

CURRICULUM VITAE
Ross McGandy Hays

February 2008

Personal Data

Birthdate: November 13, 1950
Birthplace: Renton, Washington
Marital Status: Married with two children
Citizenship: U.S.A.

Education:

University of Washington, School of Arts and Sciences
Degree: B.S., cum laude 1969-73

University of Washington, School of Medicine
Degree: M.D. 1974-78

Postdoctoral Training:

Pediatric Internship (PL1): Boston University School of
Medicine, Department of Pediatrics, Boston City
Hospital 1978-79

Pediatric Residency (PL2): Brown University School of Medicine,
Department of Pediatrics, Rhode Island Hospital,
Providence, Rhode Island 1979-80

Clinical Fellowship in Birth Defects (PL3): Tufts University School
of Medicine, Department of Pediatrics, Tufts New England
Medical Center and Boston Floating Hospital 1980-81

Physical Medicine and Rehabilitation Residency (R4 & R5):
Tufts University School of Medicine, Department of
Physical Medicine and Rehabilitation, Tufts New England
Medical Center and Rehabilitation Institute 1981-83

Certificate Program, Health Care Ethics
Department of Medical History and Ethics,
University of Washington School of Medicine
Seattle, WA 1990-91

Faculty Positions Held:

Acting Assistant Professor, Rehabilitation Medicine,
University of Washington 1984-86

Assistant Professor, Rehabilitation Medicine,
Adjunct Assistant Professor, Pediatrics,
University of Washington 1986-1992

Associate Professor, Rehabilitation Medicine,
Adjunct Associate Professor, Pediatrics,
University of Washington 1992-2001

Professor, Rehabilitation Medicine,
Adjunct Associate Professor, Pediatrics,
University of Washington 2001-

Professor, Associate Member
Dept. of Medical History and Ethics
University of Washington 2001-

Hospital Positions Held:

Associate Director, Department of Rehabilitation Medicine
Children's Hospital and Medical Center 1984-

Consultant, Medical Staff - Harborview Medical Center,
University Hospital, Veterans, Administration Hospital 1985-

Medical Director, Palliative Care Consulting Service
Children's Hospital and Medical Center 2001-

Medical Director, Pediatric Hospice and Palliative Care Program
Providence Hospice of Seattle 2007

Honors:

Undergraduate honors for independent research, University
Of Washington, School of Medicine 1975

Outstanding House Officer Award for Excellence in Pediatric
Care, Department of Pediatrics, Tufts University
School of Medicine, Boston Floating Hospital 1981

Teaching Excellence Recognition Award, University of
Washington, School of Medicine 1985

American Academy of Cerebral Palsy and Developmental Medicine, Richmond
Cerebral Palsy Center Award 1991

American Academy of Cerebral Palsy and Developmental Medicine, Richmond
Cerebral Palsy Center Award 1996

American Academy of Cerebral Palsy and Developmental Medicine, Richmond
Cerebral Palsy Center Award 1998

Board Certification:

Diplomate, National Board of Medical Examiners, 200987 1979

Diplomate, American Board of Pediatrics, 35134 1987

Diplomate, American Board of Physical Medicine
and Rehabilitation Medicine, 2276 1985

Diplomate, American Board of Hospice and Palliative Medicine 2006

Licensure to Practice:

Massachusetts	1981-84
Washington State	1983-

Professional Organizations:

Massachusetts Medical Society	1980-84
American Academy of Physical Medicine and Rehabilitation	1985-
American Academy of Physical Medicine and Rehabilitation Special Interest Group – Pediatrics	1985-
King County Medical Association	1985-
Washington State Medical Association	1985-
American Association of Electromyography and Electrodiagnosis	1985-
American Academy of Pediatrics	1987-
American Academy of Cerebral Palsy and Developmental Medicine	1988-2006
American Academy of Hospice and Palliative Medicine	2003-

Teaching Responsibilities

Director, Undergraduate Medical Education, Department of Rehabilitation Medicine, University of Washington	1987-
Director , Chronic Care Clerkship Requirement School of Medicine, University of Washington	1987-
University of Washington School of Medicine Years 3 & 4 Curriculum Review Committee	1998 –2000
University of Washington School of Medicine Curriculum Review Chronic Care Requirement Subcommittee (Chair)	1999 –2000
Rehab 695 : Chronic Disease and Disability (4 Credits) Clinical Clerkship Director Clinical tutor (ave. 5 students/ quarter)	1987-
Rehab 696: Rehabilitation Medicine Clerkship-Pediatrics (8 credits) Clinical tutor (ave. 1.5 students/ quarter)	1987-
HuBio 553: P-Musculoskeletal System Small group leader	1984-1992
PBL Tutor	1990-1996
Lecturer	1993-1997

HuBio 513: Introduction to Clinical Medicine I Lecturer	1990-1998
HuBio 522: Introduction to Clinical Medicine II Lecturer Small Group Leader	1987-1997 1987-1997
MHE 521: Ethical Challenges of Modern Medicine Lecturer	1993-2005
Conjoint 690 Chronic disease and Disability Course Chair	2001-

Editorial Responsibilities

Editorial Board, Journal of Pediatric Rehabilitation Reviewer:	1996-
<u>Developmental Medicine and Child Neurology</u>	1998-2004
<u>Archives of Physical Medicine and Rehabilitation</u>	1999-
<u>Journal of Palliative Medicine</u>	2006-
<u>New England Journal of Medicine</u>	2006-
<u>Archives of Pediatrics and Adolescent medicine</u>	2007
<u>Journal of Pediatrics</u>	2008

Special Responsibilities: University of Washington:

Discipline Leader for Ethics and Consultant, Pediatric Psychiatry Center of Human Development and Disability University of Washington	1999
University of Washington, School of Medicine Years 3 and 4 Curriculum Review Committee	1999-2000
Residents Selection Committee - Rehabilitation Medicine	1986-87
Course Committee - Human Biology 553, Musculoskeletal	1986-88
University of Washington, School of Medicine Clinical Core Clerkship Subcommittee	1986-
Course Committee HuBio 513/522 Introduction to Clinical Medicine I & II	1991-
University of Washington, School of Medicine Vertical Advisory System	1986-1995
Lead Medical Student Advisor, Department of Rehabilitation Medicine	1987-
Training Director, Research and Training Center Grant for	

Brain Injury, Department of Rehabilitation Medicine	1987-1991
Physician's Search Committee - Department of Rehabilitation Medicine	1987-1988
Ad Hoc Collegial Evaluation Teaching Committee - Department Of Rehabilitation Medicine	1988
Chairman, Clinical Core Curriculum Committee Site Visit Team, Family Medicine Teaching Site	1989
Chairman, Career Advising Committee, Department of Rehabilitation Medicine	1990-
Chairman, Biomedical Ethics Task Force, Department of Rehabilitation Medicine	1990
University of Washington Medical Center Ethics Consultation Committee	1993-1998
University of Washington School of Medicine LCME Accreditation Subcommittee on Resources	1994
Council on Academic Affairs	2007-
Internal Scientific Advisory Committee, Palliative Care Program Project Grant "Facilitating Transitions in Palliative Care for Patients with Advanced Cancer"	2007-
<u>Special Responsibilities Children's Hospital:</u>	
Outpatient Clinic Evaluation Committee	1985-1994
Duncan Award Committee	1986-87
Chronic Care Task Force	1990
Children's Hospital Ethics Committee	1991-
Chairman, Assistive Technology Task Force	1991
Chairman, Duncan Award Committee	1992-94
Quality Improvement Steering Committee	2004-
Search Committee, Director, Pain Service	2007
Search Committee, Director, Rehabilitation Medicine Service	2007
Vice-Chair Ethics Committee	2007
<u>Special Responsibilities National/International:</u>	
The Shriners Hospitals for Children, Medical Research Programs Clinical Outcomes Studies Advisory Board	2001-
U.S. Food and Drug Administration	

Center for Drug Evaluation and Research Advisors and Consultation Staff	2001
Scientific Advisory Panel for the Philadelphia Shriners Hospitals for Children FES Research Department.	2000
National Institutes of Health, BDCN-5 ZRG1 03 S Special Emphasis Review Panel	1999
American Academy of Cerebral Palsy and Developmental Medicine Program Chair	1999
Liaison: American Academy of Physical Medicine and Rehabilitation to the American Academy of Pediatrics Committee on Children with Disabilities	1985-1994
Scientific Program Committee - Pediatric Section, American Academy of Physical Medicine and Rehabilitation	1988
Reviewer: Archives of Physical Medicine and Rehabilitation, Editorial Board	1987-
Course Chairman, AAPM&R Instructional Course: Pediatric Disability Evaluation	1988
Educational Course Committee - Pediatric Special Interest Group AAPM&R Annual Conference, Phoenix	1990
American Academy of Cerebral Palsy and Developmental Medicine Committee on Research and Awards	1992
Rehabilitation Engineering Society of North America (RESNA) Special Interest Groups for Seating and Mobility	1992
American Academy of Cerebral Palsy and Developmental Medicine Scientific Program Committee	1993-
American Academy of Physical Medicine and Rehabilitation Study Guide Committee	1993-
American Academy of Cerebral Palsy and Developmental Medicine Instructional Course Chair	1995
Visiting Professor, Departments of Pediatrics and Rehabilitation Medicine University of California at Davis	1996
Visiting Professor, Department of Pediatrics and Gillette Children's Hospital University of Minnesota	2006
Visiting Professor, Department of Pediatric Advanced Care Team/ Palliative Care Service, Harvard School of Medicine and Boston Children's Hospital Harvard University	2006
Johns Hopkins Berman Institute of Bioethics, International Summit on Palliative Care for Children with Neuromuscular Disease,	

Leeds University, Leeds England	2007-
Faculty, Initiative on Pediatric Palliative Care Training Program Educational Development Center, Harvard University	2007

Special responsibilities local/state:

Crippled Children's Service Multidisciplinary Committee on Early Intervention	1984-85
Muscular Dystrophy Association Telethon	1985-1990
Pacific Northwest Non-vocal Communication Group	1986-87
Birth to Six State Planning Project - Health Care/ Medical Issues Committee	1987
Muscular Dystrophy Association - Western Washington Chapter Meeting, Keynote Speaker	1989
The Ethics of Palliative Care 4 th Annual Redfield Memorial Lecture Series	2001
Moyer Foundation Advisory Council	2006-

Grants Awarded

Principal Investigator
Rural Rehabilitation Field Training Project
Rehabilitation Services Administration, U.S. Dept of Education #H129A90009-90
1989, total award \$233,400 (\$77,800/yr x three years)

Co-investigator
Selective Dorsal Rhizotomy: Effects in Cerebral Palsy
National Institutes of Health #1R01NS27867-01
1991 total award \$1,871,475 (first yr \$414,280)

Principal Investigator
Rural Rehabilitation Field Training Project
Rehabilitation Services Administration, U.S. Dept of Education #H129A41003
1994 total award \$276,723 (\$92,241/yr x three years)

Principal Investigator
Botulinum Toxin for Spasticity in Cerebral Palsy
National Institutes of Health, #1R01HD35750-0
1997 total award \$498,000

Principle Investigator
Supporting Children at the End of Life: Improving Access and Quality of Care.
Robert Wood Johnson Foundation
1998 total award \$493,000

Principal Investigator
Palliative Care Training for Pediatrics Trainees
Nesholm Family Foundation
2003 total award \$100,00

Principal Investigator
Palliative Care Innovations for Trainees
Reed-Mosely Foundation
2004 total award \$60,00

Senior Investigator
Clinical Diagnostic Core
Muscular Dystrophy Research Cooperative Research Center
National Institutes of Health AR-03-001
MDA Supplemental Funding,
2004 Total award \$4,900,000

Principal Investigator
Withdrawal of Life Sustaining Support in the Pediatric Intensive Care Unit
Children's Health Institute
2005 \$7100

Principal Investigator
Prevalence of Cellular and Humoral Immune Responses and
Frequency of Genetic Mutations in Individuals with Muscular Dystrophy
NIH/NIAMSDU54 – AR050
2007 \$265,00

Grants Submitted:

Principal Investigator
Rural Rehabilitation Field Training Project
Rehabilitation Services Administration, U.S. Dept of Education #H129A41003
Total Request: \$457,217 – Submitted September 1997 – Not funded

Principle Investigator
Project on Death in America
Faculty Scholars Program
Open Society Institute
Soros Foundation
Total request: \$178,987 –Submitted December 1999 – Not funded

BIBLIOGRAPHY

Refereed Publications:

Hays RM, Bartoshesky LE, Feingold M: New features on thrombocytopenia and absent radius syndrome. Birth Defects: Original Articles Series, March of Dimes Birth Defects Foundation 18 (No. 3B), 115-121, 1982.

Pueschell S, Hays RM, Mendoza T: Familial x-linked mental retardation syndrome associated with minor congenital anomalies, macroorchidism, and fragile x-chromosome. Am J Mental Deficiency, 87 (4): 372-376, 1983.

Hays RM, Jaffe KM, Ingman E: Accidental death associated with motorized wheelchair use - A case report. Arch Phys Med Rehabil, 66:709-10, 1985.

Jaffe KM, Hays RM: Rehabilitation of disabled children following spinal fusion. Rehab Literature 47 (11-12):286-9, 1986.

Jaffe KM, Butler C, Hays RM: An innovative motorized device for young children. J Assn Children's Prosthetic-Orthotic Clinics, 21 (3-4):46-51, 1986.

Jaffe KM, Hays RM: Pediatric head injury: rehabilitative medical management. J Head Trauma Rehabilitation 1 (4):30-40, 1986.

Hays RM, Jaffe KM: Respiratory-dependent patients with Duchenne muscular dystrophy and amyotrophic lateral sclerosis. West J Med 144 (6): 735, 1986.

Hays RM, Michaud LJ: Neonatal myasthenia gravis: specific advantages of repetitive stimulation over edrophonium testing. Ped Neurol 4 (4):245-247, 1988.

*Hays RM, Jordon RA, McLaughlin JF, Nickel RE, Fisher LD: Central ventilatory dysfunction in myelodysplasia: an independent determinant of survival. Dev Med Child Neurol, 31,366-370, 1989.

Michaud LJ, Hays RM, Dudgeon BJ, Kropp R: Congenital carpal tunnel syndrome: Case report of autosomal dominant inheritance and review of the literature. Archives of PM&R, 7-1, 430-433, 1990.

Bjornson KF, Deitz JC, Blackburn S, Billingsley F, Garcia J, Hays RM: Effect of body position on the oxygen saturation of ventilated preterm infants. Pediatric Therapy, 4:109-115, 1992.

Price R, Bjornson K, Lehmann J, McLaughlin J, Hays R: Quantitative measurement of spasticity in children with cerebral palsy. Dev Med Child Neurol, 33:585-595, 1991.

Hays RM: Health care ethics and pediatric rehabilitation, Physical Medicine and Rehabilitation Clinics of North America, 2:4;1-21, 1991.

Graf W, Hays RM, Astley S, Mendelmann PM,: Electrodiagnosis and culture assay of colonic irrigation fluid in the diagnosis of infant botulism, J. Peds, 120:747-9, 1992.

*Hays RM, Hackworth SR, Speltz ML, Weinstein P: Exploration of variables related to children's distress during electrodiagnosis, Arch. Phys Med & Rehabil., 73:1160-1162, 1992.

*Hays RM, Hackworth SR, Speltz ML, Weinstein P: Physicians' practice patterns in pediatric electrodiagnosis, Arch. Phys Med & Rehabil., 74:494-96, 1993.

Dudgeon BJ, Libby AK, McLaughlin JF, Hays RM, Bjornson KF, Roberts TS: Prospective measurement of functional changes after selective dorsal rhizotomy, Arch. Phys Med & Rehabil., 1994;75(1);46-53.

McDonald CM, Hays RM: Selective Dorsal Rhizotomy: Patient Selection, Intraoperative Electrophysiologic Monitoring, and Clinical Outcome. State of the Art Reviews in Arch. Phys Med & Rehabil., 1994;8:597-604.

Einarsson-Backes L, Deitz J, Price R, Glass R, Hays RM: The Effect of Oral Support on Sucking Efficiency in Preterm Infants, Am J Occ Ther, 48:490-498, 1994.

McLaughlin JF, Bjornson KF, Astley SJ, Hays RM, Hoffinger SA, Armantrout EA, Roberts TS: The Role of Selective Dorsal Rhizotomy in Cerebral Palsy: Critical Evaluation of a Prospective Clinic Series. Developmental Medicine and Child Neurology, 1994;36:755-769.

Shurtleff HA, Massagli TL, Hays RM, Ross B, Sprunk-Greenfield H: Screening children and adolescents with mild or moderate TBI to assist school re-entry. J Head Trauma Rehabil, 1995;10:64-79.

*Hays RM, McLaughlin JF, Geiduschek JM, Bjornson KF, Graubert CS: Evaluation of effects of selective dorsal rhizotomy. Mental Retardation and Developmental Disabilities Research Reviews , 1997;3:168-174.

*Hays RM, McLaughlin JF, Bjornson KB, Stephens K, Roberts R, Price R. Electrophysiological monitoring during selective dorsal rhizotomy, and spasticity and GMFM performance. Developmental Medicine and Child Neurology, 1998;40: 233-38.

McLaughlin JF, Bjornson KF, Astley SJ, Graubert C, Hays RM, Roberts TS, Price R, Tempkin, N: Selective Dorsal Rhizotomy. Efficacy and Safety in a Investigator Masked Randomized Clinical Trial. Developmental Medicine and Child Neurology, 1998, 40:239-249.

Feudtner C, Hays R, Haynes G, Geyer R, Neff J, Koepsell T. Deaths attributed to pediatric complex chronic conditions: national trends and implications for supportive care services. Pediatrics, 2001, 107:111-116.

Boyd R, Hays R. Current evidence for the use of Botulinum toxin A in the management of children with cerebral palsy: a systematic review. European Journal of Neurology 8:1-19, 2001

Hays R, Boyd R: Botulinum toxin the treatment of children with cerebral palsy an ICIDH-2 approach. European Journal of Neurology, 8:167-177,2001.

Hays RM, Boyd R. Outcome Measures in Equinus Gait, Symposium on Equinus Gait Deformity, Special supplement, Developmental Med and Child Neurol 43:1 761-767, 2001.

McLaughlin JF, Felix S. Nowbar S, Ferrel A, Bjornson K, Hays R. Lower extremity sensory function in children with cerebral palsy, Pediatric Rehabilitation 8 (1): 45-52, 2005.

Feudtner C, Villareale N, Morray B, Sharp V, Hays R, Neff J, Technology-dependency among patients discharged from a children's hospital: a retrospective cohort study. BMC Pediatrics 2005, 5:8 (09 May 2005)

Hays, R, Valentine J, et al. The Seattle Pediatric Palliative Care Project: Effects on Family Satisfaction and Health Related Quality of Life. Journal of Palliative Medicine, 9:716-728, 2006.

Bjornson KB, Hays RM, Graubert C Price R, Won F; McLaughlin JF, Cohen M. Botulinum Toxin for Spasticity in Children With Cerebral Palsy: A Comprehensive Evaluation. Pediatrics, 120:49-58, 2007.

Book Chapters, and Proceedings

Hays RM, Wicks K, Jaffe KM: Limb deformities and prosthetics. In: Practice of Pediatrics, Kelley VC (ed) J.B. Lippincott Co. Philadelphia. Chapter 68:1-36, 1986.

Hays RM, Jaffe KM: Myasthenia gravis and pediatric intensive care. In: Morray J (ed), Pediatric Intensive Care, Appleton & Lange, E. Norwalk, CT, 1987, pp 309-315.

Hays RM, Honsinger M: Signs, symptoms and sequelae of head injury. In: Project Lift Family Training Manual, Washington State Head Injury Foundation, 1988.

Jaffe KM, Brink J, Hays RM: Specific problems associated with pediatric brain injury. In: Griffith ER (Ed), Rehabilitation of the Adult & Child with Traumatic Brain Injury. F.A. Davis, 1990.

Hays RM: Childhood motor impairments: Clinical overview and scope of the problem. Proceedings of RESNA Conference, 1987.

Hays RM, Michaud LJ: Principles of Pediatric Rehabilitation. Chronic Disease and Disability: A Contemporary Rehabilitation Approach to Medical Practice, Hays, Kraft, Stolov (eds) Demos, New York, 1994, pp 215-229.

Hays RM, Guthrie MR, Yorkston KM, Dudgeon BJ, Berni R, Kimura K: The Team Approach to Rehabilitation. In: Chronic Disease and Disability: A Contemporary Rehabilitation Approach to Medical Practice, Hays, Kraft, Stolov (eds) Demos, New York, 1994, pp 55-62.

Stolov WC, Hays RM: History and Physical Exam in Chronic Disease and Disability. In: Chronic Disease and Disability: A Contemporary Rehabilitation Approach to Medical Practice, Hays, Kraft, Stolov (eds) Demos, New York, 1994, pp 3-26.

Stolov WC, Hays RM, Kraft GC: Treatment Strategies in Chronic Disease. In: Chronic Disease and Disability: A Contemporary Rehabilitation Approach to Medical Practice, Hays, Kraft, Stolov (eds) Demos, New York, 1994, pp 27-31.

Stolov WC, Hays RM: Mobility. Chronic Disease and Disability: A Contemporary Rehabilitation Approach to Medical Practice, Hays, Kraft, Stolov (eds) Demos, New York, 1994, pp 87-95.

American Academy of Pediatrics, Committee on Children with Disabilities.

The Pediatrician's Role in the Development and Implementation of an Individual Education Plan, Pediatrics 80 (5):750-751, 1987.

Medication for Children with an Attention Deficit Disorder. (Co-authored with the Committee on Drugs) Pediatrics 80 (5):758-760, 1987.

Development of Individual Education and Family Service Plans. Pediatrics 89 (2):340-342, 1992.

Fetal Alcohol Syndrome and Fetal Alcohol Effects (Co-authored with the Committee on Substance Abuse) Pediatrics 91 (5), 1004-1006, 1993.

Pediatric Services for Infants and Children With Special Health Care Needs. (Co-authored with the Committee on Children With Disabilities) Pediatrics 92 (1):163-166, 1993.

Psychosocial Risks of Chronic Health Conditions in Childhood and Adolescence. Pediatrics 92 (8), 876-878, 1993.

Hays RM, Massagli TM: Myelomeningocele and rehabilitation. Textbook of Physical Medicine and Rehabilitation. W.B. Saunders Company, Philadelphia, Braddom (ed). 1133-1148, 1996.

Hays RM, Kowalske KJ: Rehabilitation in diseases of nerve and muscle. Muscle disease. Arch Phys Med Rehabil, 76,5-5, S10-20, 1995.

McDeavitt JM, Graziani VG, Hays RM: Rehabilitation in diseases of nerve and muscles. Nerve disorders. Arch Phys Med Rehabil. 76, 5-5, S21-25, 1995.

Hays RM, Massagli TM: Myelomeningocele and rehabilitation. Textbook of Physical Medicine and Rehabilitation. W.B. Saunders Company, Philadelphia, Braddom (ed). 1213-1230, 2000.

Hays, R, Haynes, G, JR Geyer and Feudtner J. Communication at the end of life, in Carter B, Levetown M, Eds, Palliative Care for Infants, Children and Adolescents: A Practical Handbook, Johns Hopkins University Press. 2004.

Hays RM, Book review, Ethical Issues in Chronic Pain Management. N Engl J Med 356:24, 2551, 2007

Books, videos, software

Hays RM, Kraft G, Stolov WC, eds., Chronic Disease and Disability: A Contemporary Rehabilitation Approach to Medical Practice. Demos, New York, 1994.

Manuscripts in Press

Manuscripts Submitted to Peer Reviewed Journals

Abstracts

Jaffe KM, Hays RM, Lemire C: Rehabilitation of disabled children following spinal fusion. Arch Phys Med Rehabil 65:654, 1984.

Jaffe KM, Everard DH, Hays RM: A new motorized wheelchair for young disabled children. Presented at ACPOC (Assn of Children's Prosthetic-Orthotic Clinics) meeting in Milwaukee on May 8-10, 1986. J Assn Children's Prosthetic-Orthotic Clinic, 21 (2):20, 1986.

Hays RM, Michaud L: Electrodiagnostic evaluation in neonatal myasthenia gravis. Presented at the AAPM&R meeting in Orlando, Florida, October 1987. Arch Phys Med Rehabil 68:588, 1987.

Michaud LJ, Hays RM, Dudgeon, B: Congenital carpal tunnel syndrome: case report of autosomal dominant inheritance in one family. Presented at the AAPM&R meeting in Seattle, Washington, October 1988.

Hays RM, Erickson DK, Astley S: Tethered cord syndrome in meningomyelocele: Analysis of clinical features for early diagnosis. Presented at the 51st meeting American Academy of PM&R, San Antonio, 1989.

Hays RM, Jones JW: Measurement of resting metabolic rate in progressive neuromuscular disease. Presented at 51st meeting American Academy of PM&R, San Antonio, 1989.

McLaughlin JF, Bjornson K, Graubert C, Roberts T, Hays R, and Hoffinger S. Seattle experience with rhizotomy: A pilot study using the Gross Motor Function Measure. Northwest Society for Developmental and Behavioral Pediatrics, Seattle, 27 April 1990.

Hackworth SR, Hays RM, Speltz ML, Weinstein P: Exploration of variables related to children's distress during electrodiagnosis. Second International Symposium on Pediatric Pain, Montreal, April 1991.

McLaughlin JF, Bjornson K, Graubert C, Pong A, Hays RM, Hoffinger S: Ability to detect functional change using the gross motor function measure: A pilot study. Academy of Cerebral Palsy, Dev Medicine, Louisville, KY, 1991.

Hays RM, Hackworth SR, Speltz ML, Weinstein P: Physicians practice patterns in pediatric electrodiagnosis. 53rd Annual Academy of PM&R, Washington D.C., 1991.

Price R, Lehmann JF, Bjornson KF, McLaughlin JF, Hays RM: Evaluation of Spasticity in Children. 53rd Annual Academy of PM&R, Washington D.C., 1991.

Hays RM, Hackworth SR, Carline J, Stolov WC: The Effect of an Undergraduate Medical Experience in Rural Rehabilitation on Physicians' Later Practice Patterns. Arch Phys Med Rehabil, 73:998, 1992.

McLaughlin JF, Bjornson KF, Astley SJ, Hays RM, Hoffinger SA, Roberts TS: Selective Dorsal Rhizotomy in Spastic Cerebral Palsy: Critical Evaluation of a Perspective Series. American Pediatric Society/The Society for Pediatric Research, 1994.

Hackworth SR, McMahon RJ, Hays RM: Children's responses to the Children's Health Care Attitudes Questionnaire (and Pain Scale) and their pain experienced during subsequent medical procedures, Gulfcoast Regional Pediatric Psychology Conference, New Orleans, April, 1994.

Bjornson K, Graubert C, McLaughlin J, Roberts T, Hays R, Hoffinger S: Objective classification of ambulation status using the Gross Motor Function Measure. American Physical Therapy Association/Canadian Physiotherapy Association, Toronto, ONT, June 1994.

Hackworth SR, McMahon RJ, Hays RM, Shema S: Children's behavioral distress during electrodiagnosis: Any evidence of habituation? Annual meeting of the Southern Society for Pediatric Research, New Orleans, February 1995.

Hackworth SR, McMahon RJ, Hays RM: Correlations among children's self-reports of pain during electrodiagnosis and observer's and physicians' pain ratings. Annual meeting of the Southern Society for Pediatric Research, New Orleans, February 1995.

Hackworth SR, McMahon RJ, Hays RM: Health locus of control and children's distress during medical procedures. Annual Meeting of the Southwestern Psychological Association, San Antonio, April 1995.

Hackworth SR, McMahon RJ, Hays RM: Children's behavioral distress and parental anxiety during painful electrodiagnostic procedures. Annual Meeting of the American Psychological Association, New York, August 1995.

Hays RM, Bjornson KB, McLaughlin JM, Astley K: Selective dorsal rhizotomy: relationship of rootlet responses to clinical measures of spasticity and motor function. Dev Med and Child Neurol. 38(8) Supl.730:4, 1995.

McLaughlin JF, Bjornson KF, Price R, Astley S, Hays RM, Roberts TS, Graubert C, Temkin N, Dales M, Hoffinger S: Efficacy of selective dorsal rhizotomy in cerebral palsy: Changes in spasticity and neurologic signs after 12 months. American Academy of Cerebral Palsy and Developmental Medicine, September 1996.

McLaughlin JF, Bjornson KF, Price R, Astley S, Hays RM, Roberts TS, Graubert C, Temkin N, Dales M, Hoffinger S: Efficacy of selective dorsal rhizotomy in cerebral palsy: Changes in mobility after 12 months. American Academy of Cerebral Palsy and Developmental Medicine, September 1996.

Hays RM, McLaughlin JF, Bjornson KF, Price R, Astley SJ: Reduced spasticity in cerebral palsy 12 months after selective dorsal rhizotomy. Arch Phys Med Rehabil. 77:292, 1996

Hays RM, McLaughlin JF, Bjornson KF, Astley SJ, Graubert CS: Changes in functional mobility for children with spastic cerebral palsy 12 months after selective dorsal rhizotomy. Arch Phys Med Rehabil. 77:292, 1996

McLaughlin JF, Bjornson KF, Price R, Astley S, Hays RM, Price R, Roberts TS, Graubert C, Temkin N, Song K, Dales M: Efficacy of selective dorsal rhizotomy (SDR) in spastic diplegia: Changes in spasticity and mobility after 24 months. American Pediatric Society/The Society for Pediatric Research. 1997

McLaughlin JF, Bjornson KF, Price R, Astley S, Hays RM, Price R, Roberts TS, Graubert C, Temkin N, Song K, Dales M: Efficacy of selective dorsal rhizotomy in spastic diplegia: Changes in spasticity and mobility after 24 months. American Academy of Orthopaedic Surgeons. 1998

Bjornson KF, McLaughlin JF, Hays RM, Gaebler-Spira D: Health-Related Quality of Life (HRQL) in Children with Cerebral Palsy. American Physical Therapy Association. 1998

Bjornson KF, McLaughlin J, Hays RM, Gaebler-Spira D. Session D: Selective Dorsal Rhizotomy/Gait. Dev Med and Child Neurol. 40, Supp 78:13, August 1998.

Vogel LF, Hays RM, Dietz J, Guthrie MR, Kartin D. Standardization and Test-Retest Reliability of a Fast Walking Test for Boys with Duchenne Muscular Dystrophy. Arch Phys Med Rehabil, 79:1177, 1998.

Hays RM, Bjornson K, Graubert C, Price R, Won F, McLaughlin J, Pinedo V. Pathophysiologic and impairment outcomes in a randomized controlled trial of BTX-A for children with spastic diplegic cerebral palsy. *Dev Med Child Neurol* 45:3, 2003.

Bjornson K, Hays RM, Graubert C, Price R, Won F, McLaughlin J, Pinedo V. Functional and social limitation outcomes in a randomized controlled trial of BTX-A for children with spastic diplegic cerebral palsy. *Dev Med Child Neurol* 45:3, 2003.

Hays RM, Bjornson K, Graubert C, Price R, Won F, McLaughlin J, Pinedo V. Pathophysiologic and impairment outcomes in a randomized controlled trial of BTX-A for children with spastic diplegic cerebral palsy. *Arch PM &R* 84: A2, 2003

Hays RM, Bjornson K, Graubert C, Price R, Won F, McLaughlin J, Pinedo V. Functional and social limitation outcomes in a randomized controlled trial of BTX-A for children with spastic diplegic cerebral palsy. *Arch PM &R* 84: A28, 2003

Bjornson K, Hays RM, Graubert C, Price R, Won F, McLaughlin J, Pinedo V. A randomized controlled trial of BTX-A for children with spastic diplegic cerebral palsy: Functional and social limitation outcome. European Academy of Child Development, Oslo Norway, *Dev Med Child Neurol* 45:4, 2003.

Bjornson K, Hays RM, Graubert C, Price R, Won F, McLaughlin J, Pinedo V. A randomized controlled trial of BTX-A for children with spastic diplegic cerebral palsy: Pathophysiologic and impairment outcomes European Academy of Child Development, Oslo Norway, *Dev Med Child Neurol* 45:3, 2003.

Farber S, Hays R, et al. Integrating palliative care into the curriculum: a unique fourth year clerkship, Proceedings Annual Meeting Academy of Hospice and Palliative Care, 2006.

Invited National and International Presentations

- 1983 Clinical management of pediatric head injury. Third Annual Course in Pediatric Rehabilitation, Boston, Massachusetts.
- 1985 The role of the therapist in arthrogryposis. Arthrogryposis Instructional Course, American Academy of Cerebral Palsy and Developmental Medicine Annual Meeting, Seattle, Washington.
- 1987 Childhood Motor Impairments: Clinical overview and scope of the problem. Northwest Regional Conference on Powered Mobility, Seattle, Washington.
- 1987 Management of adults with childhood onset disability: Myelomeningocele. Instructional Course Adult with Childhood Onset Disability. 49th Annual Meeting of the American Academy of Physical Medicine and Rehabilitation, Orlando, Florida.
- 1987 Applications of technology for the severely disabled child. Fourteenth Annual Conference on Mobility for the Exceptional Child, Fresno, California.
- 1988 Clinical indications for power mobility, Fourth International Seating Symposium, Vancouver, B.C., Canada
- 1988 Lower Extremity dysfunction and rehabilitation of children with meningomyelocele, sponsored by Office of Surgeon General, Dept. of the Army, March 21, 1988.

- 1988 Pediatric disability, incidence, prevalence and the scope of the problem: Pediatric Disability Evaluation, Instructional Course, 50th Annual Meeting of the Academy of Physical Medicine and Rehabilitation, Seattle, Washington.
- 1988 Pediatric Electromyography, Technical Aspects, Instructional Course, 50th Annual Meeting of the Academy of Physical Medicine and Rehabilitation, Seattle, Washington.
- 1989 Pediatric Seating & Mobility, Northwest Regional Conference, RESNA, Tacoma, Washington.
- 1989 "State of the Art Research in T.B.I." National Head Injury Foundation, Chicago, Illinois.
- 1990 Late neurologic changes in meningomyelocele, 10th Annual Meeting, International Spina Bifida Association, Chicago, Illinois. November 1990.
- 1990 Mobility Considerations in Meningomyelocele, 10th Annual Meeting, International Spina Bifida Association, Chicago, Illinois.
- 1991 Spasticity: Measurement and Management, 1991 Annual Meeting of the AACPDM, Louisville, Kentucky.
- 1991 Selective Posterior Rhizotomy: Controversies and Consensus, 53rd Annual Meeting AAPMR, Washington, D.C.
- 1992 High Technology for Children with Physical Handicaps, Issues in Early Child Development: Contemporary Forum, San Diego, CA, June 1992.
- 1992 Ethical Issues in Caring for Young Children with Disabilities, Issues in Early Child Development: Contemporary Forum, San Diego, CA, June 1992.
- 1992 Current Legislation Affecting Early Intervention and How We Got Here, AAPMR San Francisco, CA, November 1992.
- 1992 From Paternalism to Autonomy Medical Ethics and Pediatric Disability. Invited instructional course, American Academy of Cerebral Palsy and Developmental Medicine, San Diego, CA, June 1992.
- 1993 Ethical Considerations in Delivery of Rehabilitative Care, American Occupational Therapy Association, Trialliance Meeting, Seattle, June 1993.
- 1993 Multidisciplinary View of Ethics in Delivery of Acute Care, N.W. Association of Critical Care Nurses, Seattle, March 1993.
- 1993 Medical Ethics and Moral Ideology, Guest Lecture, Regent College, Vancouver B.C., June 1993.
- 1993 From Paternalism to Autonomy Medical Ethics and Pediatric Disability. Invited instructional course, American Academy of Cerebral Palsy and Developmental Medicine, Nashville, TN, October, 1993
- 1993 Physical Therapy and Early Intervention for Cerebral Palsy: Scientific Efficacy and Public Policy. Current Concepts of Cerebral Palsy Following Premature Birth, St. Louis, Missouri, November 1993.
- 1994 Medical Ethics and Moral Ideology, Guest Lecture, Regent College, Vancouver B.C., February 1994.
- 1994 Medical Ethics in Context, Guest Lecture, Seattle Pacific University, May 1994.
- 1994 Difficult Decisions. Medical Ethics and Pediatric Disability. American Academy of Cerebral Palsy and Developmental Medicine, New Orleans, October 1994.

- 1996 Medical Ethics and Pediatric Disability. Guest Lecture, Pediatric Grand Rounds, University of California at Davis, Sacramento, February 1996.
- 1996 The Ethics of Managed Care. Guest Lecture, Department of Rehabilitation Medicine, University of California at Davis, Sacramento, February 1996.
- 1996 Medical Ethics and Pediatric Disability, Washington State Department of Education E.C.D.A.W., Infant and Early Childhood Conference, May 1996.
- 1997 Medical Ethics and Pediatric Disability, American Nutrition Association of Seattle.
- 1998 Medical and Surgical Interventions for Spasticity: Focus on Outcome, Annual Assembly, American Academy of Physical Medicine and Rehabilitation, November 1998.
- 1999 Outcome Measures for Measurement of Equinus In Cerebral Palsy. AACPD Symposium on Equinus Gait, February 2000, Phoenix, Arizona
- 2000 Measuring Outcomes in Cerebral Palsy: Using an ICDH approach. International Symposium on Botulinum Toxin and Cerebral Palsy, Lago Maggiore, Italy
- 2000 Pediatric Palliative Care Project presentation. January 4, 2000. Children's Hospital & Regional Medical Center.
- 2000 Pediatric Palliative Care Project presentation. February 24, 2000. Pope's Kids' Place, Chehalis, WA.
- 2000 Pediatric Palliative Care Project inservice. March 13, 2000. Visiting Nurse and Hospice of Skagit County, Sedro-Woolley, WA.
- 2000 Pediatric Palliative Care Project Educational Seminar. April 12, 2000. Madrona Medical Group, Bellingham, WA.
- 2000 Pediatric Palliative Care Project Educational Seminar. April 20, 2000. Madigan Army Medical Center, Tacoma, WA.
- 2000 Pediatric Palliative Care Project inservice. June 14, 2000. Hospice of Snohomish County, Everett, WA.
- 2000 Pediatric Palliative Care Project presentation. June 22, 2000. Lewis County Health Partnership, Chehalis, WA.
- 2000 Pediatric Palliative Care Project inservice. July 12, 2000. Evergreen Hospice, Kirkland, WA.
- 2001 Pediatric Palliative Care Project presentation. July 19, 2001. Madigan Army Medical Center, Tacoma, WA.
- 2002 Visiting Professor Dept. of Pediatrics, St. Louis University School of Medicine, St. Louis,; Pediatric Grand Rounds, Nursing Grand Rounds, Resident's Seminar, Palliative Care Program site visit
- 2003 Visiting Professor Dept. Pediatrics, Oregon Health Sciences, Pediatric Grand Rounds, Hematology Oncology Grand Rounds, Neonatal Intensive Care Resident Teaching Conference
- 2003 Consensus Conference, Botulinum Toxin A and Cerebral Palsy, Baylor University School of Medicine
- 2003 Integrating Palliative Care into Practice and Policy, 37th Biennial Convention, Sigma Tau International Toronto, Ontario
- 2004 Initiative on Pediatric Palliative Care Training the Trainers Session sponsored by the Nathan Cummings Foundations and the Educational Development Center at Harvard University in June 2004

- 2005 Alaska Native Health System Program in Palliative Care May 2005
- 2006 Grand Rounds University of Minnesota School of Medicine Dept of Pediatrics January 2006
- 2006 Research Lectureship/ Visiting Professor Gillette Children's Hospital, St. Paul Minnesota January 2006
- 2006 Grand Rounds Harvard School of Medicine, Massachusetts General Hospital Palliative Care Program February 2006
- 2006 Research Lectureship Harvard School of Medicine, Pediatric Advanced Care Team, Boston Children's Hospital February 2006.
- 2006 Alaska Native Health System Program in Palliative Care May 2006
- 2006 Pediatric Grand Rounds, Columbia and Cornell-Weild Schools of medicine, Morgan Stanley Children's Hospital of New York Presbyterian Hospital, New York
- 2007 University of Minnesota National Summit for Pediatric Palliative Care
- 2008 Johns Hopkins Berman Institute of Bioethics, International Summit on Palliative Care for Children with Neuromuscular Disease, Leeds University, Leeds England