

BIOGRAPHICAL SKETCH

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NAME Edward A. Hurvitz		POSITION TITLE Associate Professor and Chair	
eRA COMMONS USER NAME ehurvitz			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Wayne State University, Detroit, MI	BS	1980	Honors Biology
Wayne State College of Medicine, Detroit, MI	MD	1984	Medicine
International Graduate Summer Session in Epidemiology		1988,89,90,94,96	Biostatistics & Epidemiology

Title and Role on Proposed Project: Co-investigator

Budgets: Year 1 \$13,441, Year 2 \$13,978, Year 3 \$14,537

A. Positions and Honors

POST-DOCTORAL TRAINING

Intern: Dept. of Pediatrics, Children's Hospital of Michigan, 7/84-12/84
Intern: Dept. of Medicine Sinai Hospital of Detroit, 1/85-6/85
Resident: Department of Physical Medicine & Rehabilitation,
Sinai Hospital of Detroit, 7/85-6/88
Fellow: Pediatric Rehabilitation, University of Michigan, 7/88-2/89
Fellow: Department of Education NIDRR, Rehabilitation Fellow 1/90-12/91

PRESENT APPOINTMENTS

Associate Professor and Chair, Department of Physical Medicine and Rehabilitation, University of Michigan Medical School, Ann Arbor, Michigan, 2006-present (Faculty since 1988, Assoc. Prof. since 2002)

AWARDS:

James W. Rae Collegiate Professorship in Physical Medicine and Rehabilitation, 2006-present
Silver Crutch, Excellence in Teaching, from Residents, 1991

B. Selected peer-reviewed publications (in chronological order, of 37).

1. Hurvitz EA, Nelson VS: Characteristics of pediatric rehabilitation training offered by Physical Medicine and Rehabilitation residencies. *Am J Phys Med Rehabil* 70:81-85, 1991.
2. Hurvitz EA, Mandac BR, Davidoff G, Johnson JH, Nelson VS: Risk factors for heterotopic ossification in children and adolescents with severe traumatic brain injury. *Arch Phys Med Rehabil* 73:459-462, 1992.
3. Nelson VS, Carroll JC, Hurvitz EA, Dean JM: Home mechanical ventilation of children: Parameters of change in fifteen years of experience. *Devel Med Child Neurol* 38:704-715, 1996.
4. Hornyak JE, Nelson VS, Hurvitz EA: The use of methylphenidate in paediatric traumatic brain injury. *Ped Rehabil* 1:15-17, 1997.

5. Ramos E, Latash MP, Hurvitz EA, Brown SH: Quantification of upper extremity function using kinematic analysis. *Arch Phys Med Rehabil* 78:491-496, 1997.
6. Van Hala S, Nelson VS, Hurvitz EA, Panzi A, Bloom DA, Ward MJ: Bladder management in patients with pediatric onset neurogenic bladders. *J Spinal Cord Med* 20:410-415, 1997.
7. Bahng SC, Van Hala S, Nelson VS, Hurvitz EA, Roloff DW, Grady EA, Lewis CC: Parental report of pediatric tracheostomy care. *Arch Phys Med Rehabil* 79:1367-69, 1998.
8. Goetz L, Hurvitz EA, Nelson VS, Waring W: Bowel management in children and adolescents with spinal cord injury. *J Spinal Cord Med* 21:331-341, 1998.
9. Hurvitz EA, Beale L, Reid S, Nelson VS: Functional outcome of paediatric stroke survivors. *Ped Rehabil* 3:43-51, 1999.
10. Hurvitz EA, Conti GE, Flansburg EL, Brown SH: Motor control testing of upper limb function after botulinum toxin injection: A case study. *Arch Phys Med Rehabil* 81:1408-15, 2000.
11. Warschausky S, Argento A, Hurvitz E, Berg ML. Neuropsychological status and social problem solving in children with congenital or acquired brain dysfunction. *Rehabil Psych* 48(4): 250-254, 2003.
12. Hurvitz EA, Conti GE, Brown SH: Changes in movement Characteristics of the spastic upper extremity after botulinum toxin injection. *Arch Phys Med Rehabil* 84:444-54, 2003.
13. TD Sanger, MR Delgado, D Gaebler-Spira, M Hallett, JW Mink: Classification and definition of disorders causing hypertonia in childhood. Task Force on Childhood Motor Disorders *Pediatrics* 111:e89-e97, 2003.
14. Hurvitz EA, Leonard C, Ayyangar RN, Nelson VS: Complementary and alternative medicine use in families of children with cerebral palsy. *Developmental Medicine and Child Neurology*. 45:364-370, 2003
15. Hurvitz E, Warschausky S, Berg M, Tsai S. Long-term functional outcome of pediatric stroke survivors. *Topics in Stroke Rehabilitation* 11;2:51-59, 2004
16. Green LB, Hornyak JH, Hurvitz EA. Amantadine in Pediatric Traumatic Brain Injury Patients--A Retrospective, Case-Controlled Study. *Am J Phys Med Rehabil* 83: 893-897, 2004.
17. Goble DJ, Lewis CA, Hurvitz EA, Brown SH: Upper limb proprioceptive acuity in children and adolescents. Accepted by *Human Movement Science*, 24:155-170, 2005
18. Hurvitz EA, Green LB, Hornyak JE, Khurana S, Koch LG. Body Mass Index Measures in Children with Cerebral Palsy Related to Gross Motor Function Classification. A Scale Clinic-Based Study. *Am J Phys Med Rehabil* 87(5): 395-403, 2008.
19. Brown SH, Lewis CA, McCarthy JM, Hurvitz EA: Improved upper limb function in cerebral palsy using internet-based home training. *J Rehab Med* 40 (suppl): 57, 2008
20. Goble DJ, Lewis CA, Hurvitz EA, Brown SH: Proprioceptive deficits in children with hemiplegic cerebral palsy. *J Rehab Med* (in press)

C. Research Support

Ongoing and Completed within the last three years

NIH R21 (Warschausky) Principal Investigator: Evaluation and application of an adapted measure of inspection time of children with cerebral palsy 2/11/2008-1/31/2010 (\$418,000) 1%

This study uses adaptive technology to assess inspection time in children with cerebral palsy and significant motor impairment. It is part of a larger project of the Adapted Cognitive Assessment Laboratory. Dr. Hurvitz will consult on medical aspects and recruit patients.

H133G050151 Brown (PI) 12/1/05 — 11/30/08

DOED/NIDRR

Upper Extremity Rehabilitation for Adults with Cerebral Palsy

This study examines the effects of a home-based, internet monitored exercise intervention for adults with cerebral palsy. The program is designed to improve upper extremity function. Dr. Hurvitz participated in design, and will participate in recruitment, implementation, analysis and dissemination efforts.

Role: Co-Investigator

5 T32 HD07422 Tate (PI) 5/1/06-4/30/11

NIH/NICHD

The U-M Medical Rehabilitation Research Training Program

Dr. Hurvitz serves as a “supervising mentor” for physicians and allied health professionals (non-psychologists) for this T-32 NIH sponsored training program, which is directed by Denise Tate, Ph.D. He is charged with recruitment and evaluation of these fellows, helping them to achieve the goals of the fellowship. The purpose of this program is to provide at least two years of research training in medical rehabilitation to post-doctoral fellows in the disciplines of physiatry, psychology, rehabilitation engineering, neurophysiology, biomechanics and other related fields.

Role: Co-Investigator

5 T32 HD07422 Tate (PI) 5/1/01 – 4/30/06

NIH/NICHD

The University of Michigan Medical Rehabilitation Research Training Program

Dr. Hurvitz serves as a “supervising mentor” for physicians and allied health professionals (non-psychologists) for this T-32 NIH sponsored training program, which is directed by Denise Tate, Ph.D. He is charged with recruitment and evaluation of these fellows, helping them to achieve the goals of the fellowship. The purpose of this program is to provide at least two years of research training in medical rehabilitation to post-doctoral fellows in the disciplines of physiatry, psychology, rehabilitation engineering, neurophysiology, biomechanics and other related fields.

C.S. Mott Children’s Hospital Research Fund Hurvitz (PI) 8/1/02 – open

Bilateral Activation of the Upper Extremity in Children with Unilateral Upper Extremity Motor Control Impairment

This study examines the interaction between the upper extremities of children and adolescents with hemiparetic cerebral palsy or with congenital brachial plexus palsy. The children are given different tasks, and kinematic measures determine if facilitation of the impaired extremity or constraint of one or both of the extremities occurs with bilateral tasks compared to unilateral.