

Curriculum Vitae

John E. Herzenberg, MD, FRCSC
Director, Pediatric Orthopedics, Sinai Hospital of Baltimore
Director, International Center for Limb Lengthening,
Rubin Institute for Advanced Orthopedics, Sinai Hospital of Baltimore

July 6, 2009

Contact Information

Sinai Hospital of Baltimore
Rubin Institute for Advanced Orthopedics
2401 West Belvedere Avenue
Baltimore, Maryland 21215
Tel: 410-601-8700
Fax: 410-601-9575
Toll-free: 800-221-8425
E-mail Addresses: frcsc@aol.com
jherzenberg@lifebridgehealth.org
Foreign Languages: Hebrew (fluent)

Education

1979 Boston University
Boston, Massachusetts
B.A. in Medical Science with Minor in Sociology, Magna Cum Laude

1979 Boston University School of Medicine: Six-Year Medical Program
Boston, Massachusetts
M.D.

Post Graduate Education and Training

July 1979–June 1980 Intern (General Surgery)
Albert Einstein College of Medicine, Bronx, New York

July 1980–June 1981 Assistant Resident (General Surgery), Montefiore Hospital-Albert
Einstein College of Medicine, Bronx, New York

July 1981–June 1984 Assistant Resident (Orthopaedic Surgery) Duke University
Medical Center, Durham, North Carolina

July 1984–June 1985 Chief Resident (Orthopaedic Surgery), Duke University Medical
Center, Durham, North Carolina

July 1985–June 1986 Clinical Fellow in Pediatric Orthopaedic Surgery,
Hospital for Sick Children, Toronto, Ontario, Canada

1987 American Orthopaedic Association North American
Traveling Fellow

1995 American Orthopaedic Association American-British-Canadian
Traveling Fellow

Certifications

July 1980	National Board of Medical Examiners
November 1986	Specialist Certificate, Royal College of Physicians and Surgeons of Canada
July 1988–Dec 1998	Certified, American Board of Orthopaedic Surgery
Jan 1999–Dec 2008	Re-certified, American Board of Orthopaedic Surgery
Jan 2009–Dec 2018	Re-certified, American Board of Orthopaedic Surgery

Medical Licensures

1980	New York (Inactive)
1985	North Carolina (Inactive)
1985	Ontario, Canada (Inactive)
1986	Michigan (Inactive)
1991	Maryland (Active)

Employment History**Academic Appointments**

1986–1988	Instructor of Surgery (Orthopaedics), University of Michigan School of Medicine, Ann Arbor, Michigan
1988–1991	Assistant Professor of Surgery (Orthopaedics) University of Michigan School of Medicine, Ann Arbor, Michigan
1991–1994	Associate Professor of Surgery (Orthopaedics) University of Maryland School of Medicine, Baltimore, Maryland
1992–1994	Clinical Associate Professor of Pediatrics (Secondary Appointment), University of Maryland School of Medicine, Baltimore, Maryland
1994–2001	Associate Professor (with tenure) of Surgery (Orthopaedics) University of Maryland School of Medicine, Baltimore, Maryland
1994–2003	Associate Professor of Pediatrics (Secondary Appointment) University of Maryland School of Medicine, Baltimore, Maryland
2001–2003	Professor, Orthopaedic Surgery University of Maryland School of Medicine, Baltimore, Maryland

Other Employment

1981–1984	Assistant Resident (Orthopaedic Surgery) Duke University Medical Center, Durham, North Carolina
1984–1985	Chief Resident (Orthopaedic Surgery), Duke University Medical Center, Durham, North Carolina
1991–2001	Co-Director, Maryland Center for Limb Lengthening & Reconstruction, Baltimore, Maryland
2001–2008	Co-Director, International Center for Limb Lengthening, Sinai Hospital, Baltimore, Maryland

2001–present	Director, Division of Pediatric Orthopedics, Sinai Hospital, Baltimore, Maryland
2009–present	Director, International Center for Limb Lengthening, Sinai Hospital, Baltimore, Maryland

I achieved the rank of full tenured professor at the University of Maryland School of Medicine in 2001. I later moved to the International Center for Limb Lengthening (ICLL) at Sinai Hospital of Baltimore, a community teaching hospital, on the full-time staff. I direct the fellowship program at the ICLL. My rank at Sinai Hospital would be equivalent to what it was at the University of Maryland School of Medicine.

Professional Society Memberships

1985–present	Member, Piedmont Orthopaedic Society
1986–present	Associate Member, University of Michigan Orthopaedic Society
1987 –present	Fellow, American Academy for Cerebral Palsy and Developmental Medicine
1987 –present	Member, Pediatric Orthopaedic Society of North America
1987–present	Fellow, Royal College of Surgeons of Canada
1987–1991	Member, Michigan Orthopaedic Society
1988 –present	Member, Orthopaedics Overseas
1988 –present	Member, Canadian Orthopaedic Association
1989 –present	Charter Member, Association for the Study and Application of the Methods of Ilizarov-North America: The Limb Lengthening and Reconstruction Society
1990 –present	Member, American Academy of Orthopaedic Surgeons
1992 –present	Member, Maryland Orthopaedic Society
1996 –present	Member, American Orthopaedic Association
2002–2003	President, Maryland Orthopaedic Society

Honors and Awards

1979	Boston University, Phi Beta Kappa
1983	Radiological Society of North America, Cum Laude Award for Scientific Exhibit
1987	American Orthopaedic Association North American Traveling Fellow
1988	American Academy of Orthopaedic Surgeons, Orthopaedic Educational Achievement
1994	University of Maryland at Baltimore, Community Service Award Nominee
1994	Maryland Governor's Volunteer Award Nomination, Certificate of Appreciation
1995	American Orthopaedic Association, ABC Traveling Fellow
March 1996	Best Doctors in America
	Listed in <i>American Health</i> magazine survey of the top 1019 physicians in the USA as one of 15 doctors in the category of Pediatric Orthopaedics (<i>American Health</i> , vol XV, no 2, p 82, March 1996)
1995–1996	Universita' Degli Studi Di Milano (Italia), Docenti della Scuola 1° Scuola di Specializzazione in Ortopedia e Traumatologia

- Feb 1999 Orthopaedic Rehabilitation Association Jaqueline Perry Award
(with Aita D, Bhava A, Paley D, and Cannada L)
The Load Applied to the Foot in a Patellar Ligament-Bearing Cast
Anaheim, California
- Aug 2002 SICOT Honorary Mention for "Nerve Impairment Associated with Limb
Lengthening Procedures," San Diego, California
- Feb 2002 American Academy of Orthopaedic Surgeons First Place Winner for
Pediatric Poster "Lengthening Reconstruction Surgery for the Treatment of
Fibular Hemimelia," Dallas, Texas
- May 2002 POSNA Best Clinical Paper, "Nerve Impairment Associated with Limb
Lengthening Procedures," Salt Lake City, Utah
- 2003 Association of Medical Illustrators Award of Excellence for
Principles of Deformity Correction
- 2005 Health Care Hero, *The Daily Record*
- 2009 Honorable Mention for the Presentation of "Relapse of Idiopathic Clubfoot After
the Ponseti Method" at the Annual Meeting of the American College of Foot and
Ankle Surgeons in Washington, D.C.
- 2009 Will be granted Honorary Membership in the Israel Orthopaedic Association in
December 2009

Clinical Activities

Clinical Expertise:

- Pediatric orthopedics, limb lengthening, and reconstruction

Scope of Clinical Practice:

- Perform an average of 300 surgical procedures per year at Sinai Hospital of Baltimore, a 467-bed teaching hospital.
- Spend 40 hours per week performing clinical duties.
- Receive 20 new referrals per week.

Responsibilities with Practice:

- Director, International Center for Limb Lengthening
- Director, Pediatric Orthopedics, Sinai Hospital of Baltimore
- Director of the Fellowship Program at the International Center for Limb Lengthening
- Member of the Faculty Practice Council
- Train fellows and residents during the Pediatric Orthopedic Teaching Conference held twice a month at the International Center for Limb Lengthening

Innovative Techniques and Development of Clinical Programs

- Helped develop and promulgate new techniques in limb lengthening.
- Instrumental in reviving the Ponseti method of clubfoot treatment and making it become the standard of care in the United States and around the world.
- Co-founded the International Center for Limb Lengthening in 2001, a referral center for complex pediatric and adult orthopedic problems.
- Co-founded the Rubin Institute for Advanced Orthopedics in 2001.
- Cofounded the Maryland Center for Limb Lengthening & Reconstruction in 1991.

Administrative Service**Institutional Service**

2001–present	Continuing Medical Education Committee, Sinai Hospital
2001–present	Graduate Medical Education Committee, Sinai Hospital
2001–present	Director, Pediatric Orthopedics, Sinai Hospital, Baltimore, Maryland
2001–2008	Co-Director, International Center for Limb Lengthening, Sinai Hospital, Baltimore, Maryland
2002–2004	Institutional Review Board, Sinai Hospital
2009–present	Faculty Practice Council, Sinai Hospital
2009–present	Director, International Center for Limb Lengthening, Sinai Hospital, Baltimore, Maryland

Local and National Service**Local Service**

1986–1991	Consultant Surgeon, Ann Arbor Veterans Administration Hospital
1988–1991	Consultant, Washtenaw, MI, County Intermediate School District
1993–present	Consultant Surgeon, Baltimore Veterans Administration Hospital
1998–1999	Member-at-Large, Maryland Orthopaedic Association
2002–2003	President, Maryland Orthopaedic Association

National Service

1989–1992	The Limb Lengthening and Reconstruction Society Research Committee
1991–1997	Subcommittee for Foot and Ankle Evaluation, American Academy of Orthopaedic Surgeons
1992–1998	Scientific Advisory Committee, Genesis Orthopedics
1993	Chairman of the Program Committee, The Limb Lengthening and Reconstruction Society Annual Meeting, San Francisco, CA
1993	Ad Hoc Reviewer, Office of Orphan Products Development Grant Program, Food and Drug Administration
1993–present	Reviewer, <i>Clinical Orthopaedics and Related Research</i>
1994	Chairman of the Program Committee, The Limb Lengthening and Reconstruction Society Annual Meeting, New Orleans, LA
1994–1995	Member-at-Large, The Limb Lengthening and Reconstruction Society
1995	Chairman of the Program Committee, The Limb Lengthening and Reconstruction Society Annual Meeting, Orlando, FL
1995–1996	President Elect, The Limb Lengthening and Reconstruction Society
1995–present	Reviewer, <i>Journal of Bone and Joint Surgery</i>
1996–1997	President, The Limb Lengthening and Reconstruction Society

1996–present	Editorial Board, <i>Journal of Orthopaedic Trauma</i>
1997–1998	Grants Reviewer, Clinical Sciences Special Emphasis Panel: Small Business Innovation Research Program, National Institutes of Health
1997–1999	Nominating Committee and Executive Board Member of The Limb Lengthening and Reconstruction Society
1997–1999	Member of the Ad Hoc Committee on International Affairs, American Academy of Orthopaedic Surgeons
1997–2000	Medical Advisory Board, Ollier/Maffucci Self-Help Group, National Institutes of Health
1997–present	Subcommittee for Pediatric Evaluation, American Academy of Orthopaedic Surgeons
1998–2001	Consultant Reviewer, <i>Journal of the American Academy of Orthopaedic Surgeons</i>
1999–2000	Chairman of the Ad Hoc Committee on International Affairs, American Academy of Orthopaedic Surgeons
1999–2000	Editorial Board of the American Orthopaedic Association News, American Academy of Orthopaedic Surgeons
1999–present	Reviewer, <i>Journal of Pediatric Orthopaedics</i>
2007–present	Consultant Reviewer, <i>Journal of Pediatric Orthopaedics</i>
2007–present	Reviewer, <i>Journal of Children's Orthopaedics</i>
2007–present	Member of the International Editorial Board, <i>Journal of Children's Orthopaedics</i>
March 2007	Member of a subcommittee to review a grant submission to the National Institute of Child Health and Human Development
2009–present	Reviewer, <i>Journal of Biomedical Materials Research</i>

Teaching Service

Basic Sciences

Mentor for Student Research (University of Michigan), Full time geographic faculty, supervising residents and interns for 40 hours/week

1986–1991	David M. Kruger, MD (Resident, Henry Ford Hospital), David Viviano, MS (Engineering Student), David Hak, BS (Medical Student, Ohio University) Laboratory Investigation: Biomechanical Testing of Pin Fixation for Slipped Capital Femoral Epiphysis
1986–1991	Robert F. Closkey, MS (PhD candidate in Bioengineering) Laboratory Investigation: Spinal Rotation in Scoliosis
1986–1991	Nicholas A. Waanders, BS (Medical Student) Laboratory Investigation: Rate of Deformity Correction with Ilizarov's Apparatus and Load Sharing in Ilizarov Apparatus, Early Regenerate Bone Formation

Clinical Sciences

Mentor for Student Research (University of Maryland), Full time geographic faculty, supervising residents and fellows for 40 hours/week

1991–2001	Lisa Cannada, BS (Medical Student) Magnetic Resonance Imaging Safety and Efficacy with External Fixators
1991–2001	Anthony Quinn, BS (Medical Student) Proximal Fibular Vascular and Neurologic Anatomy
1991–2001	Michael Cushner, BS (Medical Student) Mechanical Alignment of the Lower Extremity in Children
1991–2001	Matt Zurko, BA (Medical Student) Material Properties of Casting Material for Clubfoot
1991–2001	Margaret Langford, BS Eng (Engineering Student) Finite Element Analysis of Tibial Procurvatum
1991–2001	Susan Arnoult, BS (Medical Student) Ocular Torticollis
1991–2001	Christopher Bounds, BS (Medical Student) Magnetic Resonance Imaging Appearance of Ellis van Crevald Syndrome
1991–2001	Christopher Thompson, BS Eng (Engineering Student, University of Maryland at Baltimore County) Mechanical Model of Tibial Procurvatum
1991–2001	Carsten Stephan (Medical Student, Berlin Frei University) Cast Weight Study
1991–2001	Christof Radler (Medical Student, University of Vienna) Conservative Treatment of Clubfoot

Mentor to Clinical Fellows (Maryland Center for Limb Lengthening & Reconstruction), Full time geographic faculty, supervising clinical fellows for 40 hours/week

1/92–6/92	R. Craig Saunders, MD, USA; Project: Femoral Lengthening
7/92–5/93	Jeetendra Bhatnagar, MD, India; Project: Collateral Ligament Tightening
7/92–6/93	James Davis, DO, USA; Project: Treatment of Knee Flexion Contracture
8/92–2/93	Mangal Parihar, MD, India; Project: The Geometry of Fracture Deformities
10/92–12/92	Dean Maar, MD, USA; Project: Bone Transport Medial Compartment Osteoarthritis
1/93–4/93	Paul Fortin, MD, USA
2/93–8/93	José Weinberg, MD, Brazil
7/93–12/93	Hirofumi Akazawa, MD, Japan
7/93–12/93	John McKie, MD, New Zealand; Project: Normal Alignment Parameters
1/94–6/94	Suhas Shah, MD, India; Project: Distraction Treatment of Hypertrophic Nonunions
1/94–12/94	Amit Bhargava, MD, India; Project: Ollier's Disease

1/94–12/94	Andrew Herbert, MD, New Zealand; Project: Nerve Injuries from Limb Lengthening
7/94–11/94	Nabil Darwish, MD, Egypt; Project: Charcot Nonunions
1/95–6/95	Noam Bor, MD, Israel
1/95–6/95	Errol Mortimer, MD, Canada; Project: Tibial Lengthening
7/95–12/95	Michael Laverick, MD, Northern Ireland; Project: Posteromedial Tibial Bowing
7/95–12/95	Zaki Nawawi, MD, Saudi Arabia; Project: Pseudoachondroplasia
7/95–12/95	Hae Ryong Song, MD, Korea; Project: Supramalleolar Osteotomies
1/96–6/96	William Nigel Keenan, MD, Northern Ireland; Project: Joint Orientation Angles in Children
1/96–6/96	Alfonso Manzotti, MD, Italy; Project: Tibial Lengthening over Nails
1/96–6/96	Sandip Vyas, MD, India; Project: Growth Arrest Treated by Ilizarov Method
7/96–9/96	Gerardo Lopez Mejia, MD, Mexico
7/96–12/96	Sanjeev Sabharwal, MD, Canada; Project: Toddler Lengthening Growth Rates
7/96–6/97	Baek Young Song, MD, Korea; Project: Fibular Hemimelia
1/97–6/97	Mehmet Kocaoglu, MD, Turkey; Project: Congenital Short Femur
1/97–6/97	Rifat Zaidi, MD, Pakistan; Project: Congenital Short Femur
7/97–12/97	Laura Rovetta, MD, Italy; Project: Bilateral Humeral Lengthening for Achondroplasia
7/97–6/98	James Kuhn, MD, USA; Project: Lengthening over Nail, First 100 Cases
7/97–6/98	Koichi Yoshino, MD, Japan; Project, Bilateral Tibial Lengthening for Achondroplasia
8/97–2/98	Flavio Araujo, MD, Brazil
3/98–3/00	Mahmoud El-Rosasy, MD, Egypt; Project: Congenital Pseudarthrosis of the Tibia
7/98–4/99	Faisal Sadiq Arab, MD, Saudi Arabia
7/98–6/99	Timothy O’Carrigan, MD, Australia; Project: Regenerate Fractures Associated with Femoral and Tibial Lengthening
7/98–12/00	Milan Samardziski, MD, Macedonia; Project: Humeral Nonunions
7/98–3/00	Mahmoud El-Rosasy, Egypt; Project: Congenital Pseudarthrosis of the Tibia
9/98–1/99	Ali Oznur, MD, Turkey; Project: Ankle Fusion Malunions and Nonunions
3/99–9/99	S. Robert Rozbruch, MD, USA; Project: High Tibial Osteotomies; Ilizarov Hip Reconstruction
7/99–12/99	Cengiz Sen, MD, Turkey; Project: Acute Shortening and Subsequent Re-lengthening for Tibial Bone Defects
9/99–8/00	Dimitris Katsenis, MD, Greece; Project: Ankle Fusion Malunion and Nonunion
9/99–9/00	Yasser El-Batrawy, MD, Egypt; Project: Osteotite Pins
10/99–12/99	Janet Conway, MD, USA; Project: L-Proximal Tibial Osteotomy
1/00–6/00	Bethan Chancey, MD, Canada
3/00–9/00	Monica Pacshoal Nogueira, MD, São Paulo, Brazil; Project: Nerve Injuries Associated with Lengthening

7/00–9/01	Minoo Patel, MD, Australia; Project: Hypertrophic Nonunions
9/00–9/01	Said Sagheih, MD, Lebanon; Project: Lengthening in Different Age Groups
9/00–9/01	Rudrani Bhavge, MD, India; Project: Congenital Pterygium Syndrome
2/01–12/01	Shivkumar Santpure, MD, India; Project: Multiplier Method; Femoral Lengthening for Achondroplasia
6/01–12/01	Ibrahim Tuncay, MD, Turkey; Project: Lengthening through Fracture

Mentor to Clinical Fellows (Rubin Institute for Advanced Orthopedics), Full time geographic faculty, supervising clinical fellows for 40 hours/week

8/01–5/02	Nabil Ahmed El Moughazy, MD; Mansoura Dakahlia, Egypt
8/01–8/02	Kush Kumar, MD; Port of Spain, Trinidad and Tobago
8/01–6/03	Saeed Zaki, MD; Wigan, United Kingdom
9/01–9/02	Julyn Aguilar, MD; Quezon City, The Philippines Projects: Clinical Validation of the Multiplier Method for Predicting Limb Length at Maturity; Clinical Validation of the Multiplier Method for Predicting Limb Length Discrepancy and Outcome of Epiphysiodesis
4/02–3/03	Jochen Erhart, MD; Vienna, Austria Project: Ipsilateral Hip Dysfunction and Contralateral Knee Degeneration
7/02–12/02	Mark Eidelman, MD; Haifa, Israel Project: Hip Stability during Femoral Lengthening in Children with Congenital Femoral Deficiency
8/02–6/03	Pankaj Kaw, MD; Kashmir, India
8/02–7/03	Samer Bondokji, DPM; New York, New York
10/02–3/03	Francisco Violante, MD; São Paulo, Brazil Project: Femoral Nailing of Fractures after Lengthening for Congenital Femoral Deficiency in Young Children
1/03–6/03	Toby Branfoot, MD; Leeds, England Projects: Femoral Nailing of Fractures after Lengthening for Congenital Femoral Deficiency in Young Children Life- and Limb-Threatening Infections: Rare Complications Associated with External Fixation
4/03–3/04	Sungjung Kim, MD; Daegu, Republic of Korea
6/03–6/04	Bradley M. Lamm, DPM; Pittsburgh, Pennsylvania Projects: Multiplier Method for Prediction of Adult Height in Patients with Achondroplasia; Multiplier Method for Predicting Adult Foot Length; Gastrocnemius-Soleus Recession: A Simpler, More Limited Approach; Correction of the Cavus Foot Using External Fixation; External Fixation of the Foot and Ankle in Children; Tarsal Tunnel Decompression in Leg Lengthening and Deformity Correction of the Foot and Ankle; Deformity Correction Planning for Hindfoot, Ankle, and Lower Limb
6/03–7/04	Ian Galley, MD; Tauranga, New Zealand Project: External Fixation of the Foot and Ankle in Children
8/03–6/04	Saravanan Sivaramalingam, MD; Belfast, Ireland
8/03–7/04	Mangaleshkar Singu, MD; Marborne, England

- 4/04–3/05 Avinash Ranade, MD; Maharashtra, India
Projects: Humerus Varus: Corrective Osteotomy and Stabilization with Ilizarov Fixator
- 6/04–11/04 Thomas Abraham, MD; Kerala, India
- 7/04–6/05 Nikolaos Bardakos, MD; Houston, Texas
Projects: Unexpected Recovery of Motor Function after Myonecrosis from Compartment Syndrome Langer-Giedion Syndrome Associated with Bone Cysts
- 7/04–6/05 Matthew Testani, DPM; York Springs, Pennsylvania
Project: Tarsal Tunnel
- 7/04–7/05 Ruben Arafles, MD; Manila, Philippines
- 8/04–7/05 Venkatachalapathy Perumal, MD; Cincinnati, Ohio
- 8/04–7/05 Raghuram Thonse, MD; Belfast, Ireland
Project: Limb Lengthening with a Fully Implantable, Telescopic, Intramedullary Rod; Slipped Capital Femoral Epiphysis Following Superhip Procedure for Congenital Femoral Deficiency
- 12/04–11/05 Kalomoria Konstantinidou, MD; Athens, Greece
Project: High Tibial Osteotomy
- 6/05–9/05 Konstantin Dyachkov, MD; Kurgan, Russia
- 6/05–8/06 Ashish Ranade, MD; Yeovil, United Kingdom
Projects: Patella Baja; Ponseti Method for the Treatment of Idiopathic Clubfoot; Femoral Lengthening with the ISKD: The Effect of Mechanical Axis Deviation
- 7/05–6/06 Zach Tankersley, DPM; Pittsburgh, PA
- 8/05–7/06 Ali Khosroabady, DPM; Passaic, New Jersey
- 8/05–7/06 Subrata Basu, MD; Calcutta, India
- 4/06–3/07 Shuji Yamazaki, MD; Sapporo, Japan
Project: Deformity Correction and Limb Lengthening in Ollier Disease Using the Taylor Spatial Frame
- 7/06–6/07 Philip Wroslavsky, DPM; New York, New York
Projects: Brachymetatarsia; U Osteotomy
- 7/06–7/07 Ahmed Thabet, MD; Benha, Egypt
Projects: Congenital Pseudarthrosis of the Tibia; Gigli Saw Midfoot Osteotomy; Spontaneous Resolution of Angular Deformity of the Distal Femur in Focal Fibrocartilagenous Dysplasia: Case Report
- 8/06–7/07 Gaurav Jindal, MD; Uttar Pradesh, India
Projects: Clubfoot: Anterior Tibialis Tendon Transfer; Percutaneous Gigli Saw Midfoot Osteotomy Combined with External Fixation for Foot Deformity Correction: Cadaveric and Clinical Study; Bilateral Cosmetic Femoral Lengthening with the Intramedullary Skeletal Kinetic Distractor (ISKD); Bilateral Cosmetic Tibial Lengthening with the Intramedullary Skeletal Kinetic Distractor (ISKD); Limb Lengthening with the Intramedullary Skeletal Kinetic Distractor (ISKD) for Posttraumatic Limb Length Discrepancy; Temporary Extra-Articular Hindfoot Arthrodesis Screw for Tibial Lengthening: A Cadaver Study; Tibial Lengthening with an Internal Device: Preventing Equinus Contracture with a Calcaneotibial Screw; Ulnarization for the Treatment of Radial Clubhand; Use of the Reamer/Irrigator/Aspirator (RIA) to Harvest Bone Graft for Limb Reconstruction Surgery: Technique, Early Experience, and Outcomes

- 8/06–7/07 Amr Atef Abdelgawad, MD; Cairo, Egypt
Projects: Prophylactic Rodding after Femoral Lengthening; Super Knee Procedure for Congenital Unstable Knees
- 8/06–7/07 Mohan V. Belthur, MD; India
Projects: Tibial Intramedullary Skeletal Kinetic Distractor (ISKD) for Congenital Leg Length Discrepancy; Gait Analysis in Children with Idiopathic Club Feet: Comparison of Outcomes Between Surgery and Ponseti Method; Limb Reconstruction Surgery for Congenital Knee Fusion: Strategy and Early Results; Bilateral Cosmetic Tibial Lengthening with the Intramedullary Skeletal Kinetic Distractor (ISKD); Bilateral Cosmetic Femoral Lengthening with the Intramedullary Skeletal Kinetic Distractor (ISKD); Intramedullary Skeletal Kinetic Distractor (ISKD) for Posttraumatic Limb Length Discrepancy; Temporary Extra-Articular Hindfoot Arthrodesis Screw for Tibial Lengthening: A Cadaver Study; Tibial Lengthening with an Internal Device: Preventing Equinus Contracture with a Calcaneotibial Screw; Ulnarization for the Treatment of Radial Clubhand; Use of the Reamer/Irrigator/Aspirator (RIA) to Harvest Bone Graft for Limb Reconstruction Surgery: Technique, Early Experience, and Outcomes
- 8/06–12/07 Alex Betch, MD; Mexico City, Mexico
Project: Prevention, Diagnosis and Treatment of Infected Total Joint Arthroplasties: A Survey of Orthopedic Surgeons
- 2/07–11/07 Rolf D. Burghardt, MD; Gilching, Germany
Projects: Femoral Lengthening with the Intramedullary Skeletal Kinetic Distractor: The Effect of Mechanical Axis Deviation; Pseudoaneurysm after Percutaneous Tendo Achilles Tenotomy: A Case Report; Temporary Hemiepiphyseal Arrest with a Screw and Plate Device to Treat Knee and Ankle Deformities in Children: A Preliminary Report; Compartment Syndrome after Hypocalcemia: A Case Report
- 4/07–3/08 Mahmoud Felaifil, MD Egypt
Project: Ilizarov Device for the Treatment of Angular Deformities Around the Knee
- 6/07–3/08 Alejandro Baar, MD; Santiago, Chile
- 8/07–8/08 Nurit Shadmi, MD; Ramat Hagolan, Israel
- 8/07–7/08 Rachana Purohit, DPM; Hoboken, New Jersey
Project: Distraction Arthroplasty of the Ankle
- 8/07–7/08 Salih Marangoz, MD; Ankara, Turkey
Projects: Malunion and Nonunion; Humeral Lengthening for Patients with Achondroplasia
- 10/07–9/08 Yalamanchili Seetha Rama Prasad, MD; India
- 4/08–9/08 Catharina Chiari, MD; Vienna, Austria
Project: Results of the Superhip Procedure
- 6/08–5/09 Vithal Shenge, MD; India
- 7/08–7/09 Guney Yilmaz, MD; Turkey
- 7/08–7/09 Reggie Torredes, MD; The Philippines
Project: External versus Internal Fixation to Treat Tibial Vara
- 8/08–1/09 Ferras Zeni, MD; USA
- 9/08–8/09 Abdulsalam Shahul Hameed, MD; India
- 11/08–11/09 Rajat Agarwal, MD; India

Mentor for Student Research (Beth Tfiloh Dahan Community High School Students) Full time geographic faculty, supervising clinical fellows for 10 hours/week

2002	Anna Levin, Height Multiplier
2002	Jonathan Paley, Height Multiplier
2002	Jonathan Talor, Height Multiplier
2003	David Kurland, Foot Multiplier, Achondroplasia Multiplier
2003	Alex Matz, Foot Multiplier, Achondroplasia Multiplier
2004	Harry Auster
2004	Amanda Gelman, Prenatal Multiplier
2004	Jonathan Paley, Prenatal Multiplier, Clinical Validation of the Multiplier
2005	Amanda Gelman, Upper Extremity Multiplier
2005	Mordchai Shualy, Upper Extremity Multiplier
2006	Mordchai Shualy, Spinal Multiplier
2006	Maya B. Goldberg, Spinal Multiplier
2008	Joshua Riederman, Effect of the eight-Plate on Limb Length

Visiting Professorships

1. Clement Sledge Visiting Professor, University of Toronto: "Three-dimensional Computer Analysis of Clubfoot." Toronto, Ontario, Canada, January 1986.
2. Visiting Professor, University of Pittsburgh: "Introduction to the Ilizarov Method of Orthopaedic Reconstruction" and "Deformity Correction with the Ilizarov Method." Pittsburgh, Pennsylvania, January 30–February 1, 1990.
3. Visiting Professor, University of Oslo, Sophies Mindes Orthopaedic Hospital: "The Ilizarov Method of Limb Lengthening and Deformity Correction," "Hinge Placement for Angular Correction and Calculation of Rate of Correction," "Femoral Lengthening," "Postoperative Management for Tibial Lengthening," and "Biomechanics of the Ilizarov External Fixator." Oslo, Norway, June 15–18, 1990.
4. Visiting Professor, University of Arkansas, Arkansas Children's Hospital: "Torsional and Angular Problems in Children," and "Ilizarov Reconstructive Surgery of the Femur." Little Rock, Arkansas, May 1991.
5. Robert J. Ruderman Visiting Professor, Duke University Medical Center: "Torsional Problems in Children," "Technical Aspects of Circular External Fixation," and "Results of Reconstructive Surgery of the Femur with the Ilizarov Method." Durham, North Carolina, May 1991.
6. Visiting Professor, Osaka Children's Hospital and Research Institute and the Osaka Red Cross Hospital for Pediatric Orthopaedics: "Introduction to the Ilizarov Method." Osaka, Japan, August 1991.
7. Visiting Professor, University of Miami Medical Center: "Mechanical Axis Realignment" and "Results of Reconstructive Surgery of the Femur with the Ilizarov Method." Miami, Florida, April 1992.

8. Visiting Professor, Unfallchirurgischen Klinik-Hannover Medizinische Hochschule: "Femoral Lengthening over Nails" and "Preoperative Planning of Deformity Correction." Hannover, Germany, March 1993.
9. Visiting Professor, Rudolph Virchow Krankenhaus: "Femoral Lengthening over Intramedullary Nails." Berlin, Germany, March 1993.
10. Visiting Professor, University of Niigata School of Medicine, Grand Rounds: "Introduction to the Ilizarov Method of Lengthening and Deformity Correction." Niigata, Japan, June 1993.
11. Visiting Professor, University of South Carolina Medical School: "Preoperative Planning for Lower Extremity Deformity Correction" and "Introduction to Ilizarov Reconstructive Surgery." Charleston, South Carolina, December 1993.
12. Visiting Professor, University of Massachusetts Medical School: "Preoperative Planning for Lower Extremity Deformity Correction" and "Introduction to Ilizarov Reconstructive Surgery." Worcester, Massachusetts, April 1994.
13. Visiting Professor, McClaren Regional Medical Center Orthopaedic Training Program. Flint, Michigan, February 1995.
14. Visiting Professor, University of Nebraska Medical Center Orthopaedic Training Program. Omaha, Nebraska, September 1995.
15. Visiting Professor, Shriners Hospital for Crippled Children: "Preoperative Planning for Lower Extremity Deformity Correction." Springfield, Massachusetts, December 1995.
16. Visiting Professor, Bethesda Naval Hospital Orthopaedic Training Program: "Slipped Capital Femoral Epiphysis." Bethesda, Maryland, February 1996.
17. Visiting Professor and Command Consultant, National Naval Medical Center Orthopaedic Training Program: "Evaluation of the Limping Child" and "Proximal Focal Femoral Deficiency Surgery." Bethesda, Maryland, August 1996.
18. Visiting Professor, Vienna Trauma Center: "Lengthening of Tibia and Femur over Intramedullary Nails." Vienna, Austria, January 1998.
19. Visiting Professor, Kansei Medical University: "Lengthening of Tibia over Intramedullary Nails." Osaka, Japan, March 1998.
20. Visiting Professor, Harvard University, Boston Children's Hospital: "Modern Concepts in Clubfoot" and "Limb Lengthening in Skeletal Dysplasia." Boston, Massachusetts, October 1998.
21. George Greenstein Honorary Lecturer: "Medical Volunteerism: Medical Mission to Nicaragua." Northwest Hospital, Randallstown, Maryland, December 1998.

22. Dr. James A. Dickson Visiting Lecturer: Cleveland Clinic and the Cleveland Orthopaedic Society: "Hypertrophic Nonunions," "Lengthening over Nails," "Conservative Care of Clubfoot," and "Medical Mission to Nicaragua." Cleveland, Ohio, December 1998.
23. Visiting Professor, Vienna Children's Hospital: "Ponseti's Method of Clubfoot Correction." Vienna, Austria, January 1999.
24. Visiting Professor, Department of Orthopaedic Surgery, University of Athens, School of Medicine: "Osteotomy Rules," "Preoperative Planning: CORA Method," "Introduction to the Ponseti Method," "How to Handle Relapses and Atypical Feet," "Hands-On Lab: Ponseti Method." Athens, Greece, November 2006.
25. Visiting Professor, University of Utah, Salt Lake City: "Conservative Management of Clubfoot." Salt Lake City, Utah, January 2008.
26. Visiting Professor, Washington University, St. Louis, MO, June 2008.
27. Visiting Professor, Hospital for Special Surgery, New York, NY: "Achondroplasia." New York, New York, January 2009.
28. Visiting Professor, Columbia University: "Lengthening Over Nails." New York, New York, March 2009.

Postgraduate Courses Organized

1. Course Chairman: 2nd Annual Frederick J. Fischer Memorial Lecture Conference in Pediatric Orthopaedics at the University of Michigan. Ann Arbor, MI, May 1990.
2. Course Co-Chairman: Ilizarov Method Course, Management of Specialized Pediatric Applications and Deformity Correction. Kiawah Island, SC, October 1990.
3. Course Co-Chairman: Advanced Pediatric Applications of the Ilizarov Technique. Kiawah Island, SC, October 1991.
4. Course Chairman: Limb Lengthening Tutorial, Pediatric Orthopaedic Society of North America at the University of Maryland. Baltimore, MD, November 1991.
5. Course Co-Chairman: Post-AAOS Tutorial on Lower Limb Deformities at the University of Maryland. Baltimore, MD, February 1992.
6. Course Co-Chairman: Ilizarov Method Course at Kyunghee University. Seoul, Korea, August 1992.
7. Course Co-Chairman: Lower Extremity Realignment and Lengthening Tutorial, Pediatric Orthopaedic Society of North America at the University of Maryland. Baltimore, MD, November 1992.
8. Head of Pediatric Section Meeting Planning Committee: 3rd Annual Meeting of the Southern Orthopaedic Association, Current Concepts in Orthopaedics. Baltimore, MD, May 1993.

9. Co-Chairman: University of Maryland Advanced Preoperative Planning Course for the Ilizarov Method. Baltimore, MD, July 1993.
10. Co-Chairman: Intermediate Ilizarov Method Course. Surrey, England, June 1994.
11. Co-Chairman: University of Maryland Advanced Preoperative Planning Course for the Ilizarov Method. Baltimore, MD, July 1994.
12. Co-Director: Baltimore Limb Deformity Course. Baltimore, MD, September 1995.
13. Co-Chairman: University of Maryland Lower Extremity Deformity Course, Baltimore, MD, September 1995.
14. Co-Director: 5th Annual Baltimore Limb Deformity Course. Baltimore, MD, September 1996.
15. Co-Director: 6th Annual Baltimore Limb Deformity Course. Baltimore, MD, September 1997.
16. Co-Director: 7th Annual Baltimore Limb Deformity Course. Baltimore, MD, September 1998.
17. Co-Director: 9th Annual Baltimore Limb Deformity Course. Baltimore, MD, September 1999.
18. Co-Director: 10th Annual Baltimore Limb Deformity Course. Baltimore, MD, September 2000.
19. Co-Director: 11th Annual Baltimore Limb Deformity Course. Baltimore, MD, September 2001.
20. Co-Director: 12th Annual Baltimore Limb Deformity Course. Baltimore, MD, September 2002.
21. Co-Director: 13th Annual Baltimore Limb Deformity Course. Baltimore, MD, September 2003.
22. Director: Baltimore Limb Deformity Pre-Course: Ponseti Method for Clubfoot Treatment. Baltimore, MD, September 2003.
23. Director: Baltimore Limb Deformity Pre-Course: Ponseti Method for Clubfoot Treatment. Baltimore, MD, September 2004.
24. Co-Director: 14th Annual Baltimore Limb Deformity Course. Baltimore, MD, September 2004.
25. Director: 15th Annual Baltimore Limb Deformity Course. Baltimore, MD, September 2005.

26. Course Chairman: Ponseti Method for Clubfoot Treatment, Pediatric Orthopaedic Society of North America Tutorial at Sinai Hospital. Baltimore, MD, April 2006.
27. Director: Ponseti Method for Clubfoot Treatment Pre-Course. Baltimore, MD, August 2006.
28. Co-Director: 16th Annual Baltimore Limb Deformity Course. Baltimore, MD, September 2006.
29. Co-Director: Ponseti Method for Clubfoot Treatment Pre-Course. Baltimore, MD, August 2007.
30. Co-Director: 17th Annual Baltimore Limb Deformity Course. Baltimore, MD, September 2007.
31. Director: 18th Annual Baltimore Limb Deformity Course. Baltimore, MD, September 2008.
32. Director: Pediatric Foot Deformities Post-Course. Baltimore, MD, September 2008.
33. Director: 19th Annual Baltimore Limb Deformity Course. Baltimore, MD, September 2009.

Grant Support

Completed Grants

5/87–8/88	Principal Investigator, 80% BRS Information Technologies: Publication after Presentation of Papers at the AAOS (\$876)
12/88–12/90	Principal Investigator, 80% “Clinical Evaluation of Metatarsus Adductus Orthosis” Camp International, Inc. (\$11,150)
3/1/89–2/28/90	Consultant, 2% PI: Dr. Albert B. Schultz “Biomechanical Studies of Idiopathic Scoliosis” National Institutes of Health Grant (\$206,664)
3/1/89–2/28/91	Co-Principal Investigator with Dr. Janet L. Kuhn, 5% “Biomechanics of the Perichondrial Ring and Growth Plate” Orthopaedic Research and Educational Foundation Grant (\$58,081)

- 4/1/89–3/31/90 Consultant, 2% PI: James A. Ashton Miller
“Control of Trunk Equilibrium in Seated Individuals”
US HHS PHS NIH Grant RO1-NS-24058-03
(\$140,719)
- 3/1/90–2/28/91
(renewed) Consultant, 2% PI: Dr. Albert B. Schultz
“Biomechanical Studies of Idiopathic Scoliosis”
National Institutes of Health Grant
(\$215,360)
- 4/1/90–3/31/91
(renewed) Consultant, 2% PI: James A. Ashton Miller
“Control of Trunk Equilibrium in Seated Individuals”
US HHS PHS NIH Grant RO1-NS-24058-03
(\$140,723)
- 1990 Co-Principal Investigator with Drs. James A. Goulet and
Janet L. Kuhn, 10%
“Tissue Adaptation in Distraction Histogenesis”
University of Michigan Department of Surgery Research Grant
(\$23,788)
- 1990 Co-Principal Investigator with Drs. James A. Goulet and
Janet L. Kuhn, 10%
“Tissue Adaptation in Distraction Histogenesis”
Smith + Nephew Richards, Inc., Equipment Grant
(\$11,856)
- 3/1/91–2/29/92
(renewed) Consultant, 2% PI: Dr. Albert B. Schultz
“Biomechanical Studies of Idiopathic Scoliosis”
National Institutes of Health Grant
(\$223,516)
- 1991 Co-Principal Investigator with Drs. James A. Goulet and
Janet L. Kuhn, 10%
“Tissue Adaptation in Distraction Histogenesis”
University of Michigan Department of Surgery Research Grant
(\$15,850)
- 6/93–8/93 Principal Advisor to Lisa Cannada (Medical Student), 2%
“MRI Safety and Efficacy with External Fixators”
University of Maryland Medical School STRP Grant
(\$2,000)
- 6/94–8/94 Principal Advisor to Matt Zurko (Medical Student), 10%
“Mechanical Testing of Clubfoot Casting Materials”
University of Maryland Medical School STRP Grant
(\$2,000)

- 1994 Co-Principal Investigator with Dr. Stephen Belkoff and Matt Zmurko, 10%
“Mechanical Testing of Clubfoot Casting Materials”
3M, Inc., Research Grant
(\$10,000)
- 7/94–6/96 Co-Investigator, 10% PI: Dr. William Nigel Keenan
“Normal Frontal and Sagittal Plane Alignment of the Lower Extremity”
University of Maryland Pangborn Fund Grant
(\$2,843)
- 7/98–6/03 Co-Investigator, 2% PI: Patrick De Deyne, PhD
“Effects of Passive Stretch in Skeletal Muscle”
National Institute of Child Health and Human Development Career
Development Award
(\$485,574)

Patents, Inventions and Copyrights

1. Fixation Brace with Focal Hinge (U.S. Patent #5,358,504; Date: 10-25-94).
2. Drill Guide and Method for Avoiding Intramedullary Nails in the Placement of Bone Pins (U.S. Patent #5,403,322; Date: 4-4-95).

Publications

Peer-reviewed journal articles

1. Martinez S, **Herzenberg JE**, Apple JS. Computed tomography of the hindfoot. *Orthop Clin North Am* 16(3):481–496, 1985.
2. Gilmer PW, **Herzenberg J**, Frank JL, Silverman P, Martinez S, Goldner JL. Computerized tomographic analysis of acute calcaneal fractures. *Foot Ankle* 6(4):184–193, 1986.
3. **Herzenberg JE**, Goldner JL, Martinez S, Silverman PM. Computerized tomography of talocalcaneal tarsal coalition: a clinical and anatomic study. *Foot Ankle* 6(6):273–288, 1986.
4. Richards RR, **Herzenberg JE**, Goldner JL. Bilateral nontraumatic anterior acromioclavicular joint dislocation. A case report. *Clin Orthop* 209:255–258, 1986.
5. **Herzenberg JE**. Johann Friedrich August von Esmarch: His life and contributions to orthopaedic surgery. *Iowa Orthop J* 8:85–91, 1988.
6. **Herzenberg JE**, Carroll NC, Christofersen MR, Lee EH. Three-dimensional computerized reconstruction of histologic serial sections for orthopedic research. *Orthopedics* 11(11):1549–1555, 1988.

7. **Herzenberg JE**, Carroll NC, Christofersen MR, Lee EH, White S, Munroe R. Clubfoot analysis with three-dimensional computer modeling. *J Pediatr Orthop* 8(3):257–262, 1988.
8. **Herzenberg JE**, Coonrad RW, Ross DB, Green NE. Spinous process segmental instrumentation for scoliosis. *J Spinal Disord* 1(3):206–210, 1988.
9. **Herzenberg JE**, Harrelson JM, Campbell DC 2nd, Lachiewicz PF. Fractures of the polyethylene bearing insert in Bateman bipolar hip prostheses. *Clin Orthop* 228:88–93, 1988.
10. Saltzman CL, **Herzenberg JE**, Phillips WA, Hensinger RN, Hopwood NJ. Thick lips, bumpy tongue, and slipped capital femoral epiphysis—a deadly combination. *J Pediatr Orthop* 8(2):219–222, 1988.
11. Stevenson TR, Rubin JM, **Herzenberg JE**. Vascular patency of fibular free graft: assessment by Doppler color-flow imager: a case report. *J Reconstr Microsurg* 4(5):409–413, 1988.
12. Bueche MJ, **Herzenberg JE**, Stubbs BT. Dissociation of a metal-backed polyethylene acetabular component: a case report. *J Arthroplasty* 4(1):39–41, 1989.
13. **Herzenberg JE**, Hensinger RN, Dedrick DK, Phillips WA. Emergency transport and positioning of young children who have an injury of the cervical spine. The standard backboard may be hazardous. *J Bone Joint Surg Am* 71(1):15–22, 1989.
14. Ashton-Miller JA, McGlashen KM, **Herzenberg JE**, Stohler CS. Cervical muscle myoelectric response to acute experimental sternocleidomastoid pain. *Spine* 15(10):1006–1012, 1990.
15. Blane CE, Ragsdale CG, **Herzenberg JE**. Predicting outcome at the knee in juvenile rheumatoid arthritis. *Clin Exp Rheumatol* 8(1):85–88, 1990.
16. **Herzenberg JE**, Waanders NA, Closkey RF, Schultz AB, Hensinger RN. Cobb angle versus spinous process angle in adolescent idiopathic scoliosis. The relationship of the anterior and posterior deformities. *Spine* 15(9):874–879, 1990.
17. Kruger DM, **Herzenberg JE**, Viviano DM, Hak DJ, Goldstein SA. Biomechanical comparison of single- and double-pin fixation for acute slipped capital femoral epiphysis. *Clin Orthop* 259:277–281, 1990.
18. Blane CE, **Herzenberg JE**, DiPietro MA. Radiographic imaging for Ilizarov limb lengthening in children. *Pediatr Radiol* 21(2):117–120, 1991.
19. Farley FA, Phillips WA, **Herzenberg JE**, Rosenthal A, Hensinger RN. Natural history of scoliosis in congenital heart disease. *J Pediatr Orthop* 11(1):42–47, 1991.
20. Fish DN, **Herzenberg JE**, Hensinger RN. Current practice in use of prereduction traction for congenital dislocation of the hip. *J Pediatr Orthop* 11(2):149–153, 1991.

21. **Herzenberg JE**, Waanders NA. Calculating rate and duration of distraction for deformity correction with the Ilizarov technique. *Orthop Clin North Am* 22(4):601–611, 1991.
22. Farley FA, Hensinger RN, **Herzenberg JE**. Cervical spinal cord injury in children. *J Spinal Disord* 5(4):410–416, 1992.
23. **Herzenberg JE**. Inflatable bump to facilitate exposure during foot surgery. *Foot Ankle* 13(1):42–43, 1992.
24. Raskas DS, Graziano GP, **Herzenberg JE**, Heidelberger KP, Hensinger RN. Osteoid osteoma and osteoblastoma of the spine. *J Spinal Disord* 5(2):204–211, 1992.
25. Waanders NA, **Herzenberg JE**. The theoretical application of inclined hinges with the Ilizarov external fixator for simultaneous angulation and rotation correction. *Bull Hosp Jt Dis* 52(1):27–35, 1992.
26. Coglianesi DB, **Herzenberg JE**, Goulet JA. Physical therapy management of patients undergoing limb lengthening by distraction osteogenesis. *J Orthop Sports Phys Ther* 17(3):124–132, 1993.
27. Freiberg AA, **Herzenberg JE**, Sangeorzan JA. Thorn synovitis of the knee joint with Nocardia pyarthrosis. *Clin Orthop* 287:233–236, 1993.
28. Graziano GP, **Herzenberg JE**, Hensinger RN. The halo-Ilizarov distraction cast for correction of cervical deformity. Report of six cases. *J Bone Joint Surg Am* 75(7):996–1003, 1993.
29. Jupiter JB, Palumbo MA, Nunley JA, Aulicino PL, **Herzenberg JE**. Secondary reconstruction after vascularized fibular transfer. *J Bone Joint Surg Am* 75(10):1442–1450, 1993.
30. Loder RT, Farley FA, **Herzenberg JE**, Hensinger RN, Kuhn JL. Narrow window of bone age in children with slipped capital femoral epiphyses. *J Pediatr Orthop* 13(3):290–293, 1993.
31. **Herzenberg JE**, Davis JR, Paley D, Bhave A. Mechanical distraction for treatment of severe knee flexion contractures. *Clin Orthop* 301:80–88, 1994.
32. **Herzenberg JE**, Scheufele LL, Paley D, Bechtel R, Tepper S. Knee range of motion in isolated femoral lengthening. *Clin Orthop* 301:49–54, 1994.
33. **Herzenberg JE**, Smith JD, Paley D. Correcting torsional deformities with Ilizarov's apparatus. *Clin Orthop* 302:36–41, 1994.
34. Paley D, Bhatnagar J, **Herzenberg JE**, Bhave A. New procedures for tightening knee collateral ligaments in conjunction with knee realignment osteotomy. *Orthop Clin North Am* 25(3):533–555, 1994.
35. Paley D, **Herzenberg JE**, Tetsworth K, McKie J, Bhave A. Deformity planning for frontal and sagittal plane corrective osteotomies. *Orthop Clin North Am* 25(3):425–465, 1994.

36. Paley D, Maar DC, **Herzenberg JE**. New concepts in high tibial osteotomy for medial compartment osteoarthritis. *Orthop Clin North Am* 25(3):483–498, 1994.
37. Saltzman CL, **Herzenberg JE**. If the shoe fits,... *Iowa Orthop J* 14:174–176, 1994.
38. Cannada LK, **Herzenberg JE**, Hughes PM, Belkoff S. Safety and image artifact of external fixators and magnetic resonance imaging. *Clin Orthop* 317:206–214, 1995.
39. Silas SI, **Herzenberg JE#**, Myerson MS, Sponseller PD. Compartment syndrome of the foot in children. *J Bone Joint Surg Am* 77(3):356–361, 1995.
40. Zung A, **Herzenberg JE**, Chalew SA. Radiological case of the month. Ectopic ossification and calcification in pseudohypoparathyroidism and pseudopseudohypoparathyroidism. *Arch Pediatr Adolesc Med* 150(6):643–644, 1996.
41. McKie JS, **Herzenberg JE**. Coagulopathy complicating intraoperative blood salvage in a patient who had idiopathic scoliosis: a case report. *J Bone Joint Surg Am* 79(9):1391–1394, 1997.
42. Paley D, Fink B, **Herzenberg JE**. Pseudarthrosis following slipped capital femoral epiphysis: treatment with reduction with use of gradual distraction: A case report. *J Bone Joint Surg Am* 79(10):1552–1555, 1997.
43. Paley D, **Herzenberg JE**, Paremain G, Bhave A. Femoral lengthening over an intramedullary nail: A matched-case comparison with Ilizarov femoral lengthening. *J Bone Joint Surg Am* 79(10):1464–1480, 1997.
44. Zmurko MG, Belkoff SM, **Herzenberg JE**. Mechanical evaluation of a soft cast material. *Orthopedics* 20(8):693–698, 1997.
45. Aita D, Bhave A, **Herzenberg JE**, Paley D, Cannada L. The load applied to the foot in a patellar ligament-bearing cast. *J Bone Joint Surg Am* 80(11):1597–1602, 1998.
46. **Herzenberg JE**, Paley D. Ilizarov management of clubfoot deformity in young children. *Foot Ankle Clin* 3(4):649–661, 1998.
47. Wexler I, Paley D, **Herzenberg JE#**, Herbert A. Detection of nerve entrapment during limb lengthening by means of near-nerve recording. *Electromyogr Clin Neurophysiol* 38(3):161–167, 1998.
48. Bhave A, Paley D, **Herzenberg JE**. Improvement in gait parameters after lengthening for the treatment of limb-length discrepancy. *J Bone Joint Surg Am* 81(4):529–534, 1999.
49. De Deyne PG, Hayatsu K, Meyer R, **Herzenberg JE#**, Paley D. Myoblast proliferation and functional characteristics of the tibialis anterior during distraction osteogenesis in skeletal mature and immature rabbits. *Trans Orthop Res Soc* 24:143, 1999.

50. De Deyne PG, Hayatsu K, Meyer R, Paley D, **Herzenberg JE**. Muscle regeneration and fiber-type transformation during distraction osteogenesis. *J Orthop Res* 17(4):560–570, 1999.
51. De Deyne PG, Meyer R, Paley D, **Herzenberg JE**. The adaptation of perimuscular connective tissue during distraction osteogenesis. *Clin Orthop* 379:259–269, 2000.
52. Paley D, Bhave A, **Herzenberg JE**, Bowen JR. Multiplier method for predicting limb-length discrepancy. *J Bone Joint Surg Am* 82(10):1432–1446, 2000.
53. Sabharwal S, Paley D, Bhave A, **Herzenberg JE**. Growth patterns after lengthening of congenitally short lower limbs in young children. *J Pediatr Orthop* 20(2):137–145, 2000.
54. Stephan C, **Herzenberg JE**, Araujo FF. Accurate determination of cast weight for neonates with clubfoot. *J Pediatr Orthop* 20(2):230–233, 2000.
55. **Herzenberg JE**, Radler C, Bor N. Ponseti versus traditional methods of casting for idiopathic clubfoot. *J Pediatr Orthop* 22(4):517–521, 2002.
56. Paley D, **Herzenberg JE**. Intramedullary infections treated with antibiotic cement rods: preliminary results in nine cases. *J Orthop Trauma* 16(10):723–729, 2002.
57. Rozbruch SR, **Herzenberg JE**, Tetsworth K, Tuten HR, Paley D. Distraction osteogenesis for nonunion after high tibial osteotomy. *Clin Orthop* 394:227–235, 2002.
58. Sen C, Kocaoğlu M, Dinçyürek H, **Herzenberg JE**, Tanyeli E, Demirci S, Vural F. The reliability of percutaneous osteotomy with the Gigli saw technique in the proximal tibia: a cadaveric study [in Turkish]. *Acta Orthop Traumatol Turc* 36(2):136–140, 2002.
59. Nogueira MP, Paley D, Bhave A, Herbert A, Nocente C, **Herzenberg JE**. Nerve lesions associated with limb-lengthening. *J Bone Joint Surg Am* 85(8):1502–1510, 2003.
60. Paley J, Talor J, Levin A, Bhave A, Paley D, **Herzenberg JE**. The multiplier method for prediction of adult height. *J Pediatr Orthop* 24(6):732–737, 2004.
61. Aguilar JA, Paley D, Paley J, Santpure S, Patel M, Bhave A, **Herzenberg JE**. Clinical validation of the multiplier method for predicting limb length at maturity, part I. *J Pediatr Orthop* 25(2):186–191, 2005.
62. Aguilar JA, Paley D, Paley J, Santpure S, Patel M, **Herzenberg JE**, Bhave A. Clinical validation of the multiplier method for predicting limb length discrepancy and outcome of epiphysiodesis, part II. *J Pediatr Orthop* 25(2):192–196, 2005.
63. Katsenis D, Bhave A, Paley D, **Herzenberg JE**. Treatment of malunion and nonunion at the site of an ankle fusion with the Ilizarov apparatus. *J Bone Joint Surg Am* 87(2):302–309, 2005.
64. Lamm BM, **Herzenberg JE**. Ponseti method revolutionizes clubfoot treatment. *Biomechanics* 12(10):47–58, 2005.

65. Lamm BM, Paley D, **Herzenberg JE**. Gastrocnemius soleus recession: a simpler, more limited approach. *J Am Podiatr Med Assoc* 95(1):18–25, 2005.
66. Paley J, Gelman A, Paley D, **Herzenberg JE**. The prenatal multiplier method for prediction of limb length discrepancy. *Prenat Diagn* 25(6):435–438, 2005.
67. Paley D, Matz AL, Kurland DB, Lamm BM, **Herzenberg JE**. Multiplier method for prediction of adult height in patients with achondroplasia. *J Pediatr Orthop* 25(4):539–542, 2005.
68. Rozbruch SR, Paley D, Bhave A, **Herzenberg JE**. Ilizarov hip reconstruction for the late sequelae of infantile hip infection. *J Bone Joint Surg Am* 87(5):1007–1018, 2005.
69. Thonse R, **Herzenberg JE**, Standard SC, Paley D. Limb lengthening with a fully implantable, telescopic, intramedullary nail. *Op Tech Ortho* 15:335–362, 2005.
70. Bor N, **Herzenberg JE#**, Frick SL. Ponseti management of clubfoot in older infants. *Clin Orthop* 444:224–228, 2006.
71. Lamm BM, Paley D, Kurland DB, Matz AL, **Herzenberg JE**. Multiplier method for predicting adult foot length. *J Pediatr Orthop* 26(4):444–448, 2006.
72. Lamm BM, Standard SC, Galley IJ, **Herzenberg JE#**, Paley D. External fixation for the foot and ankle in children. *Clin Podiatr Med Surg* 23:137–166, 2006.
73. Paley D, Lamm BM, Katsenis D, Bhave A, **Herzenberg JE**. Treatment of malunion and nonunion at the site of an ankle fusion with the Ilizarov apparatus. Surgical technique. *J Bone Joint Surg Am* 88 Suppl 1 Pt 1:119–134, 2006.
74. Bor N, Katz Y, Vofsi O, **Herzenberg JE#**, Zuckerberg AL. Sedation protocols for Ponseti clubfoot Achilles tenotomy. *J Child Orthop* 1(6):333–335, 2007.
75. **Herzenberg JE**, Lamm BM, Corwin C, Sekel J. Isolated recession of the gastrocnemius muscle: the Baumann procedure. *Foot and Ankle Int* 28(11):1154–1159, 2007.
76. Lamm BM, Paley D, Testani M, **Herzenberg JE**. Tarsal tunnel decompression in leg lengthening and deformity correction of the foot and ankle. *J Foot Ankle Surg* 46(3):201–206, 2007.
77. Radler C, Manner HM, Suda R, Burghardt R, **Herzenberg JE#**, Ganger R, Grill F. Radiographic evaluation of idiopathic clubfeet undergoing Ponseti treatment. *J Bone Joint Surg Am* 89(6):1177–1183, 2007.
78. Belthur MV, Conway JD, Jindal G, Ranade A, **Herzenberg JE**. Bone graft harvest using a new intramedullary system. *Clin Orthop* 466(12):2973–2980, 2008.
79. Belthur MV, Paley D, Jindal G, Burghardt RD, Specht SC, **Herzenberg JE**. Tibial lengthening: extraarticular calcaneotibial screw to prevent ankle equinus. *Clin Orthop* 466(12):3003–3010, 2008.

80. Burghardt RD, **Herzenberg JE#**, Ranade A. Pseudoaneurysm after Ponseti percutaneous Achilles tenotomy: a case report. *J Pediatr Orthop* 28(3):366–369, 2008.
81. Burghardt RD, **Herzenberg JE**, Standard SC, Paley D. Temporary hemiepiphyseal arrest using a screw and plate device to treat knee and ankle deformities in children: a preliminary report. *J Child Orthop* 2(3):187–197, 2008.
82. Luzzi R, Burghardt RD, **Herzenberg JE#**, Zuckerberg AL. Compartment syndrome after hypocalcemic tetany: a case report. *J Pediatr Orthop* 28:688–90, 2008.
83. Paley D, Gelman A, Shualy MB, **Herzenberg JE**. Multiplier method for limb-length prediction in the upper extremity. *J Hand Surgery Am* 33(3):385–391, 2008.
84. Thabet AM, Paley D, Kocaoglu M, Eralp L, **Herzenberg JE**, Ergin ON. Periosteal grafting for congenital pseudarthrosis of the tibia: a preliminary report. *Clin Orthop* 466(12):2981–2994, 2008.
85. Bor N, Coplan JA, **Herzenberg JE**. Ponseti treatment for idiopathic clubfoot: minimum 5-year followup. *Clin Orthop* 467(5):1263–1270, 2009.
86. **Herzenberg JE**, Branfoot T, Paley D, Violante FH. Femoral Nailing to Treat Fractures after Lengthening for Congenital Femoral Deficiency in Young Children. *J Pediatr Orthop B* (in press).

Non-peer-reviewed journal articles

1. **Herzenberg JE**. When fashion dictates shoe styles, the results can be painful. *Ann Arbor News* March 24, 1987, p A9.
2. Bone LB, Friedman RJ, **Herzenberg JE**, Paiment GD, Stambough JL. AOA-COA 1987 North American Traveling Fellowship. *American Orthopaedic Association News* 20:9–14, 1988.
3. **Herzenberg JE**. Computed tomography of pediatric distal tibial growth plate fractures: a practical guide. *Tech Orthop* 4(3):53–64, 1989.
4. **Herzenberg JE**, Hensinger RN. Pediatric cervical spine injuries. *Trauma Q* 5(2):73–81, 1989.
5. **Herzenberg JE**, Hensinger RN, Dedrick DK, Phillips WA. Transporte de emergencia y posicion del niño pequeño con lesion de la columna cervical: El soporte de espalda corriente puede ser peligroso [translated by Townsend JI]. *Venciendo Barreras* 2:33–38, 1989.
6. **Herzenberg JE**, Paley D. Ilizarov applications in foot and ankle surgery. *Adv Orthop Surg* 16(3):162–174, 1992.
7. **Herzenberg JE**. Commentary on diagnostic and therapeutic technology assessment (DATTA) of distraction/compression osteosynthesis with the Ilizarov device. *Abstr Clin Care Guidelines* 5:1:10–12, January/February 1993.

8. Herbert AJ, **Herzenberg JE**, Paley D. A review for pediatricians on limb lengthening and the Ilizarov method. *Curr Opin Pediatr* 7(1):98–105, 1995.
9. Paley D, **Herzenberg JE**. Salvaging the severely injured leg. *OPTIONS* April 1995, iss 3, p 2 (published by the University of Maryland Rehabilitation Network).
10. **Herzenberg JE**. Lengthening and deformity correction in Ollier's disease. *Ollier's News* 2nd quarter, 1997.
11. **Herzenberg JE**. Who was Louis X.E.L. Ollier? *Ollier's News* 2nd quarter, 1997.
12. **Herzenberg JE**, Paley D. Femoral lengthening over nails (LON). *Tech Orthop* 12(4):240–249, 1997.
13. **Herzenberg JE**, Paley D. Tibial lengthening over nails (LON). *Tech Orthop* 12(4):250–259, 1997.
14. Paley D, **Herzenberg JE**, Bor N. Fixator-assisted nailing of femoral and tibial deformities. *Tech Orthop* 12(4):260–275, 1997.
15. **Herzenberg JE**, Paley D. Leg lengthening in children. *Curr Opin Pediatr* 10(1):95–97, 1998.
16. Patel M, **Herzenberg JE**. Current trends in limb lengthening. *Curr Opin Orthop* 11:431–437, 2000.
17. Ranade A, Lamm BM, **Herzenberg JE**. A review article: Ponseti method for the treatment of idiopathic clubfoot. *J Foot and Ankle Surgery (India)* 21(1):1–8, 2006.

Books

1. Paley D. *Principles of Deformity Correction*. Berlin: Springer-Verlag, 2002 (**Herzenberg JE** recognized on the front cover for providing editorial assistance).
2. Paley D. *Principles of Deformity Correction*. 1st ed, Corr. 2nd printing. Berlin: Springer-Verlag, 2003 (**Herzenberg JE** was recognized on the front cover for providing editorial assistance).
3. Paley D. *Principles of Deformity Correction Exercise Workbook*. Berlin: Springer-Verlag, 2003 (**Herzenberg JE** was recognized on the front cover for providing editorial assistance).
4. Paley D. *Principles of Deformity Correction*. 1st ed, Corr. 3rd printing. Rev ed. Berlin: Springer-Verlag, 2005 (**Herzenberg JE** was recognized on the front cover for providing editorial assistance).
5. Staheli L, Ponseti I, Morcuende JA, Pirani S, Mosca V, Penny N, Dietz F, **Herzenberg JE**, Weinstein S, Steenbeek M. *Clubfoot: Ponseti Management*. 3rd ed. Seattle: Global HELP, 2009.

Book Chapters

1. **Herzenberg JE**, Hensinger RN. Pediatric orthopaedics. In, *Pediatric Syllabus: University of Michigan Department of Pediatrics and Communicable Diseases*. Ann Arbor: University of Michigan; 1987.
2. Goulet JA, **Herzenberg JE**, Phillips WA, Kolowich P, Hensinger RN. Seat belt fractures in children: smaller people, bigger problems. In, Harris BH, Coran AG (ed): *Progress in Pediatric Trauma*. ed 3. Boston: Nobb Hill; 1989.
3. Hensinger RN, **Herzenberg JE**. Congenital kyphosis. In, Netter FH (ed): *Musculoskeletal System: Part II*. Summit: Ciba-Geigy; 1990.
4. **Herzenberg JE**. Congenital limb deficiencies and limb lengthening. In, Canale T, Beaty J (ed): *Operative Pediatric Orthopaedics*. ed 1. St. Louis: Mosby; 1991:187–252.
5. **Herzenberg JE**, Hensinger RN, Fielding JW. Fractures of the spine: Part I: Injuries of the cervical spine. In, Rockwood CA, Wilkins KE, King RE (ed): *Fractures in Children*. ed 1. Philadelphia: Lippincott; 1991:921–957.
6. Venes JI, **Herzenberg JE**. Management of kyphoscoliosis associated with neurologic deficit. In, Tarlov EC (ed): *Neurosurgical Topics: Neurosurgical Treatment of Disorders of the Thoracic Spine*. Park Ridge: American Association of Neurological Surgeons; 1991:35–43.
7. Paley D, Kovelman HF, **Herzenberg JE**. Ilizarov technology. In, Stauffer RN (ed): *Advances in Operative Orthopaedics*. vol 1. St. Louis: Mosby-Year Book, Inc.; 1993:243–287.
8. **Herzenberg JE**. Congenital limb deficiencies and limb lengthening. In, Canale T, Beaty J (ed): *Operative Pediatric Orthopaedics*. ed 2. St. Louis: Mosby; 1995.
9. **Herzenberg JE**, Paley D. Methods and strategies in limb lengthening and realignment for skeletal dysplasia. In, Zvi L (ed): *Limb Lengthening: For Whom, When and How?* Tel Aviv: Freund Publishing; 1995.
10. Paley D, **Herzenberg JE**. The limbs. In, Saunders R (ed): *Structural Fetal Anomalies: The Total Picture*. St. Louis: Mosby; 1995.
11. **Herzenberg JE**, Hensinger RN, Fielding JW. Fractures of the spine: Part I: Injuries of the cervical spine. In, Rockwood CA, Wilkins KE, King RE (ed): *Fractures in Children*. ed 2. Philadelphia: Lippincott; 1996.
12. Sponseller P, **Herzenberg JE**. Cervical spine injuries in children. In, CSRS Editorial Committee, Clark CR (ed): *The Cervical Spine*. Philadelphia: Lippincott-Raven; 1997.
13. Paley D, **Herzenberg JE**. Distraction treatment of the forearm. In, Buck-Gramcko D (ed): *Congenital Malformations of the Hand and Forearm*. London: Churchill Livingstone; 1998:73–117.

14. Paley D, **Herzenberg JE**. Applications of external fixation to foot and ankle reconstruction. Myerson MS (ed): *Foot and Ankle Disorders*. Philadelphia: W.B. Saunders Co.; 1999:1135–1188.
15. **Herzenberg JE**. Growth plate considerations. In, Paley D: *Principles of Deformity Correction*. ed 1. Berlin: Springer-Verlag; 2002 (also provided editorial assistance for the entire book).
16. **Herzenberg JE**. Rotation and angulation-rotation deformities. In, Paley D: *Principles of Deformity Correction*. ed 1. Berlin: Springer-Verlag; 2002 (also provided editorial assistance for the entire book).
17. **Herzenberg JE**. Growth plate considerations. In, Paley D: *Principles of Deformity Correction*. ed 2. Berlin: Springer-Verlag; 2003 (also provided editorial assistance for the entire book).
18. **Herzenberg JE**. Rotation and angulation-rotation deformities. In, Paley D: *Principles of Deformity Correction*. ed 2. Berlin: Springer-Verlag; 2003 (also provided editorial assistance for the entire book).
19. **Herzenberg JE**, Paley D, Gillespie R. Limb deficiency. In, Staheli LT, ed: *Pediatric Orthopaedic Secrets*. 2nd ed. Philadelphia: Hanley & Belfus, Inc.; 2003: 406–416.
20. El-Rosasy MA, Paley D, **Herzenberg JE**. Congenital pseudarthrosis of the tibia. In, Rozbruch SR, Ilizarov S (eds): *Limb Lengthening and Reconstruction Surgery*. New York: Informa Healthcare; 2007:485–494.
21. **Herzenberg JE**. Humeral lengthening and realignment. In, Rozbruch SR, Ilizarov S (eds): *Limb Lengthening and Reconstruction Surgery*. New York: Informa Healthcare; 2007:535–543.
22. **Herzenberg JE**, Paley D. Stature lengthening: skeletal dysplasia. In, Rozbruch SR, Ilizarov S (eds): *Limb Lengthening and Reconstruction Surgery*. New York: Informa Healthcare; 2007:575–596.
23. Jindal G, Lamm BM, **Herzenberg JE**. Tibialis anterior tendon transfer for relapsed clubfoot after treatment with Ponseti method. In, Agrawal RA, Pandey S: *Step by Step: Management of Clubfoot by Ponseti Technique*. New Delhi: Jaypee Brothers Medical Publishers, LTD; 2007:154-172.
24. O’Carrigan, Paley D, **Herzenberg JE**. Obstacles in limb lengthening: fractures. In, Rozbruch SR, Ilizarov S (eds): *Limb Lengthening and Reconstruction Surgery*. New York: Informa Healthcare; 2007:485–494.
25. Marangoz S, **Herzenberg JE**. Nonunions and Malunions. In, Complications of Open Fractures, Ed. S.Levin. AAOS Monograph, 2008 (in press).

Abstracts and/or Proceedings

1. Harrelson JM, **Herzenberg JE**. Prosthetic rehabilitation following hip disarticulation. *Orthop Trans* 7(3):494, 1983.
2. **Herzenberg JE**, Goldner JL, Korobkin M, Martinez S. Tarsal coalition: the role of CT scans in diagnosis and surgical treatment. *Foot Ankle Int* 4:43, 1983.
3. **Herzenberg JE**, Goldner JL, Korobkin M, Martinez S. Tarsal coalition: the role of CT scans in diagnosis and surgical treatment. *Orthop Trans* 7(1):158, 1983.
4. **Herzenberg JE**, Goldner JL, Martinez S, Korobkin M. Computerized tomography in the diagnosis of tarsal coalition: a clinical and anatomic study. *Orthop Trans* 7(3):413, 1983.
5. Gilmer PW, **Herzenberg JE**, Frank JL, Goldner JL. Calcaneus fracture: diagnosis and treatment improved by use of computerized tomography. *Orthop Trans* 9(1):57, 1985.
6. **Herzenberg JE**, Gilmer PW, Martinez S, Goldner JL. Computerized tomography for disorders of the foot and ankle. *Orthop Trans* 9(3):553, 1985.
7. Ross D, Green NE, Coonrad R, **Herzenberg J**. Surgical treatment of adolescent idiopathic scoliosis with interspinous segmental instrumentation. *Orthop Trans* 10(1):35, 1986.
8. Greene NE, Ross D, Coonrad R, **Herzenberg JE**. The correction of adolescent idiopathic scoliosis with interspinous segmental spinal instrumentation. *Orthop Trans* 11:1:48–49, 1987.
9. **Herzenberg JE**, Carroll NC, Christofersen MR, Lee EH. Three-dimensional computer modeling of clubfoot deformity. *Orthop Trans* 11(3):517, 1987.
10. **Herzenberg JE**, Carroll NC, Hochhauser L, Armstrong DC. Cervical spine abnormalities in Crouzon's syndrome. *Orthop Trans* 11(1):14, 1987.
11. **Herzenberg JE**, Carroll NC, Christofersen MR, Lee EH. Three-dimensional computer modeling of clubfoot deformity. *Orthop Trans* 12(2):271, 1988.
12. **Herzenberg JE**, Harrelson JM, Campbell DC, Lachiewicz PF, Friedman RJ. Fractures of the polyethylene bearing insert in Bateman bipolar hip prostheses. *Orthop Trans* 12(3):742, 1988.
13. **Herzenberg JE**, Hensinger RN, Dedrick DK, Phillips WA. Emergency transport and positioning of the young child with a cervical spine injury: The standard backboard may be hazardous! *Orthop Trans* 12(1):44, 1988.
14. **Herzenberg JE**, Hensinger RN, Dedrick DK, Phillips WA. Emergency transport and positioning of the young child with a cervical spine injury: The standard backboard may be hazardous! *Orthop Trans* 12(2):231, 1988.

15. **Herzenberg JE**, Hensinger RN, Dedrick DK, Phillips WA. Emergency transport and positioning of young children with cervical spine injuries: The standard backboard may be hazardous! *Orthop Trans* 12(3):685, 1988.
16. **Herzenberg JE**, Koreska J, Carroll NC, Rang M. Biomechanical testing of pin fixation in pediatric supracondylar elbow fractures. *Orthop Trans* 12(3):678–679, 1988.
17. Kruger DM, Hak DJ, Goldstein SA, Viviano DM, **Herzenberg JE**. Single versus double pin fixation for acute slipped capital femoral epiphysis (SCFE). *Orthop Trans* 12(3):563, 1988.
18. Kruger DM, Hak DJ, Viviano DM, Goldstein SA, **Herzenberg JE**. Biomechanical comparison of single and double Steinmann pin fixation for slipped capital femoral epiphysis. *Orthop Trans* 12(2):485, 1988.
19. Goulet JA, **Herzenberg JE**, Phillips WA, Kolowich P, Hensinger RN. Seat belt fractures in children: smaller people, bigger problems. *Pediatr Trauma Acute Care* 2(10):48, 1989.
20. Ashton-Miller JA, McGlashen KM, **Herzenberg JE**, Stohler CS. Cervical muscle response to experimentally-induced muscle pain. *Orthop Trans* 14(3):701, 1990.
21. Fish DN, **Herzenberg JE**, Hensinger RN. Current practice in the use of pre-reduction traction for congenital dislocation of the hip. *Orthop Trans* 14(3):571–572, 1990.
22. **Herzenberg JE**, Hensinger RN, Dedrick DK, Phillips WA. Emergency transport positioning of young children with cervical spine injuries: The standard backboard may be hazardous! *Year Book of Family Practice* 1990.
23. **Herzenberg JE**, Waanders NA, Closkey RA, Schultz AB, Hensinger RN. Spinous process angle versus Cobb angle in adolescent idiopathic scoliosis: The relationship of the anterior and posterior deformities. *Orthop Trans* 14(3):731–732, 1990.
24. Fish DN, **Herzenberg JE**, Hensinger RN. Current practice in the use of pre-reduction traction for congenital dislocation of the hip. *Orthopaedics/Rheumatology Digest* 1991.
25. Fish DN, **Herzenberg JE**, Hensinger RN. Current practice in the use of pre-reduction traction for congenital dislocation of the hip. *Orthop Trans* 15(3):630, 1991.
26. **Herzenberg JE**, Waanders NA, Goulet JA. Duration of distraction nomogram for the Ilizarov method of deformity correction. *Orthop Trans* 15(1):108, 1991.
27. Farley FA, Hensinger RN, **Herzenberg JE**, Wylie RJ. Cervical spinal cord injury in children. *Orthop Trans* 16(1):2, 1992.
28. **Herzenberg JE**, Goulet JA. Percutaneous proximal femoral osteotomies with simultaneous distal femoral lengthening. *Orthop Trans* 16(1):13, 1992.

29. Parkin JD, Goulet JA, **Herzenberg JE**. Treatment of lower extremity malunions and posttraumatic physeal arrest deformities using distraction osteogenesis. *Orthop Trans* 16(1):60, 1992.
30. Parkin JD, **Herzenberg JE**, Goulet JA. Ilizarov method in femoral reconstructive surgery. *Orthop Trans* 16(2):360, 1992.
31. Parkin JD, **Herzenberg JE**, Goulet JA. Treatment of lower extremity malunions and posttraumatic physeal arrest deformities using distraction osteogenesis. *Orthop Trans* 16(1):238, 1992.
32. Raskas DS, Graziano GP, **Herzenberg JE**, Heidelberger KP, Hensinger RN. Osteoid osteoma and osteoblastoma of the spine. *Orthop Trans* 16(2):314, 1992.
33. Waanders NA, **Herzenberg JE**. Simultaneous correction of angulation and rotation with inclined hinges. *Bull Hosp Joint Dis* 52:47, 1992.
34. Waanders NA, **Herzenberg JE**, Goulet JA. A morphologic study of the regenerate bone structure in the early stages of distraction osteogenesis. *Bull Hosp Joint Dis* 52:47–48, 1992.
35. Graziano GP, **Herzenberg JE**, Hensinger RN. Ambulatory halo-cast distraction for cervical deformities. *Orthop Trans* 16(3):737, 1992–1993.
36. Raskas DS, Graziano GP, **Herzenberg JE**, Heidelberger KP, Hensinger RN. Osteoid osteoma and osteoblastoma of the spine. *Orthop Trans* 16(3):733, 1992–1993.
37. **Herzenberg JE**, Greenfield ML. Prospective randomized treatment trial for resistant metatarsus adductus. *Orthop Trans* 17(1):79, 1993.
38. **Herzenberg JE**, Greenfield ML. Prospective randomized treatment trial for resistant metatarsus adductus. *Orthop Trans* 17(1):175, 1993.
39. Loder RT, Farley FA, **Herzenberg JE**, Hensinger RN, Kuhn JL. Assessment of pelvis bone age in children with slipped capital femoral epiphyses (SCFE). *Orthop Trans* 17(1):79, 1993.
40. Loder RT, Farley FA, **Herzenberg JE**, Hensinger RN, Kuhn JL. Assessment of pelvis bone age in children with slipped capital femoral epiphyses (SCFE). *Orthop Trans* 17(1):174, 1993.
41. Paley D, **Herzenberg JE**, Desai R, Maar D. External fixation correction of Blount's disease. *Orthop Trans* 17(2):395, 1993.
42. Paley D, **Herzenberg JE**, Maar D, Tetsworth KT. Femoral lengthening by simultaneous external fixation and intramedullary rodding. *J Orthop Trauma* 7(2):178, 1993.
43. Paley D, **Herzenberg JE**, Maar D, Tetsworth KT, Goulet JA. Femoral lengthening by simultaneous external fixation and intramedullary rodding. *Orthop Trans* 17(2):398, 1993.

44. Raskas DS, Graziano GP, **Herzenberg JE**, Hensinger RN, Heidelberger KP. Osteoid osteoma and osteoblastoma of the spine. *Orthop Trans* 16(3):167, 1993.
45. Graziano GP, **Herzenberg JE**, Hensinger RN. Ambulatory halo-cast distraction for cervical deformities. *Orthop Trans* 17(3):597, 1994.
46. **Herzenberg JE**, Greenfield ML. Prospective randomized treatment for resistant metatarsus adductus. *Orthop Trans* 17(4):1031, 1994.
47. **Herzenberg JE**, Greenfield ML. Prospective randomized treatment for resistant metatarsus adductus. *Orthop Trans* 18(1):58, 1994.
48. **Herzenberg JE**, Paley D, Desai R, Saunders C. External fixation correction of Blount's disease. *Orthop Trans* 17(4):954, 1994.
49. **Herzenberg JE**, Wolff G, Paley D. Photocopy reduction of long standing x-rays for preoperative osteotomy planning. *Orthop Trans* 17(4):1195, 1994.
50. Hillibrand AS, Goulet JA, Greenfield ML, **Herzenberg JE**. A comparison of femoral lengthening and closed femoral shortening in treating anisomelia. *Orthop Trans* 17(4):952, 1994.
51. Hillibrand AS, Goulet JA, Greenfield ML, **Herzenberg JE**. A comparison of femoral lengthening and closed femoral shortening in the treatment of limb length inequality. *Orthop Trans* 17(3):598, 1994.
52. Paley D, **Herzenberg JE**, Maar D, Tetsworth KT, Goulet JA. Femoral lengthening by simultaneous external fixation and intramedullary rodding. *Orthop Trans* 17(4):953, 1994.
53. Paley D, **Herzenberg JE**, Maar D, Tetsworth KT, Goulet JA. Femoral lengthening by simultaneous external fixation and intramedullary rodding. *Orthop Trans* 18(1):14, 1994.
54. Waanders NA, Kuhn JL, **Herzenberg JE**, Goulet JA. The mechanical and physical properties of regenerate bone in a canine model of distraction osteogenesis. *Orthop Trans* 17(3):815, 1994.
55. Bhargava A, Paley D, **Herzenberg JE**, Shah S. Distraction treatment for hypertrophic nonunions. *Orthop Trans* 20(1):135, 1996.
56. Bright A, Weiner I, Paley D, **Herzenberg JE**, Suter C. Leg lengthening: manual versus motorized distraction. *Orthop Trans* 20(1):46, 1996.
57. Bright A, Weiner I, Paley D, **Herzenberg JE**, Suter C. Leg lengthening: manual versus motorized distraction. *Orthop Trans* 20(1):193, 1996.
58. Aita DJ, Bhave A, **Herzenberg JE**, Paley D, Cannada L. Do PTB casts unload the foot? *Orthop Trans* 21(1):302–303, 1997.
59. Keenan WN, **Herzenberg JE**, Paley D. Normal lower extremity radiologic alignment in children. *Orthop Trans* 21(1):355, 1997.

60. Keenan N, **Herzenberg JE**, Paley D. The normal radiological alignment of the lower limb in children. *Orthop Proc J Bone Joint Surg Br* 79[Suppl II]: 263–264, 1997.
61. Paley D, Bor N, **Herzenberg JE**, Bhave A. Intramedullary nail (IMN) fixation of metaphyseal and diaphyseal angular deformities of the femur and tibia. *Orthop Trans* 21(1):265, 1997.
62. De Deyne PG, Paley D, **Herzenberg J**. Limb lengthening does not induce muscle fiber type transformation. *Trans Orthop Res Soc* 1:167, 1998.
63. **Herzenberg JE**, Manzotti A, Paley D. Tibial lengthening over nails. *Orthop Trans* 21(4):1120, 1997–1998.
64. Radler C, Myers A, Burghardt R, **Herzenberg JE**, Grill F. Pränatale Diagnose Klumpfuß. *Geburtsh Frauenheilk* 69:452, 2009.

Other Brief Communications

Letters to the Editor

1. **Herzenberg JE**. CT of calcaneal fractures. *AJR Am J Roentgenol* 146(3):644–645, 1986.
2. **Herzenberg JE**, Phillips WA, Hensinger RN, Loos PJ. Osteoid-osteoma: intraoperative tetracycline-fluorescence demonstration of the nidus. *J Bone Joint Surg Am* 69(2):310–311, 1987.
3. Saltzman CL, **Herzenberg JE**, Phillips WA. What nononcologists need to know about MEN IIb. *Oncology* 2(6):15, 1988.
4. **Herzenberg JE**. Volunteer work: International Organization for Migration. *Contemp Orthop* 28:308–310, 1994.
5. **Herzenberg JE**. Clarification of biblical reference. *Orthop Today* 19(1):7, 1999.
6. **Herzenberg JE**. Slipped capital femoral epiphysis. *Can J Surg* 42(6):470–471, 1999.
7. Patel M, Paley D, **Herzenberg JE**. Limb-lengthening versus amputation for fibular hemimelia. *J Bone Joint Surg Am* 84(2):317–319, 2002.

Book Reviews and Miscellaneous

1. **Herzenberg JE**. Book review: *Transosseous Osteosynthesis*, by G.A. Ilizarov. *N Engl J Med* 329:365, 1993.
2. **Herzenberg JE**. Report of the 1995 ABC traveling fellows. *J Bone Joint Surg Am* 77:1736–1741, 1995.

3. **Herzenberg JE.** Book review on Internet: *Congenital Clubfoot: Fundamentals of Treatment*, by Ignacio Ponseti. amazon.com June 15, 1999.
4. **Herzenberg JE.** Book review on Internet: *Congenital Clubfoot: Fundamentals of Treatment*, by Ignacio Ponseti. barnesandnoble.com June 15, 1999.
5. Defino T. Internet interview of **Herzenberg JE.** Positive Results Shown with Limb Lengthening beyond Typical Limit. *WebMD Medical News* March 30, 2000.
6. Paley D, Bhave A, **Herzenberg JE**, Bowen JR. Comparison of methods for prediction of lower-extremity growth (reply). *J Bone Joint Surg Am* 38:1109–1110, 2001.
7. Patel M, Paley D, **Herzenberg JE.** Fibular hemimelia: vomparison of outcome measurements after amputation and lengthening (letter). *J Bone Joint Surg Am* 84:317–319, 2002.
8. **Herzenberg JE.** Editorial and commentary on clubfoot in ICL pediatrics 2007–AAOS.

Published Multimedia

1. Harrelson JM, **Herzenberg JE.** Meniscal Motion: Radiographic and Anatomic Demonstration. American Academy of Orthopaedic Surgeons Course: “Winter Sports Injuries.” Snowmass, CO, January 1983.
2. **Herzenberg JE.** Adolescent Tibial Lengthening + Foot Extension and Procurvatum Correction. Richards Medical Company, Memphis, TN, May 1992.
3. **Herzenberg JE.** Femoral Lengthening. Richards Medical Company, Memphis, TN, May 1992.
4. **Herzenberg JE.** Ponseti Clubfoot Management. Rubin Institute for Advanced Orthopedics, Baltimore, MD, 2003.
5. Paley D. *Principles of Deformity Correction Text and Image Library on CD.* Berlin: Springer-Verlag, 2003 (**Herzenberg JE** provided editorial assistance).
6. **Herzenberg JE**, Paley D. *Preoperative Planning for the Taylor Spatial Frame: Interactive Animated CD.* Baltimore: Rubin Institute for Advanced Orthopedics, 2004.
7. **Herzenberg JE**, Paley D, Lamm BM. *Preoperative Planning for the Taylor Spatial Frame: Interactive Animated CD-ROM.* Baltimore: Rubin Institute for Advanced Orthopedics, 2005.
8. **Herzenberg JE**, Paley D, Lamm BM. *Preoperative Planning for the Taylor Spatial Frame: Interactive Animated CD-ROM.* Baltimore: Rubin Institute for Advanced Orthopedics, 2006.

Major Invited Speeches**International Invited Lectures**

- January 1986** University of Toronto, Clement Sledge Visiting Professor
Toronto, Ontario, Canada
Three-dimensional Computer Analysis of Clubfoot
- October 1989** University of Toronto Hospital for Sick Children Ilizarov Method
Course, Advanced Pediatric Applications
Toronto, Ontario, Canada
Hinge Placement for Deformity Correction and Calculation of Rate
of Correction
- August 1991** Ilizarov Method Course
Narita, Japan
Femoral Lengthening: Method and Results
Hardware Hints
Knee Contractures
Rate of Correction
Ring Sizing
Wire Insertion Techniques
- October 1991** Ilizarov Symposium: Femoral Lengthening
Cologne, Germany
Foot Constructs
Segment Transport: Technique, Problems
Treatment of Knee Contractures
- October 1991** Ilizarov Technique Course, Course Instructor
Lecco, Italy
Biomechanics of the Ilizarov Apparatus
- March 1992** Avances Recientes en el Tratamiento, XXI Curso
Actualizacion en Traumatologia y Ortopedia, Sociedad de
Ortopedia y Traumatologia de Nuevo León, Departamento
del S.M.E. del Hospital Universitario de la U.A.N.L.,
Invited Professor
Monterrey, Nuevo León, Mexico
Biomechanics of External Fixation Devices (Ilizarov)
Femoral Alignment with the Ilizarov Device
Tibial Alignment with the Ilizarov Device
Pseudarthrosis
Calcaneal Fractures
Bone Defects

- June 1992** University of Antwerp Ilizarov Conference, Invited Speaker
Antwerp, Belgium
Introduction to the Ilizarov Method
Congenital Pseudarthrosis of the Tibia
Calcaneal Fractures
Preoperative Planning for Limb Lengthening
- August 1992** Ilizarov Method Course, Course Instructor
Otsu, Japan
Biomechanics of the Ilizarov System
Tibial Fixation
Femoral Fixation
Preoperative Evaluation of Limb Length Discrepancy
Postoperative Management and Physical Therapy
Femoral Lengthening
Calculating Rate of Distraction
Knee and Elbow Contractures
- August 1992** Kyung Hee University, Ilizarov Method Course, Essential
Concepts of the Ilizarov Technique, Course Co-Chairman
Seoul, Korea
Biomechanics of the Ilizarov System
Tibial Fixation
Femoral Lengthening
Rate of Correction
Mechanical Axis Realignment
Joint Contractures
- October 1992** Eighth Annual Review Update in Adult Orthopaedics, Royal
Victoria Hospital
Montréal, Québec, Canada
Treatment of Malunions with the Ilizarov Fixator
Treatment of Nonunions with Circular External Fixation:
General Principles
- November 1992** Advanced Orthofix External Fixation Tutorial
Verona, Italy
Femoral Lengthening over Intramedullary Rods
- March 1993** International Symposium on Limb Lengthening, Charité
University Hospital
Berlin, Germany
Femoral Lengthening over Nails
Preoperative Planning of Deformity Correction
- May 1993** 3rd Annual Meeting of the Southern Orthopaedic Association,
Current Concepts in Orthopaedics, Speaker and Head of
Pediatric Section Meeting Planning Committee
Baltimore, MD
Limb Lengthening in Children

- June 1993** First Meeting of the Japan-Russia Orthopaedic Society,
Niigata, Japan
Halo-Cast Distraction for Cervical Deformities
Femoral Lengthening over Nails
- April 1994** USA-Russia Satellite TELEMED Link-Up
Fairfax, VA
Femoral Lengthening Techniques
- June 1994** Intermediate Ilizarov Method Course, Course Co-Director
Surrey, England
Wires and Half-Pins: Which and Where?
Analysis of Deformity
Sagittal and Oblique Plane Deformities
Blount's Disease
Knee Contractures
How I Treat Stiff Nonunions
Acute Shortening and Relengthening
Pitfalls and How to Avoid Them
- October 1994** International Symposium on Limb Lengthening for
Dwarfing Conditions, Tel Aviv University
Tel Aviv, Israel
Strategies for Lengthening in Achondroplasia and Other
Dwarfing Conditions
- November 1994** Advanced Korean Ilizarov Method Course
Seoul, Korea
Lower Extremity Malalignment
Pins and Wires: When and Where?
Lengthening in Achondroplasia
Femoral Lengthening over Nails
Foot Frames
Pitfalls and How to Avoid Them
Stiff Nonunions
- October 1995** Basic Ilizarov Method Course
Lake Windermere, England
History of Ilizarov Method
Tibial and Femoral Lengthening
Tibial Deformity Correction
Bone Infection
Nonunions: General Considerations
- October 1995** International Society for Fracture Repair Workshop on Nonunions
Manchester, England
Hypertrophic Nonunions
- March 1996** 2nd Annual Meeting of the Chinese External Fixation Society
Shenzhen, People's Republic of China
External Fixation for Limb Lengthening and Realignment

- March 1996** Grand Rounds, Maisonneuve-Rosemont Hospital
Orthopaedic Surgery
Montréal, Québec, Canada
Ilizarov Approach to Nonunions
- April 1996** Shriners Hospital, Montréal Unit
Montréal, Québec, Canada
Basic Ilizarov Course
- April 1996** St. Justine Annual Pediatric Review Course: Limb
Lengthening Techniques
Montréal, Québec, Canada
Congenital Pseudarthrosis of the Tibia
- July 1996** Intermediate Japan Ilizarov Method Course
Tokyo, Japan
Lower Extremity Malalignment
Lower Extremity Pins and Wires
Lengthening through Nonunions
Femoral Lengthening
Corticotomy
Principles of Deformity Correction
Stiff Nonunions
- September 1996** 5th Annual Baltimore Limb Deformity Course
Baltimore, MD
Various Lectures
- November 1996** International Seminar in the Ilizarov Technique
Houston, TX
Ten Years in the USA: Knee Flexion Contractures and Femoral
and Tibial Lengthening over Nails
- September 1997** 6th Annual Baltimore Limb Deformity Course
Baltimore, MD
Various Lectures
- January 1998** Ilizarov Method Course
Vienna, Austria
Deformity Correction of Proximal and Distal Femur
Lengthening over Nails
Basic Principles of Deformity Correction
Hypertrophic Nonunions
- January 1998** Visiting Professor, Vienna Trauma Center
Vienna, Austria
Lengthening of Tibia and Femur over Intramedullary Nails

- March 1998** Annual Meeting of the Japanese External Fixation and Lengthening Society, Instructional Course Lecture, Presidential Guest Speaker
Kyoto, Japan
The Osteogenic Potential of Long Bone Nonunions
- March 1998** Visiting Professor, Kansei Medical University
Osaka, Japan
Lengthening of Tibia over Intramedullary Nails
- May 1998** Southern Orthopaedic Association Update Course
Baltimore, MD
Clubfoot Update
- September 1998** 7th Annual Baltimore Limb Deformity Course
Baltimore, MD
Various Lectures
- January 1999** Ilizarov Method Course
Vienna, Austria
Deformity Correction of Femur
Lengthening over Nails
Planning Workshop for Frontal Plane Tibia
Planning Workshop for Frontal Plane Femur
Planning Workshop for Sagittal Plane Tibia and Femur
- January 1999** Visiting Professor, Vienna Children's Hospital
Vienna, Austria
Ponseti's Method of Clubfoot Correction
- September 1999** 9th Annual Baltimore Limb Deformity Course
Baltimore, MD
Various Lectures
- October 1999** Ilizarov Method Course
Alexandria, Egypt
External Fixation Using the Ilizarov Method
- November 1999** Egyptian Orthopaedic Association Annual Meeting, Instructional Course Lecture
Alexandria, Egypt
Preoperative Planning
Lengthening over Nails
- September 2000** 10th Annual Baltimore Limb Deformity Course
Baltimore, MD
Various Lectures

- August 2001** 4th Annual International Pediatric Orthopaedic Symposium:
Ponseti Method of Nonoperative Clubfoot Management
Lake Buena Vista, FL
Correction Techniques for Lower Limb Deformities
Deformity Correction: Circular Fixation, Parts I and II
- September 2001** 11th Annual Baltimore Limb Deformity Course
Baltimore, MD
Various Lectures
- October 2001** 29th Annual Paediatric Orthopaedic Seminar & Townsend Lecture
Calgary, Alberta, Canada
Multiplier Method for Predicting Limb Length Discrepancy
Townsend Lecture: Controversies in Idiopathic Club
Foot Management
Management of Fibular Hemimelia
- March 2002** Advanced Limb Deformity Correction and Lengthening Course,
Prince of Wales Hospital
Sha Tin, Hong Kong, China
Limb Lengthening and Deformity Correction
- September 2002** 12th Annual Baltimore Limb Deformity Course
Baltimore, MD
Various Lectures
- November 2002** International Institute for the Advancement of Medicine Fall
Clinical Symposium: Current Concepts in the Management
of Clubfoot
Clarks Summit, PA
Metatarsus Adductus
Tarsal Coalition, Torsional Deformities, and Other Complex Foot
and Ankle Deformities
Hands-on Clubfoot Casting Workshop of the Ponseti Method for
Correction of Idiopathic Talipes Equinovarus
- December 2002** 5th Annual International Pediatric Orthopaedic Symposium
Lake Buena Vista, FL
Deformity Analysis and Osteotomy Planning: Lecture
Demonstration
Correction Techniques for Lower Limb Deformities
Ponseti Method of Clubfoot Correction
- September 2003** Baltimore Limb Deformity Pre-Course: Intramedullary Skeletal
Kinetic Distractor Surgeon Training Course
Baltimore, MD
Assessment of Limb Length Discrepancy and Other Preoperative
Patient Considerations
Uncomplicated Case Examples and ISKD Method: Femur

- September 2003** Baltimore Limb Deformity Pre-Course: Advances and Controversies in Limb Lengthening
Baltimore, MD
Multiplier Method for Prediction of Height
Treatment of Congenital Pseudarthrosis of the Tibia
Extensive Limb Lengthening for Achondroplasia: Baltimore Strategies
- September 2003** Co-Director, 13th Annual Baltimore Limb Deformity Course
Baltimore, MD
Frontal Plane Malalignment and Malorientation Tests (Planning Workshop)
Femoral Uniapical Deformities (Planning Workshop)
Oblique Plane Deformities (Planning Workshop)
Rotational Deformities
Acute Correction and Role of Nerve Decompression
Tibial and Femoral Multiapical Deformities (Planning Workshop)
Knee Joint Flexion Contractures
Rate and Order of Correction for Circular and Monolateral Fixators
Ankle and Ankle Arthrodesis Deformities
Fixator-Assisted Nailing
- September 2003** Director, Baltimore Limb Deformity Post-Course: Ponseti Method for Clubfoot Treatment
Baltimore, MD
Introduction to Ponseti Method
- January 2004** Pre-Course Symposium: Ponseti Method in Clubfoot Treatment
Vienna, Austria
Introduction to the Ponseti Method
Treatment of Early Relapse with the Ponseti Method
- January 2004** Advanced Technologies in External Fixation
Vienna, Austria
Normal Lower Limb Malalignment and Joint Orientation
Malalignment and Malorientation Tests (Planning Workshop)
Lab: Lengthening over Nail: Femur (Jet-X Bar (Unilateral) and TriGen Nail)
Lab: Lengthening over Nail: Tibia (Ilizarov and TriGen Nail)
Osteotomy Rules and Tibial Osteotomies
Tibial and Femoral Uniapical Deformity Planning and Osteotomies (Planning Workshop)
Sagittal Planning
Tibial and Femoral Multiapical Deformity Planning (Planning Workshop)
Principles of Deformity Correction
New Aspects in Taylor Spatial Frame Planning

- January 2004** ASAMI-Israel Meeting
Tel Aviv, Israel
Taylor Spatial Frame—Is the Ilizarov Frame Obsolete?
Preoperative Planning for the Taylor Spatial Frame
- March 2004** 17th Annual Ste-Justine Paediatric Orthopaedic Review Course
Montréal, Québec, Canada
Conservative Treatment of Clubfoot: Have We Reached
a Consensus?
The Many Faces of Flat Foot
New Trends in Limb Deformity Correction: The Taylor Frame
- March 2004** 10th Annual Montréal Ilizarov Course
Montréal, Québec, Canada
Nonunions and Infected Nonunions
Workshop: Bone Lengthening
- July 2004** 14th Annual Meeting of the Limb Lengthening and
Reconstruction Society
Toronto, Ontario, Canada
Master's Demonstration: ISKD Nail
- August 2004** 17th Japanese External Fixation Meeting
Tokushima, Japan
Recent Experience with the Taylor Spatial Frame
- September 2004** Baltimore Limb Deformity Pre-Course: ISKD Surgeon
Training Course
Baltimore, MD
Assessment of Limb Length Discrepancy and Other Preoperative
Patient Considerations
- September 2004** Director for the Baltimore Limb Deformity Pre-Course: Ponseti
Method for Clubfoot Treatment
Baltimore, MD
Introduction to the Ponseti Method
Why the Ponseti Method Works
Identifying and Managing Relapses
- September 2004** Co-Director for the 14th Annual Baltimore Limb Deformity Course
Baltimore, MD
Frontal Plane Malalignment and Malorientation Tests
(Planning Workshop)
Femoral Uniapical Deformities (Planning Workshop)
Osteotomy Rules and Femoral Osteotomies
Hinge Concepts for Circular Fixators
Cadaver Lab
Knee Joint Flexion Contractures
Role and Methods of Nerve Decompression
Ilizarov Lab
Rotation Deformities: Osteotomy Treatment Methods

Tibial and Femoral Multiapical Deformities (Planning Workshop)
 Acute Deformity Correction Using the Orthofix Apparatus
 Taylor Spatial Frame Lab
 Ankle Malalignment Treated by Taylor Spatial Frame
 Pelvic Support Osteotomy with Monolateral External Fixation

September 2004

Baltimore Limb Deformity Post-Course: First X-Frames
 Course—Taylor Spatial X-Frames: X-ceptional,
 X-treme, X-cetera
 Baltimore, MD
 X-Cases in Upper Extremity, Tibia, Femur, and Foot: Examples
 with Spatial Frame

October 2004

Orthofix Course on Paediatric Orthopaedics and Traumatology
 Bussolengo, Italy
 Predicting Limb Length Discrepancy and Predicting Mature Height
 Planning for Deformity Correction
 Pelvic Support Osteotomy with Monolateral External Fixation
 Knee Joint Contractures

December 2004

1st Annual POSNA/AAOS International Pediatric
 Orthopaedic Symposium
 Orlando, FL
 Foot and Ankle Deformities Managed with External Fixation
 Ponseti Method of Nonoperative Management
 Taylor Spatial Frame Lab: Preoperative Planning
 Taylor Spatial Frame Lab: Distal Femoral Deformity
 Taylor Spatial Frame: Upper Extremity
 Intramedullary Skeletal Kinetic Distractor: Assessment of Limb
 Length Discrepancy and Preoperative
 Patient Considerations
 Rehabilitation of the Intramedullary Skeletal Kinetic
 Distractor Lengthening

January 2005

Advanced Technologies in External Fixation Course
 Vienna, Austria
 Normal Lower Limb Alignment and Joint Orientation
 Malalignment, Malorientation Tests and Osteotomy Rules
 (Planning Workshop)
 Taylor Spatial Frame Planning
 Tibial and Femoral Uniapical Deformity Planning and Osteotomies
 (Planning Workshop)
 Lab: Lengthening over Nail—Tibia: Ilizarov Ring Fixator and
 TriGen Nail
 Sagittal Planning
 Tibial and Femoral Multiapical Deformity Planning
 (Planning Workshop)
 Secrets of the Master Tab
 Intramedullary Lengthening

- February 2005** Taylor Spatial Frame Course
Haifa, Israel
U Osteotomy Constructs
Clubfoot Constructs: Taylor Spatial Frame
- September 2005** Baltimore Limb Deformity Pre-Course: Lengthening
Reconstruction Surgery for Congenital Limb Deficiencies
Baltimore, MD
Lengthening for Fibular Hemimelia: Paley Types I & II
Treatment and Prevention of Complication for Fibular Hemimelia
Reconstruction for Jones Type 4 Tibial Hemimelia:
Other Strategies
Congenital Femoral Deficiency Hip Deformities
Pelvic Osteotomy for Congenital Femoral Deficiency
Lengthening for Paley Type 1a Congenital Femoral Deficiency
Treatment and Prevention of Complications of Congenital Femoral
Deficiency Lengthening
- September 2005** Co-Director for the 15th Annual Baltimore Limb Deformity Course
Baltimore, MD
Frontal Plane Malalignment and Malorientation Tests
(Planning Workshop)
Femoral Uniapical Deformities (Planning Workshop)
Taylor Spatial Frame Lab (Organizer)
Knee Joint Flexion Contractures: Operative Treatment
Rotational Deformities: Osteotomy Treatment Methods
Tibial and Femoral Multiapical Deformities (Planning Workshop)
Treatment of Ankle Contractures
- September 2005** Baltimore Limb Deformity Post-Course: Foot Deformity Correction
with the Taylor Spatial Frame
Baltimore, MD
U Osteotomy Constructs
Clubfoot Constructs: Taylor Spatial Frame
- September 2005** Baltimore Limb Deformity Post-Course: Intramedullary Skeletal
Kinetic Distractor Surgeon Training
Baltimore, MD
Assessment of LLD and Other Preoperative
Patient Considerations
- September 2005** Manchester International Clubfoot Conference
Manchester, United Kingdom
Introduction to the Ponseti Method
Radiologic Aspects of Ponseti Treatment
Achilles Tenotomy during Ponseti Treatment
Recapitulating the Ponseti Sequence with the Taylor
Spatial Frame
External Fixation for Treatment of Relapsed Clubfoot

- November 2005** 25th Annual Congress of the Hong Kong Orthopaedic Association
Hong Kong, China
Evolution of Clubfoot Treatment: Ponseti Technique
Multiplier Method for Predicting Height and Limb Length
Discrepancy and Timing of Epiphysiodesis
Limb Lengthening with Self Lengthening Telescopic Nail
- November 2005** 25th Annual Congress of the Hong Kong Orthopaedic Association,
Lengthening Workshop: Advanced Limb
Deformity Correction
Hong Kong, China
Lengthening and Deformity Correction with the Taylor
Spatial Frame
Preoperative Planning (CORA)
Clinical Applications of Pelvic Support Osteotomy
Congenital Femoral Deficiency
Complex Deformity Correction: Taylor Spatial Frame
Complex Deformity Correction: Pelvic Support Osteotomy
(Orthofix Limb Reconstruction System [LRS])
- January 2006** Taylor Spatial Frame Ilizarov Course
Vienna, Austria
Pre-Course Cadaver Lab
Advanced TSF Planning
Demonstration Lab: Deformity Correction (Foot)
Foot Correction with the Taylor Spatial Frame
- June 2006** 31st Annual Meeting of the Japanese Society for Surgery of
the Foot
Sapporo, Japan
External Fixation for Complex Foot and Ankle Deformities
Ponseti Method of Clubfoot Treatment
- June 2006** Taylor Spatial Frame Course
Sapporo, Japan
Introduction to the Taylor Spatial Frame
Preoperative Planning Methods for the Taylor Spatial Frame
Hands-On Lab: Tibial Malunion
Preoperative Planning Strategies
Rotary Frame Offset
Taylor Spatial Frame for Foot
Hands-On Lab: Ankle Equinus
- September 2006** Baltimore Limb Deformity Pre-Course: New Treatment Concepts
for the Management of Knee Contractures
Baltimore, MD
Muscle Tendon Lengthening and Capsulotomy for the Operative
Treatment of Knee Flexion Contractures
Mechanical Distraction Treatment of Kneed Flexion Contractures

Demonstration Lab: Ilizarov Fixator, Taylor Spatial Frame, Compass Hinge, and Orthofix Device for Contractures of the Knee (Lab Organizer)

Cadaver Lab: Judet Quadricepsplasty, Peroneal Nerve Decompression, and Posterior Capsulotomy (Lab Organizer)

September 2006

Co-Director, Baltimore Limb Deformity Pre-Course: Ponseti Method for Clubfoot Treatment

Baltimore, MD

Introduction to the Ponseti Method

Tenotomy Techniques

Ponseti's Video: Treating Atypical Clubfoot

Ponseti-Inspired External Fixation Treatment for Older Children With Previously Operated Clubfoot

September 2006

Co-Director for the 16th Annual Baltimore Limb Deformity Course
Baltimore, MD

Frontal Plane Malalignment and Malorientation Tests
(Planning Workshop)

Femoral Uniapical Deformities (Planning Workshop)

Taylor Spatial Frame Lab (Lab Organizer)

Knee Joint Flexion Contractures: Operative Treatment

Acute Correction of Deformities with the Use of External Fixation

Rotation Deformities: Osteotomy Treatment Methods

Tibial and Femoral Multiapical Deformities (Planning Workshop)

Treatment of Ankle Contractures

Guided Growth (Hemiepiphyodesis): New Concepts and Methods

September 2006

Baltimore Limb Deformity Post-Course: External Fixation for Lengthening Reconstruction Surgery of the Upper Extremity

Baltimore, MD

Lengthening of the Humerus for Patients with Achondroplasia

Humeral Lengthening Lab (Organizer)

Lab and Lecture: Treatment of Distal Radius Malunion and Growth Arrest by Using the Ilizarov External Fixator and the Taylor Spatial Frame (Lab Organizer)

November 2006

3rd Seminar on the Indications and Application Techniques of the Ilizarov Apparatus

Athens, Greece

Lengthening over Nail and Fixator-Assisted Nailing

Ilizarov Hip Reconstruction

Introduction to the Taylor Spatial Frame

Preoperative Planning for the Taylor Spatial Frame

November 2006

Visiting Professor, Department of Orthopaedic Surgery, University of Athens, School of Medicine

Athens, Greece

Osteotomy Rules
 Preoperative Planning: CORA Method
 Introduction to the Ponseti Method
 How to Handle Relapses and Atypical Feet
 Hands-On Lab: Ponseti Method

April 2007

26th Annual Meeting of the European Paediatric Orthopaedic Society Pre-Course: Congenital Deficiencies of the Lower Limb
 Sorrento, Italy
 Management of Knee Deformity: Superknee Reconstruction
 Classification of Fibular Hemimelia
 The Role of Physical Therapy in Lower Limb Deficiencies

August 2007

Baltimore Limb Deformity Pre-Course: Multi-Axial Correction (MAC®) Fixation System
 Baltimore, MD
 My Experience with the MAC

August 2007

Co-Director, Baltimore Limb Deformity Pre-Course: Ponseti Method for Clubfoot Treatment
 Baltimore, MD
 Introduction to the Ponseti Method
 Tenotomy Techniques
 Physician Demonstration of the Ponseti Casting Method
 Technique of Anterior Tibialis Tendon Transfer
 Ponseti-Inspired Taylor Spatial Frame Strategy for Children with Previously Operated Clubfoot

September 2007

Co-Director for the 17th Annual Baltimore Limb Deformity Course
 Baltimore, MD
 Frontal Plane Malalignment and Malorientation Tests (Planning Workshop)
 Femoral Uniapical Deformities (Planning Workshop)
 Lab: Taylor Spatial Frame (Lab Organizer)
 Knee Joint Flexion Contractures: Operative Treatment
 Acute Correction of Deformities with Fixator-Assisted Nailing
 Rotation Deformities: Osteotomy Treatment Methods
 Tibial Multiapical Deformities (Planning Workshop)
 Femoral Multiapical Deformities (Planning Workshop)
 Guided Growth (Hemiepiphysiodesis): New Concepts and Methods

September 2007

Baltimore Limb Deformity Post-Course: Hip Joint Deformity Correction and Preservation Techniques
 Baltimore, MD
 Pelvic Support Osteotomy: Technique and Indications

October 2007

World Congress on External Fixation: Limb Deformity Post-Congress Course
 Cairo, Egypt

- Femoral Uniapical Deformities (Planning Workshop)
 Knee Joint Flexion Contractures Treated by Distraction
 Acute Deformity Correction with Fixator-Assisted Plating or Nailing
 Guided Growth (Hemiepiphyodesis): New Concepts
 and Methods
 Rotational Deformities: Clinical and Radiographic Assessment and
 Osteotomy Treatment Methods
 Femoral Multiapical Deformities (Planning Workshop)
 TSF Lab (Instructor)
- October 2007** Orthofix Symposium: Deformity Correction—External versus
 Internal Fixation
 Cairo, Egypt
 Intramedullary Lengthening
- November 2007** 4th Annual POSNA/AAOS International Pediatric
 Orthopaedic Symposium
 Orlando, FL
 Taylor Spatial Frame for Foot Corrections: Indications
 and Principles
- December 2007** 27th Annual Meeting of the Israel Orthopaedic Association
 Tel Aviv, Israel
 Intramedullary Lengthening Nail
 Temporary Hemiepiphyodesis for Angular Deformity Correction
 Ponseti Clubfoot Method: Pitfalls and Promises
- February 2008** 2nd Annual Ponseti Australasian Symposium
 Sydney, Australia
 Pathoanatomy of Clubfoot
 Anterior Tibialis Transfer
 Taylor Spatial Frame for Clubfoot
 Radiology in the Ponseti Method
- August 2008** Baltimore Limb Deformity Pre-Course: Extensive Limb
 Lengthening for Achondroplasia
 Baltimore, MD
 Growth Prediction for Achondroplasia
- September 2008** Co-Director for the 18th Annual Baltimore Limb Deformity Course
 Baltimore, MD
 Femoral Uniapical Deformities (Planning Workshop)
 Lab: Taylor Spatial Frame (Organizer)
 Knee Joint Flexion Contractures: Operative Treatment
 Rotation Deformities: Osteotomy Treatment Methods
 Oblique Plane Deformities: Angulation and Translation
 (Planning Workshop)
 Tibial Multiapical Deformities (Planning Workshop)
 Femoral Multiapical Deformities (Planning Workshop)

Guided Growth (Hemiepiphysiodesis): New Concepts
and Methods
Pelvic Support Osteotomy

September 2008

Director, Baltimore Limb Deformity Post-Course: Pediatric
Foot Deformities
Baltimore, MD
Metatarsus Adductus: Nonoperative Treatment
Tarsal Coalition: Resection
Introduction to the Ponseti Method
Tenotomy Technique
Physician Demonstration of the Ponseti Casting Method (Plaster
versus Semirigid)
Atypical Clubfoot

January 2009

2nd Saudi Orthopaedic Association International Conference
Jeddah, Saudi Arabia
Treatment of Congenital Pseudarthrosis of the Tibia
Limb Lengthening for Achondroplasia
Ponseti Treatment of Clubfoot
Fixator Assisted Nailing/Plating for Deformity Correction

National Invited Lectures

- October 1988** Annual Fall Meeting and Scientific Symposium of the Florida Chapter of the American Academy of Orthotists and Prosthetists
Tallahassee, FL
Ilizarov Techniques for Limb Lengthening and Correction of Orthopaedic Deformities
- January 1989** Flower Hospital, Pediatric Update Conference: Pediatric Orthopedic Update
Sylvania, OH
Ilizarov Technique for Limb Length Inequality
- March 1989** Annual Spring Meeting and Scientific Symposium of the Florida Chapter of the American Academy of Orthotists and Prosthetists
Orlando, FL
Orthotic Management after Ilizarov Reconstruction for Limb Lengthening and Deformity Correction
- April 1990** Cleveland Clinic Course Introduction to the Ilizarov Method, Course Instructor
Independence, OH
Clinical Biomechanics of the Ilizarov External Fixator
The Ilizarov Method of Limb Lengthening and Deformity Correction
- April 1990** Los Alamitos Medical Center: Essential Concepts and Methodology for Application of the Ilizarov Technique
Rancho Las Palmas, CA
Management of Pseudoarthroses, Malunions, Bone and Soft Tissue Defects, and Fractures
Course Instructor: Safe Zones and Wire Formula for Femur
Preoperative Evaluation of Leg Length Discrepancy
Postoperative Single Level Tibial Lengthening
Method: Single Level Femoral Lengthening
Rate of Correction
- June 1990** University of Tennessee: Essential Concepts and Methodology for Application of the Ilizarov Technique
Orlando, FL
Management of Pseudoarthroses, Malunions, Bone and Soft Tissue Defects, and Fractures
Course Instructor: Safe Zones and Wire Formula for Femur
Preoperative Evaluation of Leg Length Discrepancy
Postoperative Single Level Tibial Lengthening
Method: Single Level Femoral Lengthening
Rate of Correction

- August 1990** University of Tennessee: Essential Concepts and Methodology for Application of the Ilizarov Technique
Memphis, TN
Management of Pseudoarthroses, Malunions, Bone and Soft Tissue Defects, and Fractures
Course Instructor: Nuts and Bolts
Clinical Biomechanics of Frames
Wire Insertion Techniques
Tibial and Femoral Wire Insertion and Ring Sizing
Limb Length Discrepancy, Start to Finish
Method of Single Level Femoral Lengthening
Deformity Correction Principles and Rate of Correction
Femoral Deformity, Start to Finish
Method for Preoperative Planning
- October 1990** Lower Extremity Fractures, Current Concepts, University of Michigan-General Motors-A.S.I.F. Postgraduate Education Course, Course Instructor
Ypsilanti, MI
Calcaneal Fractures: Evaluation and Classification
- October 1990** University of Arkansas: Ilizarov Method Course, Management of Specialized Pediatric Applications and Deformity Correction, Course Co-Chairman and Instructor
Kiawah Island, SC
Tibia Vara
Methods for Femoral Lengthening
- October 1990** University of Maryland Ilizarov Method Course: Advanced Applications for Lower Extremity Realignment, Course Instructor and Bioskills Instructor
Kiawah Island, SC
Advanced Rate of Correction Considerations
Malunion: Oblique Planar Deformity
Knee Contractures
- November 1990** University of Arizona: Essential Concepts and Methodology for Application of the Ilizarov Technique
Tucson, AZ
Management of Pseudoarthroses, Malunions, Bone and Soft Tissue Defects, and Fractures
Course Instructor and Bioskills Instructor: Tibial and Femoral Wire Insertion and Ring Sizing
Preoperative Evaluation of Limb Length Discrepancy
Postoperative Management for Tibial Lengthening
Method of Femoral Lengthening
Rate of Correction
Method for Preoperative Planning

- March 1991** Pediatric Orthopaedic Society of North America, Pediatric Cervical Spine Tutorial
Ann Arbor, MI
Cervical Anomalies in Crouzon Syndrome
Positioning Considerations in Children with Cervical Injuries
Halo-Cast Distraction for Cervical Deformities
- April 1991** Care of the Ilizarov Patient for Nurses and Other Allied Health Professionals, Course Instructor
San Antonio, TX
The Ilizarov Method: Biology Overview
- April 1991** University of Texas, Galveston: Essential Concepts and Methodology for Application of the Ilizarov Technique
San Antonio, TX
Management of Pseudoarthroses, Malunions, Bone and Soft Tissue Defects, and Fractures
Course Instructor: Tibial and Femoral Wire Insertion
Corticotomy Technique
Limb Length Discrepancy Evaluation
Deformity Correction Principles: Use of Hinges and Rate of Correction
Femoral Lengthening
Rate of Correction
Preoperative Planning for Deformity Correction of Tibia and Femur
Femoral Deformity
- June 1991** University of Maryland: Essential Concepts and Methodology for Application of the Ilizarov Technique
Orlando, FL
Management of Pseudoarthroses, Malunions, Bone and Soft Tissue Defects, and Fractures
- October 1991** Adult Reconstructive Techniques of the Ilizarov Method, Course Instructor
Kiawah Island, SC
Review of Hinges and Fulcrums and Review of Rate of Correction
- October 1991** Advanced Pediatric Applications of the Ilizarov Technique, Course Co-Chairman and Instructor
Kiawah Island, SC
Methods/Problems in Contracture Treatment
- October 1991** Application of the Ilizarov Technique to Foot Deformities, Course Instructor
Kiawah Island, SC
Basic Principles of Foot Frame Construction
- October 1991** Upper Extremity Applications of the Ilizarov Method, Course Instructor
Kiawah Island, SC

- Cross-Sectional Anatomy of the Forearm
The Short Ulna
Congenital Dislocation of the Radial Head: Review
- November 1991** Limb Lengthening Tutorial, Pediatric Orthopaedic Society of North America, Course Chairman, University of Maryland
Baltimore, MD
Principles of Limb Lengthening
- December 1991** Walter Reed Army Medical Center Ilizarov Method Course,
Course Instructor and Bioskills Instructor
Washington, DC
Wire Insertion Techniques
Preoperative Evaluation of Limb Length Discrepancy
Tibial Lengthening
Femoral Lengthening
Tibial Deformity
Complications
Preoperative Planning of Deformity Correction
- February 1992** Post-AAOS Tutorial on Lower Limb Deformities, Course Co-Chairman, University of Maryland
Baltimore, MD
Principles of Angular Deformity Correction with External Fixation
Rate of Correction
- April 1992** Ilizarov Method Course, Course Instructor, Texas Scottish Rite
Hospital for Crippled Children
Dallas, TX
Wire Insertion Techniques
Preoperative Evaluation of Limb Length Discrepancy
Tibial Lengthening
Femoral Lengthening
Tibial Deformity
Complications
Preoperative Planning of Deformity Correction
- October 1992** Annual Meeting of the Eastern Orthopaedic Association,
Invited Speaker
Dorado, Puerto Rico
Introduction to the Ilizarov Method and Treatment of Nonunions
- November 1992** Pediatric Orthopaedic Society of North America, Lower Extremity
Realignment and Lengthening Tutorial at the University of
Maryland, Course Co-Chairman
Baltimore, MD
Analysis of Deformity

- July 1993** University of Maryland Advanced Preoperative Planning Course
for the Ilizarov Method, Course Co-Chairman
Baltimore, MD
Frontal Plane Tibial Deformity Planning, Combined Femoral +
Tibial Planning, and Rotational Corrections
- December 1993** Regional Basic Ilizarov Method Course, Medical University of
South Carolina
Charleston, SC
Nonunion Treatment
- May 1994** 4th Annual Meeting of the Southern Orthopaedic Association,
Current Concepts in Orthopaedics
Baltimore, MD
Percutaneous Pinning for Slipped Capital Femoral Epiphysis
- October 1994** Walter Reed Army Medical Center, Basic Ilizarov Method Course
Washington, DC
Wire and Pins: Which and Where?
Postoperative Care in Limb Lengthening
Tibial Diaphyseal Fractures
Femoral Lengthening over Nails
Preoperative Planning of Deformity Correction
- September 1995** University of Maryland Lower Extremity Deformity Course,
Co-Chairman
Baltimore, MD
Frontal Plane Femoral Deformity Planning
Sagittal Plane: Femur and Tibia
Rotational Corrections and Inclined Osteotomies
- September 1995** University of Nebraska, Basic Ilizarov Course
Omaha, NE
History and Scope of Ilizarov Method
Femoral Lengthening: Changing Technologies
Bone Transport
Principles of Deformity Correction
Corticotomy
- October 1995** EBI External Fixation Course: Principles of Preoperative Planning
Parsippany, NJ
IM Lengthening
- December 1995** Visiting Professor, Shriner's Hospital Baystate Medical Center
Grand Rounds
Springfield, MA
Treatment of Fracture Nonunions
Preoperative Planning for Lower Extremity Deformity Correction

- December 1995** Shriner's Hospital Springfield Unit Grand Rounds
Springfield, MA
Limb Realignment
- February 1996** Visiting Professor, Bethesda Naval Hospital Orthopaedic
Training Program
Bethesda, MD
Slipped Capital Femoral Epiphysis
- February 1996** 63rd Annual Meeting of the American Academy of
Orthopaedic Surgeons
Atlanta, GA
Discussion of Friedman RJ, et al: Fracture Fixation Using
Bioabsorbable Screws in the Canine Femur
Discussion of Muratsu H, et al: Effect of Screw Re-tightening on
Compression Force
Discussion of Sandhu HS, et al: Distractive Properties of
Interbody Cages
- May 1996** The Plastic Surgery Educational Foundation and the American
Academy of Orthopaedic Surgeons: Limb Salvage and
Reconstruction, A Multidisciplinary Approach
Seattle, WA
Bone Transport for Bone Defects and Osteomyelitis
Management of Growth Deformity in the Child
- August 1996** Annual Meeting of the National Association of
Orthopaedic Technologists
Baltimore, MD
Limb Lengthening
- August 1996** Visiting Professor and Command Consultant, National Naval
Medical Center Orthopaedic Training Program
Bethesda, MD
Evaluation of the Limping Child
Proximal Focal Femoral Deficiency Surgery
- February 1997** 64th Annual Meeting of the American Academy of Orthopaedic
Surgeons, Instructional Course Lecture
San Francisco, CA
Treatment Strategies in Late Onset Blount Disease
- February 1997** 64th Annual Meeting of the American Academy of
Orthopaedic Surgeons
San Francisco, CA
Discussion of Raimondo RA, et al: Lengthening of Pediatric
Forearm Deformities Using the Ilizarov Technique
Discussion of Giacobetti FB, et al: Accuracy of MRI in Diagnosing
Children's Knee Injuries
Discussion of Raney EM: Orthotic Treatment of Genu Varum

- August 1997** Shock Trauma Hospital: Current Techniques in External Fixation Course
Baltimore, MD
Angular Deformities in Children
- March 1998** 65th Annual Meeting of the American Academy of Orthopaedic Surgeons, Instructional Course Lecture
New Orleans, LA
Treatment Strategies in Angular Deformities in Children
- October 1998** Visiting Professor, Harvard University, Boston Children's Hospital
Boston, MA
Modern Concepts in Clubfoot
Limb Lengthening in Skeletal Dysplasia
- December 1998** Cleveland Orthopaedic Association Cleveland Clinic and the Cleveland Orthopaedic Society
Cleveland, OH
Dickson Lectureship: Hypertrophic Nonunion
Lengthening over Nails
Conservative Care of Clubfoot
Medical Mission to Nicaragua
Preoperative Planning
- December 1998** Dr. James A. Dickson Visiting Lecturer: Cleveland Clinic and the Cleveland Orthopaedic Society
Cleveland, OH
Hypertrophic Nonunions
Lengthening over Nails
Conservative Care of Clubfoot
Medical Mission to Nicaragua
- February 1999** 66th Annual Meeting of the American Academy of Orthopaedic Surgeons, Instructional Course Lecture
Anaheim, CA
Deformity Correction and Limb Lengthening with External Fixation
- March 2000** 67th Annual Meeting of the American Academy of Orthopaedic Surgeons, Instructional Course Lecture
Orlando, FL
Deformity Correction and Limb Lengthening with External Fixation
- January 2002** Walter Reed Army Medical Center
Washington, DC
Multiplier Method for Predicting Limb Length Discrepancy
- February 2002** Early Bird Symposium for the American Orthopaedic Foot and Ankle Society
Dallas, TX
How to Use the Ilizarov Frames to Correct Foot Deformities

- February 2002** American Academy of Orthopaedic Surgeons, Instructional Course Lecture
Dallas, TX
Clubfoot: Current Trends in Management
- February 2002** American Academy of Orthopaedic Surgeons, Instructional Course Lecture
Dallas, TX
Deformity Correction Using External and Internal Fixation
- February 2002** American Academy of Orthopaedic Surgeons, Instructional Course Lecture
Dallas, TX
Lower Limb Lengthening
- April 2002** Connecticut Children's Medical Center
Hartford, CT
Distraction of Hypertrophic Nonunions
Intramedullary Nailing Techniques for Lengthening and Deformity Correction
Clubfoot: Is Surgery Really Necessary?
- April 2002** Taylor Spatial Frame Course
Memphis, TN
Initial Baltimore Experience with the Taylor Spatial Frame
- August 2002** Spatial Frame Course: Patient Frame Care
San Antonio, TX
Evaluation and Treatment of Skeletal Deformity: Has the Spatial Frame Helped?
Baltimore Experience with the Spatial Frame for Deformities and Reconstruction
Foot and Femoral Mountings
Foot and Ankle Strategies with the Taylor Spatial Frame
- October 2002** University of Michigan Orthopaedic Society's 41st Carl E. Badgley Lectureship
Ann Arbor, MI
Introduction to Clubfoot
Clubfoot: Is Surgery Really Necessary?
Conservative Management of Clubfoot
- November 2002** The Southern Orthopaedic Association Fall Meeting
Washington, DC
Clubfoot: Is Surgery Necessary?

- November 2002** Treatment of Congenital Clubfoot: The Ponseti Technique Course held by University of - Health Care
Iowa City, Iowa
Technique Practice with Models and Instructors
The Ponseti Technique: My Experience, Research, and Ideas
- November 2002** Annual Meeting of the Southern Pediatric Endocrine Society
Columbia, SC
Limb Lengthening in Achondroplasia
- February 2003** 70th Annual Meeting of the American Academy of Orthopaedic Surgeons, Instructional Course Lecture: Osteotomies for Primary and Revision Foot and Ankle Alignment Disorders
New Orleans, LA
Peri-ankle Osteotomies for Malunited Arthrodeses and Fractures
- February 2003** 70th Annual Meeting of the American Academy of Orthopaedic Surgeons, Instructional Course Lecture: Clubfoot: Current Trends in Management
New Orleans, LA
Casting Techniques of Ponseti
Management of Residual Clubfoot Deformity by the Ilizarov Method
- February 2003** 70th Annual Meeting of the American Academy of Orthopaedic Surgeons Specialty Day: Limb Lengthening and Reconstruction Society
New Orleans, LA
External Fixation Techniques
- March 2003** Shriners' Hospital for Children
Portland, OR
Ponseti Treatment of Clubfoot
Congenital Short Femur
Congenital Pseudarthrosis of the Tibia
Lower Extremity Skeletal Alignment
- March 2003** Wake Forest University School of Medicine Seminar on Cerebral Palsy
Winston-Salem, NC
Management of Spasticity: Botulinum Toxin in Limb Lengthening Procedures
Limb Lengthening and Deformity Correction in Cases of Spasticity
Preventing Contractures during Limb Lengthening: Multimodality Approach

- April 2003** California School of Podiatric Medicine Super Seminar
Las Vegas, NV
Pediatric Biomechanics of the Lower Extremity
Clubfoot Casting
- May 2003** Taylor Spatial Frame
San Antonio, TX
Insertion of Wires and Half-Pins
Review: 12 Stumbling Blocks
Spatial Frame for Chronic Deformity
Planning Workshop
- May/June 2003** Taylor Spatial Frame Course
San Antonio, TX
Insertion of Wires and Half-Pins
Review of 12 Stumbling Blocks
Spatial Frame for Chronic Deformity
Planning Workshop
- July 2003** Smith + Nephew Ilizarov Foot Symposium
Boston, MA
Management of Ankle and Foot Contractures by the
Ilizarov Method
- February 2004** External Fixation Course: Taylor Spatial Frame
Snowmass Village, CO
Introduction to the Components
Review Twelve Stumbling Blocks
Taylor Spatial Frame for Chronic Deformity: Evolution to Rings
First Total Residual Correction
Lab: "Dry Lab" Review for Chronic Deformity Correction with the
Taylor Spatial Frame
- March 2004** 71st Annual Meeting of the American Academy of
Orthopaedic Surgeons, Instructional Course Lecture:
Clubfoot: Current Trends in Management
San Francisco, CA
Casting Technique of Ponseti
Management of Residual Clubfoot Deformity by the
Ilizarov Method
- April 2004** 13th Annual Fischer Memorial Lectureship in
Pediatric Orthopaedics
Ann Arbor, MI
Hip Reconstruction in Congenital Femoral Deficiency
- April 2004** Advanced Foot and Ankle Course
Baltimore, MD
Small Wire External Fixation: Foot and Ankle
Deformity Correction

- April 2004** Foot and Ankle Grand Rounds, University of Michigan Health System
Ann Arbor, MI
Treatment of Clubfoot: Ponseti Technique
Sequelae of Clubfoot Deformity in Adults
- October 2004** External Fixation Course Designed for Orthopaedic Residents:
Taylor Spatial Frame
Memphis, TN
Lab: Planning Workshop
Pediatric Deformity Treated with the Taylor Spatial Frame
Twelve Stumbling Blocks
Treatment of Ankle and Foot Deformities with External Fixation:
General Principles
- November 2004** Pediatric Orthopaedic Society of North America Tutorial: Ponseti Method for Clubfoot Treatment
Baltimore, MD
Introduction to the Ponseti Method
Identifying and Managing Relapses
Sedation for Tenotomy
Ponseti Method Adapted to External Fixation Treatment of Older Children with Residual/Recurrent Clubfoot
- December 2004** New York College of Podiatric Medicine
New York, NY
Conservative Treatment of Clubfoot
Management of Clubfoot with External Fixation
Workshop: Ponseti Casting Techniques
- February 2005** 72nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Specialty Day: Limb Lengthening and Reconstruction Society
Washington, D.C.
Treatment of Complex Pediatric Foot Deformities with Ilizarov/Taylor Spatial Frame
- February 2005** 72nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Instructional Course Lecture:
Clubfoot: Current Trends in Management
Washington, D.C.
Conservative Treatment of Clubfoot
Management of Clubfoot with External Fixation
- November 2005** Multiple Hereditary Exostoses: Insights into Pathogenesis
Houston, TX
External Fixation and Stapling for Angular Deformities and Limb Length Discrepancies in Multiple Hereditary Exostosis

- March 2006** 73rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Technical Skills Course: Ponseti Clubfoot Method
Chicago, IL
The Ponseti Method
- April 2006** Pediatric Orthopaedic Society of North America Tutorial: Ponseti Method for Clubfoot Treatment
Baltimore, MD
Introduction to the Ponseti Method
Relapses/Atypical Feet
Video: Surgical Demonstrations
Anesthesia for Tenotomy
Ponseti Method Adapted to External Fixation Treatment of Older Children with Residual/Recurrent Clubfoot
- May 2006** Pediatric Orthopaedic Society of North America: One-Day Course
San Diego, CA
Pitfalls of the Ponseti Technique
- July 2006** Applications of External Fixation Course
Boulder Creek, CO
Lab: Preoperative Planning/ Analysis of Chronic Deformity
Taylor Spatial Frame in Pediatrics
Rotary Frame Offset
Lab: Distal Femoral Deformity
Foot Osteotomies: Choosing the Correct Osteotomy and Technical Considerations
Taylor Spatial Frame Foot Software
External Fixation for Failed Clubfoot
Taylor Spatial Frame in the Upper Extremity
Distal Humeral Deformity
- February 2007** 74th Annual Meeting of the American Academy of Orthopaedic Surgeons
San Diego, CA
Ponseti Clubfoot Method
- August 2007** Treatment of Difficult Fractures Around the World, hosted by Surgical Implant Generation Network and the Spokane Medical Society
Richland, WA
Lengthening over Nails
Lengthening over Nail Demonstration
Bone Transport
Bone Transport Workshop
Hypertrophic Nonunions and Their Correction
Preoperative Planning for Using Ilizarov Device
Limb Deformity Correction Workshop

- January 2008** Visiting Professor, University of Utah, Salt Lake City:
Salt Lake City, UT
Conservative Management of Clubfoot
- January 2009** Visiting Professor, Hospital for Special Surgery
New York, NY
Achondroplasia
- February 2009** 76th Annual Meeting of the American Academy of Orthopaedic
Surgeons Specialty Day: Pediatric Orthopaedic Society of
North America
Las Vegas, NV
Limb Lengthening Pro/Con Debate: 10-year-old
with Achondroplasia
- February 2009** Grand Rounds, Hospital for Special Surgery
New York, NY
Limb Lengthening and Reconstruction for Skeletal Dysplasia
- March 2009** Visiting Professor, Orthopaedic Grand Rounds, Columbia
University Department of Orthopaedic Surgery
New York, NY
Lengthening over Nails

Local Invited Lectures

- August 1988** Pediatric Board Review, Michigan Association of Pediatric Program Directors and Michigan Chapter-American Academy of Pediatrics
Ann Arbor, MI
Common Problems in Pediatric Orthopaedics
- November 1988** 4th Annual Seminar of the Wayne County Intermediate School District, Current Concepts in Medicine and Education for the Physically Handicapped
Wayne, MI
Ilizarov Techniques for Limb Lengthening and Correction of Orthopaedic Deformities
- November 1988** Hurley Medical Center, Pediatric Grand Rounds
Flint, MI
Pediatric Fractures: Special Considerations
- December 1988** St. Joseph Mercy Hospital, Pediatric Grand Rounds
Pontiac, MI
Limb Length Inequality in Children
- February 1989** Annual Meeting of the Association of Operating Room Nurses of Ann Arbor
Ann Arbor, MI
The Ilizarov Apparatus for Limb Lengthening and Deformity Correction
- April 1989** University of Michigan Department of Surgery Administrators' Luncheon
Ann Arbor, MI
Ilizarov Method at the University of Michigan
- May 1989** Michigan Association of Emergency Medical Technicians and Michigan Association of Ambulance Services EMS Expo 1989
Lansing, MI
Pediatric C-Spine Immobilization: Why Is It Important?
- May 1989** Pediatric Orthopaedic Conference, St. Joseph Mercy Hospital-McCauley Health Center
Ypsilanti, MI
The Ilizarov Method for Treatment of Limb Length Discrepancy, Pseudoarthrosis, and Deformities
- May 1989** University of Michigan Medical Center Development Inglis House Dinner
Ann Arbor, MI
Ilizarov Experience at the University of Michigan

- October 1989** Henry Ford Hospital, Orthopaedic Surgery Grand Rounds
Detroit, MI
Ilizarov Method for Limb Lengthening and Ilizarov Method for
Correction of Orthopaedic Deformities
- October 1989** Short Stature Symposium, District Regional Meeting of the Little
People of America
Ann Arbor, MI
Lower Extremity Problems in Short Stature
- November 1989** Annual Meeting of the Michigan State Medical Society
Dearborn, MI
Common Problems in Pediatric Orthopaedics
- December 1989** Flower Memorial Hospital Multidisciplinary Conference
Sylvania, OH
Scoliosis
- December 1989** Kalamazoo Center for Medical Study at Bronson Hospital,
Pediatric Grand Rounds
Kalamazoo, MI
Limb Length Discrepancy in Children
- December 1989** Orthopaedic Forum Club
Ann Arbor, MI
Ilizarov Technique for Reconstruction of
Musculoskeletal Deformities
- December 1989** University of Michigan, Course Planning Committee, Emergency
Medicine: Orthopedics (Continuing Education Course)
Ann Arbor, MI
Common Orthopaedic Injuries in Children and Pediatric
Spinal Trauma
- January 1990** University of Michigan Department of Pediatrics and
Communicable Diseases Grand Rounds
Ann Arbor, MI
New Techniques of Deformity Correction in
Pediatric Orthopaedics
- March 1990** Grand Rounds, University of Maryland Division of
Orthopaedic Surgery
Baltimore, MD
Torsional Deformities in Children
- March 1990** Surgical Technologists Seminar: Orthopedic Surgery: New
Solutions for Old Problems, Chapter 73 Southeastern
Michigan of the Association of Surgical Technologists, St.
Joseph's Hospital
Pontiac, MI
Ilizarov Method of Reconstructive Orthopedic Surgery

- April 1990** Hurley Medical Center, Pediatric Grand Rounds
Flint, MI
Scoliosis
- May 1990** 2nd Annual Frederick J. Fischer Memorial Lecture in
Pediatric Orthopaedics
Ann Arbor, MI
Pediatric Applications of the Ilizarov Method
- May 1990** 2nd Annual Frederick J. Fischer Memorial Lecture in Pediatric
Orthopaedics at the University of Michigan, Speaker and
Chairman (J. Leonard Goldner, Visiting Lecturer)
Ann Arbor, MI
Limb Lengthening and Deformity Correction in Children by the
Ilizarov Method
- May 1990** 11th Annual Spring Seminar of the Michigan Association of Post-
Anesthesia Nurses
Ypsilanti, MI
Care of the Patient Undergoing Ilizarov Surgery
- July 1990** 41st Annual Meeting of the Michigan Chapter of the American
Academy of Pediatrics
Traverse City, MI
Making Children Taller and Straighter
- July 1990** University of Michigan Medical Student Biomedical
Research Seminar
Ann Arbor, MI
Research in Limb Lengthening
- November 1990** Victor Vaughn History of Medicine Society Meeting
Ann Arbor, MI
History of Limb Lengthening
- December 1990** University of Michigan Department of Surgery Grand Rounds
Ann Arbor, MI
Distraction Osteogenesis in Pediatric Orthopaedics
- February 1991** Winter E.M.S. Update, Bay City Hospital
Bay City, MI
New Techniques in Backboarding Pediatric Patients
- May 1991** University of Michigan Section of Neurosurgery Grand Rounds
Ann Arbor, MI
Applications of Spinal Distraction
- February 1992** University of Maryland Department of Surgery Grand Rounds
Baltimore, MD
Distraction Osteogenesis: Clinical and Research Applications

- March 1992** Association of Surgical Technologists Chapter 44
Regional Meeting
Baltimore, MD
Introduction to the Ilizarov Procedure
- April 1992** 2nd Annual Robert C. Abrams Lecture, Maryland
Orthopaedic Society
Baltimore, MD
Foot Problems in Children
- April 1992** University of Maryland Department of Pediatrics Grand Rounds
Baltimore, MD
Pediatric Sports Injuries and Overuse Syndromes
- May 1992** Spring Meeting of the Maryland Association of
Orthopaedic Technologists
Baltimore, MD
Limb Lengthening Techniques
- August 1992** Kernan Hospital OR In-Service
Baltimore, MD
Sports Injuries in Children
- August 1992** University of Maryland Family Practice Resident
Core Conferences
Baltimore, MD
Sports Injuries in Children
- January 1993** Mercy Hospital Department of Pediatrics Grand Rounds
Baltimore, MD
Toe-in and Toe-out in Children
- January 1993** University of Maryland Department of Pediatrics Resident
Teaching Conference
Baltimore, MD
Ilizarov Surgery in Children
- March 1993** University of Maryland Department of Pediatrics Resident
Teaching Conference
Baltimore, MD
Adolescent Idiopathic Scoliosis
- April 1993** Johns Hopkins University Orthopaedic Surgery Grand Rounds
Baltimore, MD
Clinical and Research Aspects of Distraction Osteogenesis

- April 1993** Maryland Society of Radiologic Technologists Continuing Education Program
Baltimore, MD
Limb Lengthening Techniques
Radiographic Aspects of Limb Lengthening
- April 1993** University of Maryland Division of Orthopaedic Surgery
Grand Rounds
Baltimore, MD
Biomechanics of the Foot
- May 1993** 2nd Annual CME Series of the University of Maryland Department of Pediatrics, Subspecialty Care in General Pediatric Practice
Baltimore, MD
Limb Lengthening in Children
- September 1993** Rintelman & Associates Rehabilitation Specialists
Baltimore, MD
Nonunion of Fractures
- October 1993** Maryland Chapter of the American Physical Therapy Association
Solomon's Island, MD
Principles of Limb Lengthening
Postoperative Physiotherapy for Limb Lengthening
- October 1993** Maryland Society of Radiologic Technicians
Ocean City, MD
Radiology of Limb Lengthening in Children
- October 1993** St. Agnes Hospital Nursing Rounds
Baltimore, MD
Limb Lengthening in Children
- October 1993** University of Maryland Department of Pediatrics Grand Rounds
Baltimore, MD
Torsional Problems in Children
- November 1993** University of Maryland Department of Surgery Grand Rounds
Baltimore, MD
Preventing Sports Injuries in Children and Adolescents
- February 1994** St. Agnes Hospital Surgical Grand Rounds
Baltimore, MD
Overuse Injuries in the Adolescent Athlete
- June 1994** University of Maryland Division of Orthopaedic Surgery
Baltimore, MD
Pinning Slipped Capital Femoral Epiphysis

- December 1994** Maryland Insurance Group (RAI)
Timonium, MD
Ilizarov Method and Nonunion Treatment
- December 1994** University of Maryland, Baltimore County, ENME Course 489
Baltimore, MD
Biomechanics of the Ilizarov Fixator
- January 1995** University of Maryland Emergency Medical Services, Shock
Trauma Hospital Orthopaedic Rounds
Baltimore, MD
Calcaneus Fractures
- February 1995** University of Maryland Department of Surgery Grand Rounds
Baltimore, MD
Evolving Technology in Femoral Lengthening
- March 1995** University of Maryland Division of Orthopaedic Surgery
Baltimore, MD
Pinning Slipped Capital Femoral Epiphysis
- December 1995** Mercy Hospital Pediatric Grand Rounds
Baltimore, MD
The Limping Child
- January 1996** University of Maryland Division of Orthopaedic Surgery
Grand Rounds
Baltimore, MD
Tarsal Coalition
- April 1996** University of Maryland Adolescent Medicine Rounds
Baltimore, MD
Pediatric Sports Medicine
- June 1996** 22nd Annual University of Maryland Review Course in Family
Medicine: Pediatric Orthopaedics
Ocean City, MD
Evaluation of the Child with a Limp
- June 1996** Baltimore Ultrasound Education and Research and Franklin
Square Hospital
Baltimore, MD
Structural Fetal Problem: The Total Picture
Skeletal Anomalies: Surgical Aspects
- January 1997** Johns Hopkins University, Orthopaedic Grand Rounds
Baltimore, MD
Evaluation and Treatment of Nonunions

- April 1997** University of Maryland School of Nursing, Lecture for Neonatal Nurse Practitioner Specialty Students
Baltimore, MD
Musculoskeletal Problems in Neonates
- September 1997** Annual Meeting of the Maryland Society of Radiologic Technicians
Ocean City, MD
Limb Lengthening: Principles and Techniques
- September 1997** Mt. Washington Pediatric Rehabilitation Hospital, Clinical Forum for PT/OT/RN
Baltimore, MD
Prenatal Diagnosis of Musculoskeletal Problems
- November 1997** University of Maryland at Baltimore County, School of Engineering, Lecture for the Biomechanics Course
Baltimore, MD
Limb Lengthening
- December 1998** George Greenstein Lecture, Northwest Hospital Center
Randallstown, MD
Medical Volunteerism: Medical Mission to Nicaragua
- March 1999** Orthopaedic Grand Rounds, University of Maryland Medical System
Baltimore, MD
Clubfoot Management
- October 1999** Pediatric Grand Rounds, University of Maryland Medical System
Baltimore, MD
Clubfoot
- December 1999** Orthopaedic Grand Rounds, University of Maryland Medical System
Baltimore, MD
Ponseti Technique for Clubfoot
- November 2001** The Maryland Association of Orthopedic Technologists 3rd Annual Fall Conference on Limb Lengthening and Deformities
Baltimore, MD
Clubfoot Deformities and Demonstration
- November 2001** The Maryland Association of Orthopedic Technologists Pediatric Orthopedic Conference
Baltimore, MD
Clubfeet
- February 2002** Anne Arundel Medical Center
Annapolis, MD
Nonoperative Treatment of Clubfoot

- May 2002** Structural Fetal Abnormalities Conference
Baltimore, MD
Limb Abnormalities Discovered in Utero and Their Appropriate
Surgical Management
- June 2002** Johns Hopkins University School of Medicine Orthopaedic
Review Course
Baltimore, MD
Tibial and Fibular Hemimelia
Coxa Vara
PFFD
- October 2002** Union Memorial Fall Pediatric Conference
Baltimore, MD
Introduction to Clubfoot
Conservative Management of Clubfoot
- October 2002** University of Maryland School of Medicine: Grand Rounds Lecture
for the Department of Orthopaedics
Baltimore, MD
Limb Length Discrepancy
- December 2002** The Children's Hospital at Sinai
Baltimore, MD
Pediatric Orthopaedics in Nicaragua
- June 2003** Johns Hopkins University School of Medicine Orthopaedic
Review Course
Baltimore, MD
Tibial and Fibular Hemimelia
Coxa Vara
Proximal Fixed Femoral Deformity
- April 2004** Maryland Association of Orthopaedic Technologists
Baltimore, MD
Clubfoot Casting Techniques
- October 2004** Management of Soft Tissue Contractures Course at Sinai Hospital
of Baltimore
Baltimore, MD
Soft Tissue Surgery and Distraction Technique Using External
Fixator for Recalcitrant Cases
- March 2005** Grand Rounds, Johns Hopkins Department of
Orthopaedic Surgery
Baltimore, MD
Leg Lengthening without External Fixators (Intramedullary
Telescopic Self-Lengthening Nails)

- December 2005** Science and Pearls of Foot and Ankle Pathology,
New York College of Podiatric Medicine
New York, NY
Ponseti Method of Clubfoot Treatment
Tarsal Coalitions
- March 2006** Krieger-Schechter Day School 25th Anniversary Exploration Day
Baltimore, MD
Volunteer Orthopedic in Central America
- April 2006** Grand Rounds, University of Maryland School of Medicine
Baltimore, MD
Idiopathic Clubfoot: Is Surgery Necessary?
- May 2006** Anne Arundel Medical Center Pediatric Service
Annapolis, MD
Ponseti Method of Clubfoot Treatment
- January 2007** Pediatric Grand Rounds, Sinai Hospital of Baltimore
Baltimore, MD
Clubfoot and Ponseti Method Management
- February 2007** Saint Stephen's and Saint Agnes School
Alexandria, VA
Nicaragua Orthopedic Mission
- March 2007** Pediatric Grand Rounds, Sinai Hospital of Baltimore
Baltimore, MD
Slipped Capital Femoral Epiphysis
- April 2007** Maryland Association of Orthopaedic Technologists
Baltimore, MD
Clubfoot Casting
- May 2007** Obstetrics and Gynecology Grand Rounds, Sinai Hospital
of Baltimore
Baltimore, MD
Prenatal Ultrasound Diagnosis of Skeletal Abnormalities: What To
Look For, What To Say...
- October 2007** Pediatric Grand Rounds, St. Joseph Medical Center
Towson, MD
Conservative Method of Clubfoot Treatment
- January 2009** Pediatric Grand Rounds, Sinai Hospital of Baltimore
Baltimore, MD
Torsional Problems in Children

March 2009

Pediatric Issues: 2009 Update for the Practicing Physician,
Mercy Medical Center
Baltimore, MD
Conservative Management of Clubfoot

May 2009

Orthopedic Grand Rounds, Sinai Hospital of Baltimore
Baltimore, MD
Updates on Clubfoot

Proffered Communications**Oral Presentations**

- January 1987** 17th Annual Meeting of the American Orthopaedic Foot and Ankle Society
San Francisco, CA
Treatment of Talocalcaneal Coalitions: Arthrodesis or Resection?
Variations in Coalition Morphology as Seen with Computed Tomography Scanning
- March 1998** 65th Annual Meeting and Symposium of the American Academy of Orthopaedic Surgeons
New Orleans, LA
Angular Deformities in Children (Adolescent Blount Disease)
- June 2001** 35th Annual Meeting of The Canadian Orthopaedic Association
London, Ontario, Canada
Recent Advances in Clubfoot Management
Ponseti Method: The Baltimore Experience
- June 2001** 114th Annual Meeting of the American Orthopaedic Association
Palm Beach, FL
Ponseti versus Standard Method for Clubfoot Casting
- February 2003** 70th Annual Meeting of the American Academy of Orthopaedic Surgeons
New Orleans, LA
Femoral Lengthening in Patients with Achondroplasia
- March 2004** 71st Annual Meeting of the American Academy of Orthopaedic Surgeons
San Francisco, CA
Hip Stability During Limb Lengthening for Congenital Femoral Deficiency
- April 2004** 20th Annual Meeting of the Pediatric Orthopaedic Society of North America
St. Louis, MO
Anesthesia for Infants Undergoing Ponseti Achilles Tenotomy
Hip Stability during Femoral Lengthening in Children with Congenital Femoral Deficiency
- July 2004** 14th Annual Meeting of the Limb Lengthening and Reconstruction Society
Toronto, Ontario, Canada
Lengthening through Accidental Fractures in Children

- February 2005** 72nd Annual Meeting of the American Academy of Orthopaedic Surgeons
Washington, D.C.
Femoral Nailing of Fractures after Lengthening for Congenital Femoral Deficiency in Young Children
- April 2007** European Paediatric Orthopaedic Society and International Federation of Paediatric Orthopaedic Societies
Combined Meeting
Sorrento, Italy
Eight-Plate for Temporary Hemiepiphysiodesis to Correct Angular Deformities
- May 2007** 23rd Annual Meeting of the Pediatric Orthopaedic Society of North America
Hollywood, FL
Eight-Plate for Temporary Hemiepiphysiodesis to Correct Angular Deformities
- July 2007** 17th Annual Meeting of the Limb Lengthening and Reconstruction Society
Chicago, IL
Temporary Extraarticular Hindfoot Arthrodesis Screw for Tibial Lengthening: A Cadaver Study
Eight-Plate for Temporary Hemiepiphysiodesis to Correct Angular Deformities
Treatment of Residual Clubfoot Deformities with the Taylor Spatial Frame Using a Ponseti Sequence
- October 2007** World Congress on External Fixation
Cairo, Egypt
Temporary Extra-Articular Hindfoot Arthrodesis Screw for Tibial Lengthening: A Cadaver Study
Treatment of Residual Clubfoot Deformities with the Taylor Spatial Frame Using a Ponseti Sequence
- April 2009** 25th Annual Meeting of the Pediatric Orthopaedic Society of North America
Boston, MA
Mechanical Failures of the eight-Plate Guided Growth System for Temporary Hemiepiphysiodesis: A Multi-Center Survey
Prenatal Diagnosis of Idiopathic Clubfoot

Posters and Scientific Exhibits

1. Martinez S, **Herzenberg JE**, Apple JS, Korobkin M, Goldner JL. Computerized Tomography of Tarsal Coalition: Anatomic and Clinical Study. 69th Annual Meeting of the Radiological Society of North America, Chicago, IL, November 1983 (awarded Cum Laude Certificate).
2. **Herzenberg JE**, Goldner JL, Martinez S, Korobkin M. Computerized Tomography in the Diagnosis of Tarsal Coalition. 51st Annual Meeting of the American Academy of Orthopaedic Surgeons, Atlanta, GA, February 1984.
3. Gilmer PW, **Herzenberg JE**, Frank JL, Goldner JL. Computerized Tomographic Analysis of Acute Calcaneal Fractures. 52nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, January 1985.
4. **Herzenberg JE**, Gilmer PW, Frank JL, Goldner JL. Treatment of Acute Intra-Articular Calcaneus Fractures. 53rd Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, February 1986.
5. **Herzenberg JE**, Gilmer PW, Frank JL, Goldner JL. Treatment of Acute Intra-Articular Calcaneus Fractures. 17th Annual Meeting of the American Orthopaedic Foot and Ankle Society, San Francisco, CA, January 1987.
6. **Herzenberg JE**, Gilmer PW, Frank JL, Goldner JL. Treatment of Acute Intra-Articular Calcaneus Fractures. 8th Combined Meeting of the Orthopaedic Associations of the English-Speaking World, Washington, DC, May 1987.
7. **Herzenberg JE**, Koreska J, Carroll NC, Rang M. Biomechanical Testing of Pin Fixation in Pediatric Supracondylar Elbow Fractures. 21st Annual Meeting of the Canadian Orthopaedic Research Society, London, Ontario, Canada, June 1987.
8. Dedrick DK, **Herzenberg JE**, Hensinger RN, Phillips WA. Potential Hazards of the Backboard in Children with Neck Injuries. 55th Annual Meeting of the American Academy of Orthopaedic Surgeons, Atlanta, GA, February 1988.
9. Harrelson JM, **Herzenberg JE**, Campbell DC, Lachiewicz PF, Friedman RJ. Fractures of the Polyethylene Bearing Insert in Bateman Bipolar Hip Prostheses. 55th Annual Meeting of the American Academy of Orthopaedic Surgeons, Atlanta, GA, February 1988.
10. **Herzenberg JE**, Koreska J, Carroll NC, Rang M. Biomechanical Testing of Pin Fixation in Pediatric Supracondylar Elbow Fractures. 55th Annual Meeting of the American Academy of Orthopaedic Surgeons, Atlanta, GA, February 1988.
11. Kruger DM, Hak DJ, Viviano DM, Goldstein SA, **Herzenberg JE**. Biomechanical Comparison of Single and Double Steinmann Pin Fixation for Slipped Capital Femoral Epiphysis. 34th Annual Meeting of the Orthopaedic Research Society, Atlanta, GA, February 1988.

12. **Herzenberg JE**, Hensinger RN, Dedrick DK, Phillips WA. Emergency Transport and Positioning of Young Children with Cervical Spine Injuries: The Standard Backboard May Be Hazardous. 43rd Annual Meeting of the Canadian Orthopaedic Association, Ottawa, Ontario, June 1988.
13. Kruger DM, Hak DJ, Viviano DM, Goldstein SA, **Herzenberg JE**. Biomechanical Comparison of Single and Double Steinmann Pin Fixation for Slipped Capital Femoral Epiphysis. University of Michigan Medical Center Alumni Society Reunion Poster Display, Ann Arbor, MI, September 1988.
14. Goulet JA, **Herzenberg JE**. Ilizarov Surgical Reconstruction. 29th Annual Meeting of the Michigan Orthopaedic Society, Makinac Island, MI, June 1990.
15. **Herzenberg JE**, Goulet JA, Bausick D, Lipka J. Radiographic Evaluation of the Ilizarov Method of Orthopaedic Reconstruction. 35th Annual Meeting of the Michigan Society of Radiologic Technologists, Dearborn, MI, September 1990 (2nd prize for best exhibit).
16. **Herzenberg JE**, Waanders NA, Goulet JA. Duration of Distraction Nomogram for the Ilizarov Method of Deformity Correction. International Society for Fracture Repair Meeting, Rochester, MN, September 1990.
17. **Herzenberg JE**, Waanders NA, Goulet JA. Duration of Distraction Nomogram for the Ilizarov Method of Deformity Correction. University of Michigan Biomechanics Symposium, Ann Arbor, MI, December 1990.
18. Lawton JN, Martins HM, Waanders NA, Goldstein SA, **Herzenberg JE**. Development of the Michigan Intramedullary Leg Lengthening Nail. University of Michigan Biomechanics Symposium, Ann Arbor, MI, December 1990.
19. Kuhn JL, Ciarelli MJ, **Herzenberg JE**. Biomechanical Studies of the Growth Plate. Proceedings of the 3rd USA-China-Japan Conference on Biomechanics, Atlanta, GA, August 1991.
20. **Herzenberg JE**, Graziano GP, Hensinger RN. Ambulatory Halo-Cast Distraction for Cervical Deformities. Annual Meeting of the Scoliosis Research Society, Minneapolis, MN, September 1991.
21. Van Otteren EM, Waanders NA, **Herzenberg JE**, Kuhn JL, Goulet JA, Goldstein SA. Development of a Rabbit Model for Limb Lengthening by Distraction Osteogenesis. 37th Annual University of Michigan Medical School Student Biomedical Research Forum, Ann Arbor, MI, October 1991.
22. Blasier RB, **Herzenberg JE**, Waanders NA, Blasier RD. Ilizarov Correction of Angular Deformity: Application of Analytic Geometry and Graphic Methods. 59th Annual Meeting of the American Academy of Orthopaedic Surgeons, Washington, DC, February 1992.
23. Kuhn JL, **Herzenberg JE**, Homovich J, Mason D, Ciarelli MJ. The Mechanical Contribution of the Perichondrial Region to the Growth Plate Structural Integrity. 38th Annual Meeting of the Orthopaedic Research Society, Washington, DC, February 1992.

24. Blasier RB, **Herzenberg JE**, Waanders NA, Blasier RD. Ilizarov Correction of Angular Deformity: Application of Analytic Geometry and Graphic Methods. University of Michigan Department of Surgery Moses Gunn Annual Research Conference, Ann Arbor, MI, May 1992.
25. Blasier RB, **Herzenberg JE**, Waanders NA, Blasier RD. Ilizarov Correction of Angular Deformity: Application of Analytic Geometry and Graphic Methods. 9th Combined Meeting of the Orthopaedic Associations of the English-Speaking World, Toronto, Ontario, Canada, June 1992.
26. Paley D, **Herzenberg JE**, Maar D, Tetsworth K. Femoral Lengthening by Simultaneous External Fixation and Intramedullary Nailing. 3rd Conference of the International Society for Fracture Repair, Brussels, Belgium, September 1992.
27. Jupiter JB, Palumbo MA, Nunley JA, Aulicino PL, **Herzenberg JE**. Secondary Reconstruction following Vascularized Fibular Transfer. Annual Meeting of the American Society of Reconstructive Microsurgery, Scottsdale, AZ, November 1992.
28. **Herzenberg JE**, Paley D, Wolff G. Photocopy Reduction of Long Standing X-Rays for Preoperative Osteotomy Planning. 60th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 1993.
29. Saunders C, Fischgrund JS, Goulet JA, **Herzenberg JE**, Paley D, Parkin JD, Schrantz WF. Femoral Lengthening with Circular External Fixation in Children and Adults. 60th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 1993.
30. Waanders NA, Kuhn JL, **Herzenberg JE**, Goulet JA. The Mechanical and Physical Properties of Regenerate Bone in a Canine Model of Distraction Osteogenesis. 39th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, February 1993.
31. Jupiter JB, Palumbo MA, Nunley JA III, **Herzenberg JE**. Secondary Reconstruction after Vascularized Fibular Transfer. 106th Annual Meeting of the American Orthopaedic Association, Coronado, CA, June 1993.
32. Saunders C, Fischgrund JS, Goulet JA, **Herzenberg JE**, Paley D, Parkin JD, Schrantz WF. Femoral Lengthening with Circular External Fixation in Children and Adults. 48th Annual Meeting of the Canadian Orthopaedic Association, Montréal, Québec, June 1993.
33. Zmurko M, Belkoff SM, **Herzenberg JE**. A Biomechanical Evaluation of Semi-Rigid, Rigid, and Plaster Casts. University of Maryland Medical Student Research Forum, Baltimore, MD, August 1994.
34. Paley D, Bor N, **Herzenberg JE**, Bhavé A. Intramedullary Nail Fixation of Corrective Osteotomies around the Knee Joint. Annual Meeting of the Orthopaedic Trauma Association, Tampa, FL, September 1995.

35. Bright AS, Weiner IM, Paley D, **Herzenberg JE**, Suter CM. Limb Lengthening: Manual versus Motorized Distraction. 63rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Atlanta, GA, February 1996.
36. Bhave A, **Herzenberg JE**, Paley D. Gait Asymmetries with Leg Length Difference (LLD): Symmetry after Leg Lengthening. Annual Meeting of the Pediatric Orthopaedic Society of North America, Phoenix, AZ, May 1996.
37. Paley D, **Herzenberg JE**, Paremain G. Femoral Lengthening over Nails: Comparison with Standard Ilizarov Femoral Lengthening. SICOT Meeting, Amsterdam, The Netherlands, August 1996.
38. Aita DJ, Bhave A, **Herzenberg JE**, Paley D, Cannada L. Do Patella Tendon-Bearing (PTB) Casts Unload the Foot? 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 1997.
39. Bhave A, **Herzenberg JE**, Paley D. Changes in Gait Pre- to Post-Lengthening for Leg Length Difference (LLD): Symmetry after Leg Lengthening. 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 1997.
40. Bor N, Paley D, **Herzenberg JE**. Intramedullary Nail (IMN) Fixation of Metaphyseal and Diaphyseal Angular Deformities of the Femur and Tibia. 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 1997.
41. Keenan WNW, **Herzenberg JE**, Paley D. Normal Lower Extremity Radiological Alignment in Children. 64th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 1997.
42. Keenan WNW, **Herzenberg JE**, Paley D. Normal Lower Extremity Radiological Alignment in Children. Annual Meeting of the Pediatric Orthopaedic Society of North America, Banff, Alberta, Canada, May 1997.
43. **Herzenberg JE**, Bhargava A, Paley D, Shah S. Distraction Treatment for Hypertrophic Nonunions. 110th Annual Meeting of the American Orthopaedic Association, Boca Raton, FL, June 1997.
44. Paley D, **Herzenberg JE**, Paremain G. Femoral Lengthening over Nails: Comparison with Standard Ilizarov Femoral Lengthening. 110th Annual Meeting of the American Orthopaedic Association, Boca Raton, FL, June 1997.
45. Rovetta L, **Herzenberg JE**, Paley D. Bilateral Humeral Lengthening in Dwarfism. Annual Meeting of the Pediatric Orthopaedic Society of North America, Cleveland, OH, May 1998.
46. De Deyne PG, Hayatsu K, Paley D, **Herzenberg JE**. Adaptation of the Tibialis Anterior during Distraction Osteogenesis in Growing and Mature Animals. 3rd Combined Meeting of the Orthopaedic Research Societies, Hamamatsu, Japan, September 1998.
47. Bhave A, **Herzenberg JE**, Paley D. Pressure Specified Sensory Device Monitors Nerve Function during Limb Lengthening. 66th Annual Meeting of the American Academy of Orthopaedic Surgeons, Anaheim, CA, February 1999.

48. **Herzenberg JE**, Stephan C, Araujo FF. Weights of Casts Used for Correcting Clubfoot in Neonates. 112th Annual Meeting of the American Orthopaedic Association, Sun Valley, ID, June 1999.
49. **Herzenberg JE**, Radler C. Evaluation of Ponseti Method of Casting for Idiopathic Clubfoot. Annual Meeting of the Pediatric Orthopaedic Society of North America, Vancouver, British Columbia, Canada, May 2000.
50. Katsenis D, Bhave A, Paley D, **Herzenberg JE**. Treatment of Ankle Fusion Malunion and Nonunion. 68th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 2001.
51. **Herzenberg JE**. Treatment of Complex Hypertrophic Nonunions by Closed Ilizarov Distraction. 69th Annual Meeting of the American Academy of Orthopaedic Surgeons, Dallas, TX, February 2002.
52. Paley D, Katsenis D, Bhave A, **Herzenberg JE**. Treatment of Ankle Arthrodesis Using the Ilizarov Technique. 69th Annual Meeting of the American Academy of Orthopaedic Surgeons, Dallas, TX, February 2002.
53. Paley D, Saghieh S, Yong Song B, Young M, **Herzenberg JE**. Lengthening and Reconstruction Surgery for the Treatment of Fibular Hemimelia. 70th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, February 2003.
54. Paley J, Talor J, Levin A, Bhave A, Paley D, **Herzenberg JE**. Multiplier Method for Height Prediction. Annual Meeting of the Pediatric Orthopaedic Society of North America, Amelia Island, FL, April 2003.
55. Paley D, **Herzenberg JE**. The Multiplier Method for Adult Height Prediction. American Academy of Pediatrics Meeting, New Orleans, LA, November 2003.
56. Paley J, Talor J, Levin A, Bhave A, Paley D, **Herzenberg JE**. The Multiplier Method for Adult Height Prediction. 71st Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, March 2004.
57. Bhave A, Starr R, Tennis S, Schreiber C, **Herzenberg JE**. Foot Pressures With and Without Bracing in Patients with Cerebral Palsy (CP). 73rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 2006.
58. Khosroabady A, Lamm BM, **Herzenberg JE**, Standard SC, Paley D. Fibular Hemimelia: A New Classification Based on the Deformity of the Foot and Ankle. Annual Meeting of the American College of Foot and Ankle Surgeons, Las Vegas, NV, March 2006.
59. Paley D, Burghardt RD, **Herzenberg JE**, Ranade A. Femoral Lengthening with the Intramedullary Skeletal Kinetic Distractor: Effect on Mechanical Axis Deviation. 74th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 2007.

60. **Herzenberg JE**, Shualy M, Goldberg M, Paley D, Gelman A. Multiplier Method for the Prediction of Sitting Height and Spinal Height. European Paediatric Orthopaedic Society and International Federation of Paediatric Orthopaedic Societies Combined Meeting, Sorrento, Italy, April 2007.
61. Eidelman M, Katzman A, Bor N, Lamm BM, **Herzenberg JE**. Treatment of Residual Clubfoot Deformities with the Taylor Spatial Frame Using a Ponseti Sequence. European Paediatric Orthopaedic Society and International Federation of Paediatric Orthopaedic Societies Combined Meeting, Sorrento, Italy, April 2007.
62. Paley D, Burghardt RD, Specht SC, **Herzenberg JE**, Ranade A. Femoral Lengthening with an Intramedullary Telescopic Nail: Does Lengthening Along the Anatomic Axis Create Malalignment? European Paediatric Orthopaedic Society and International Federation of Paediatric Orthopaedic Societies Combined Meeting, Sorrento, Italy, April 2007.
63. Eidelman M, Katzman A, Bor B, Lamm BM, **Herzenberg JE**. Treatment of Residual Clubfoot Deformities with the Taylor Spatial Frame Using a Ponseti Sequence. 120th Annual Meeting of the American Orthopaedic Association, Asheville, NC, June 2007.
64. Paley D, **Herzenberg JE**, Ranade AB. Humerus Varus: Corrective Osteotomy and Stabilization with Ilizarov Fixator. World Congress on External Fixation, Cairo, Egypt, October 2007.
65. Paley D, Burghardt RD, Specht SC, **Herzenberg JE**, Ranade A, Femoral Lengthening with an Intramedullary Telescopic Nail: Effect on Mechanical Axis Deviation. World Congress on External Fixation, Cairo, Egypt, October 2007.
66. Belthur MV, Jindal G, Specht SC, Paley D, **Herzenberg JE**, Standard SC. Tibial Lengthening with an Internal Device: Preventing Equinus Contracture with a Calcaneotibial Screw. World Congress on External Fixation, Cairo, Egypt, October 2007.
67. Specht SC, Belthur MV, Jindal G, Paley D, **Herzenberg JE**. Bilateral Cosmetic Tibial Lengthening with the Intramedullary Skeletal Kinetic Distractor (ISKD). American Academy of Orthopaedic Surgeons 75th Annual Meeting, San Francisco, CA, March 2008.
68. Paley D, Specht SC, Belthur MV, Jindal G, **Herzenberg JE**. Bilateral Cosmetic Tibial Lengthening with the Intramedullary Skeletal Kinetic Distractor (ISKD). ASAMI International, St. Petersburg, Russia, May 2008.
69. Belthur MV, Jindal G, Bor N, **Herzenberg JE**. Correction of Cubitus Varus after Pediatric Supracondylar Elbow Fracture: Improved Method Using the Taylor Spatial Frame. 25th Annual Meeting of the Pediatric Orthopaedic Society of North America, Boston, MA, April 2009.
70. Belthur MV, Burghardt RD, **Herzenberg JE**, Paley D. Congenital Synostosis of the Knee: Early Results of Limb Reconstruction Surgery. 25th Annual Meeting of the Pediatric Orthopaedic Society of North America, Boston, MA, April 2009.

71. **Herzenberg JE**, Radler C, Myers A, Burghardt R, Herzenberg J, Grill F. Prenatal Diagnosis of Clubfoot. Annual Meeting of the American Orthopaedic Association, Bonita Springs, FL, June 2009.
72. Radler C, Myers A, Burghardt R, **Herzenberg JE**, Grill F. Pränatale Diagnose Klumpfuß. Annual Meeting of the Austrian Society of Gynecology and Obstetrics and the Bavarian Society for Obstetrics and Gynecology, Vienna, Austria, June 2009.