

MARVIN McCLATCHEY BROOKE, M.D., M.S.
Curriculum Vitae

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BIRTHDATE: December 11, 1948

BIRTHPLACE: Atlanta, Georgia

EDUCATION:

High School: Westminster, June, 1967 Atlanta, Georgia

B.S. cum laude, Interdepartmental Math and Science, and

B.A. cum laude, English, June 4, 1971, Washington and Lee University, Lexington, Virginia.

Robert E. Lee Research Assistant in Histology Techniques 1969-1970.

Medical School: M.D., June 16, 1975, Emory University School of Medicine, Atlanta, Georgia.

M.S.: Physical Medicine and Rehabilitation, June 10, 1978, University of Washington, Seattle, Washington.

POSTGRADUATE TRAINING:

Internal Medicine Resident: July 1, 1975 - June 10, 1976, College of Medicine, University of Florida, Jacksonville, Florida.

Physical Medicine and Rehabilitation Resident: July 1, 1976 - December 30, 1978, University of Washington, Seattle, Washington.

Chief Resident, Department of Rehabilitation Medicine, University of Washington, 1977.

FACULTY POSITION:

Assistant Professor, Department of Rehabilitation Medicine, Emory University School of Medicine, 1979-1984.

Assistant Professor, Department of Rehabilitation Medicine University of Washington, 1984-1990.

Associate Professor and Chairman, Department of Physical Medicine and Rehabilitation, Tufts University School of Medicine, 1990-1998.

Instructor, Musculoskeletal System, Small Group and Gross Lab Leader, 1986-87.

Residency Program Director, The Tufts Affiliated Physical Medicine & Rehabilitation Residency Program 1990-1995.

Clinical Assistant Professor, Department of Rehabilitation Medicine, University of Washington School of Medicine

Adjunct Associate Professor, Department of Physical Medicine and Rehabilitation, Tufts University School of Medicine

HOSPITAL POSITIONS:

Associate Chief of Service, Rehabilitation Medicine, Emory University Hospital School of Medicine, July 1981 - July 1983.

Director, Muscular Dystrophy Clinic, Emory University School of Medicine, July 1981-June 1984.

Attending Physician, Department of Rehabilitation Medicine, Harborview Medical Center, July 1984-1990.

Director, Outpatient Clinic, Department of Rehabilitation Medicine, University of Washington Harborview Medical Center, June 1984 - January 1988.

Co-Director, Post-Polio Clinic, University of Washington, July 1985 - July 1987. Director, July 1987 - 1990.

Acting Chief of Service, Rehabilitation Medicine, Harborview Medical Center, January 1988 - June 1988.

Attending Physician, Department of Rehabilitation Medicine, University Hospital, July 1984 - 1990.

Consultant Physician, Rehabilitation Medicine Service, Veterans Administration Hospital, Seattle, Washington, July 1984 - 1990.

Courtesy Staff, Children's Orthopedic Hospital, July 1984 - 1990.

Courtesy Staff, Overlake Hospital, July 1984 - 1990.

Physiatrist-in-Chief, New England Medical Center, 1990-1998.

Physiatrist-in-Chief, New England Sinai Hospital and Rehabilitation Center, 1990-1998.

Associated Medical Staff, St. Elizabeth's Hospital of Boston, February 1994-1998.

Associated Medical Staff, Faulkner Hospital, Aug.10, 1994 to 1998

Associated Medical Staff, Newton-Wellesley Hospital, Sept. 28, 1994 to 1998.

Medical Director, Center for Human Performance, 1995-1998.

Rehabilitation Center, Good Samaritan Hospital,
 Medical Director PM&R 1998 - 2004
 Swedish Medical Center, Seattle, Washington

BOARD CERTIFICATION:

American Board of Physical Medicine and Rehabilitation, May 1980.

American Board of Electrodiagnostic Medicine, October 1988.

LICENSURE:

Washington: July 12, 1976, Number 15202

Georgia: April 11, 1979, Number 20411

PROFESSIONAL ORGANIZATIONS:

American Academy of Physical Medicine and Rehabilitation (AAPMR)

Ad hoc Committee on Academic Affairs, AAPMR Chairman, 1985-1986

Association of Academic Physiatrists (AAP)

Ad hoc Committee on Academic Affairs, AAP, 1985-1987

Georgia PM&R Society, Secretary Treasurer, 1981-1984

Commission on Accreditation of Rehabilitation Facilities Reviewer, 1985 - 1990

American Association of Electromyography and Electrodiagnosis

Chair, Research Committee, American Academy of Physical Medicine and Rehabilitation, 1993 to 1997.

President, New England Society of Physical Medicine & Rehabilitation, May 1994 - 1995

BIBLIOGRAPHY:

REFEREED JOURNALS:

1. Brooke MM, Donovan WH, Stolov WC: Paraplegia: Succinylcholine-Induced Hyperkalemia and Cardiac Arrest. Arch Phys Med Rehabil 59:306-309, 1978.
2. Hunter JR, Galloway JR, Brooke MM, Kutner MH, Rudman D, Vogel RL, Wardlaw CF, Geron, CG: The Effects of Allpurinol in Duchenne's Muscular Dystrophy. Arch Neurol 40:294-299, 1983.
3. Jensen LL, Halar E, Little JW, Brooke MM: Neurogenic Heterotopic Ossification. Am J Phys Med Rehabil 66:351-363, 1987.

4. Brooke MM, Stolov WC, Shillam L, Kelly B: The Importance of Symptom Pattern in Evaluating Post-Polio Changes. *Birth Defects: Original Article Series*, 23:49-53, 1987.
5. Brooke MM, Barbour PL, Cording LG, Tolan C, Bhoomkar A, McCall GW, Lyons C, Hudson J, Johnson SJ: Nutritional Status During Rehabilitation After Head Injury. *J Neurol Rehab* 3:27-33, 1989.
6. Brooke MM, Patterson DR, Valois TA, Hinttenberger LA: Traumatic Brain Injury: Who Determines Safe Driving? *Am Occup Ther Assoc*, April 1990
7. Brooke MM, Heard DL, deLateur BJ, Moeller D, Alquist A: Heterotopic Ossification and Peripheral Nerve Entrapment: Computed Tomographic Localization, Excision and Long-Term Follow-Up. *Arch Phys Med Rehabil* 72:425-429, 1991.
8. Brooke MM, Andary MT, Mitsuda PM, Therriault TM: Effects of Telephone Use to Initiate Speech in Brain Injured Subjects. *Arch Phys Med Rehabil* 72:106-108, 1991.
9. Walker GC, Cardenas DD, Guthrie MR, McLean A, Brooke MM: Fatigue and Depression in Brain-Injured Patients Correlated with Quadriceps Strength and Endurance. *Arch Phys Med Rehabil* 72:469-472, 1991.
10. Brooke MM, deLateur BJ, Diana-Rigby GC, Questad KA: Shoulder Subluxation in Hemiplegia: Effects of Three Different Supports. *Arch Phys Med Rehabil* 72:582-586, 1991.
11. Brooke MM, Questad KA, Patterson DR, Bashak KJ: The Incidence and Prevalence of Agitation and Restlessness in Patients Hospitalized After Traumatic Brain Injury. *Arch Phys Med Rehabil* 73:320-323, April 1992.
12. Brooke MM, Questad KA, Patterson DP, Valois TA: Driving Evaluation After Traumatic Brain Injury. *Am J Phys Med Rehabil* 71:177-182, 1992.
13. Brooke MM, Patterson DR, Questad KA, Cardenas DC, Lechner MC: The Course and Treatment of Agitation During Initial Hospitalization After Traumatic Brain Injury. *Arch Phys Med Rehabil* 73:917-921, 1992
14. DiScala C, Grant CC, Brooke MM, Gans, BM: Functional Outcome in Children with Traumatic Brain Injury, *Am J of Phys Med & Rehabil* 71:145-148, 1992.
15. Cardenas DD, McLean A, Farrell-Roberts L, Baker L, Brooke MM, Haselkorn J: Oral physostigmine and Impaired Memory in Adults with Brain Injury. *Brain Injury* 8:579-588, 1994.
16. Osberg JS, Kahn P, Rowe K, Brooke MM: Pediatric trauma: impact on work and family finances. *Pediatrics* 98:890-7, 1996.
17. Osberg JS, Brooke MM, Baryza MJ, Rowe K, Lash M, Kahn P: Impact of childhood brain injury on work and family finances, *Brain Injury* 1997; Vol II; No.1, 11-24.

BOOKS, CHAPTERS, AND SOFTWARE:

1. Brooke MM: Gait Disorders, Chap 2. In Okamoto G (ed): *Physical Medicine and Rehabilitation*. Philadelphia: WB Saunders, 1984, pp 6-11.
2. Brooke MM: Orthoses for the Lower Extremities, Chap 3. In Okamoto G (ed): *Physical Medicine and Rehabilitation*. Philadelphia: WB Saunders, 1984, pp 12-15.

3. Brooke MM: Mobilizing the Nonwalker, Chap 4. In Okamoto G (ed): Physical Medicine and Rehabilitation. Philadelphia: WB Saunders, 1984, pp 16-20.
4. Brooke MM, Stolov WC, Shillam L, Kelly B: The Importance of Symptom Pattern in Evaluating Post-Polio Neuromuscular Changes. Birth Defects: Original Article Series, 23:49-53, 1987.
5. Brooke MM, Duh J: Visuospatial Testing and Retraining System, 1988. Computer software distributed through the Center for Educational Resources, University of Washington School of Medicine.
6. Brooke MM, Uomoto J, McLean A, Fraser RT: Rehabilitation of Persons with Traumatic Brain Injury: A Continuum of Care. In Beukelman DR, Yorkston KM (eds): Management of the Communication and Swallowing Disorders of Persons with Head Injuries. Boston: College Hill, 1990.
7. Brooke MM: Kaitlin's Car Driving Simulation, Visual and Psychomotor Performance Data Collection System, 1989. Computer software distributed through the Center for Educational Resources, University of Washington School of Medicine.
8. Brooke MM: Disability and Rehabilitation Issues of Children with Epilepsy. A report to the National Institute on disability and rehabilitation research, United States Department of Education June 1991, pp 1-60.
9. Brooke MM: Principles of Geriatric Rehabilitation. In: Hays RM, Kraft GH, Stolov WC, (Eds). Chronic Disease and Disability: A Contemporary Rehabilitation Approach to Medical Practice. New York: Demos, 1994.
10. Brooke MM: Psychiatric Assessment. In: Young B, Young M, Steins S(Eds). Physical Medicine and Rehabilitation Secrets. Phil: Hadley Debfus, 1997.
11. Brooke MM: Peripheral Vascular Disease Rehabilitation. In: Young B, Young M, Steins S(Eds). Physical Medicine and Rehabilitation Secrets. Phil: Hadley Debfus, 2001 (in press)

ABSTRACTS:

- Brooke MM, Donovan WH, Stolov WC: Paraplegia: Succinylcholine-Induced Hyperkalemia and Cardiac Arrest. Arch Phys Med Rehabil 58:542, 1977.
- Brooke MM, deKroes L: A Computer Assisted Visuospatial Perception Training System. Arch Phys Med Rehabil 65:626, 1984.
- Brooke MM, deKroes L: Effectiveness of Computer Assisted Cognitive Rehabilitation Perception. Arch Phys Med Rehabil 66:527, 1985.
- Brooke MM, Barbour PC: Assessment of Nutritional Status During Rehabilitation After Brain Injury. Arch Phys Med Rehabil 67:634, 1986.
- Brooke MM, Questad KA, Brooke LD: Complex Reaction Time, Motor Performance, Cognitive Function and New Learning in Brain-Injured and Normal Subjects Performing Different Computer Tasks. Arch Phys Med Rehabil 67:674, 1986.
- Taub SL, Brooke MM, deLateur BJ: Quadriplegia and Lead Intoxication: A Case Report. Arch Phys Med Rehabil 67:885, 1986.

Brooke, MM: The Effect of Selection Criteria and Method on Size and Characteristics of Samples Selected From a Population of Brain Injured Patients. Arch Phys Med Rehabil 68:648, 1987.

Bell KR, Brooke MM: Functional and Movement Assessment of Parkinson's Disease Patients After Autologous Adrenal Cell-Brain Implantation. Arch Phys Med Rehabil 69:746, 1988.

Brooke MM, Questad KA, Patterson DR, Bashak KJ: The Incidence and prevalence of Agitation in Patients Hospitalized After Traumatic Brain Injury. Am Acad Phys Med Rehabil, Nov 1989

Brooke MM, Patterson DR, Questad KA, Cardenas DD, Lechner C: The Course and Treatment of Agitation During Initial Hospitalization After Traumatic Brain Injury. Arch Phys Med Rehabil, 70:22,1989

Little J, Moore E, Brooke MM, Powers R: Electromyographic Evidence for Motor Axon Sprouting in Recovering Upper Extremities of Acute Quadriplegia. Am Paraplegia Soc, Apr 1989

Brooke MM, Questad KA: Visual and Psychomotor Performance Data Collection Using a Simple Microcomputer Driving Simulation. Arch Phys Med Rehabil, 70:34, 1989

Brooke MM, Moeller DA, deLateur BJ, Heard DL, Alquist AD: Heterotopic Ossification and Peripheral Nerve Entrapment: Computed Tomography Localization, Excision and Long-Term Follow-up. Arch Phys Med Rehabil, 70:36, 1989

Cardenas DD, McLean A, Brooke MM, Lechner C: Effects of Physostigmine and Scopolamine on Memory After Traumatic Brain Injury. Arch Phys Med Rehabil, 70:13, 1989

Roberts WS, Brooke MM, Andary MT: Comparison of Sympathetic Skin Response in Incomplete Paraplegia & Normal Subjects. Arch Phys Med Rehabil, 70:25,1989

Brooke MM, Questad KA, Patterson DR, Valois TA: Driving Evaluation After Traumatic Brain Injury. Arch Phys Med Rehabil, 73:177, 1992

Brooke MM, Lash M: A Model for Application of Constituency-Oriented Research and Dissemination to Medical Rehabilitation Research. Arch Phys Med Rehabil, 75:1031, 1994

Brooke MM, Duh J PhC: Quantification of Matching Task Response Times After Traumatic Brain Injury. Arch Phys Med Rehabil, 75:1035, 1994

LECTURES, PRESENTATIONS, COURSES DIRECTED:

September 25, 1979, Mobility Problems of the Aged, Wesley Woods Health Center and Emory Univ., Atlanta, GA

March 13-15, 1980, Course Co-Director, Muscular Dystrophy Association, Region IV, Clinic Staff Conference, Tampa, FL

April 19, 1980, Course Director, Report from the Research Front, Muscular Dystrophy Assoc, Atlanta, GA

June 13, 1980, Lecture: Rehabilitation of the Stroke Patient, Lower Extremity Bracing, Emory University Research and Training Center, Orlando, FL

April 11, 1983, Poster Presentation: Personal Computer Device and Roto-Rest Bed Modification for the Spinal Cord Injured Patient, Am Spinal Inj Assoc, Denver, CO

December 12, 1983, Course Co-Director, Closed Head Injury Assessment and Treatment, Nat Head Inj Found, Emory University, Atlanta, GA

February 24, 1984, Presentation: Neuropathology and Early Rehabilitation of Closed Head Injury, Nat Head Inj Found, Emory University, Atlanta, GA

Annual Polio Conferences, St. Louis, MO

October 22, 1984, Presentation: (Poster) Computer Enhanced Rehabilitation of Neurologically Impaired, AA PM&R, Boston, MA

December 5, 1984, Presentation: Adult Muscular Disease, Vocational Rehabilitation Counselors, Bellevue, WA

June 21, 1985, Presentation: Cognitive Rehabilitation, After Brain Injury, National Head Injury Found, Overlake Hospital, Seattle, WA

June 27, 1985, Presentation: Cognitive Rehabilitation, Nat Head Inj Found, Group Health Cooperative, Seattle, WA

July 31, 1985, Presentation: Cognitive Rehabilitation, Nat Head Inj Found, Olympia, WA

September 19, 1985, Presentation: Late Effects of Poliomyelitis, Stevens Memorial Hospital, Edmonds, WA

November 20, 1985, Decubitus Ulcers: Prevention and Management of Pressure Sores in the Elderly, Aging and the Elderly, University of Washington, Seattle, WA

December 2, 1985, Presentation: Computer Assisted Cognitive Rehabilitation, Olympus Works in Progress, University of Washington, Seattle, WA

December 5, 1985, Decubitus Ulcers: Prevention and Management of Pressure Sores in the Elderly, Aging and the Elderly, University of Washington, Seattle, WA

May 29, 1986, Presentation: "Post-Polio Syndrome", Clinical Neurological Conference, University of Washington, Seattle, WA

September 5, 1986, Presentation and Symposium: The Importance of Symptom Pattern in Evaluating Post-Polio Neuromuscular Changes, Second Research Symposium on the Late Effects of Poliomyelitis, Warm Springs, GA

February 11, 1987, Presentation: Epidemiology and Pathophysiology of Brain Injury, Medical Aspects of Disability, Seattle, WA

February 11, 1987, Presentation: Adult Muscle Disease, Medical Aspects of Disability, Seattle, WA

March 18, 1987, Presentation with Isaman M. McDonald, J. Shillam, Smith K: Purchase of Equipment, Conference on New Opportunities for Persons with Physical Disabilities, Developmental Disabilities Planning Council, Bellevue, WA

March 19, 1987, Presentation: Software Design for Man-Computer Interaction in Brain Damaged Patients, IBM, Olympus Grant Presentation, University of Washington, Seattle, WA

April 4, 1987, Presentation: Rehabilitation of the Burn Patient 10th Annual Review Course in PM&R, University of Washington, Seattle, WA (Also April 25, 1985 and April 14, 1986)

May 1, 1987, Invitational Lecture: Burn Rehabilitation, Emory University, Atlanta, GA

June 17, 1987, Presentation: Medical Head Injury Research at the University of Washington, WAMI Conference, Moscow, ID

October 23, 1987, Presentation: The effect of Selection Criteria and Method on size and characteristics of sample selected from a population of brain injured patients, 49th annual assembly, AAPM&R, Orlando, FL

October 1988, Presentation: Evaluation and Rehabilitation of the Geriatric Patient. Am Acad PM&R, Seattle, WA

November 2, 1988, Presentation: Implications of Cognitive Dysfunction for rehabilitation management of the elderly, AAPM&R, Seattle, WA

March 1990, Presentation: Essentials of burn rehabilitation, 13th Annual Review Course in PM&R, University of WA, Seattle, WA

April 9, 1994 - Presentation: Rehabilitation After Childhood Trauma. Emergency Medical Services for Children, Washington, D.C.

March 4, 1995 - Presentation: Models of Research in Physical Medicine & Rehabilitation. Course Director. Association of Academic Physiatrists.

March 4, 1995 - Presentation: Use of Participatory Action Research in PM&R Research Design. Scottsdale, AZ

GRANTS:

Director of Patient Care Services, Department of Education, NIDRR, Grant #G008300041, Principal Investigator, JR deAandrade, 1983-88

Project Investigator: Rehabilitation of Cognitive deficits with Interactive Computer Assistance, Department of Education, NIDRR, Grant #G008300041, Principal Investigator: JR deAandrade, 1983-88

Project Investigator: Effect of Nutritional Status on Rehabilitation of Traumatic Head Injured Individuals, Department of Education, NIDRR, Grant #G008300041, Principal Investigator: JR deAandrade, 1983-88

Project Investigator: Patterns of Recovery of Function in Traumatic Head Injury and Stroke Patients in Two Different Service Systems, Department of Education, NIDRR, Grant #G008300041 and Grady Memorial Hospital, Principal Investigator: JR deAandrade, 1983-88

Consultant for Project: Predictive Criteria in Rehabilitation of End Stage Renal Disease Patient, Department of Education, NIDRR, Grant #G008006809, 1984

Project Investigator: Effects of Cognitive Rehabilitation After Traumatic Brain Injury, Department of Education, NIDRR, Grant #G008300076, Principal Investigator: JF Lehmann, 1985-86

Project Investigator: Computer Assisted Rehabilitation of Cognitive Deficits in Brain Injured Students, IBM Olympus Grant #WSM079, 1985-86

Principal Investigator: Cognitive Rehabilitation, Dupar Foundation, 1986

Site Investigator: Rehabilitation Software for Head Trauma, Public Health Service, Grant #5-R44 NS 21414-03, 1987

Project Investigator: Driving Examination After Traumatic Brain Injury, Center for Disease Control, Injury Prevention Center, 1988, Principal Investigator: F Rivara

Project Investigator: Propranolol for Agitation After Brain Injury, Center for Disease Control, Injury Prevention Center, 1988, Principal Investigator: F Rivara

Project Co-Investigator: Effects of Physostigmine and Scopolamine on Memory After Traumatic Brain Injury, Department of Education, NIDRR, Principal Investigator: JF Lehmann, 1988-92

Project Investigator: Propranolol for Agitation After Brain Injury: A Controlled Trial, Department of Education NIDRR, Principal Investigator: JF Lehmann, 1988-92

Co-Investigator: Upper Extremity Recovery Following Traumatic Quadriplegia: Effects of Nerve Electrical Stimulation, VA Research Grant, Principal Investigator: J Little, 1988

Principal Investigator: Rehabilitation and Childhood Trauma, Research and Training Center, NIDRR, 1990-1998

Principal Investigator: National Research Service Award, Institutional Research Training Grant, Center for Medical Rehabilitation Research, NIH, 1992-1998.

Digital Equipment Corporation donation to Department of Rehabilitation Medicine, New England Medical Center and greater Boston, Tufts affiliated computer systems

Principal Investigator: RSA Fellowship, Long term training grant in Physical Medicine & Rehabilitation, Rehabilitation Services Administration, U.S. Department of Education 1993-1998.

Principal Investigator: Intensive early rehabilitation. Good Samaritan Ressearch 2000- 2004