

DIVISION OF PEDIATRIC ORTHOPAEDIC SURGERY OUR TEAM

JOSHUA E. HYMAN, MD



Joshua E. Hyman, MD is an Assistant Professor of Orthopedic Surgery at Columbia University College of Physicians & Surgeons and an Assistant Attending at NewYork-Presbyterian Hospital/Columbia University Medical Center. Dr. Hyman did his orthopaedic surgical training at Harvard University and Massachusetts General Hospital. He completed a fellowship in pediatric orthopaedic surgery at the Hospital for Sick Children in Toronto, Canada.

Dr. Hyman specializes in pediatric orthopaedic surgery. His areas of clinical interest include hip disease and dysplasia, complex pediatric spinal disorders (scoliosis), limb lengthening and deformity, club foot and other foot deformities, cerebral palsy and neuromuscular disease, fractures and sports injuries. He is the Director of the Pediatric Orthopaedic Trauma Service.

Dr. Hyman's area of research focuses on methods of measuring quality of life in children. In addition, he is actively involved in research trials on clubfoot, scoliosis and neuromuscular diseases in children. His research has won awards both nationally and internationally.

He is the Medical School Program Director for the Department of Orthopaedic Surgery and is committed to the education of medical students and residents.

CLINICAL INTERESTS

- Hip Disease and Dysplasia
- Pediatric Spinal Disorders (Scoliosis)
- Limb Lengthening
- Club Foot and Other Foot Deformities
- Cerebral Palsy and Neuromuscular Disease
- Fractures
- Sports Injuries

BOARD CERTIFICATIONS

American Board of Orthopaedic Surgery

LICENSURE

Massachusetts
New York
New Jersey

EDUCATION

Fellowship

1998-1999

The Hospital for Sick Children, University of Toronto
Pediatric Orthopaedic Surgery
Clinical Fellow

Residency

1998

Beth Israel Hospital, Harvard Medical School
Orthopaedic Surgery
Chief Resident

1993-1997

Massachusetts General Hospital
Harvard Combined Orthopaedic Residency Program
Orthopaedic Surgery

1992-1993

Harvard University
Orthopaedic Biomechanics Laboratory
Research Fellow

1991-1993

Beth Israel Hospital
Harvard Medical School
General Surgery

Internship

1990-1991

Beth Israel Hospital
Harvard Medical School
General Surgery

Medical School

1990

Columbia University College of Physicians and Surgeons
M.D.

Graduate

1986

Columbia University School of Arts and Sciences
English Literature

Undergraduate

1985

Columbia University - Columbia College
B.A.

CURRENT HOSPITAL AND ACADEMIC APPOINTMENTS

- Assistant Attending Surgeon
Department of Orthopaedics, Division of Pediatric Orthopaedics
Morgan Stanley Children's Hospital of New York-Presbyterian
- Assistant Professor of Orthopaedic Surgery
Columbia University College of Physicians and Surgeons
- Attending Surgeon
Department of Orthopaedics, Bronx-Lebanon Hospital

PROFESSIONAL ORGANIZATIONS AND SOCIETIES

- American Academy of Orthopaedic Surgeons
- American Academy of Cerebral Palsy and Developmental Medicine
- Pediatric Orthopaedic Society of North America
- Salter Society

HONORS

- 2000 Annual Meeting of the European Pediatric Orthopaedic Society, Award for Best Paper
- 1999 Annual Meeting of the American Academy of Pediatrics, Section on Orthopaedics ,Resident Research Award, First Place

SELECTED PUBLICATIONS

- Lowenstein JE, Matsumoto H, Vitale MG, Weidenbaum M, Gomez JA, Lee FY, Hyman JE, Roye DP Jr. Coronal and Sagittal Plane Correction in Adolescent Idiopathic Scoliosis: A Comparison between All Pedicle Screw versus Hybrid Thoracic Hook Lumbar Screw Constructs. *Spine*. 2007 Feb 15;32(4):448-452.
- Vitale MG, Vitale MA, Lehmann CL, Hyman JE, Roye DP Jr, Skaggs DL, Schmitz ML, Sponseller PD, Flynn JM. Towards a National Pediatric Musculoskeletal Trauma Outcomes Registry: the Pediatric Orthopaedic Trauma Outcomes Research Group (POTORG) experience. *J Pediatr Orthop*. 2006 Mar-Apr;26(2):151-6.
- Vitale MA, Choe JC, Seski AM, Hyman JE, Lee FY, Roye DP, Vitale MG. The Effect of Limb Length Discrepancy on Health-related Quality of Life: is the '2 cm rule' Appropriate *Journal of Pediatric Orthopaedics B*. 2006;15:1-5.
- Vitale MG, Kessler MW, Choe JC, Hwang MW, Vernon T, Skaggs DL. Pelvic Fractures in Children: An Exploration of Practice Patterns and Patient Outcomes. *Journal of Pediatric Orthopaedics*. 2005;25: 581-587.
- Vitale MG, Roye EA, Choe JC, Hyman JE , Lee FY , Roye DP. Assessment of Health Status in Patients With Cerebral Palsy: What is the Role of Quality-of-Life Measures *Journal of Pediatric Orthopaedics*. 2005; 25: 792-797.
- Andrea SM, Choe JC, Vitale MA, Ugwonalu O, Vitale MG, Hyman JE. Pediatric orthopaedic injuries: The impact of treatment on school attendance. *Journal of Pediatric Orthopaedics*.2005;25.
- Vitale MG, Choe JC, Vitale MA, Lee FY, Hyman JE, Roye DP Jr. Patient-based outcomes following clubfoot surgery: A sixteen year follow-up study. *Journal of Pediatric Orthopaedics*. 2005;25.

- Vitale MA, Arons RR, Hyman JE, Skaggs DL, Roye DP, Vitale MG. The contribution of hospital volume, payer status, and other factors on the surgical outcomes of scoliosis patients: A review of 3,606 cases in the state of California. *Journal of Pediatric Orthopaedics*. 2005;25:393-399.
- Galano GJ, Vitale MA, Kessler MW, Hyman JE, Vitale MG. The most frequent traumatic orthopaedic injuries from a national pediatric inpatient population. *Journal of Pediatric Orthopaedics*. 2005;25:39-44.
- Narayanan UG, Hyman JE, Wainwright AM, Rang M, Alman BA. Complications of elastic stable intramedullary nail fixation of pediatric femoral fractures, and how to avoid them. *Journal of Pediatric Orthopaedics*. 2004;24:363-9.
- Ugwionali OF, Lomas G, Choe JC, Hyman JE, Lee FY, Vitale MG, Roye DP Jr. Effect of bracing on the quality of life of adolescents with idiopathic scoliosis. *Spine Journal: Official Journal of the North American Spine Society*. 2004;4: 254-60 .
- Sugalski MT, Hyman JE, Ahmad CS. Avulsion fracture of the lesser tuberosity in an adolescent baseball pitcher: a case report. *American Journal of Sports Medicine*. 2004;32:793-6.
- Roye BD, Hyman J, Roye DP Jr. Congenital idiopathic talipes equinovarus. *Pediatrics in Review*. 2004; 25: 124-30 .
- Alexianu D, Skolnick ET, Pinto AC, Ohkawa S, Roye DP Jr, Solowiejczyk DE, Hyman JE, Sun LS. Severe hypotension in the prone position in a child with neurofibromatosis, scoliosis and pectus excavatum presenting for posterior spinal fusion. *Anesthesia & Analgesia*. 2004;98:334-5 .
- Vitale MG, Choe JC, Hwang MW, Bauer RM, Hyman JE, Lee FY, Roye DP Jr. Use of ketorolac tromethamine in children undergoing scoliosis surgery. an analysis of complications. *Spine Journal: Official Journal of the North American Spine Society*. 2003;3 : 55-62.
- Sledge JB, Allred D, Hyman J . Use of magnetic resonance imaging in evaluating injuries to the pediatric thoracolumbar spine. *Journal of Pediatric Orthopaedics*. 2001;21:288-93.
- Hyman JE, Lee FY, Dormans JP, Davidson RS, Magnusson M, Roye DP Jr . Orthopaedic Surgery, Chapter, In: *Pediatric Secrets* , Third Edition RA Olin and MF Ditmar (Eds). 2001.
- Lewis VO, Gehrman M, Weissbach L, HymanJE, Rielly A, Jones DG, Llinas M, Schaller J. Homologous plasminogen N-terminal and plasminogen-related gene A and B peptides. Characterization of cDNAs and recombinant fusion proteins. *European Journal of Biochemistry*.1999;259:618-25.

SELECTED PRESENTATIONS AND POSTERS

- Samuel Dellenbaugh, BA, Joshua Hyman, MD, Hiroko Matsumoto, MA, Jose Morcuende MD PhD, Michael Vitale MD, MPH. A Comparison of Patient-Based Outcomes in Clubfoot Treatment: A Long Term Follow Up Study. Presented at the American Academy of Pediatrics. Atlanta, Georgia. Oct 7-10, 2006 , Second Place Award for Best Resident Paper.
- Roye DP, Matsumoto H, Bye M, Hyman JE Gomez JA, Booker WA, Vitale MG. A Retrospective Cohort Study of Pulmonary Function, Radiographic Measures and Quality of Life in Children with Congenital Scoliosis: An Evaluation of Patient Outcomes after Traditional Spine Surgery. Scoliosis Research Society 2006 Annual Meeting, Monterey, CA, Sept 2006. The 13th International Meeting on Advanced

- Spine Techniques, Athens, Greece, July 2006. The American Academy of Pediatrics 2006 National Conference and Exhibition, Atlanta, GA, Oct 2006. 2006 Annual Meeting of the Spine Society of Europe, Istanbul, Turkey, October 2006. The 13th Annual Meeting of the international society for Quality of Life Research, Lisbon, Portugal, Oct 2006.
- Hyman JE, Matsumoto H, Kurylo J, Vitale MG. The effect of Child Temperament on the Outcome of Idiopathic Clubfoot by the Ponseti Method. The American Academy of Pediatrics 2006 National Conference and Exhibition, Atlanta, GA, Oct 2006. The 13th Annual Meeting of the International Society for Quality of Life Research, Lisbon, Portugal, Oct 2006.
 - Vitale MG, Matsumoto H, Privitera DM, Hyman JE, Waters LA, Roye DP. The Efficacy of Preoperative Erythropoietin Administration in Pediatric Neurogenic Scoliosis Patients. The 13th International Meeting on Advanced Spine Techniques, Athens, Greece, July 2006. The American Academy of Pediatrics 2006 National Conference and Exhibition, Atlanta, GA, Oct 2006.
 - Lowenstein JE, Matsumoto H, Vitale MG, Weidenbaum M, Lee FY, Hyman JE, Roye, DP. Coronal and Sagittal Plane Correction in Adolescent Idiopathic Scoliosis: A Comparison between Thoracic Pedicle Screw and Hook Constructs. The International Meeting on Advanced Spine Techniques, Banff, Alberta, Canada, July 2005. American Academy of Pediatrics 2005 National Conference and Exhibition, Washington DC, Oct 2005. Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 2006. European Pediatric Orthopaedic Society 2006 Meeting, Dresden, Germany, April 2006. The Pediatric Orthopaedic Society of North America 2006 Annual Meeting, San Diego, CA, May 2006.
 - Jawetz JT, Matsumoto H, Choe JC, Hyman JE, Spellmann M. Impact of Pediatric Orthopaedic Injuries and Treatments on School Attendance. The Pediatric Orthopaedic Society of North America 2005 Annual Meeting, Ottawa, Canada, May 2005. Annual Assistant Professor Pediatric Research Symposium, New York, NY, December 2005. Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 2006.
 - Storer SK, Vitale MG, Long DE, Choe JC, Hyman JE, Lee FY, Roye DP. Correction of Adolescent Idiopathic Scoliosis Using Thoracic Pedicle Screw Fixation vs. Traditional Hook Constructs: A Single Surgeon Retrospective Review. Presented at the 6th International Congress on Spinal Surgery Ankara, Turkey, September 5th-7th, 2002. Published in the Transactions of the European Spine Journal, Sept 2002. Presented at North American Spine Society Philadelphia, PA, Nov 2005. Published in The Spine Journal Sept 2005.
 - Vitale MG, Choe JC, Gelijns AC, Moskowitz AJ, Hyman JE, Lee FY, Roye DP. Assessment of Health Status in Patients with Cerebral Palsy: What is the Role of Quality of Life Measures? AACPD 2005 Annual Meeting. Orlando, FL. September 2005.
 - Vitale MG, Choe JC, Vitale MA, Roye BD, Hyman JE, Lee FY, Roye DP. Patient-Based Outcomes Following Clubfoot Surgery: A Fifteen Year Follow-Up Study. American Academy of Orthopaedic Surgeons. Dallas, TX, 2002. The International Society of Orthopaedic Surgery and Traumatology; International Clubfoot Congress, San Diego, CA, August 2002. American Academy of Pediatrics, Section on Orthopaedic Surgery, Washington, D.C., November 2005.

- Sesko AM, Choe CH, Vitale MA, Ugwionali O, Vitale MG, Hyman JE. The Effect of Treatment on School Attendance. Assistant Professor of Pediatric Research Symposium. New York, NY. December 2004.
- Vitale MA, Choe JC, Sesko AM, Hyman JE, Lee FY, Roye DP, Vitale MG. The Effect of Leg Length Discrepancy on Health-Related Quality of Life: Is the "2cm Rule" Appropriate? American Academy of Pediatrics - 3rd Place Award for Best Paper, Boston, MA, Oct 20th, 2002. American Academy of Orthopaedic Surgeons New Orleans, LA, 2003.
- JE Hyman, MG Vitale , O Ugwionali, G Lomas, JC Choe, FY Lee, DP Roye. Effect of Bracing on the Quality of Life of Adolescents with Idiopathic Scoliosis. Presented at the American Academy of Pediatrics, Boston, MA, Oct 20th, 2002. Presented at the 6th International Congress on Spinal Surgery Ankara, Turkey, September 5th-7th, 2002. Presented at European Pediatric Orthopaedic Society, London, England, April, 2003. Published in the Transactions of the European Spine Journal, September 2002.
- MA Vitale, RA Arons, JC Choe, JE Hyman, DL Skaggs, MD, DP Roye, MG Vitale. Practice Patterns and Surgical Outcomes of Spinal Fusion in the State of California: A Five Year Review of 92,372 Spinal Fusions. Presented at the 6th International Congress on Spinal Surgery-Nominated for Best Paper, Ankara, Turkey, September 5th-7th, 2002. Published in the Transactions of the European Spine Journal, September 2002. Presented at the American Academy of Pediatrics, Boston, MA, Oct 20th, 2002.
- Vitale MG, Levy DE, Choe JC, Gelijns AC, Moskowitz AJ, Hyman JE, Lee FY, Roye DP. Pediatric Spine Deformity: Assessing Patient Outcomes and Quality of Life. International Congress on Spinal Surgery. Turkey, 2002.
- Vitale MG, Hyman JE, Choe JC, Roye BD, Kelmanovich DJ, Roye DP. Patient-Based Outcomes Following Clubfoot Surgery: A 15-Year Follow-Up Study. American Academy of Orthopaedic Surgeons Annual Meeting March 2002. International Clubfoot Congress, San Diego, CA, August 2002.