Making Correct Decisions: Accurate Diagnosis and Appropriate Test Selection

Course Description: In clinical practice, physical therapists use tests and measures for a probabilistic approach to clinical decision making. This decision making approach requires that the tests and measures provide tangible value and can alter the post-test probability of diagnosis or prognosis. Recent evidence also dictates that selected tests should be used either early in the examination process to rule out contenders or late in the examination process to confirm hypotheses. Use of diagnostic accuracy values such as sensitivity, specificity, and positive likelihood ratios has improved our ability to discriminate tests’ strengths. The focus of this course is to provide those tests and measures and the appropriate order within an examination that improves probability of a correct diagnosis or outcome.

Learning Objectives:
1) Recognize and apply appropriate diagnostic accuracy measures for use in spot diagnosis (screening), differentiation, and confirmation.
2) Compare and contrast type 1 and type 2 decision making and determine when each is most appropriate
3) Perform the best tests and measures used during diagnosis and prognosis
4) Integrate selected clinical findings into prognostic outcomes.
5) Identify applications of prognosis that are useful in designing appropriate care plans for patients.

Course Format: Lecture, Discussion and Demonstration

Course Schedule
Friday, October 10th 2014
7:00-8:00am  Registration & Breakfast
8:00-10:00am  Consequences of Medical Errors
9:00-10:00  Type 1 and Type 2 Decision Making
10:00-10:30  Break
10:30-12:00  Benefits and Biases of Type 1 and Type 2 Decision Making
12:00-1:30pm  UPTA Business Meeting & Lunch
1:30-2:45pm  Analytic Decision Making: Best Tests
2:45-3:15pm  Break
3:15-5:00pm  Analytic Decision Making: Best Tests

Saturday, October 11th 2014
7:00-8:00am  Registration & Breakfast
7:30-8:20am  Ethics Course (UPTA Sponsored for all attendees)
8:30-10:15  Analytic Decision Making: Best Tests
10:00-10:30  Break
10:45-12:00  Analytic Decision Making: Best Tests
12:00-1:00pm  Box Lunch
1:00-3:00pm  Analytic Decision Making: Best Tests
Presenters Credentials and Qualifications: Chad Cook, PT, PhD, MBA, FAAOMPT is a Professor and Vice Chief of Research at Duke University. Dr. Cook received his Bachelors of Science in Physical Therapy at Maryville University in 1990, a Masters of Business Administration in 1999, and a Doctorate of Philosophy (PhD) at Texas Tech University in 2003. He was certified as an orthopedic manual therapist in 2001, achieved APTA board certified orthopedic specialization in 2002, and received fellowship status at the American Academy of Orthopedic Manual Therapy in 2006. Dr. Cook has published approximately 170 peer reviewed papers and has two textbooks in their 2nd edition: Orthopedic Manual Therapy: An evidence based approach and Orthopedic Physical Examination Tests: An evidence based approach and a third in its first edition. Dr. Cook has published several book chapters in other textbooks and has presented internationally at over 160 presentations/conferences. He is the former Editor in Chief of the Journal of Manual and Manipulative Therapy and is a present Associate Editor of Manual Therapy and an editorial advisor for a number of other international journals. He has been a senior faculty and lecturer in peripheral and spine joint mobilization with Maitland Australian Physiotherapy Seminars for over 15 years. He is currently the treasurer of AAOMPT. Dr. Cook has won numerous awards locally at Duke for teaching, is a recent winner of the OPTP/JMMT literature review award in 2003 and 2005, was the 2009 winner of the top educator award for the American Physical Therapy Association, is the 2008 recipient of the Helen Bradley career achievement award and is the 2005 winner of the J Warren Perry Distinguished Authorship Award. He is also the 2011 Winner of the AAOMPT Excellence in Research Award and the co-winner of the 2012 award.

Bibliography