

S. ROBERT ROZBRUCH, MD

Curriculum Vitae

Date of preparation: November 23, 2016

A. GENERAL INFORMATION

1. Name: S. Robert Rozbruch, MD
2. Office address: Hospital for Special Surgery
535 East 70th Street
New York, New York 10021
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3. Home address: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Telephone: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
4. Cell Phone: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
5. Email: RozbruchSR@hss.edu ; xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
6. Citizenship: United States of America
7. Optional information:
Date of birth: September 2, 1965
Place of birth: xxxxxxxxxxxxxxxxxxxxxxxx
Marital Status: xxxxxxxxxxxxxxxxxxxxxxxx
Spouse's name: xxxxxxxxxxxxxxxxxxxxxxxx
Children's names/ages: xxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Race/ Ethnicity: xxxxxxxxxxxxxxxxxxxxxxxx

B. EDUCATIONAL BACKGROUND

Degree	Institution Name	Institution Location	Dates Attended	Year Awarded	Honors
MD	Weill Cornell Medical College	New York, NY	Sept. 1986- May 1990	1990	Honors in Research
BA	University of Pennsylvania, College of Arts and Sciences	Philadelphia, PA	Sept. 1982- Dec. 1985	1985	Magna Cum Laude; Dean's List

C. PROFESSIONAL POSITIONS AND EMPLOYMENT

1. Post -doctoral training:

Internship in General Surgery
North Shore University Hospital, Manhasset, NY
July 1, 1990- June 30, 1991

Residency in Orthopaedic Surgery

Hospital for Special Surgery, Cornell University, New York, NY
July 1, 1991- June 30, 1995

AO/ASIF Orthopaedic Trauma Fellowship, University of Bern,
Bern, Switzerland, August 1 – October 30, 1995

Limb Lengthening and Deformity Correction Fellowship; (sabbatical)
Maryland Center for Limb Lengthening & Reconstruction
University of Maryland, Baltimore, MD; March 1, – September 30, 1999.
(currently known as: International Center for Limb Lengthening,
Rubin Institute, Sinai Hospital, Baltimore, MD)

2. Academic positions:

Clinical Instructor in Surgery (Orthopaedics)
Weill Cornell Medical College, New York, NY
February 1, 1996 – December 31, 1998.

Clinical Instructor in Orthopaedic Surgery
Weill Cornell Medical College, New York, NY
January 1, 1999 – October 31, 2001.

Assistant Professor of Orthopaedic Surgery
Weill Cornell Medical College, New York, NY
November 1, 2001 - October 31, 2007.

Associate Professor of Clinical Orthopaedic Surgery
Weill Cornell Medical College, New York, NY
November 1, 2007 – June 30, 2012

Professor of Clinical Orthopaedic Surgery
Weill Cornell Medical College, New York, NY
July 1, 2012 - present

3. Hospital positions:

Assistant Attending Department of Orthopaedic Surgery,
Hospital for Special Surgery, New York, NY; November 1995 – November 2007

Medical Staff, Department of Orthopedic Surgery
Beth Israel North Medical Center, New York, NY, 1995-1998.

Assistant Attending , New York Presbyterian Hospital- Cornell Medical Center, New York, NY
Department of Orthopaedic Surgery, February, 1996 - present

Associate Attending, Department of Orthopaedic Surgery,
Hospital for Special Surgery, New York, NY; November 2007 – June 30, 2012

Attending, Department of Orthopaedic Surgery,
Hospital for Special Surgery, New York, NY; July 1, 2012 – present

Service Chief, Limb Lengthening and Complex Reconstruction Service (LLCRS)
Hospital for Special Surgery, New York, NY; July 1, 2005 – present

Director, Limb Salvage and Amputation Reconstruction Center (LSARC)
Hospital for Special Surgery, New York, NY; July 1, 2015 – present

D. LICENSURE, BOARD CERTIFICATION, MALPRACTICE

1. Licensure

a. New York State, number xxxxxxxx, issued November 13, 1991,
Last registration period: 8/31/16 - 8/31/18

b. DEA number: xxxxxxxxxxxxxxxxx

2. Board Certification

American Board of Orthopaedic Surgery
ABOS does not issue certificate numbers
Issued July 16, 1998
Recertified July 2008

3. Malpractice insurance

XX
XX
XX
XX
XX

E. PROFESSIONAL MEMBERSHIPS

Limb Lengthening and Reconstruction Society

Member 1999- present

Executive Board, Treasurer, July, 2002- July, 2009

Second Vice President, July, 2010- July, 2011

Vice President, July 2011- July 2012

President, July 2012 – July 2013

Nominating Committee, July 2013- July 2015

Membership Chairman, July 2015- present

Executive Board 2002- 2009; 2010-present

Orthopaedic Trauma Association, Member, 1999- present

American Academy of Orthopaedic Surgeons, Fellow, 1999- present

Eastern Orthopaedic Association, Member, 2006- present

Nominating Committee, 2006- 2007

Weill Cornell Medical College Alumni Association, Member, 1990 to present

Diplomat of the National Board of Medical Examiners, 1991

New York State Society of Orthopaedic Surgeons, Member, 1995 to present

AO Alumni Association, Member, 1996 to present

F. HONORS AND AWARDS

Dean's Honor List,
University of Pennsylvania, 1982 – 1986

Magna cum Laude,
University of Pennsylvania graduation award, December 1985

David P. Barr Summer Research Fellowship,
Weill Cornell Medical College, summer 1986

NIH Summer Research Fellowship Award,
Weill Cornell Medical College, summer 1987, awarded \$1500
Rozbruch SR, Arnoczky SP: *A Synthetic Matrix for Cartilage Repair*

Research Thesis Honors Award,
Weill Cornell Medical College, April 1988
A Synthetic Matrix for Cartilage Repair

Neer Award,
American Shoulder & Elbow Surgeons Society
For outstanding clinical or basic research, February 1989
Anatomy and Histology of the Inferior Glenohumeral Ligament Complex of the Shoulder

Professor Jorge Miniero Award,
For excellence in orthopaedic surgical research, Lisbon, Portugal, 1989
Anatomy and Histology of the Inferior Glenohumeral Ligament Complex of the Shoulder

Papanicalaou Anatomy Fellowship,
Weill Cornell Medical College, September 1989

Harold Lamport Biomedical Research Prize,
Weill Cornell Medical College, May 1989

Dean's Research Prize,
Weill Cornell Medical College, May 1989

Honors in Research,
Weill Cornell Medical College graduation award, May 1990

American Academy of Orthopedic Surgeons Annual Meeting Top Scientific Exhibit,
February 2006.
Tibial Deformity with the Taylor Spatial Frame

New York Magazine's list of best doctors: 2006- 2016

Castle Connelly list of best doctors: 2006-2017

Who's Who in America; 2006-2016

Maimonides Outstanding Physician Award

Awarded by Chabad of Westchester at annual community dinner, June 17, 2010

International Visiting Professor, Israel Orthopedic Society

Jerusalem, Israel; 12/1/10- 12/3/10

Osteogenesis Teaching Award

Limb Lengthening and Complex Reconstruction Service 2011, Hospital for Special Surgery

Best Foot and Ankle Poster, American Academy of Orthopedic Surgeons Annual Meeting

Invited Poster to Orthopedic Research Society

Ankle Distraction Arthroplasty: How Much is Enough?

San Francisco, CA; February 2012

Visiting Professor, McGill University Dept. of Orthopedic Surgery

Montreal Canada, 2/29/12- 3/1/12

Mimics Innovation Award, March 2012

Development and Verification of a Computational Model of the Knee Joint for the Evaluation of Surgical Treatment of Osteoarthritis

American Academy of Orthopaedic Surgeons (AAOS) Achievement Award

For volunteer efforts to support patients, colleagues, the Academy, and the orthopaedic profession
2016, 2017

JBJS Essential Surgical Techniques Editor's Choice Technique Award 2016 for Subspecialty

Procedure article entitled "*Lengthening of the Femur with a Remote-Controlled Magnetic Intramedullary Nail: Retrograde Technique*" published May 2016.

Limb Lengthening and Reconstruction Society Specialty Day

American Academy of Orthopedic Surgeons

San Diego, CA; March 18, 2017

Best Papers of 2016 Annual Meeting:

Oxygen Consumption Testing and Self-reported Outcomes Following Limb salvage with Tibiocalcaneal or Tibio-talo-calcaneal Fusion.

American Academy of Orthopedic Surgeons

San Diego, CA; March 14-17, 2017

Top Foot and Ankle Poster:

Survival of Ankle Distraction Arthroplasty

G. INSTITUTIONAL/ HOSPITAL AFFILIATION

1. Primary Hospital Affiliation: Hospital for Special Surgery
2. Other Hospital Affiliations: New York Presbyterian Hospital, Cornell Medical Center

H. EMPLOYMENT STATUS

1. Employed by Hospital for Special Surgery
2. Full-time salaried at Cornell-affiliated hospital

I. CURRENT AND PAST INSTITUTIONAL RESPONSIBILITIES AND PERCENT EFFORT

		<u>Current Percent Effort (%) Does the activity involve WCMC students/researchers? (Yes/No)</u>
Teaching	30%	Yes
Clinical Care	30%	Yes
Administration	15%	Yes
Research	25%	Yes
TOTAL:	100%	

Teaching

Schedule:

Limb Lengthening preoperative planning conference, weekly, Monday, 7:00-8:00 AM

(August 2004 – present)

Limb Lengthening and Deformity Service weekly conference, Thursday 7:00-8:30 AM

(August 2004 – present)

Limb lengthening conference core curriculum; one hour per month. (August 2004- present)

Monthly topics:

Limb Deformity Analysis and Planning

The Ilizarov method

Taylor Spatial Frame

Tibial Fractures (plateau, shaft, pilon)

Nonunions of the tibia (septic and aseptic)

Congenital deformity/shortening of the tibia and fibula

Congenital deformity/shortening of the femur

Congenital pseudoarthrosis of the tibia

Post-traumatic growth arrest

Adult ankle reconstruction

Joint distraction for contracture and arthritis

Knee realignment for arthritis

Limb Lengthening Journal Club, two hours per quarter. (August 2004 – present)

Combined service conferences (one - two times per year with each service): Trauma, Arthroplasty,

Foot and Ankle, Hand and Upper Extremity, Sports (August 2005 – present)

Limb lengthening clinic and office practice, two days per week. (August 2004 – present)

Orthopedic trauma conferences, two hours per week (September 1999- September 2005)

Orthopaedic Resident/ Fellow Psychomotor Skills Cadaver labs (two times per year, 1999-2011)

Orthopedic Resident Core Curriculum Conference

-two lectures per year on limb deformity analysis and treatment methods (1999-present)

Surgical instruction of residents and fellows in operating room, HSS and NYPH.

Clinical instruction and research supervision of medical students, residents, and fellows: These are the fellows, visiting residents, and medical students that have rotated on my service with whom I have engaged in substantial teaching activities.

Clinical Fellow Education:

Austin T. Fragomen, MD, Limb Lengthening Fellow, August 2004- July 2005
Sheng Shu, MD, Limb Lengthening Research Fellow, December 2004- May 2005
Nazzar Tellisi, MD, Limb Lengthening Fellow, August 2005- August 2006
Mohammad Khadder, MD, Limb Lengthening Fellow, August 2006- August 2007
Raheel Shafi, MD, Limb Lengthening Fellow, August 2007 – July 2009
Saurab Kharkaria, MD, Limb Lengthening Clinical Preceptor, February 2008 – July 2008
Kashif Ashfaq, MD, Limb Lengthening Fellow, August 2008- July 2009
Ryhor Harbechuski, MD, Limb Lengthening Fellow, August 2009- July 2010
Shahab Mahboubian, DO, Limb Lengthening Fellow, August 2009- July 2010
Vladimir Goldman, MD; Limb Lengthening Fellow, August 2010- July 2011
Abjhit Pawar, MD; Limb Lengthening Fellow, August 2010- July 2011
Turner Vosseller, MD; Limb Lengthening Clinical Preceptor, August 2010- Oct. 2011
N. Brian Flowers, MD; Limb Lengthening Fellow, August 2011- July 2012
Raul Kuchinad, MD; Limb Lengthening Fellow, August 2011- July 2012
Yatin Kirane, MD; Limb Lengthening Fellow, August 2012- July 2013
Saravananja Muthusamy, MD; Limb Lengthening Fellow, August 2012- July 2013
Amgad Haleem, MD; Limb Lengthening Fellow, August 2013- July 2014
Mitchell Bernstein, MD; Limb Lengthening Fellow, August 2013- July 2014
Osama Elatter, MD; Limb Lengthening Fellow, August 2014- July 2015
Anton Kurtz, MD; Limb Lengthening Fellow, August 2014- July 2015
Stephen Greenfield, MD; Limb Lengthening Fellow; August 2015- July 2016
Ettore Vulcano, MD; Limb Lengthening Fellow; August 2015- July 2016
Michael Assayag, MD; Limb Lengthening Fellow; August 2016- July 2017
Tom Falls, MD; Limb Lengthening Fellow; August 2016- July 2017

Research Fellow Education:

Rudrani Belnekar, MD, Limb Lengthening Research Fellow, August 2006- August 2007
Saurab Kharkaria, MD, Limb Lengthening Research Fellow, August 2007 - January 2008
Thomas McCoy, BA, medical student (gap year), Weill Cornell Medical College,
Ilizarov Research Fellowship 7/1/10- 6/30/11
Samuel Zonshayn, BA; Medical student from Jefferson Medical College;

Summer research fellowship, June 25- August 10, 2012

Medical Student Education (Rotation on Limb Lengthening Service):

Noah Chinitz, BA; Mount Sinai medical school; September 2008

Oladapo Babatunde; University of Pennsylvania medical school; October 2008

Lloydine Jacobs; SUNY Albany medical school; November 2008

Stacy Wardle; St George's, University of London, Cranmer Terrace,
London, SW17 0RE, UK; 11/17/08- 12/11/08

Nikolas Kazmers, BA; Northwestern University, Feinberg School of Medicine
4th year medical student rotation; August 2009

Grant Daniel Shifflett; Medical School: University of Southern California
Dates: 9/28/09 - 10/23/09

Matthew Seah, Univ.of Edinburgh Medical School, 11/23/09-12/18/09

Natalie R. Danna, Robert Wood Johnson Medical School, 7/6/10-7/30/10

Alex Charles Lesiak, University of Nebraska Medical Center, 8/30/10 - 9/24/10

Rameez A. Qudsi, Harvard Medical School, 1/8/10 - 12/3/10

Lina Rodriguez, Pontificia Universidad Javeriana (Colombia) ; 1/31/11-2/25/11

Tonya Cramer, Chicago Medical School, Rosalind Franklin University of Medicine and
Science, North Chicago, IL; 9/1/11- 9/22/11

Jay Reidler; Harvard Medical School. 9/1/13- 9/30/13

Remy Rabinovich; UMDNJ Robert Wood Johnson Medical School, 10/28/13- 11/08/13

Samuel Zonshayn; Jefferson Univ. Medical School, September 2014

Jocelyn Compton; Columbia Univ. College of Physicians and Surgeons, October 2014

Jocelyn An; Washington University St. Louis; August 2015

William Probasco, MS ; LSU School of Medicine; September 2015

Research Assistants:

Dawn Cannon, BA; August 2006- July 2007

Kira Siegal, BA; August 2007- July 2008

Craig Fryman, BA; August 2008- July 2009

Lindsey Schachter, BA; August 2009- July 2010

Hiruklia Bezhani, BA; August 2010- July 2011

Eugene Borst, BA; August 2011-present

Orthopedic Resident Rotation on Limb Lengthening Service:

George Gantsoudis, MD; Mount Sinai Medical Center, 4th year orthopedic resident
rotation; June 2008

Jason Gould, MD; Mount Sinai Medical Center, 4th year orthopedic resident rotation;
December 2009

Goksel Dikmen, MD; Univ. of Istanbul Dept. of Orthopedics and Traumatology
Senior Resident; 1/2/11- 1/28/11

Milton Little, MD; Hospital for Special Surgery orthopedic resident PGY4;
9/19/11- 10/30/11

Peter Fabricant, MD; Hospital for Special Surgery orthopedic resident PGY4;
1/25/12- 2/25/12

Lauren LaMont, MD; ; Hospital for Special Surgery orthopedic resident PGY4;
September- October 2012.

Patrick Schottel, MD; Hospital for Special Surgery orthopedic resident PGY4;
October 22, 2012- December 7, 2012

Mikel Ercilla, MD; Complejo Hospitalario de Navarra. Orthopedic and Trauma Surgery
Service Orthopedic Resident PGY 4 Pamplona, SPAIN;
November 25- December 20, 2013

Shawn Richardson, MD; Hospital for Special Surgery orthopedic resident PGY 3
July 2105

Brian Ward, MD; Hospital for Special Surgery orthopedic resident PGY 3; August 2015

Jason Blevins, MD; Hospital for Special Surgery orthopedic resident PGY 3; August-
September 2015

Lionel Lazaro, MD; Hospital for Special Surgery orthopedic resident PGY 3; September
– October 2015

Visiting Surgeon Program:

Andreas Schrim, MD; Foot and Ankle Unit, Orthopedic Dept., Cantonal Hospital
St. Gallen, Switzerland; April 11-14, 2011

Tim O’Carrigan, MD; Sydney Australia. November 23, 2011

Tom McCoy Sr., MD, Charlotte, NC, November 25, 2011

Professor Redento Mora, President Italian Limb Lengthening Society
Dr Francesco Sala (Dept. of Orthopedics and Traumatology, Ospedale Niguarda,
Milano),
Dr Fabio Verdoni (Ospedale Ortopedico Gaetano Pini, Milano),
Dr Giovanni Lovisetti (Dept. of Orthopedics and Traumatology, Ospedale di Menaggio)
June 7 -8, 2012

Mr Nima Heidari, MBBS, MRCS(Eng), MSc, FRCS(Tr&Orth)
Consultant Foot & Ankle and Limb Reconstruction Surgeon
St Bartholomews and Royal London Hospital
Barts Health NHS Trust, London; December 10-14, 2012

John Warick, MD
Cincinnati, OH
December 10, 2014

Hosting of Annual Dr. Bonnie Reichman Visiting Professor
at Hospital for Special Surgery:

Professor John Herzenberg, Director, International Center for Limb Lengthening
Director, Pediatric Orthopedics, Sinai Hospital, Baltimore, MD; January 2009
Lecture: *Limb Lengthening for Achondroplasia*

Professor H. Tsuchiya, Kanazawa University, Kanazawa, Japan ; January 27-28, 2011
Lectures:

Limb Lengthening and Reconstruction of Benign Bone Tumors
Limb Lengthening and Reconstruction of Malignant Bone Tumors

Professor Sanjeev Sabharwal, UMDNJ, Newark, NJ; January 27, 2012
Lecture: *Treatment of Limb Deformity in Children- Lessons Learned*

Professor James Hutson; University of Miami; December 13-14, 2012
Lecture: *Treatment of Open Tibial Fractures with the Ilizarov Method.*

John Sontich, MD, Associate Professor, Case Western University, January 30-31, 2014
Lecture: *Untangling Mangled Extremities*

Reggie Hamdy, MD; Professor, McGill University; January 29-30, 2015
Lecture: *Basic Science and Clinical Applications of Limb Lengthening and
Reconstruction*

Dror Paley, MD, Professor Emeritus, University of Maryland, Director of Paley Institute,
West Palm Beach, FL. January 30, 2016.
Lecture: *Progress in and from Limb Lengthening*

Janet Conway, MD, Head of Infection Service, Sinai Hospital, Rubin Institute
Baltimore, MD. February 17, 2017
New Concepts in Treatment of Osteomyelitis

Courses taught at Cornell/ Hospital for Special Surgery/ Intramural Presentations:

The DuVigneaud Research Symposium, Cornell University Medical College, May 1989, lecturer,
Anatomy and Histology of the Inferior Glenohumeral Ligament Complex of the Shoulder

The Stimson Surgical Society, Cornell University Medical College; NY, NY; April 29, 1997,
presenter, *Introduction to Orthopaedic Trauma and Fracture Surgery*

Hospital for Special Surgery Orthopaedic Surgery Grand Rounds, New York, NY
January 12, 1996, lecturer,
Third World Medicine: Orthopedic Surgery Volunteer Mission in the West Indies

November 19, 1999, presenter
*Clinical Applications of the Ilizarov Method- Limb Lengthening and Deformity
Correction*

October 26, 2001, presenter,
*Applications of the Ilizarov Method to Limb Lengthening & Reconstruction:
Clinical Cases with Follow-up*

Hospital for Special Surgery Annual Alumni Meeting; New York, NY
Nov. 8, 1996, presenter
The Evolution of Femoral Shaft Plating Technique

November 7-8, 2002, presenter
Lengthening and Then Nailing (LATN) of the Tibia

November 6-7, 2003
Moderator- Limb Lengthening Symposium
Presentations:
Post-traumatic Reconstruction
External Fixation for Tibial Osteotomy

November 5, 2004, presenter,
Plenary Session: Top Scientific Papers
Treatment of Tibial Nonunions and Bone Defects with the Ilizarov/ Taylor Spatial Frame

November 15, 2007, presenter
Advances in Limb Lengthening Symposium
Hybrid Techniques: The Best of Internal and External Fixation

November 14-15, 2009, presenter
Osteotomies: Internal versus External Fixation
Complex Post-traumatic Reconstruction with External Fixation

November 12-13, 2010, presenter
Realignment vs. Unicompartmental Knee Replacement for Knee Arthritis

November 1-2, 2013
Presentations:
What's New in Limb Lengthening and Reconstruction Surgery?
Extra-articular deformity- Osteotomy before Knee Replacement
Symposium Moderator and Organizer:
Complexities of Total Knee Replacement

October 23, 2015
Presentation:
Class of 1995 Twenty Year Reunion Update

November 4, 2016
Presentation:
Adult Limb Deformity
Symposium Moderator and Organizer:
*Limb Lengthening and Deformity Correction: A New Paradigm With and Without
External Fixation*

Department of Radiology Grand Rounds, Hospital for Special Surgery; New York, NY
February 12, 2001; lecturer,

Clinical Applications of the Ilizarov Method- Limb Lengthening and Deformity Correction

January 23, 2002; lecturer,
Radiological Aspects of Limb Lengthening and the Ilizarov Method

February 26, 2003; lecturer,
Radiological Aspects of Limb Lengthening and the Ilizarov Method

Memorial Sloan Kettering Cancer Center, Department of Surgery Grand Rounds; New York, NY;
September 23, 2002, lecturer,
Applications of the Ilizarov Method to Tumor Reconstruction

Department of Rheumatology Grand Rounds, Hospital for Special Surgery; New York, NY
October 23, 2002; lecturer,
Applications of the Ilizarov Method

December 9, 2015
What's New in Limb Lengthening and Reconstruction Surgery

Department of Physiatry, Hospital for Special Surgery Grand Rounds, New York, NY
May 18, 2004, lecturer
Normal Alignment, Consequences of Mal-alignment, and Techniques for Realignment.

March 20, 2007, lecturer
Normal Limb Alignment, Mal-alignment, and Approach to Deformity Correction

October 13, 2009, lecturer
Malalignment of the Knee, Evaluation and Treatment

October 22, 2013, lecturer
Limb Realignment Surgery

January 10, 2017, lecturer
Normal Limb Alignment, Mal-alignment, and Approach to Deformity

Mosbacher Orthopaedic Trauma Lecture and Foot and Ankle Symposium
Hospital for Special Surgery, March 3, 2006
Faculty, Lecturer
Role of Circular External Fixation for Pilon Fractures

Foot and Ankle Service Visiting Professor Lecture and Symposium
Hospital for Special Surgery, September 8, 2006; Faculty, Lecturer
Ankle Distraction Arthroplasty: Treatment of Arthritis in Younger Patients

Overview of Skeletal Dysplasia, Conference
Hospital for Special Surgery March 16, 2007; faculty and lecturer
Limb Lengthening and Deformity Surgery

Perioperative Medical Grand Rounds
Hospital for Special Surgery, January 14, 2009
Clinical application of Limb Lengthening and Reconstruction Surgery

Resident Core Lecture Series

Hospital for Special Surgery, October 27, 2009
Osteomyelitis and Infected Nonunions/ Bone Defects

HSS Volunteer Lecture
Hospital for Special Surgery, Nov. 13, 2009
Limb Lengthening and Reconstruction Surgery

HSS Ambulatory Nursing Staff Lecture
Hospital for Special Surgery, Nov. 25, 2009
Limb Lengthening and Reconstruction Surgery
Pin Care Technique

Lecture to ABC Traveling Fellow Program
Hospital for Special Surgery, May 21, 2010
Limb Lengthening and Reconstruction Surgery

New York Presbyterian Hospital- Cornell Pediatric Endocrine Service
Weill Cornell Medical College, June 8, 2010
Limb Lengthening and Reconstruction Surgery in Children

Resident Core Lecture Series
Hospital for Special Surgery, June 8, 2010
Principles of Deformity Correction: Analysis and Surgical Planning

Fellow Cadaver Lab: Lower Extremity
Hospital for Special Surgery, May 19, 2011

Resident Core Lecture Series
Hospital for Special Surgery, September 6, 2011
Principles of Deformity Correction: Analysis and Surgical Planning

Resident Core Lecture Series
Hospital for Special Surgery, September 13, 2011
Clinical Applications of the Ilizarov Method

Fellow Cadaver Lab: Upper Extremity
Hospital for Special Surgery, September 15, 2011

Combined Service Conference: Limb Lengthening and Arthroplasty
Hospital for Special Surgery, January 26, 2012
Lecture given:
Complex Failures of Knee Arthroplasty: Treatment with Ilizarov Method

Conservative Management of Knee Osteoarthritis Symposium
Hospital for Special Surgery, March 9, 2012
Effectiveness of Surgical Realignment for the Management of Knee Osteoarthritis

Fellow Cadaver Lab: Lower Extremity
Hospital for Special Surgery, March 22, 2012

Resident Core Curriculum Lecture

Hospital for Special Surgery; July 31, 2012
Principles of Deformity Correction and Realignment of the Knee

Fellow Cadaver Lab: Lower Extremity
Hospital for Special Surgery, October 18, 2012

Resident Core Curriculum Lecture
Hospital for Special Surgery; September 15, 2014
Understanding Deformity Correction and TSF Principles

Physician Referral Service Lecture
Hospital for Special Surgery; April 29, 2015
What's New in Limb Lengthening and Deformity Correction

Physical Therapy Lecture
Hospital for Special Surgery; May 27, 2015
What's New in Limb Lengthening and Deformity Correction

Hospital for Special Surgery
E Academy Webinar; June 30, 2015
The Failed Pilon Fracture

Moderator

Lecture given: *Complex Reconstruction for Infection and Bone Loss*

Core Sports Medicine Conference
Hospital for Special Surgery, June 2, 2016
Tibial Osteotomy for Knee Realignment

Clinical Care

Hospital based practice- Orthopaedic Surgery. September 1999- present
Specialties: Limb Lengthening & Deformity Correction, Trauma & Reconstruction.

I see patients in the clinic two days per week. During that time, I am accompanied by my orthopedic fellow, and rotating medical students and residents. Patient care and teaching are combined routinely.

Every Monday morning, we hold a preoperative planning conference. The fellow and visiting medical students present the surgical cases for the upcoming week. We discuss indications for surgery and engage in detailed surgical planning.

Two days per week, I perform surgery. I am assisted by an orthopedic fellow, rotating medical students and residents. Patient care and teaching are combined to create an environment of both excellent patient care and learning.

Administrative

Co-Chief Limb Lengthening Clinic, Hospital for Special Surgery. September 1999 – October 2002

Director, Institute for Limb Lengthening and Reconstruction, Hospital for Special Surgery, October 2002 – September 2005

Director, Limb Lengthening Fellowship, Hospital for Special Surgery, August 2004 - 2009

Fellowship Committee, Hospital for Special Surgery, August 2004 – 2009

**Service Chief, Limb Lengthening & Complex Reconstruction Service (LLCRS),
Hospital for Special Surgery, September 7, 2005- present.**

Medical Advisory Committee, Center for Skeletal Dysplasias, December 2005 to present.

HSS Annual Alumni Meeting Planning Committee, Hospital for Special Surgery,
November 2006 to present

HSS Curriculum Committee, Hospital for Special Surgery 2012- present.

Trauma Service Chief Serach Committee, Hospital for Special Surgery, 2016-2017

Research

My research interests relate to limb lengthening, deformity correction, and the Ilizarov method. While my main focus has been on clinical research, I have participated in basic science research to answer relevant clinical questions. My clinical research began with retrospective level 4 studies reviewing my experience. This has evolved with the growth of our service and clinical experience. Research quality has substantially improved to retrospective comparison and prospective comparison studies. I plan to continue to ask clinical questions and implement new treatment modalities within a responsible and organized clinical research program. As the service chief, I mentor, support, and help my colleagues, fellows, residents, and students to follow in this path.

List of ongoing research projects:

Prospective evaluation of limb lengthening and reconstruction outcomes (Data Registry)

Changes in gait following surgical correction of genu varum in children and young adults
(Prospective study in conjunction with gait lab at HSS)

Biomechanical effects of gradual correction of limb malalignment using external fixation: gait
analysis (Prospective study in conjunction with gait lab at HSS)

Tibio-calcaneal fusion vs. below knee amputation: analysis of gait and function (prospective
study)

Treatment of severe hip arthrosis and massive apparent leg length inequality with total hip
replacement. (Haleem)

MRI changes in ankles undergoing distraction arthroplasty (Haleem)

A Post Market Prospective Evaluation of Performance & Safety of the Ellipse Technologies PRECICE Intramedullary Limb Lengthening System

Peri-prosthetic Osteotomy for Correction of Genu Valgum Deformity After Total Knee Arthroplasty (Kirane)

Anesthesia for Removal of External Fixation (Kurtz)

Femur Lengthening: A Comparison of Internal Lengthening with the Precice Nail vs. Lengthening over a Nail (Kurtz)

Femur Lengthening: A Cost Comparison of Internal Lengthening with the Precice Nail vs. Lengthening over a Nail (Richardson)

Does Opening Wedge Distal Femoral Osteotomy Accurately Correct Valgus Knee Deformity? (Elattar)

Correction of Knee Valgus and Patella Subluxation with Distal Femoral Osteotomy (Swarup, Elattar)

Limb Reconstruction for Treatment of Chronic Osteomyelitis of the Tibia and Ankle (Richardson)

Outcome and Survivorship of Ankle Distraction (Greenfield and Vulcano)

Treatment of Ankle Arthritis and Deformity with Supramalleolar Osteotomy and Ankle Distraction (Greenfield and Vulcano)

Use of the 95 Degree Blade Plate for Proximal Femur Malunions and Nonunions (Richardson)

Outcome after Stature Lengthening: Musculoskeletal and Psychological (Rozbruch)

Tranexamic Acid Effect on Blood Loss after Distal Femoral Osteotomy (Ward) R Wu first pt.

Treatment of Knee Flexion Contracture with Circular External Fixation (Vulcano)

Bone healing in the femur after lengthening with an internal rod: Pixel Density Analysis (Vulcano)

J. RESEARCH SUPPORT:

Limb Lengthening Research and Education Fund
\$100,000 contribution from Drayton family (grateful patient), 2016

Limb Lengthening Research and Education Fund
\$31,000 contribution from LeFrak family (grateful patient), 2015

Limb Lengthening Research and Education Fund
\$20,000 contribution from Sarin family (grateful patient), 2014

Limb Lengthening Research and Education Fund
\$100,000 contribution from DiNicolau family (grateful patient), 2011

Limb Lengthening Research and Education Fund
\$25,000 contribution from Jamie Lefrak (grateful patient), 2010
\$14,000 contribution in 2013.

Limb Lengthening Visiting Professorship
Annual \$5000 contribution from Dr. Bonnie Reichman (grateful patient), 2009- 2017

Rozbruch SR: Limb Lengthening Research and Education Fund.
Funded EBI/ Biomet Trauma, \$50,000, August 2007-August 2008

Limb lengthening and Reconstruction Fellowship August 2007-August 2008
Supported by Smith and Nephew, Inc \$75,000

Rozbruch SR: Limb Lengthening Research and Education Fund.
Funded EBI, \$25,000, August 2006-August 2007

Limb lengthening and Reconstruction Fellowship August 2006-August 2007
Supported by Smith and Nephew, Inc \$75,000

Limb lengthening and Reconstruction Fellowship August 2005-August 2006
Supported by Smith and Nephew, Inc \$75,000

Rozbruch SR: Prospective evaluation of limb lengthening outcomes.
Funded by Smith and Nephew, \$25,000 and EBI, \$25,000 in 2003.
Funded by Smith and Nephew, \$25,000 in 2004

Rozbruch SR: Limb Lengthening PA and Research Associate (Arkady Blyakher, SA).
Funded by Smith and Nephew, \$50,000 per year 1999 to 2005.

Rozbruch SR: Limb Lengthening Clinical and Research Fellowship.
Funded by Smith and Nephew, \$25,000 and EBI, \$25,000, August 2004-August 2005

Rozbruch SR: *Clinical Evaluation of the ISKD Internal Lengthening Nail*
- a multicenter prospective corporate funded study, 2003-2004
funded by Orthofix Inc. , \$3000

Rozbruch SR; Golkar L: Biomechanical analysis of femoral shaft fixation- traditional plating
modern plating, and intramedullary rodding, 2000
Funded by Smith & Nephew, \$3000

K. EXTRAMURAL PROFESSIONAL RESPONSIBILITIES

1. Leadership in National Society

Limb Lengthening and Reconstruction Society
Executive Board, Treasurer, July, 2002- July, 2009
Second Vice President, July, 2010- July, 2011
Vice President, July 2011- July 28, 2012
President, July 28, 2012 – July 2013
Nominating Committee, July 2013- July 2015
Membership Chairman, July 2015- present

2. Journal Reviewer:

Editorial board, *Journal of Orthopaedic Trauma*, November 2002 – April 2012

Review about one article per month
Editorial board, *Journal of Limb Lengthening and Reconstruction Surgery*, 2015 to present
Reviewer, *Clinical Orthopaedics and Related Research* – September 2004 to present
Reviewer, *Journal of Orthopaedic Research*, December 2004 – present
Reviewer, *Journal Hospital for Special Surgery*, 2011- present

3. Orthopaedic Consultation to Industry:

Smith and Nephew Inc. 2010- present. I have worked on educational programming of the Ilizarov/ Taylor Spatial Frame. I am currently working on development of the NOVOS internal limb lengthening nail.

Stryker/ Small Bone Innovations, 2007 to present. I developed an ankle distraction frame called RAD (Rozbruch Ankle Distraction) that is widely used in clinical practice. I have given educational presentations on this topic and product.

Nuvasive/ Ellipse Medical, 2013 to present. I have worked on educational programming and product development for the PRECICE internal lengthening nail.

4. Leadership at national and international educational courses/ meetings:

Introduction to the Taylor Spatial Frame- Trauma Applications Course
Hospital for Special Surgery, New York, NY, January 31, 2003

Course Chairman; Lectures:

1. *Fractures and Post-traumatic Reconstruction*
2. *Foot and Ankle Deformity*
3. *Case Examples on the Computer*
4. *Computer Simulation Model*

American Academy of Orthopaedic Surgeons Annual Meeting
Washington DC, February 27, 2005

Chairman, Limb Lengthening and Reconstruction Society Specialty Day;
Moderator of Foot and Ankle Symposium.

Applications of the Ilizarov/ Taylor Spatial Frame to Foot and Ankle Reconstruction Course
New York, NY, July 28, 2005

1. Course Chairman

2. Lectures

- a. *Failed Pilon Fractures*
- b. *Principles of Deformity Correction*

Applications of the Ilizarov/ Taylor Spatial Frame to Foot and Ankle Reconstruction Course
San Diego, CA; July 20, 2006

1. Course Chairman

2. Lectures

- a. *Failed Pilon Fractures*
- b. *Correction of Distal Tibial Deformity with the Taylor Spatial Frame- Lab session*

American Academy of Orthopaedic Surgeons Annual Meeting
San Diego, CA, February 16, 2007

Symposium Leader and Moderator

Techniques for Tibial Deformity Correction: State of the Art.

Principles and Deformity Planning: Dror Paley, MD

Intramedullary Nailing: David L. Helfet, MD

Fixator Assisted Plating: Joachim Pfeil, MD

Monolateral External Fixation: Richard Davidson, MD

Circular External Fixation: S. Robert Rozbruch, MD

Comprehensive Circular External Fixation Course
Boston, MA; April 4-5, 2008

1. Course Chairman

2. Lectures

- a. Introduction to TSF- Indications and Scope*
- b. Tibial Shaft Fractures- lab*
- c. Proximal Tibial Osteotomy- lab*
- d. Billing and Coding*
- e. Complications: Bailing Yourself Out*
- f. Overview of Foot and Ankle Indications for the TSF*

Advanced Taylor Spatial Frame Course
Marriott New York Hotel, June 10-11, 2010

Course Chairman

Lectures:

1. *Overview of TSF*
2. *Distal Tibia Applications*
3. *Upper Extremity Applications*
4. *Building and Sustaining a Limb Deformity Practice*

Eastern Orthopedic Association Annual Meeting (upcoming)
Williamsburg, VA, October 22, 2011

Symposium leader and moderator:

Lower Extremity Applications of Limb Lengthening and Reconstruction Surgery
Post-traumatic (AT Fragomen, MD)
Salvage of Failed Knee and Ankle Arthroplasty (SR Rozbruch, MD)
Children (Richard Bowen, MD)

National Orthopedic Leadership Conference (NOLC)
Washington, DC; April 26-27, 2012

Board of Specialties (BOS) representative
BOS Communications Committee participation

Foot and Ankle Deformity Course
Roosevelt Hotel, NYC, October 27, 2012

Course Chairman:

Lectures:

Ankle Malunions
Bone Transport with Ankle Joint Preservation
Ankle distraction Plus Bony Deformity Correction
Adult Flatfoot
Charcot Midfoot

Introduction to Taylor Spatial Frame
Marriott Hotel, West Street, NYC, October 25, 2014

Course Chairman:

Lectures:

Principles of Deformity Correction and TSF
Pediatric Deformity Correction
Hexapod Applications to Foot and Ankle Deformity

4. Invited lectures: (lecture titles in italics)

Baltimore Limb Deformity Course, University of Maryland; Baltimore; September 11, 1999,
The History of the Pelvic Support Osteotomy

Long Island Jewish Hospital Department of Orthopaedic Surgery Grand Rounds,
Lake Success, NY; March 8, 2000

Clinical Applications of the Ilizarov Method- Limb Lengthening and Deformity Correction

10th Annual Baltimore Limb Deformity Course, Faculty, lecturer,
University of Maryland, September 7-12, 2000

1. *History and Results of Pelvic Support Osteotomy*
2. *Pelvic Support Osteotomy Lab Demonstration*
3. *Fixator- Assisted Nailing Lab Demonstration*

Department of Orthopaedics, NY Medical College- Westchester Medical Center Grand Rounds
New York, NY; December 18, 2000

Clinical Applications of the Ilizarov Method- Limb Lengthening and Deformity Correction

Department of Orthopaedics Grand Rounds, SUNY Downstate Medical Center
Brooklyn, NY; February 23, 2001

Clinical Applications of the Ilizarov Method- Limb Lengthening and Deformity Correction

Department of Orthopaedics Grand Rounds, SUNY Stony brook
Stony brook, NY; April 27, 2001

Clinical Applications of the Ilizarov Method- Limb Lengthening and Deformity Correction

Department of Orthopaedics Grand Rounds, St. Vincent's Hospital
New York, NY; May 9, 2001

Clinical Applications of the Ilizarov Method- Limb Lengthening and Deformity Correction

11th Annual Baltimore Limb Deformity Course, Faculty, lecturer
Baltimore, Maryland, September 6-11, 2001

1. *Case Discussion- Adult Femoral Post-traumatic LLD with Deformity*
2. *Bone Lab Demonstration- Tibia Diaphyseal Varus Using Ilizarov*
3. *Hands on external fixator course- Ilizarov*

Department of Orthopaedics Dinner conference, SUNY Stony brook
Stony brook, NY; December 26, 2001

Applications of the Ilizarov Method to Limb Lengthening & Reconstruction:

Taylor Spatial Frame Master's Course, faculty
Memphis, TN April 5-6, 2002

Trauma and Reconstruction Using the Taylor Spatial Frame

Essentials of Ilizarov, course faculty
Atlanta, GA April 25-26, 2002

Distal Tibia Periarticular Fractures- postoperative management

Comprehensive Ilizarov Solutions, course faculty
Atlanta, GA; April 27-28, 2002

1. *Techniques of Osteotomy*
2. *Deformity Correction-Postoperative Management*

Essentials of Limb Lengthening, Limb Reconstruction, and External Fixation Course
Limb Lengthening & Reconstruction Society (LLRS),
Dallas, TX; June 7-9 2002; faculty, presenter,

Complications of the Limb Lengthening & Reconstruction

12th Annual Baltimore Limb Deformity Course, faculty, lecturer
Baltimore, MD; Sept 1-5, 2002

1. *Pelvic Support Osteotomy for Neonatal Septic Arthritis*
2. *Trauma & Reconstruction using the Taylor Spatial Frame*
3. *Articulated Distraction of the Knee and Ankle- Lab*

EBI Trauma Forum, faculty, lecturer,
Parsippany, NJ; September 20, 2002

Post-traumatic Deformity Correction Using Monolateral External Fixation.

Mary Immaculate Hospital, Department of Orthopedic Surgery Grand Rounds
Jamaica, NY; September 25, 2002

Applications of the Ilizarov Method

New York Methodist Hospital, Podiatry Grand Rounds
Brooklyn, NY; November 11, 2002

Applications of the Ilizarov method to the Foot and Ankle

Memphis Spatial Frame Course- Faculty, lecturer,
Memphis, TN, December 5-6, 2002

1. *Fractures and Post-traumatic Reconstruction*
2. *Foot and Ankle Deformity*

New York Presbyterian Hospital - Queens, Podiatry Grand Rounds
Queens, NY; January 21, 2003

Applications of the Ilizarov method to the Foot and Ankle

American Academy of Orthopaedic Surgeons Annual Meeting,
Limb Lengthening and Reconstruction Society (LLRS) Specialty Day
New Orleans, Louisiana , February 8, 2003

*Current Techniques of Deformity Correction- Symposium Moderator
Combination Techniques for Deformity Correction (lecture)*

St. Mary's Hospital, Podiatry Grand Rounds
Hoboken, NJ; March 18, 2003

Applications of the Ilizarov method to the Foot and Ankle

Lenox Hill Hospital, Dept. of Orthopedic Surgery Grand Rounds
New York, NY; March 24, 2003

Applications of the Ilizarov method to Limb Lengthening & Reconstruction

Essentials of Ilizarov Surgical course- Faculty
New York, NY, May 1-2 2003

Postoperative management

Comprehensive Ilizarov Solutions (Surgical course)- Faculty
New York, NY; May 3-4 2003

1. *Basic Femoral Construct*
2. *Basic Femoral Frame Lab*

EBI Pediatric Forum
Parsippany, NJ; August 8, 2003

Femur Lengthening using Monolateral External Fixation

13th Annual Baltimore Limb Deformity Course, faculty
Baltimore, MD; Sept 7-11, 2003

1. *Normal Lower Extremity Alignment*
2. *Consequences of Malalignment*
3. *Taylor Spatial Frame for Trauma*
4. *Taylor Spatial Frame for Chronic deformity Correction*
5. *Ilizarov Hip Reconstruction using a Monolateral Frame (Lab leader)*

Essentials of Ilizarov and Taylor Spatial Frame, faculty, lecturer
Tucson, Arizona; Oct 22-25, 2003

1. *Introduction to Taylor Spatial Frame Software*
2. *Rings First Total Residual Application of the Taylor Spatial Frame*
3. *Tibial Shaft Fracture using the Taylor Spatial Frame- Lab*
4. *Clinical transition to the Taylor Spatial Frame*

New York Hospital- Queens, Podiatry grand rounds
Flushing, NY; December 2, 2003
Limb Deformity Correction with External Fixation

Taylor Spatial Frame External Fixation Course, faculty, lecturer
Snowmass, Colorado; February 20-22, 2004

1. *Bone Transport*
2. *Fractures and Reconstruction*

American Academy of Orthopaedic Surgeons Annual Meeting
Limb Lengthening and Reconstruction Society Specialty Day
San Francisco, CA; March 12-13, 2004
Post-traumatic Reconstruction of the Ankle

Essentials of external fixation for Foot and Ankle Course, Faculty
Beaver Creek, CO; August 4-8, 2004

Lectures given:

1. *Surgical Management of Failed Pilon Fractures*
2. *Principles of Deformity Correction*
3. *Post-operative Complications While in the frame*
4. *Physical Therapy*
5. *Correction of Ankle Contracture with Ilizarov Frame and Hinges*

14th Annual Baltimore Limb Deformity Course, faculty
ISKD precourse, Nonunion precourse
Baltimore, MD; Sept 3-9, 2004, Lectures Given:

1. *Taylor Spatial Frame for Malunions*
2. *Pelvic Support Osteotomy: Ilizarov hip Reconstruction*
3. *Taylor Spatial Frame- Tips and Tricks*
4. *ISKD for femur Lengthening*
5. *External Fixation for Nonunions of the Tibial Diaphysis*
6. *External Fixation for Nonunions of the Proximal Tibial Metaphysis*
7. *External Fixation for Nonunions of the Distal Femur*

New York Hospital- Queens, Podiatry grand rounds
Flushing, NY; November 30, 2004

Principles of Deformity Correction: Lower Extremity, Foot and Ankle

Essentials of External Fixation Course
Atlanta, GA; April 8-10, 2005; Faculty
Lectures given:

1. *Biomechanics of Stable Fixation*
2. *Taylor Spatial Frame Concept*
3. *Overview of Taylor Spatial Frame Software*
4. *Taylor Spatial Frame Computer Lab*
5. *Pre-operative Planning for Circular Fixation*
6. *Distal Peri-articular Tibia Fracture Lab*

15th Annual Baltimore Limb Deformity Course, faculty
TSF for foot and ankle post course; ISKD post course
Baltimore, MD; Sept 9, 2005, Lectures Given:

1. *Supramalleolar Osteotomy Constructs with the Taylor Spatial Frame*
2. *ISKD for femur Lengthening*

Grand Rounds Guest Lecturer, Dept. of Orthopaedic Surgery
Mount Sinai School of Medicine, New York, NY, November 30, 2005
Post-traumatic Reconstruction of the Ankle using the Ilizarov Method

Guest Lecture to Pediatric Endocrinology group
Dept. of Pediatrics, Mount Sinai School of Medicine, New York, NY, February 8, 2006
Pediatric Applications of Limb Lengthening and Reconstruction Surgery

EBI Orthopaedic Residents Course, faculty, lecturer
Parsippany, NJ; February 17, 2006

1. *Limb Lengthening and Deformity Correction using Monolateral External Fixation*
2. *Multiaxial Correction (MAC) Frame for Correction of Femoral Deformity- Workshop*

American Academy of Orthopaedic Surgeons Annual Meeting
Limb Lengthening and Reconstruction Society Specialty Day
Chicago, IL; March 22-26, 2006

Clinical Experience, Pearls, and Pitfalls with the Multi-axial Correction (MAC) Frame.

New York Hospital- Queens, Podiatry grand rounds- guest lecturer
Flushing, NY; March 28, 2006
Applications of the Ilizarov Method to Foot and Ankle Reconstruction

16th Annual Baltimore Limb Deformity Course, Baltimore, Maryland, September 5-7, 2006
Lectures:

1. *Taylor Spatial Frame for Malunions*
2. *Supramalleolar Osteotomy Constructs*

Interurban Orthopaedic Society, Centennial Annual Meeting
New York, NY October 5, 2006
Frontiers in Limb Lengthening and Reconstruction Surgery

Eastern Orthopaedic Association Annual Meeting, presenter,
Boca Raton, Florida, October 19, 2006
Management of the Failed Pilon Fracture: Post-traumatic Reconstruction,
in Pilon Fracture Symposium

New York Medical College Orthopaedic Symposium
Westchester Country Club; Harrison, NY, October 26, 2006

Faculty, Lecturer:
Distraction Arthroplasty of the Ankle

Essentials of External Fixation Course
New York, NY; November 10-12, 2006
Faculty and Local Host
Lectures given:

1. *Peri-articular Fracture Management*
2. *Strategies for Treatment of Tibial Mal/Nonunions*
3. *Bone Transport Lab*

New York Podiatric Clinical Conference
New York, NY; January 19, 2007
Faculty; Lectures:

1. *Surgical Treatment of Charcot Neuro-Arthropathy*
2. *Surgical Treatment of Osteomyelitis*

Lenox Hill Hospital Department of Orthopedic Surgery Grand Rounds
New York, NY ; February 5, 2007
Frontiers in Limb Lengthening and Reconstruction

American Academy of Orthopaedic Surgeons Annual Meeting
Limb Lengthening and Reconstruction Society Specialty Day
San Diego, CA, February 17, 2007
Use of the Ilizarov Method for Limb Salvage Reconstruction After Failed Joint Replacement

Bridgeport Hospital Center, Dinner Lecturer
Frontiers in Limb Lengthening and Reconstruction Surgery
Fairfield, CT March 29, 2007

American Orthopaedic Foot and Ankle Society (AOFAS) Annual Meeting
Toronto, Ontario; July 12-15, 2007.

1. *Pre-meeting course: Treatment of Stage 4 PTTD with the Ilizarov Method*
2. *Treatment of Charcot deformity with Ilizarov frame.*

17th Annual Baltimore Limb Deformity Course
Advanced Course: Deformity Correction with the Taylor Spatial Frame
Baltimore, Maryland, September 6, 2007
Tips and Tricks for the Taylor Spatial Frame

American Orthopaedic Foot and Ankle Society (AOFAS) Annual Meeting
Pre-meeting Course: State of Art Management of Ankle Arthritis
Denver, Colorado; June 25, 2008
Periarticular Osteotomy for Ankle Arthritis

18th Annual Baltimore Limb Deformity Course
Baltimore, Maryland, September 1, 2008
Lectures:

1. *Radiology of Lower Limb Deformities*
2. *Fixator-assisted Plating of the Femur*

Eastern Orthopaedic Association Annual Meeting
Las Vegas, Nevada; October 25, 2008
Management of the Failed Pilon Fracture: Post-traumatic Reconstruction,

in Pilon Fracture Symposium

American Academy of Orthopaedic Surgeons Annual Meeting
Specialty Day; Las Vegas, NV February 28, 2009

1. *Fixator Assisted Plating and Nailing*
2. *Bone Techniques for Soft-tissue Wounds*

American College of Foot and Ankle Surgeons (ACFAS)
Ankle Distraction Course, sponsored by SBI; March 4, 2009

1. *Innovations in Ankle Distraction Arthroplasty*
2. *Ankle Distraction demonstration and lab*

Eastern Orthopaedic Association Annual Meeting
Paradise Island, Bahamas; June 17-20, 2009

Nonunions and Deformity- The Power of External Fixation

19th Annual Baltimore Limb Deformity Course

Osteomyelitis Post-course

Baltimore, Maryland, September 9-11, 2009

Lectures:

1. *Lengthening and then Nailing*
2. *Osteomyelitis: Diagnostic Imaging and Laboratory Testing*
3. *Bone Transport versus Acute Shortening for Bone Defects*
4. *Closure of Soft-tissue Defects by Transport and Shortening*

30th Annual Meeting of the Israel Orthopaedic Association

Jerusalem, Israel; December 1-3, 2010

Invited International Guest Speaker

A. Plenary Session:

1. *Post-traumatic Reconstruction Using the TSF*

B. Pediatric Orthopaedic Specialty Day:

1. *Correction of Limb Deformity in the Pediatric Patient*
2. *Timing and Strategy for Limb Lengthening in the Pediatric Patient*

Mount Sinai Medical Center, Pediatric Endocrine Grand Rounds Lecture

New York, NY; February 4, 2011

Timing and Strategy for Limb Lengthening in the Pediatric Patient

American Academy of Orthopaedic Surgeons Annual Meeting

Specialty Day; San Diego, CA; February 19, 2011

1. *Humeral Deformity and Lengthening (Pediatric Upper Extremity Session)*
2. *Ankle Arthritis in 60 year old: Ankle Replacement vs. Distraction*
3. *Current Criteria for Limb Lengthening in Pediatrics*

Dinner Meeting presentation, Miami, FL, April 20, 2011

Sponsored by Smith and Nephew Inc.

1. *Post-traumatic Reconstruction Using the TSF*
2. *Upper Extremity Reconstruction Using the TSF*

Essentials of External Fixation, June 10-11, 2011

Marriot Eastside; New York, NY

1. *Introduction to the Taylor Spatial Frame*

2. *Post-operative Care*

The Magic Foundation

Lomard, IL; July 15, 2011

Invited Guest Speaker to Russell Silver Syndrome and Small for Gestational Age Division

Limb Lengthening in Children with Russell Silver Syndrome and for Other Etiologies

Northshore/ Long Island Jewish University Hospital Orthopedic Grand Rounds

New Hyde Park, NY, January 25, 2012; visiting professor

Limb Deformity and Post-traumatic Reconstruction

Limb Lengthening and Reconstruction Society Specialty Day

American Academy of Orthopaedic Surgeons Annual Meeting

San Francisco, CA; Feb. 11, 2012

The Top 5 Research Questions I want LLRS to Answer

Visiting Professor, McGill University, Dept. of Orthopedic Surgery

Montreal, Canada; Feb. 29- March 1, 2012

Grand Rounds Lecture: *Limb Deformity Correction*

Resident Lecture: *Hybrid Techniques for Limb Lengthening*

Case Presentations

International Visiting Professor, Memorial Hospital

Istanbul, Turkey; May 12, 2012

Advanced Techniques of Limb Lengthening and Deformity Correction

Lectures:

Lengthening and then Nailing

Fixator Assisted Plating

Bone Transport Over Intramedullary Nail

Hexapodal Systems- Ankle Applications

Hexapodal Systems- Cases I Cannot Forget

Live Surgery Demonstration: Tibia and fibula osteoplasty and application of hexapod frame

Essential Deformity Course

Limb Lengthening and Reconstruction Society Annual Meeting

Cincinnati, OH; July 28, 2012

Tibial Deformity Correction with TSF- Lecture and Lab

New York Foot & Ankle Deformity Course,

Smith & Nephew Medical Education

Roosevelt Hotel, October 27, 2012

Lectures:

Bone Transport and Ankle Preservation

Ankle Malunions Supramalleolar Deformity

Ankle Distraction with Bony Deformity Correction

Adult Flatfoot Correction

Charcot Midfoot Reconstruction

24th Annual Holiday Total Knee Course

Grand Hyatt Hotel, Sponsored by Hospital for Special Surgery

New York, NY; December 7, 2012

External Fixators for Complex Cases

Pediatric Endocrine Rounds

Department of Pediatrics, Weill Cornell Medical Center
Limb Lengthening in Children
New York, NY; January 22, 2013

New York Clinical Podiatric Conference
External Fixation for Charcot Deformity of Foot and Ankle
Marriott Marquis Hotel
New York, NY; January 26, 2013

Limb Lengthening and Reconstruction Society Specialty Day
American Academy of Orthopaedic Surgeons Annual Meeting
Chicago, IL; March 23, 2013
Debridement of Osteomyelitis: Science or Experience?

Advanced Taylor Spatial Frame Course
Smith and Nephew Medical Education
Memphis, TN; August 2-3, 2013
Lectures:
Understanding Deformity Correction and TSF
Knee Fusion: Indications and Technique

Kimmel Hyperbaric and Advanced Wound Healing Center Lecture Series
NYU Medical Center, New York, NY; October 29, 2013
Limb Deformity and Wound Healing

25th Annual Holiday Total Knee Course
Grand Hyatt Hotel, Sponsored by Hospital for Special Surgery
New York, NY; December 6, 2013
Extra-articular Deformity Treated with Osteotomy

Limb Lengthening and Reconstruction Society Specialty Day
American Academy of Orthopaedic Surgeons Annual Meeting
New Orleans, LA; March 15, 2014

1. *Adult Femur Lengthening Algorithm*
2. *Ankle Distraction Arthroplasty- HSS Experience*

Conservative Management of Knee Arthritis Course
Hospital for Special Surgery, March 28, 2014
Realignment Surgery with Osteotomy

Vumedi Webinar
Advanced Limb Reconstruction, May 12, 2014
Hybrid Techniques: Internal and External Fixation

Limb Lengthening and Reconstruction Society Annual Meeting
Montreal, Quebec CANADA; July 25-26, 2014
Past President's Symposium

24th Annual Baltimore Deformity Course
Internal Lengthening Nails Precourse
Baltimore, MD; August 28, 2014

1. *Antegrade Femur Surgical Technique*

2. *Hospital for Special Surgery Experience*

26th SICOT Triennial World Congress/ 46th Brazilian Congress of Orthopedics and Traumatology
Rio de Janeiro, Brazil; November 19-22, 2014

Invited International Speaker

Lectures delivered:

1. *Management of Nonunions and Bone Defects*
2. *Limb Lengthening in Children with Russell Silver Syndrome*
3. *Treatment of Foot and Ankle Deformity with Supramalleolar Osteotomy*

26th Annual Holiday Knee and Hip Course

Grand Hyatt Hotel, Sponsored by Hospital for Special Surgery

New York, NY; December 4-5, 2014

Lectures Delivered:

1. *Osteotomy for treatment of osteoarthritis*
2. *What to do when conventional treatment won't work*

New York Clinical Podiatric Conference

Lecture: *Dealing with Bone Defects of the Foot, Ankle, and Leg*

Marriott Marquis Hotel

New York, NY; January 23, 2015

American Academy of Orthopaedic Surgeons Annual Meeting

Instructional Course Lecture (ICL)

The Failed Pilon Fracture

Las Vegas, NV; March 25, 2015

Ellipse Medical Inc. Lecture

At American Academy of Orthopaedic Surgeons Annual Meeting

Internal Bone Lengthening with the Precice Nail

Las Vegas, NV; March 25, 2015

Magic Foundation 21st Annual Convention

Lombard, IL; July 11, 2015

Leg Lengthening in Russell Silver Syndrome (RSS)- Who, Why, & Where?

25th Annual Baltimore Deformity Course

Internal Lengthening Nails Precourse

Baltimore, MD; August 27, 2015

1. *Antegrade Femur Surgical Technique- Step by Step*
2. *Hospital for Special Surgery Experience: PRECICE vs. ISKD*

PRECICE Webinar Series Part 1

The Latest Intramedullary Limb Lengthening Solution for the Orthopedic Surgeon

Wednesday September 30th, 6pm PDT/ 9pm PDT

Organizer, Moderator and Speaker

1. *Introduction*
2. *Tibial Surgical Technique*

PRECICE Ellipse Educational program at Orthopedic Trauma Association Meeting

The Latest Intramedullary Limb Lengthening Solution for the Orthopedic Surgeon

San Diego, CA; October 8, 2015

Organizer, Moderator and Speaker

1. *Introduction*
2. *Tibial Surgical Technique*
3. *Femur Antegrade Surgical Technique*

International Limb Lengthening and Reconstruction Society Meeting

Loews Hotel, Miami, FL; November 5-7, 2015

Moderator and Speaker at symposia:

1. *Blocking Assisted Nail Guidance (BANG) Deformity Correction- Adult cases*
2. *Complexities of knee arthroplasty: A limb reconstructive approach*
 - a. *Knee Contracture after TKR*
3. *Long bone lengthening and deformity correction with a motorized internal lengthening nail*
 - a. *Antegrade Femur Technique*
4. *The Failed Pilon Fracture*
5. *Is there utility to a limb deformity service in an academic department of orthopedic surgery?*
6. *Soft tissues reconstruction with distraction and local tissue techniques*
 - a. *Shortening and angulation with secondary distraction*
7. *Limb Deformity Patient Care outside the Operating Room*
 - a. *Preoperative Patient Education*

Stryker STAR Ankle Training Course

Tampa, Florida; February 27, 2016

Ankle Distraction Arthroplasty

Japanese Association of External Fixation and Limb Lengthening, 29th Annual Meeting

Invited International Guest Speaker

Advances in Limb Lengthening and Reconstruction Surgery

Kanazawa, JAPAN; March 19, 2016

Ilizarov Reading International Meeting

Invited International Guest Speaker

Russian Ilizarov Scientific Center for Restorative Traumatology and Orthopedics

1. *Enhancements of Bone Healing*
 2. *Integrated Fixation for Limb Lengthening*
- Kurgan, RUSSIA; June 16-18, 2016

Managing Osteomyelitis in the 21st Century

29th Annual Baltimore Limb Deformity Course

Baltimore, Maryland; August 25, 2016

1. *Bone Surgery for Soft-tissue Defects*
2. *Femoral Bone Defects*

Nuvasive Educational program at Orthopedic Trauma Association Meeting

Bone Lengthening Using an Internal Motorized Nail

Washington, DC; October 6, 2016

Adult cases using the Precice Internal Lengthening Nail

Eastern Orthopedic Association Annual Meeting

New Orleans, LO; October 21, 2016

Moderator of Symposium:

What's New in Limb Lengthening and Deformity Correction?

Lectures:

1. *Lengthening and Reconstruction in Kids*

2. *Adult Deformity Correction*

Visiting Professor, 28th Annual James J. Callahan, MD Lecture on Musculoskeletal Trauma
Stritch School of Medicine, Department of Orthopedic Surgery
Loyola University Medical Center
Chicago, IL; December 1, 2016

1. *Advances in Limb Lengthening and Deformity Correction Surgery*
2. *Integrated Fixation for Limb Lengthening and Reconstruction*

Hospital for Special Surgery- Hadassah University Medical Center Orthopedic Conference
Hadassah Hospital, Hebrew University
Jerusalem, Israel; January 13, 2017

Lecture:

Evolution of Limb Lengthening and Reconstruction Surgery

Limb Lengthening and Reconstruction Society Specialty Day
American Academy of Orthopedic Surgeons
San Diego, CA; March 18, 2017

Best Papers of 2016 Annual Meeting:

Oxygen Consumption Testing and Self-reported Outcomes Following Limb salvage with Tibiocalcaneal or Tibio-talo-calcaneal Fusion.

5. Volunteer Service:

Orthopaedic Overseas Inc., Volunteer Mission
Consultant in Orthopaedic Surgery, St. Jude Hospital, St. Lucia, West Indies;
August 1995 and December 2007

Friends of Maya Chang Dinner
Hilton Hotel; Staten Island, NY; May 21, 2009
Fundraising dinner for Children with deformities
Guest Speaker:

Limb Lengthening and Deformity Correction in Children

6. Other activities:

University of Pennsylvania Secondary School Committee
Interview for undergraduate admission, 2008- present

AO/ASIF Faculty
AO North America, North American Education Committee, April 1996- present.

L. BIBLIOGRAPHY

1. Peer-reviewed Journal Articles

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1a. Submitted Articles (currently under review by journal):

Ankle MRI, Haleem

Effect of Malalignment on Knee Joint Contact Mechanics

Hammouda AI, Standard S, Herzenberg JE, Rozbruch SR: Humeral Lengthening with the PRECICE magnetic lengthening nail, submitted to *HSS J*

Simultaneous Acute Femoral Deformity Correction and Gradual Limb Lengthening Using the Retrograde Precice Femoral Nail: Technique and Clinical Results
Christopher A. Iobst, MD; Robert Rozbruch, MD; Scott Nelson, MD; Austin Fragomen, MD
Journal of the American Academy of Orthopaedic Surgeons

Opening Wedge High Tibial Osteotomy, Microfracture, and Bone Marrow Aspirate Concentrate for Treatment of Varus Deformity and Osteoarthritis of the Knee” for consideration for publication in *Annals of Sports Medicine and Research*

Feasibility of correcting the mechanical axis in large varus deformities with medial unicompartmental knee arthroplasty. Laura J. Kleeblad, MD1; Jelle P. van der List, MD1; S. Robert Rozbruch, MD2; Austin T. Fragomen, MD2; Andrew D. Pearle, MD1.

Precice vs. LON clinical (Anton Kurtz)

Precice vs. LON cost (S Richardson)

LATN vs. Precice (T Falls)

Stature Lengthening Psych effects (M Assayag)

2. Books, Book Chapters, Editorial, Letters to Editor, Web based publications:

1. O'Brien SJ, Warren RF, Arnoczky SP, **Rozbruch SR**: *Developmental Anatomy of the Human*
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- Shoulder and Anatomy of the Glenohumeral Joint, in Rockwood and Matsen: The Shoulder, WB Saunders Co., USA, 1990
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Limb Lengthening and Reconstruction Surgery Case Atlas. Pediatric Deformities. Springer International Publishing, pp 137-141

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49. **Rozbruch SR** (2015) Case 81: Humeral Lengthening and Deformity Correction in Ollier's Disease: Distraction Osteogenesis with a Multiaxial Correction Frame. In: Rozbruch SR, Hamdy RC (Eds.) Limb Lengthening and Reconstruction Surgery Case Atlas. Adult Deformity-Tumor-Upper Extremity. Springer International Publishing, pp 563-568

50. Haleem AM, **Rozbruch SR** (2015) Case 49: Knee Fusion with Gradual Shortening and Staged Insertion of Antibiotic Coated Intramedullary Nail for Failed Infected Total Knee Arthroplasty. In: Rozbruch SR, Hamdy RC (Eds.) Limb Lengthening and Reconstruction Surgery Case Atlas. Adult Deformity-Tumor-Upper Extremity. Springer International Publishing, pp 325-329

51. **Rozbruch SR** (2015) Case 56: Lengthening of a Very Short Below Knee Amputation Residual Limb to Enhance Prosthetic Wear. In: Rozbruch SR, Hamdy RC (Eds.) Limb Lengthening and Reconstruction Surgery Case Atlas. Adult Deformity-Tumor-Upper Extremity. Springer International Publishing, pp 373-378

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Osteotomy, Arthrodesis, and Arthroplasty. In: Rozbruch SR, Hamdy RC (Eds.) Limb Lengthening and Reconstruction Surgery Case Atlas. Adult Deformity-Tumor-Upper Extremity. Springer International Publishing, pp 191-196

53. **Rozbruch SR** (2015) Case 90: Radial Clubhand Correction with Radius Lengthening Using the Ilizarov/TS. In: Rozbruch SR, Hamdy RC (Eds.) Limb Lengthening and Reconstruction Surgery Case Atlas. Adult Deformity-Tumor-Upper Extremity. Springer International Publishing, pp 619-623

54. Bernstein M, **Rozbruch SR** (2015) Case 71: Reconstruction of a 22 cm Femur Bone Defect with Transport Over Nail and Cable Technique. In: Rozbruch SR, Hamdy RC (Eds.) Limb Lengthening and Reconstruction Surgery Case Atlas. Adult Deformity-Tumor-Upper Extremity. Springer International Publishing, pp 489-496

55. **Rozbruch SR** (2015) Case 64: Repair and Lengthening After Nonunion of Free Vascularized Fibula Graft for Reconstruction of Osteosarcoma of the Tibia. In: Rozbruch SR, Hamdy RC (Eds.) Limb Lengthening and Reconstruction Surgery Case Atlas. Adult Deformity-Tumor-Upper Extremity. Springer International Publishing, pp 429-435

56. **Rozbruch SR** (2015) Case 2: Tibia Lengthening with Precice Internal Lengthening Nail. In: Rozbruch SR, Hamdy RC (Eds.) Limb Lengthening and Reconstruction Surgery Case Atlas. Adult Deformity-Tumor-Upper Extremity. Springer International Publishing, pp 13-18

57. Hamdy RC, **Rozbruch SR** (2015): Principles of Deformity Correction. In: Rozbruch SR, Hamdy RC (Eds.) Limb Lengthening and Reconstruction Surgery Case Atlas. Springer International Publishing, pp. 33-53.

58. **Rozbruch SR**: Conversations with Experts: Dealing with Bone Defects eA: by Dr. Rozbruch <http://hss.mediasite.com/mediasite/Play/7d89d0e88e4749158c036d18853a52601>

This conversation with S. Robert Rozbruch, MD includes a comprehensive scholarly and practical discussion of the management of bone defects. The focus is primarily on bone transport using the Ilizarov method and variations including use of integrated fixation and independent shortening and lengthening.

59. **Rozbruch SR**: Live Surgical Demonstration: Femoral Lengthening with Intramedullary Nail-Antegrade Approach

Video 1: Osteotomy and Remote Controlled Intramedullary Nail Insertion

<http://hss.mediasite.com/mediasite/Play/224de51312f64404bcf206c5d15849901d>

Video 2: Locking Screws, Localization of Magnet and Iliotibial Band Release

<http://hss.mediasite.com/mediasite/Play/70cc6f0b21c94ab4a91ace2909d1bb9a1d>

Video 3: 3 Minute Short: Antegrade Femur Lengthening with a Remote Controlled Intramedullary Nail

<http://hss.mediasite.com/mediasite/Play/e094b6dcde434362b3f7e0263e13937e1d>

60. **Rozbruch SR**: Percutaneous Supramalleolar Osteotomy Using the Ilizarov/ Taylor Spatial Frame. In: Scuderi GR, Tria AJ: Minimally Invasive Surgery in Orthopaedics, (second edition); Springer International Publishing 2015.

61. Fragomen AT, **Rozbruch SR**: External Fixation. In: edited by Simon Lee and Andrew Hsu: Synopsis of Foot and Ankle Surgery. Thieme Publishers, New York

62. **Rozbruch SR:** Why are we special? Limb deformity is more than an overlapping subspecialty.
J Limb Lengthen Reconstr 2017;3:1-3.

3. Abstracts and presentations (Extramural) 2007-present

American Academy of Orthopaedic Surgeons Annual Meeting
San Diego, CA, February 2007

1. Poster presenter:

Lengthening and Then Nailing of the Lower Extremity

Poster #P459

2. Scientific Exhibit, Presenter:

Complex Ankle Fusion with the Ilizarov/ Taylor Spatial Frame- SE42

American Orthopaedic Foot and Ankle Society (AOFAS) Annual Meeting

Toronto, Ontario; July 12-15, 2007

Podium presentations:

1. *Ankle Distraction Arthroplasty- A Study of Outcome*
2. *Innovations in Ankle Distraction Arthroplasty*
3. *Treatment of Failed Ankle Replacement with the Ilizarov Method*

Limb Lengthening and Reconstruction Society Annual Meeting

Chicago, IL; July 20-22, 2007

Moderator and presenter:

1. Moderated session on Reconstruction
2. *Lengthening and Plating (LAP)*
3. *Lengthening and then Nailing (LATN)- a Matched Case Comparison*
4. *Innovations in Ankle Distraction Arthroplasty (corporate presentation)*
5. *Ankle Joint Distraction Using the Ilizarov Fixator: A Study of Outcome*

American Orthopaedic Foot and Ankle Society (AOFAS) Annual Meeting

Pre-meeting Course: State of Art Management of Ankle Arthritis

Denver, Colorado; June 25, 2008

Periarticular Osteotomy for Ankle Arthritis

Limb Lengthening and Reconstruction Society Annual Meeting

Albuquerque, NM; July 11-13, 2008

Lengthening and Plating (LAP)

Acute Correction of Femoral Deformity with Fixator Assisted Plating and Computer Navigation

Eastern Orthopaedic Association Annual Meeting

Paradise Island, Bahamas; June 17-20, 2009

1. *Joint Preservation of the Osteoarthritic Ankle Using Distraction Arthroplasty*
1. *Tibial Deformity Correction with the TSF*

Limb Lengthening and Reconstruction Society Annual Meeting

New York, NY; July 16-17, 2010

Moderator: *Foot and Ankle Reconstruction session*

Abstract Presentation:

Supramalleolar Osteotomy for Deformity Correction using the TSF

Eastern Orthopaedic Association Annual Meeting
Naples, FL; October 13-16, 2010

Podium Presentations:

1. *Limb Reconstruction After Musculoskeletal Oncologic Conditions- Feasibility of Applying the Ilizarov Method*
2. *Supramalleolar Osteotomy for Deformity Correction Using the Taylor Spatial Frame*

30th Annual Meeting of the Israel orthopaedic Association
Jerusalem, Israel; December 1-3, 2010

A. Podium Abstract Presentations:

1. *Limb Reconstruction after Musculoskeletal Oncologic Conditions with the Ilizarov Method*
2. *Supramalleolar Osteotomy Using the TSF*
3. *Lengthening and Then Plating- a Case Matched Comparison*
4. *Lengthening over a Nail vs. Internal Lengthening with the ISKD for Femoral Lengthening*
5. *A Comparison of Two Techniques for Distal Femur Osteotomy: Unilateral Frame vs. Fixator Assisted Plating*
6. *Proximal Tibial Osteotomy with External Fixation for the Treatment of Varus Deformity*

B. Chairperson and Moderator of Geriatric Session

Limb Lengthening and Reconstruction Society Annual Meeting
Chicago, IL; July 22-23, 2011

Moderator: *Deformity Correction/ Limb Lengthening session*

Abstract Presentation:

Femur Deformity Planning: How to Control the CORA Location

Limb Lengthening and Reconstruction Society Annual Meeting
Cincinnati, OH; July 28, 2012

Moderator: *Adult Reconstruction Session*

Abstract Presentation: *Femur Reconstruction Planning- Placement of the Apex of Deformity*

Limb Lengthening and Reconstruction Society Annual Meeting
Montreal, Quebec CANADA; July 25-26, 2014

Moderator: *Emerging Technologies Session*

Abstract Presentations:

1. *Short Term Results of MRI imaging after Ankle Distraction Arthroplasty*
2. *Distraction Osteogenesis for Brachymetatarsia: Clinical Results and Implication on the Metatarsal-phalangeal joint*

International Limb Lengthening and Reconstruction Society Meeting
Loews Hotel, Miami, FL; November 5-7, 2015

Does patient compliance with weight bearing restrictions improve with the use of mobile continuous force plate measurement?

Limb Lengthening and Reconstruction Society Annual Meeting
Charleston, SC; July 22-23, 2016

Abstract Presentation: *Oxygen Consumption Testing and Self-reported Outcomes Following Limb salvage with Tibiocalcaneal or Tibio-talo-calcaneal Fusion.*

Orthopedic Research Society
San Diego, CA March 19-22, 2017

POSTER TITLE: *Length Change Sensitivity of the Atlas™ Knee System: A Novel Joint-Unloading Prosthesis for the Treatment of Medial Knee Osteoarthritis*

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Date: _____ Signature: _____