

Curriculum Vitae

Nancy Hadley Miller, M.D.

1. BIOGRAPHICAL SKETCH

Professor, University of Colorado at Denver Health Science Center – 10/2006 – Present
Department of Orthopaedic Surgery

Faculty, Human Medical Genetics Program, University of Colorado at Denver health Science Center – 1/2007 - Present

Medical Director, Musculoskeletal Research Center (MRC) – 10/2006- Present
The Children's Hospital
Aurora, Colorado

2. EDUCATION

Harvard College, Cambridge, Massachusetts	1976	B.A.	Biology
Georgetown University, Washington, D.C.	1978	M.S.	Biology
University of Maryland Medical School, Baltimore, Maryland	1982	M.D.	Medical Degree

1982-1983	General Surgery Internship	Union Memorial Hospital, Baltimore, MD
1983-1987	Orthopedic Surgery Residency	Boston University, Boston, MA
1987-1988	Pediatric Orthopedics Fellowship	University of Iowa, Iowa City, IA
1988-1989	Pediatric Orthopedics Research Fellowship	University of Iowa, Iowa City, IA

3. ACADEMIC APPOINTMENTS

1989-1994	Assistant Professor , Baylor College of Medicine, Department of Orthopaedic Surgery, Houston, Texas
1994-2000	Assistant Professor , Johns Hopkins University School of Medicine, Department of Orthopaedic Surgery, Baltimore, Maryland
1997-2006	Lewis Cass Spencer Professor , Johns Hopkins University School of Medicine, Department of Orthopaedic Surgery, Baltimore, Maryland
2000-2006	Associate Professor , Johns Hopkins University School of Medicine, Department of Orthopaedic Surgery, Baltimore, Maryland
2006-present	Professor , University of Colorado, Denver, Colorado
2006-present	Medical Director , Musculoskeletal Research Center, Denver, Colorado

4. OTHER PROFESSIONAL POSITIONS

1976-1978 **Graduate Teaching Assistant**, Georgetown University

Government

1977	Laboratory Research Biologist , NIH, NCI, Immunology Branch
1978-1981	Senior Laboratory Research Biologist , NIH, NCI, Surgery Branch

Hospital Affiliations

- 1989-1994 Methodist Hospital, Houston, Texas
 St. Luke's Hospital, Houston, Texas
 Children's Hospital, Houston, Texas
 Shriners Hospital for Crippled Children, Houston, Texas
 University of Texas Hospital, Houston, Texas
- 1994-2006 Johns Hopkins Hospital and Medical Institution, Baltimore, Maryland
 Kennedy Krieger Hospital, Baltimore, Maryland
 Howard County Hospital, Baltimore, Maryland
- 2006-present The Children's Hospital, Denver, Colorado
 University of Colorado Hospital, Denver, Colorado

5. HONORS, SPECIAL RECOGNITIONS, AND AWARDS

- 1976 Graduated Cum Laude from Harvard College
- 1972-1976 Dean's List, Harvard College
- 1977 Merited distinctions in Master's Comprehensive Examination,
 Georgetown University
- 1978 Merited distinction in Master's Thesis entitled "The Analysis of Antigen Extracts
 Characteristic of SV-40 and Polyoma-Transformed Cells"
 Georgetown University
- 1982 Selected for presentation of research in Student Research Day sponsored by
 University of Maryland Chapter of Alpha Omega Alpha
- 1993 Selected as finalist for New Young Investigator Award,
 Orthopaedic Research Society
- 1995 Selected as finalist for New Young Investigator Award,
 Orthopaedic Research Society
- 2001 Orthopaedic Research and Education Foundation
 Career Development Award
- 2003 Selected as finalist for Hibbs Award, Scoliosis Research Society
- 2004 Selected as finalist for Hibbs Award, Scoliosis Research Society
- 2006 Selected as finalist for Hibbs Award (presentation), Scoliosis Research Society
- 2006 Hibbs Award for best scientific poster, Scoliosis Research Society

6. MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- 1987-present American Academy of Orthopaedic Surgeons
- 1989-2002 American Academy of Cerebral palsy
- 1996-present Interurban Orthopaedic Society
- 1994-present Orthopaedic Research Society
- 1994-present Pediatric Orthopaedic Society of North America
- 2002-present Scoliosis Research Society Active Fellow (March 2002)
- 2002-present Scoliosis Association, Inc.
- 2007- present Western Orthopaedic Association

7. COMMITTEE AND SERVICE RESPONSIBILITIES

Departmental

- 1989-1994 **Residency Education Committee**, Baylor Department of Orthopaedics
1995- 2006 **Resident Research Committee**, Johns Hopkins University
2000-2006 **Resident Research Committee**, Johns Hopkins University
2006 – Present **Chair, Promotions Committee**, Department of Orthopaedic Surgery,
University of Colorado
2008 **Planning Committee**, Annual Children’s Orthopaedic Day,
2008 **Planning Committee**, Pediatrics Orthopaedics for the Primary Care Provider

University/School of Medicine

- 1996-1998 Joint Committee on Clinical Investigation (IRB), Johns Hopkins University

Hospital

- 2006-present Pharmaceutical Committee, The Children’s Hospital, Denver
2008 Child and Maternal health Steering Committee, The Children’s Hospital, Denver
2009 Clinical Translational Research Strategic Planning Committee, TCH, Denver

National/International Organizations

- 1998- 2002 Etiology Committee, Scoliosis Research Society
2000- 2007 Research Committee, Pediatric Orthopaedic Society of North America
2003-2005 Chairman, Research and Grants Awards Committee, Pediatric Orthopaedic
Society of North America
2003-2005 Research Coordinating Committee, Scoliosis Research Society
2004-2008 Etiology Committee, Scoliosis Research Society
2006-present Professional Advisory Board, Scoliosis Association, Inc.
2006-present Grant Committee, Scoliosis Research Society
2006-present Research Committee, Scoliosis Research Society

Community Service

- 2002 Christmas Shop/Bizarre Committee, Grace and St. Peters School, Baltimore, MD
2003 – 2005 School Lunch Mom, St. Pius School, Baltimore, Maryland
2003 – present Guest lecturer for Teacher education, Elementary Science Education
2006 Gala Organization Committee, St. James School, Denver, Colorado
2006-present School Lunch Mom, St. James School, Denver, Colorado
2008-2009 School class parent 4th Grade, St. James School

8. LICENSURE AND BOARD CERTIFICATION

- 1992 American Board of Orthopaedic Surgeons
2003 Recertified

9. REVIEW AND REFEREE WORK

Journals

2002- present	Spine, Advisory Board
2004-present	Journal of Orthopaedic Research, Reviewer
2005-present	Lance, Reviewer
2003-present	Clinical Orthopaedics and Related Research, Reviewer
2006-present	JAMA (Journal of the American Medical Association), Reviewer
2004-present	Journal of Pediatric Orthopaedics, Reviewer
2007-present	The Knee, Reviewer
2010	GCMA (Gait and Clinical Movement and Analysis), Reviewer

National Public Health Service

2004-present	National Institutes of Health, NIAMS Extramural Grant Proposals, Study Section
2003-present	National Institutes of Health, ZRG1 Small Business Medical Imaging (SBMI), Study Section

International

2007	Research Committee, The Chinese University of Hong Kong
2008	British Medical Council, Reviewer
2009	British Medical Council, Reviewer

10. VISITING PROFESSORSHIPS:

International

2006	Genetics of Idiopathic Scoliosis, University of Hong Kong, Hong Kong
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National

2000	Genetics of Idiopathic Scoliosis, University of Kentucky, Louisville Kentucky
2000	Genetics of Idiopathic Scoliosis, University of Alberta, Edmonton, Canada
2001	Genetics of Idiopathic Scoliosis, University of Kansas Medical Center, Kansas City, KC.
2003	Genetics of Scoliosis Genetics of Idiopathic Scoliosis, Children's Hospital of Pediatrics, Philadelphia, PA.
2003	Genetics of Idiopathic Scoliosis, Invited Alumni Lectureship, Boston University, Boston, MA
2006	Genetic Research and Clinical Genetic Testing: Clinical Usefulness And the Implications of the Results for the Tested and Others Pediatric Specialty Day, American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL.
2007	Genetic Testing: Where are we now? Symposium, Pediatric Orthopaedic Society, Hollywood, FL.

11. Invited Educational Teaching Records

- 1989 Pediatric Hip Symposium: Invited participant, University of Texas Health Science Center Continuing Education
- 1989-2004 Continuing Education in Pediatric Orthopaedics, Lecturer, Shriners Hospital for Crippled Children, Houston (average of 10 lectures a year)
- 1990 Etiology of Idiopathic Scoliosis: Lecturer, Grand Rounds, Baylor Dept of Orthopaedic Surgery, Houston
- 1991 Pediatric Fractures: Instructor, Baylor College of Medicine Pediatric Emergency Instructional Lectures. Spine, Upper Extremity, Hip, Lower Extremity
- 1991 Interpretation of Gait Analysis: Instructor, Methodist Hospital Gait Analysis Instructional Course
- 1992 Septic Arthritis in Children, Lecturer, Grand Rounds, Baylor Dept of Orthopaedic Surgery
- 1994-2006 Continuing Education in Pediatric Orthopaedics, Lecturer, Johns Hopkins School of Medicine, Dept. of Orthopaedic surgery, Baltimore (Average 4 lectures a year)
- 1995 Pediatric Orthopaedics: Lecturer, Current Concepts in Diagnosis and Treatment Foot Deformities in Children, INOVA Fairfax Hospitals Continuing Education
- 1995 Hip Septic Arthritis: Lecturer, Johns Hopkins 'On the Road' Continuing Education Towson, Maryland
- 1996 Case Management – Its Application to Pediatric Orthopaedic Surgery: Lecturer, Johns Hopkins University School of Nursing
- 1996 Genetic Aspects of Pediatric Orthopaedics: Lecturer, Southern Medical Association
- 1996 Pediatric Foot Problems: Instructor/Lecturer, American Orthopaedic Foot and Ankle Society. Regional Review Course
- 1996 Gait Analysis: Instructor/Lecturer, Johns Hopkins Orthopaedic Review Course, Baltimore, Maryland
- 1997 Rotational Profiles in Children, Lecturer, Pediatric Grand Rounds, St. Agnes Hospital, Baltimore, Maryland
- 1997 Primary Pediatric Orthopaedic Problems: Instructor/Lecturer, Johns Hopkins University Pediatric Nurse Practitioner Program
- 1997 Pediatric Rotational Profile: Instructor/Lecturer, Johns Hopkins 'On the Road' Continuing Education, Delaware
- 1997 Pediatric Hip Problems Hematogenous Osteomyelitis and Septic Arthritis. Instructor/Lecturer. National Center for Advanced Medical Education Specialty Review Course, Baltimore, MD

- 1998 Pediatric Fractures:, Instructor/Lecturer, University of Iowa Physician Assistants Society
- 1998 Pediatric Femur Fractures, Pediatric Hip Problems, and Spine Abnormalities in the Pediatric Patient: Instructor/Lecturer. Southern Medical Association
- 1998 Pediatric Forearm and Problem Physeal Fractures: Instructor/Lecturer, Southern Medical Association
- 1999 Genetics of Idiopathic Scoliosis: Instructor/Lecturer, INOVA Fairfax Hospitals Continuing Education
- 1999 Puncture Wounds to the Foot, Lecturer, General Surgery Grand Rounds, Johns Hopkins University
- 1998 Developmental Dysplasia of the Hip, Toeing-in and Toeing-Out, Bowlegs and Knocked, Knees Pediatric Foot Problems: Instructor/Lecturer. Pediatrics for the Practitioner, Johns Hopkins University Continuing Education
- 1999 Pediatric Screening Examinations: Instructor/Lecturer, Johns Hopkins University Continuing Education
- 1999 Scoliosis, Kyphosis, and Spinal Deformity in Children: Lecturer, Cumberland, Maryland Clubfeet and Foot Problems in Children: Lecturer, Lancaster, Pennsylvania, Slipped Capital Femoral Epiphysis: Lecturer Anne Arundel, Maryland, Johns Hopkins 'On the Road' Continuing Education
- 2000 Genetics of Familial Idiopathic Scoliosis: Instructor/Lecturer, INOVA Fairfax Hospitals Continuing Education
- 2001 Genetic of Scoliosis and the Zebrafish: what is there in common? Lecturer, Johns Hopkins Dept of Orthopaedic Surgery Grand Rounds, Baltimore
- 2001- Juvenile Rheumatoid Arthritis, Leg Length Discrepancy, Patella Femoral Focal Deficiency Tibia/Fibula Hemimelia, Instructor/Lecturer, Johns Hopkins Orthopaedic Review Course, Baltimore, Maryland
- 2002 Application of the Genetics to Orthopaedic Surgery, Lecturer, Johns Hopkins Dept of Orthopaedic Surgery Grand Rounds, Baltimore
- 2002 Genetics of Familial Idiopathic Scoliosis: Instructor/Lecturer, INOVA Fairfax Hospitals Continuing Education
- 2003 Bones for Kids – lecturer/instructor, St David’s School, Baltimore, Md
- 2003 Genetics of Familial Idiopathic Scoliosis Lecturer, Johns Hopkins Dept of Orthopaedic Surgery Grand Rounds, Baltimore, Maryland
- 2004/2005 Bones for Kids – lecturer, instructor, St. Pius School, Baltimore, MD
- 2004 Scoliosis: Instructor/Lecturer, University of Maryland Graduate Program in Physical

Therapy

- 2005 Treatment of Femoral Fractures, Conservative Treatment of Talipes Equinovarus – Lecturer, Instructor, American Osteopathic Academy of Orthopedics
- 2005 The Heart for Valentines Day, Instructor – St Pius School, Baltimore, MD
- 2005 Genetics of Familial Idiopathic Scoliosis – Lecturer, Human Medical Genetics Program, University of Colorado, Denver
- 2006 Scoliosis: Instructor/Lecturer, University of Maryland Graduate Program in Physical Therapy
- 2006 Hepatitis – what this means for the primary school teacher. Instructor, St James School, Denver, Colorado
- 2006 Genetic Factors of FIS – Poster Exhibit, The Children’s Hospital, Denver, Colorado
- 2007 Genetics of Familial Idiopathic Scoliosis – Lecturer, Grand Rounds University of Colorado, Denver
- 2007 Genetic Analysis of Factors in Adolescent Idiopathic Scoliosis – Lecturer, Alumni Research Day, University of Colorado, Denver
- 2007 Genetics of Familial Idiopathic Scoliosis – Lecturer, The Children’s Hospital Orthopaedic Day, Denver, Colorado
- 2007 Update in Research in Pediatric Orthopaedics – Lecturer, The Children’s Hospital, Aurora, Colorado
- 2007 Genetics in FIS – Human Medical Genetics Program Retreat – Wellshire Inn, Denver, Colorado
- 2008 Infections – Lecturer, Pediatric Orthopaedics for the Primary Care Provider
- 2009 Grand Rounds – Vertebral Anomalies and Scoliosis, University of Colorado
- 2009 Ligament and tendon Reconstruction and Healing – Moderator, Orthopedic Research Society
- 2009 Children’s Tumor Foundation, American Academy of Orthopedic Surgery
- 2009 Idiopathic Scoliosis: Where are the Genes?- Lecturer, Annual Children’s Orthopaedic Day
- 2009 Familial Idiopathic Scoliosis in Males: localization to Chromosome 22q, Western Student medical Research Forum, Carmel, CA.

Post Graduate Educational Courses

- 1990 Instructional Training for Ilizarov Use and Application Instructors: R. Cattaneo, M.D.; M.A. Catagni, M.D. Lecco, Italy

- 1992 Advanced Ilizarov Deformity Course: New Orleans, La.
- 1992 Advanced Molecular Genetic Techniques: Washington, D.C.
- 1994 Tutorial for Ilizarov Application in Complex Deformities: Houston, Texas
- 1991 Gait Lab Analysis and Clinical Applications: Rancho, California
- 1995 Hip Deformity and Surgical Interventions: Boston, MA
- 1995 Advanced Deformity and Ilizarov Application: Houston, Texas
- 1995 Gordon Conference on Advancement in Mammalian Genetics, Keystone, Colorado
- 1998 Advanced Spinal Techniques for PSIF: Beaver Creek, Colorado.
- 1999 Gordon Conference on Extracellular Matrix: New Hampshire
- 1998 Clinical and Laboratory Genetics within the Mammalian System: Bar Harbour, Maine
- 2000 Zorab International Conference on Scoliosis, Oxford, England
- 2002 Tutorial for Pedicle Screw Fixation: Baltimore, Maryland
- 2003 Cotrel Fondation Scientific Consortium, Paris, France
- 2004 Cotrel Fondation Scientific Consortium, Paris, France
- 2005 Cotrel Fondation Scientific Consortium, Paris, France
- 2006 Neurofibromatosis International Conference, Vail, Colorado
- 2006 Cotrel Fondation Scientific Consortium, Paris, France
- 2006 Zorab International Conference on Scoliosis, Oxford, England
- 2007 Cotrel Fondation Scientific Consortium, Paris, France

Student Mentorship and Supervision

Undergraduate Students:

- 2005-2006: Shantha Parameswaran JHU undergraduate – Lab research
- 2005-2006: Zemen Retta, High School student observed in laboratory
- 2003-2005: Gunjan Kumar BS worked Research accepted for presentation at ORS, SRS
Research accepted for publication *Spine*

Medical Students:

2009	Alok Patel	Summer
2008	Jacqui Jakes	Summer
2007-2009:	Shane Cook	Winners of JRK Partners Outstanding Research Award for medical students, University of Colorado
2007-2009:	Jeff Dunn	Winners of JRK Partners Outstanding Research Award for medical students, University of Colorado
2007	Carol Carillo	Summer
2003 - 2006	Rishi Bhatgnar,	BS Medical student worked in lab. Research accepted for publication <i>Journal of Surgical Orthopaedic Advances</i> Research accepted for presentation American Academy of Pediatrics
2005	Kasey Gildersleeve, BA	Medical student. Mentored in clinical environment
2005:	Cuong Vu, BS	Medical student Research accepted for presentation at ORS and SRS
2005:	Tai Li, BS	Medical student worked in laboratory
2003 –2005:	Nneka Nzegwu	BS Accepted into DO school Research accepted for publication, <i>Journal of Surgical Orthopaedic Advances</i> and <i>Spine</i> Research accepted for presentation at the ORS, AAOS, Harrington symposium Received internship for summer research from the Society for Pediatric Research Research accepted for presentation at the annual meeting of the Society for Pediatric Research
2004:	John Brodnax, BA	Medical student. Mentored in clinical environment. Accepted into anesthesia residency
2003- 2005:	Purvi Shah, BS	Medical School Received internship from the Society for Pediatric Research. Research accepted for presentation at the ORS and Society for Pediatric Research
2002:	Ed Tang, BS	Medical student worked summer in laboratory. Research accepted for presentation ORS, SRS
2001:	Steve Novak, BS	Medical student Worked summer in laboratory. Research accepted for presentation ORS and SRS Received internship for summer research from the Society for Pediatric Research

1997: John Bell, BS Medical student Worked year in laboratory. Graduated from JH medical school. Accepted into orthopaedic surgical residency at the University of Iowa

Residents:

2003-2005: Kris Alden, MD Orthopaedic resident, Worked in laboratory Research accepted for presentation in ORS, SRS and Harrington Symposium, Publication in *Spine*, 2006 Maryland Orthopedic Association Resident Award for best Basic Science paper

2004-2006: Mark Clough, MD Orthopaedic resident, Worked in laboratory. Research accepted into ORS

1999-2004: Andrea Herzka, MD Orthopaedic resident; acted as mentor. Accepted into a fellowship in sports medicine

1998- 2003: Kyle Lowe, MD Orthopaedic resident, acted as mentor. Accepted into a fellowship in sports medicine

1996-2001: Michele Cameron, MD Orthopaedic resident, acted as mentor. Accepted into a fellowship in sports medicine

1995-2000: Jennifer Tareco, MD Orthopaedic resident, acted as mentor. Accepted into a fellowship in pediatric orthopaedic surgery

Graduate Students:

2009: Dana Behneman, Expected graduation, Doctor of Philosophy, Johns Hopkins University Bloomberg School of Public Health Human Genetics/Genetic Epidemiology Dissertation Committee and reader

2006: Dana Behneman, Masters of Science, Johns Hopkins University Bloomberg School of Public Health Human Genetics/Genetic Epidemiology Thesis Committee: Replication of critical regions for Familial Idiopathic Scoliosis

2004: Marie-Helene Roy-Gagnon, Doctor of Philosophy, Johns Hopkins University Bloomberg School of Public Health Human Genetics/Genetic Epidemiology Dissertation Committee and reader Dissertation: Theoretical and Applied Investigations of a Regression of Offspring on Mid-Parent Approach: Familial Idiopathic Scoliosis

2004-2006: Andrew Zorn Masters of Biomedical Engineering Johns Hopkins School of Biomedical Engineering Worked in laboratory

Research accepted for presentation at ORS, SRS
 Accepted into MD/PhD program at Case Western University
 (2006)

12. GRANT SUPPORT

1/07 – 12/10	\$173,773	Co-principal Investigator, <i>An International Effort to fine map the IS gene in a critical region on chromosome 9q31-q34</i> Institute De France Foundation Yves Cotrel
7/04-6/07	\$818,255	Principal Investigator, <i>Genetic Analysis of Familial Idiopathic Scoliosis</i> Identification number 1R01AR48862-01A2 National Institutes of Health – R01, Percent effort 50%
1/04-12/06	\$124,889	Principal Investigator, Genetic Linkage Analysis and Fine Mapping of Familial Idiopathic Scoliosis Institute De France Foundation Yves Cotrel
10/04-6/05	\$321,000	Principal Investigator, <i>Genetic Analysis of Familial Idiopathic Scoliosis</i> CIDR/Genometrics Branch of NIH Technical Service Grant. Grant covers at a reduced rate the expense of genotyping and initial analysis of an additional population of families affected with idiopathic scoliosis
4/01-9/04	\$225,000	Principal Investigator, <i>Genetic Linkage Analysis of Familial Idiopathic Scoliosis: A Complex Orthopaedic Disorder</i> Orthopaedic Research and Education Foundation Career Development Award
9/00-8/03	\$113,542	Principal Investigator, Genetic Linkage Analysis and Fine Mapping of Familial Idiopathic Scoliosis Institute De France Foundation Yves Cotrel
10/00- 9/02	\$50,000	Principal Investigator, Genetic Linkage of Familial Idiopathic Scoliosis-A Complex Orthopaedic Disorder Scoliosis Research Society
6/00 – 5/01	\$30,002	Principal Investigator, <i>Genetic Linkage Analysis and Fine Mapping of Familial Idiopathic Scoliosis</i> Pediatric Orthopaedic Society of North America
9/99 – 6/00	\$1.7 million	Principal Investigator, <i>Genetic Analysis of Familial Idiopathic Scoliosis: CIDR/Genometrics Branch of NIH</i> Technical Service Grant Grant covers the expense of genotyping and initial analysis of a large population of families (1200 individuals) affected with idiopathic scoliosis.
10/98-9/00	\$50,000	Principal Investigator, <i>Genetic Linkage Analysis of Familial Idiopathic Scoliosis</i> Scoliosis Research Society

1/98-12/99	\$100,000	Collaborative Investigator, <i>The Function and Well-being of Children with Cerebral Palsy: Evaluation of Health Status Instruments</i> United Cerebral Palsy Research and Educational Foundation
8/97 -7/98	\$30,000	Principal Investigator, <i>Genetic Analysis of Familial Adolescent Idiopathic Scoliosis</i> National Scoliosis Foundation
10/96-10/98	\$10,000	Principal Investigator, <i>Comparison of External Fixation Devices in Pediatric Femoral Fractures</i> EBI Company
9/95-9/97	\$48,175	Principal Investigator, <i>Genetic Analysis of Etiologic Factors of Adolescent Idiopathic Scoliosis</i> Scoliosis Research Society
7/95 - 7/97	\$115,000	Principal Investigator, <i>Genetic Analysis of Potential Etiologic Factors of Adolescent Idiopathic Scoliosis</i> Clinician Scientist Career Development Award Johns Hopkins University
1/94 -12/95	\$138,000	Principal Investigator, <i>Ligamentous Elastic Fiber Structure in Idiopathic Scoliosis</i> Shriner's Hospitals for Crippled Children
1/92 -12/93	\$116,167	Principal Investigator, <i>Ligamentous Elastic Fiber Structure in Idiopathic Scoliosis</i> Shriner's Hospitals for Crippled Children
8/91-1/92	\$38,979.00	Principal Investigator, <i>Elastic Fiber Ligament Structure in Scoliosis</i> Orthopaedic Research and Education Foundation

14. BIBLIOGRAPHY

1. Antifetal and Tumor-Specified Reactivity in Human Osteosarcoma. **Hadley, N.A.** and Sindelar, W.F. *Surgical Forum*, 65th Clinical Congress of the American College of Surgeons, Chicago, IL, pp. 122-124, 1979.
2. Demonstration of Tissue Specific Antigens Shared by Normal Pancreas and Pancreatic Neoplasm. Sindelar, W.F.; Dresdale, A.R.; and **Hadley, N.A.**; *Experientia*, 39:87-89, 1983.
3. Flexible Intramedullary Nailing of Subtrochanteric Fractures of the Femur. Dobozi, W.F.; Larson, B.J.; Zindrick, M.; Hall, R.F.; Whitelaw, G.; **Hadley, N.A.**; Segal, D.; Ober, N.S.; and Whittle, A.P., *Clin. Orthop.*, 212:68-78, 1986.
4. The Orthopaedic Management of Localized Gigantism in the Klippel-Trenaunay Syndrome. Kruger, L.M. and **Hadley, N.A.**, *Surgical Rounds for Orthopaedics*, 1(6):32-44, 1987.
5. Unstable Intertrochanteric/Subtrochanteric Fracture of the Femur. Whitelaw, G.P.; Segal, D.; Sanzone, C. F.; Ober, N.S.; and **Hadley, N.A.**, *Clin. Orthop.*, 252: 238-245, 1990.

6. Ender Rods Versus External Fixation in the Treatment of Open Tibial Fractures. Whitelaw, G. P.; Wetzler, M.; Nelson, A.; Segal, D.; Fletcher, J.; **Hadley, N. A.**; and Sawka, M., *Clin. Orthop.*, 253: 258-269, 1990.
7. The Effects of Contact Pressure Elevation and Aseptic Necrosis on the Long-Term Outcome of Congenital Hip Dislocation. **Hadley, N.A.**; Brown, T.D.; and Weinstein, S.L. *J. Orthop. Res.*, 8: 504-513, 1990.
8. Knee Motion Following Multiple Soft Tissue Releases in Ambulatory Patients with Cerebral Palsy. **Hadley, N. A.**; Chambers, C.; Scarborough, N.; Cain, T. E.; and Rossi, D. *J. Pediat.Orthop.*, 12(3): 324 -328, 1992.
9. Refracture of Adolescent Femoral Shaft Fractures: A Complication of External Fixation. Probe, R.; Lindsey, R. W.; **Hadley, N. A.**; and Barnes, D. A. *J. Pediat. Orthop.* 13(1): 102-105, 1993.
10. Metastatic Retinoblastoma, A Case Report. **Hadley, N. A.**; Kearns, R.; and Kapp, W. *University of Iowa Orthopaedic Journal*, 13:214-217, 1993.
11. Dennyson-Fulford Extraarticular Subtalar Arthrodesis for Planovalgus Foot Deformities. **Hadley, N. A.**; Rahm, M.; and Cain, T. E. *J. Pediat. Orthop.*, 14(3):363-368. 1994.
12. The Potential Role of the Elastic Fiber System in Adolescent Idiopathic Scoliosis. **Hadley, N.A.**; Mims, B.; and Milewicz, D. *J. Bone and Joint Surg*, 76-A:1193-1206, 1994.
13. A Worldwide Study on the Seasonal Variation of Slipped Capital Femoral Epiphysis. Loder, R.L.; **Hadley, N.A.**; and multiple co-authors, *Clin. Orthop.*, 322:28-36, 1996.
14. Genetic Analysis of Structural Elastic Fiber and Collagen Genes in Familial Adolescent Idiopathic Scoliosis. **Miller, N.H.**; Mims, B.; Child, A.; Milewicz, D.M.; Sponseller, P.; Blanton, SH. *J. Orthop Res.*, (6): 994-9. 1996
15. Bilateral Osteofibrous Dysplasia: A Report of Two Cases and Review of the Literature. Sunkara,U.K.; Sponseller, P.D.; **Miller, N.H.**; McCarthy, E.F. *The Iowa Orthopaedic Journal*, 17:47-52, 1997.
16. The Foot in Marfan Syndrome: Clinical Findings and Weight Distribution Patterns. Lindsey, J.; Michelson, J.; MacWilliams, B.; Sponseller, P.; **Miller, N.H.** *J. Pediat.Orthop.* 18: 755-759, 1998.
17. Genomic Search for X-Linkage in Familial Adolescent Idiopathic Scoliosis. **Miller, N.H.**; Schwab, D.; Sponseller, P.; Shugert, E.; Bell, J.; Maestri, N., *Stokes I.A.F., editor: Research into Spinal Deformities 2; IOS Press*, Amsterdam; 209-213; November, 1998.
18. Defining the Flatfoot. Lindsey, J.M., **Miller, N.H.**, MacWilliams, B.A., Michelson, J.D. *Foot & Ankle International*, 20: 456-460, 1999.
19. Etiology of Idiopathic Scoliosis. Edgar, M., Lowe, T.G., Murgulies, J.Y., **Miller, N.H.**, Raso, J., Reinker, K.A., Drummond, D.S., editor: *SPINE: State of the Art Reviews; Hanley & Belfus, Inc.*, Philadelphia, PA; 14(1): 1-10, 2000.
20. The Role of Genetic Factors in the Etiology of Idiopathic Scoliosis. **Miller, N.H.**, Burwell,G.R., Dangerfield, P.H., Lowe, T.G.,Margulies, J.Y., editors, *Spine: State of the Art Reviews; Hanley & Belfus, Inc.*, Philadephia, PA :14 (2): 313-318, 2000
21. Current Concepts Review: Etiology of Idiopathic Scoliosis: Current Trends in Research. Edgar,M., Lowe, T.G., Murgulies, J.Y., **Miller, N.H.**, Raso, J., Renker, K.A. *J. Bone and Joint Surgery*, 2000.
22. Stratification for Complex Disorders with Genetic Heterogeneity Comprising both X-linked and Autosomal Dominant Forms of Inheritance: Families with Familial Idiopathic Scoliosis. Justice, C. M., **Miller, N. H.**, Marosy, B., Pugh, E. W., Wilson, A.F., *The American Journal of Human Genetics*, Vol. 67 sup. 2,No. 4, 2000
23. Genetics of Familial Idiopathic Scoliosis. **Miller, N.H.**, *Spine* Vol. 25, (18): 2416-2418, 2000
24. Vitamin-D Deficient Rickets in the Pediatric Population. Biser-Rohrbough, A.,**Miller, N.H.** *J. Pediat.Orthop.*, Vol. 21 (4) :508-511, 2001
25. Tibial nails for femoral shaft fractures in adolescents: “off –label” usage. Tortolani, P. J., Ain,

- M.C., **Miller, N.H.**, Brumback, R.J., Sponseller, P.D. *Orthopedics*. Vol. 24(6) :553-7 2001
26. Characterization of Idiopathic Scoliosis in a Clinically Well-defined Population. **Miller, N.H.**, Schwab, D., Sponseller, P.D., Manolio, T., Pugh, E., Wilson, A. *Clin. Orthop.* :392; 349-357, 2001
 27. Genetic heterogeneity comprising both X-linked and autosomal dominant forms of inheritance in families with familial idiopathic scoliosis. Justice, C.M., **Miller, N.H.**, Marosy, B., Zhang, J., Pugh, E.W., Wilson, A.F. *Am Journal of Human Gen.* Vol. 69 Sup.2, (4) 384, 2001
 28. Comparison of Dynamic versus Static External Fixation for Pediatric Femur Fractures. Domb, B.G., Sponseller, P.D., Ain, M.C., **Miller, N.H.** *J. Pediatr. Orthop.* 22,4: 428-30, 2002
 29. FLAIR magnetic resonance image of a pediatric spinal epidermoid cyst. Avellino, A.M., Wang, P.P., **Miller, N.H.**, Herkovitz, E. *Pediatric Neurosurgery*, 36:220-222, 2002
 30. Identification of loci in familial idiopathic scoliosis. Justice, C.M., **Miller, N.H.**, Marosy, B., Zhang, J., Wilson, A.F. *Am Journal of Human Gen.* Vol. 71(4):A1577, 2002
 31. Comparing the reliability and validity of different pediatric instruments for measuring the health and well-being of children with spastic CP. McCarthy, M., Sponseller, P., Silberstein, C., **Miller, N.H.** *Dev Med Child Neuro.* 44,7: 468-76, 2002
 32. The etiology of adolescent idiopathic scoliosis. Ahn, U. M., Ahn, N. U., Nallamshetty L., Buchowski J. M., Rose, P.S., **Miller, N.H.**, Kostuik, J. P., Sponseller, P.D. *Am J Orthop.* 31(7): 387-395, July 2002
 33. Genetics of familial idiopathic scoliosis. **Miller, N.H.**, *Clin Orthop.* (401): 60-64, 2002
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Managing Surgical Risk and Post-Discharge Needs in Special Children with Neuromuscular Scoliosis: The High-Risk Pathway. Juliana G. Barnard, MA¹, Mark A. Erickson, MD^{2,3}, Elaine S. Morrato, DrPH^{1,2,4}, **Nancy A. Hadley-Miller**, MD^{2,3}, Elise M. Benefield, RN³, Carolyn T. Nowels, MSPH⁴ and Allison Kempe, MD, MPH^{1,2,4}.

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Model-independent linkage analysis and tests of association for familial idiopathic scoliosis and a candidate region on chromosome 6. Cristina M. Justice, **Nancy H. Miller**, Beth Marosy, Dana Behneman¹, and Alexander F. Wilson. ASHG 2008.

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