



Introduction to Using and Interpreting the PEDI-CAT

Presented by Helene Dumas and Maria A. Fragala-Pinkham

Tuesday, October 6, 2020

11:00 a.m. to 12:00 p.m. Eastern Time Zone

Sponsored by Pearson Clinical Assessment

Overview

The authors of the Pediatric Evaluation of Disability Inventory Computer Adaptive Test (PEDI-CAT) will discuss the principles underpinning PEDI-CAT development (including the unique computer-adaptive nature of the assessment), provide guidance to optimize administration with intended populations, and present scoring and interpretation guidance supported by case study presentations. This is an intermediate level webinar.

Learner Outcomes

Based on the content of the session, participants will be able to:

1. Describe the transition from the original Pediatric Evaluation of Disability inventory (PEDI) to the computerized adaptive test (CAT) of the PEDI (PEDI-CAT)
2. List two of the properties or benefits of Item Response Theory (IRT) and computer adaptive testing
3. Explain at least two features of the PEDI-CAT assessment and how these benefit the intended populations
4. Discuss how PEDI-CAT scores are used to inform clinical decision making

Time-ordered Agenda – Eastern Time Zone

11:00 – 11:05 a.m.	Introduction and transition from the original Pediatric Evaluation of Disability inventory (PEDI) to the computerized adaptive test (CAT) of the PEDI (PEDI-CAT)
11:05 – 11:10 a.m.	The properties and benefits of Item Response Theory (IRT) and computer adaptive testing
11:10 – 11:40 a.m.	Present the PEDI-CAT features and administration
11:40 – 11:55 a.m.	Case Demonstrations of the PEDI-CAT and PEDI-CAT (ASD) Speedy and Content-Balanced versions
11:55 a.m.– 12:00 p.m.	Questions and Answers

About the Presenter(s)

Helene Dumas, PT, DPT, MS is the director of The Medical-Rehabilitation Research Center at Franciscan Children's Hospital in Boston. Dr. Dumas received her Bachelor of Science degree in Physical Therapy from Boston University, a Master of Science degree in Human Services Administration from the University of Massachusetts, Boston and a Doctor of Physical Therapy from Northeastern University. She has served in clinical, supervisory, and administrative roles with infants, children, adolescents and adults with disabilities in early intervention, schools, home health, and hospital settings. She has presented on clinical topics and research findings, and has academic teaching experience in pediatric, neuromuscular, and cardiopulmonary physical therapy. Dr. Dumas has developed functional outcomes measures to use with children with disabilities and has



published numerous articles examining functional outcomes for children following acquired and traumatic brain injury. Dr. Dumas has conducted research in hospital and community settings using the original PEDI and has conducted studies using the PEDI to examine inpatient rehabilitation outcomes and ascertain the impact of specific interventions.

Maria A. Fragala-Pinkham, PT, DPT, MS is a physical therapist and manager of Research and Quality Improvement at Boston Children's Hospital. At the time the PEDI-CAT was developed, Dr. Fragala-Pinkham was a clinical researcher in the Medical-Rehabilitation Research Center at Franciscan Children's Hospital. Dr. Fragala-Pinkham received her Bachelor of Science degree in Physical Therapy from Northeastern University, a Master of Science degree in Human Movement Science from the University of North Carolina, and a Doctor of Physical Therapy from MGH Institute of Health Professions in Boston. She has worked in a variety of clinical pediatric settings including early intervention, schools, home care, and hospital inpatient and outpatient programs. In addition, she has developed community and hospital-based adaptive sports and fitness programs for children with special needs. Dr. Fragala-Pinkham has published articles on the topics of pediatric outcome measurement, effectiveness of therapeutic interventions, and fitness for children with disabilities. She presents on physical therapy intervention and outcome measurement for local and international audiences.

Disclosure:

Financial - Helene Dumas is receives a speaking fee from CRECare. Dr Dumas received free PEDI-CAT software from CRECare

Non-Financial: Dr Dumas is one of the authors of the PEDI-CAT and provides consultation to CRECare about the PEDI-CAT

Financial: Dr. Fragala-Pinkham's previous employer received payment for her work on the development of the PEDI-CAT (subcontract for STTR grant) and for review of updates of the PEDI-CAT program and development (CRECare). Dr Fragala-Pinkham received free PEDI-CAT software from CRECare.

Non-Financial: Dr Fragala-Pinkham is one of the authors of the PEDI-CAT and provides consultation to CRECare about the PEDI-CAT

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- Credentialed by a state regulatory agency to practice SLP or audiology
- Credentialed by a national regulatory agency to practice SLP or audiology
- Engaged in a Clinical Fellowship, which is supervised by someone with their ASHA CCC
- Currently enrolled in a masters or doctoral program in SLP or audiology

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