2017.
- Book Chapter: Cardiovascular and Pulmonary Physical Therapy, 6th Edition: The Patient in the Community, 2022
- Cardiovascular and Pulmonary Physical Therapy, 5th Edition: The Patient in the Community, 2012