

BIOGRAPHICAL SKETCH

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NAME Robert J. Palisano, PT, ScD, FAPTA		POSITION TITLE	
eRA COMMONS USER NAME (credential, e.g., agency login) Palisano		Associate Dean for Research College of Nursing and Health Professions Drexel University, Philadelphia, PA	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
S.U.N.Y. at Buffalo	B.S	1971-1975	Physical Therapy
University of North Carolina at Chapel Hill	M.S.	1978-1981	Physical Therapy
Boston University	Sc.D.	1981-1985	Therapeutic Studies
McMaster University, <i>CanChild</i> Centre		1994-1995	Childhood Disability

A. Personal Statement

My research is on children and youth with cerebral palsy (CP) and their families. For the past 20 years I have engaged in interdisciplinary research conducted in settings where children live and receive services. Research with colleagues at the *CanChild* Centre led to the creation and validation of the Gross Motor Function Classification System for CP, which is the international standard for research with over 2,600 citations. We subsequently created and validated gross motor function curves for each of the five-levels of the GMFCS demonstrating that, on average, children with CP have achieved 90% of their motor function capacity by age 7. Our qualitative findings indicated that adolescents with CP were generally satisfied with their quality of life but reported relatively lower satisfaction in activities carried out to achieve personal goals, hopes, and wishes. Noteworthy, quality of life was only weakly correlated with functional abilities, supporting the current view of participation as a dynamic interaction between person and environment.

My research on classification, development, and prognosis for motor function in children with cerebral palsy has direct implications for research to understand causal mechanisms and interventions to prevent CP. The Gross Motor Function Classification System (GMFCS) previously was used as an indicator of severity of cerebral palsy in an NIH study of the effects of magnesium sulfate on prevention of CP. Collectively the Gross Motor Function Classification System, Manual Ability Classification System, and Communication Function Classification provide a valid and objective method to determine severity and identify unique patterns of development that have implications for services and supports to families. These classification systems will enable identification of potential disparities between Black and White infants with cerebral palsy.

B. Positions and Employment

2016-Present Associate Dean for Research, College of Nursing and Health Professions
2013-Present Distinguished Professor of Rehabilitation Sciences, Drexel University, Philadelphia, PA
1997-2013 Professor, Department of Physical Therapy and Rehabilitation Sciences, Drexel University, Philadelphia, PA
1994-Present Scientist, *CanChild* Centre for Childhood Disability Research, McMaster University, Ontario, Canada
2006-Present Co-Editor: *Physical & Occupational Therapy in Pediatrics*
1994-Present Associate Editor: *Physical Therapy for Children*, Philadelphia: Elsevier (4th Edition, 2012)
2011-Present Editorial Board, McKeith Press

Professional Memberships

American Physical Therapy Association
American Academy of Cerebral Palsy and Developmental Medicine

Honors

- 2012 Marian Williams Award for Research in Physical Therapy, American Physical Therapy Association
- 2011 Catherine Worthingham Fellow of the American Physical Therapy Association (APTA)
- 2011 Knowledge Translation Leadership Award, Section on Pediatrics, APTA
- 2009 Keynote address, International Conference on Cerebral Palsy, Sydney, Australia
- 2008 Anniversary Award, Section on Pediatrics, APTA
- 2007 Drexel University Research/Scholarship Award
- 2005 Golden Pen Award, American Physical Therapy Association
- 2004 Saarinen Lectureship, School of Rehabilitation Science, McMaster University
- 2003 Keynote, Folke Bernadotte Conference, Stockholm, Sweden
- 2000 Excellence in Neurology, Pennsylvania Physical Therapy Association
- 2000 Distinguished Faculty Award, MCP Hahnemann University
- 1997 Research Award, Section on Pediatrics, APTA
- 1994-1995 Career Scientist Award, Ontario Ministry of Health
- 1992 Chattanooga Research Award, best clinical research report in *Physical Therapy*
- 1985 Doctoral Dissertation Research Award, Section on Pediatrics, APTA
- 1984 Therapeutic Studies Doctoral Award, Boston University

C. Selected Peer-reviewed Publications (Selected from 100 peer-reviewed publications)

Most relevant to the current application

* Denotes *student author (Italic)*

1. ***Palisano RJ**, Kang LJ, Chiarello L, Orlin M, Oeffinger D, Maggs J. Social and Community Participation of Children and Youth with Cerebral Palsy is Associated with Age and Gross Motor Function Classification. *Physical Therapy*, 89: 1304-1314, 2009
2. ***Palisano RJ**, Almasri N, Chiarello L, Orlin M, Begley A, Maggs J. Family Needs of Parents of Children and Youth with Cerebral Palsy. *Child: Care, Health & Development*, 36(1): 85-92, 2010.
3. *Chiarello L, **Palisano R**, Maggs J, Orlin M, Almasri N, Kang LJ, Chang H. Family Priorities for Activity and Participation of children with Cerebral Palsy. *Physical Therapy*, 90:1254-1264, 2010.
4. *Maggs J, **Palisano R**, Chiarello L, Orlin M, Chang H. The Same but Different? Comparing the Priorities of Parents and Young People with Cerebral Palsy. *Disability and Rehabilitation*, 33(17-18):1650-1658, 2011
5. **Palisano RJ**, Chiarello LA, Orlin M, Polansky M, Oeffinger D, Gorton G, Bagley A. Determinants of Participation in Leisure and Recreational Activities by Children with Cerebral Palsy. *Developmental Medicine and Child Neurology*, 53(2):142-149, 2011
6. **Palisano RJ**, Orlin M, Chiarello LA, et al. Determinants of Intensity of Participation in Leisure and Recreational Activities by Youth with Cerebral Palsy. *Archives of Physical Medicine and Rehabilitation*, 92:1468-1476, 2011
7. *Kang L, **Palisano RJ**, King GA, Chiarello L, Orlin MN, Polansky M. (2012). Social participation of youth with cerebral palsy differed based on their self-perceived competence as a friend. *Child: Care, Health & Development*, 38(1), 117-127.
8. Stewart D, Lawless J, Shimmell L, **Palisano RJ**, Freeman M, Rosenbaum P, Russell D. Social Participation of Adolescents with Cerebral Palsy: Trade-offs and Choices. *Physical & Occupational Therapy in Pediatrics*, 32(2): 167-179, 2012
9. **Palisano RJ**, Chiarello LA, King GA, Novak A, Stoner T, Fiss A. Participation-based Therapy for Children with Physical Disabilities. *Disability and Rehabilitation*, 34(12):1041-1052, 2012
10. *Kang LJ, **Palisano RJ**, King GA, Chiarello LA. Understanding Optimal Participation of Children with Physical Disabilities: An Interactive Model. *Disability and Rehabilitation*, 2013 Dec 11. [Epub ahead of print]
11. Rosenbaum P, Eliasson AC, Hidecker MJ, **Palisano R**. Classification in Childhood Disability: Focusing on Function in the 21st Century. *Journal of Child Neurology*, 29:1036-1045, 2014

The objective of this study is to create longitudinal developmental curves for impairments, health conditions, and participation of children with cerebral palsy.

Role: Co-investigator

Ontario Brain Institute Fehlings (PI) 2013-2018

Childhood Cerebral Palsy Integrated Discovery Network "CP-NET". (OBI), 2013-2018)

Role: Co-investigator for Brain-Behaviour Correlates of Health and Well-being in Adolescents and Young Adults with Cerebral Palsy

Completed Research Support

Co-Investigator, Understanding Determinants of Basic Motor Abilities, Self-care, and Play of Young Children with Cerebral Palsy. Canadian Institutes of Health Research, MOP – 81107, 2006-2009

Co-Investigator. Understanding Determinants of Motor Abilities, Self care, and Play of Young Children with Cerebral Palsy. The National Institute on Disability and Rehabilitation Research H133G060254, 2006-2009

Principal Investigator, Activity and Participation of Children with Cerebral Palsy: Multi-Site Clinical Outcomes Study. Shriners Hospitals for Children, COS 9197, 2006-2008

Principal Investigator, Activity and Participation of Children with Cerebral Palsy: Development of a Longitudinal, Multi-Site Clinical Outcomes Study. Shriners Hospitals for Children, COS 9197, 2005

Co-Investigator, Adolescents with Cerebral Palsy: What Happens to Mobility and Self-Care? Canadian Institutes of Health Research, MOP-53258, April 2002-2007

Co-Investigator, Motor Growth Curves in Cerebral Palsy: A Guide for Rehabilitation, National Center for Medical Rehabilitation Research, National Institute for Child Health and Human Development, National Institutes of Health, R01-HD-34957, February 1997-2001

Co-Principal Investigator, Development of Motor Function in Children with Cerebral Palsy: Creation of Motor Growth Curves, Medical Research Council of Canada, MT-12476, January 1996-1998