International Clubfoot Symposium

September 12-14, 2007
Wednesday-Friday

Location:
Marriott Coralville Hotel & Conference Center
300 E. 9th Street
Coralville, Iowa

Annual Ponseti Training Course
Saturday, September 15, 2007
University of Iowa Hospitals and Clinics
Braley Auditorium

Funded by
National Institutes of Health
  National Institute of Child Health and Human Development
  National Institute of Arthritis and Musculoskeletal and Skin Diseases
  Office of Rare Diseases
  Ponseti International Association

Private foundation support
  Judge William C. Hanson Pediatric Orthopaedic Research Fund
  Roger and Bridget Ryan Berman
  John and Willetta Murphy
  John and Ellen Buchanan Foundation

In collaboration with
  World Health Organization
  National Center on Birth Defects and Developmental Disabilities
  Centers for Disease Control and Prevention
  US Bone and Joint Decade
  American Academy of Orthopaedic Surgeons
  American Academy of Pediatrics
  Pediatric Orthopaedic Society of North America
  Shriners Hospitals for Children

Sponsored by
  University of Iowa Roy J. and Lucille A. Carver College of Medicine,
  Department of Orthopaedics and Rehabilitation
  University of Iowa College of Public Health
General Information

Purpose
This meeting will serve as a unique forum to explore many aspects of the etiopathogenesis of idiopathic and syndromic clubfoot, which represents the most common musculoskeletal birth defect and a leading cause of childhood disability in the developing world. In addition, a rigorous evaluation of treatment outcomes for both non-invasive and surgical procedures will be addressed. Finally, there will be discussions on public health issues with the main goal of developing programs to prevent and eradicate neglected clubfoot.

Objectives
Upon completion of this program, the participant should be able to:
• Distinguish between clubfoot and other congenital foot birth defects.
• Describe the epidemiology and etiopathogenesis of congenital idiopathic clubfoot.
• Review current understanding of muscle development.
• Recognize genetic mutations associated to syndromic clubfoot.
• Review the evidence-based support for the treatment of clubfoot.
• Describe the treatment protocol for complex clubfoot cases and relapses.
• Discuss long-term outcomes of clubfoot surgery and the Ponseti method.
• Explain new IT technologies to create a Global Health Campus.
• Discuss strategies to develop national programs to eradicate neglected clubfoot.

Credit
Physicians: The University of Iowa Roy J. and Lucille A. Carver College of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The University of Iowa Carver College of Medicine designates this educational activity for a maximum of 29 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Wednesday, September 12 only: 6.75 Category 1 Credits
Thursday, September 13 only: 7.0 Category 1 Credits
Friday, September 14 only: 7.0 Category 1 Credits
Saturday, September 15 only: 8.25 Category 1 Credits

Program Content
Determination of educational content for this program and the selection of speakers are responsibilities of the program director. Firms providing financial support did not have input in these areas.

DISCLOSURE POLICY: Everyone in a position to control the content of this educational activity will disclose to the CME provider and to attendees all relevant financial relationships with any commercial interest. They will also disclose if any pharmaceuticals or medical procedures and devices discussed are investigational or unapproved for use by the U.S. Food and Drug Administration (FDA).

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Individuals with disabilities are encouraged to attend all University of Iowa sponsored events. If you are a person with a disability who requires an accommodation in order to participate in this program, please contact the Continuing Medical Education Division in advance at (319) 335-8599.
### INTERNATIONAL CLUBFOOT SYMPOSIUM

**September 12-14, 2007**  
**Wednesday-Friday**  
Marriott Coralville Hotel & Conference Center  
300 E. 9th Street  
Coralville, Iowa

### ANNUAL PONSETI TRAINING COURSE

**Saturday, September 15, 2007**

University of Iowa Hospitals and Clinics  
Braley Auditorium

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### Wednesday, September 12, 2007

**8:00 AM** Welcome Remarks  
Jean E. Robillard, MD  
Vice President for Medical Affairs, University of Iowa  
Dean, Carver College of Medicine

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### EPIDEMIOLOGY AND GENETICS OF CLUBFOOT AND ASSOCIATED SYNDROMES

**Presider: Frederick Dietz, MD, Moderator: Christina Gurnett, MD, PhD**

**1:30 PM** Invited Lecture: “Genetic Risks Factors for Idiopathic and Syndromic Clubfoot”  
Michael Bamshad, MD

**2:15 PM**  
9.) Variable Hand and Foot Abnormalities in a Family with Congenital Vertical Talus and CDMP-1 Gene Mutation  
Matthew B. Dobbs, MD; Christina A. Gurnett, MD PhD; Jason Robarge; J. Eric Gordon, MD; José A. Morcuende, MD, PhD

**2:30 PM**  
10.) Increasing Rate of Detection of Clubfoot at Birth and Improving Midwives’ Knowledge about Detection and Treatment of Clubfoot: The Value of a Focused Continuing Professional Education (CPE) Program  
Uganda Sustainable Clubfoot Care Project  
Mr. Gonzapg Waiswa, Dr. Jackson Amone

**3:00 PM**  
12.) Ponseti Method in Older Children: A 3D MRI Analysis  
Shafique Pirani, MD; David Hodges, MD; Sorin Siegler, PhD; Richard Brand, MD; William Morrison, MD; Jay Udupa, PhD; Ignacio Ponseti, MD

**3:15 PM** Coffee Break

**3:30 PM** Invited Lecture: “Misoprostol Effects on Limb Development”  
Maria Joaquina Marques-Dias, MD

**4:15 PM**  
13.) Ultrasound Evaluation of Clubfoot Correction During Ponseti Treatment  
Alaric Aroojis, MD; Sameer Desai, MD; Arjun Dhawale, MD

**4:30 PM**  
14.) Ten Years Experience of Ultrasound Investigation of Clubfeet: Benefits and Difficulties  
Johanna Valma, A. Johansson, Y. Aurell, B. Romanus, C. Gyulai

**4:45 PM**  
15.) Natural History of Relapses in Idiopathic Clubfoot Treated with the Ponseti Method  
Matthew E. Lovell, MD; Lori A. Dolan, PhD; José A. Morcuende, MD, PhD

**5:00 PM**  
16.) Radiographs in the Treatment of Clubfeet Using the Ponseti Method  
José A. Morcuende, MD, PhD; Matthew Dobbs, MD

**6:30 PM** Reception – hors d’oeuvres
Thursday, September 13, 2007

TREATMENT APPROACHES AND OUTCOMES IN CLUBFOOT

Presider: Stuart L. Weinstein, MD; Moderator: S. Bora Goksan, MD

8:00 AM Invited Lecture: “Fundamentals of Clubfoot Treatment”
Ignacio V. Ponseti, MD

8:45 17.) Efficiency of Initial Correction in Idiopathic Clubfoot with Ponseti Technique – Monica Paschoal Nogueira, MD; Kim Jung Ho, MD; Queirao Ana Claudia Flacao, MD; Reindalalo S. Volpi, MD; Laura F. A. Ferreira, MD; José Luis Zaboo, MD; Rachel Edwards, MD; Brandan Gilberto, MD

9:00 18.) Accelerated vs. Standard Ponseti Protocol: A Case-Controlled Study – Uganda Sustainable Clubfoot Care Project – Dr. Isidor Ngayomela. Mr. Edouard Naddumbu

9:15 19.) The Foot Abduction Brace in the Ponseti Method for Idiopathic Clubfoot Deformity
Marc Sinclair, MD; Stephanie Boehm, MD

9:30 20.) Ponseti vs. French Physiotherapy for Clubfeet? Which is Better?
B. Steve Richards, MD; Shawne Faught, CNS; Karl E. Rathjen, MD; Lori A. Karol, MD; John G. Birch, MD; Charles E. Johnston, MD; John A. Herring, MD; Daniel J. Sucato, MD; Sarah Signall, PT

9:45 21.) A Comparison of Surgeon and Physiotherapist Run Clubfoot Clinics Using the Ponseti Method
Joseph A. Janicki MD; Unni G. Narayanan, MBBS, FRCSC; Barbara Harvey, BHSc, PT; Anvesh Roy, Shannon Weir, BSc; James F. Wright, MD, MPH, FRCS

10:00 22.) A Physiotherapist-Delivered Ponseti Service: The Experience from a Teaching Hospital in London
N. Shack, MCSP; D. M. Eastwood, FRCS

10:15 POSTER SESSION

10:15 BREAK-OUT SESSION: BRACES AND ORTHOTICS FOR CLUBFOOT
Donald Shurr, CPO, PT, and Michelle Hall, CPO

10:15 BREAK-OUT SESSION: eGRANARY AND ELLUMINATE LIVE

10:15 BREAK-OUT SESSION: HISTORICAL NOTES

2:30 27.) Educational Needs and Daily Life Effects of Treatment of Parents with Children with Clubfoot: A Quality Survey
Maria Paulsen RN, MSN; A. Stinemans; PhD, RN; Lori A. Dolan, PhD; José Morcuende, MD

2:45 28.) Evaluation of a Disease Specific Instrument for Idiopathic Clubfoot Outcome
Frederick R Dietz, MD; Margaret C. Tyler, MA, MSW; Kecia S. Leary, DDS; Peter C. Damiano, DDS

3:00 Coffee Break

Presider: Harold Van Bosse, MD; Moderator: Anna Ey, MD

3:15 29.) Gait analysis of Children Treated Non-Operatively for Clubfoot: Physical Therapy vs. Ponseti Casting
Lori Karol, MD; Kelly Jeams, MS, Ron El-Hawory, MD; B. Stephens Richards, MD

3:30 30.) Health and Function of Patients with Treated Idiopathic Clubfeet: 50-Year Follow-Up Study
José A. Morcuende, MD, PhD; Matthew Lovell, MD; Lori Dolan, PhD; Ignacio V. Ponseti, MD

3:45 31.) Long-Term Follow-Up of Comprehensive Soft-Tissue Release for Clubfoot Deformity – P. A. Smith, MD; A. Graf, MS; S. Hasani, MS; A. Flanagan, PT; A. Caudill, PT, MPT; J. Long, MS; G. Harris, PhD, PE

4:00 32.) Correlation between Radiological Morphology and Functional Results of Operatively Treated Clubfeet
Harry Huber, MD

4:15 33.) Long-Term Follow-Up Results in Patients with Congenital Clubfoot Treated with Two Different Protocols
Pasquale Farsetti, MD; Ernesto Ippolito, MD

4:30 34.) Long-Term Follow-Up of Patients with Clubfeet Treated with Extensive Soft-Tissue Release
Matthew B. Dobbs, MD; Ryan Nunley, MD; Perry L. Schonecker, MD

4:45 35.) Health-Related Quality of Life at the Age of 60 Years or More with Congenital Clubfoot
Henrik Wallander, MD; Giron Hanson, MD, PhD

6:30 PM Gala Dinner

Friday, September 14, 2007

PUBLIC HEALTH INTERNATIONAL PROGRAMS FOR CHILDREN’S DISABILITIES

Presider: Thomas Cook, PhD; Moderator: Christof Radler, MD

8:00 AM Invited Lecture: “Information and Knowledge Networking”
Alena Petrakova, MD

8:45 36.) Training Orthopaedic Surgeons in Brazil: A National Program for clubfoot – Monica Paschoal Nogueira, MD

9:00 37.) Clubfoot Treatment – Nepal Experience
Ashok K Banskota, MD; David A Spiegel, MD; Om P. Shrestha, MS (Orthopedic)

9:15 38.) A Small Step Towards a Healthy Walk: A big Change or Clubfoot: A Report on Awareness Campaign in China Clubfoot Project
Li Zhao, MD, PhD; Qing Du, MD; Shaochuan Pan, MD; José Morcuende, MD, PhD; Jianping Yang, MD
Saturday, September 15, 2007

PONSETI METHOD TUTORIAL

University of Iowa Hospitals and Clinics
Braley Auditorium
01136 PFP

8:00 AM Opening Remarks
Joseph A. Buckwalter, MD
Chairman, Department of Orthopaedic Surgery and Rehabilitation

8:10 “Pathology and Treatment of Idiopathic Clubfoot”
Ignacio V. Ponseti, MD

9:00 “Identification and Treatment of Complex Clubfoot”
José A. Morcuende, MD, PhD

9:15 “Recognition and Management of Relapses”
José A. Morcuende, MD, PhD

9:30 Coffee Break

9:45 Patient Casting Session and Tenotomy video

9:45 Break-Out Session: Bracing and Orthotics in Clubfoot

12:00 PM Lunch – East Room, 8008 RCP

1:15 Technique Practice with Models and Instructors

1:15 Break-Out Session: Orthotics for Clubfoot

4:00 Coffee Break

4:15 “50 year Follow-Up of Patients Treated with the Ponseti Method”
José A. Morcuende, MD, PhD

4:45 “Long-Term Outcomes of Surgery for Clubfoot”
Matthew B. Dobbs, MD

5:15 Patient and Parent Testimonials

5:45 Final Discussion and Questions

6:00 Adjourn

7:00 PM Dinner
University Athletic Club, 1360 NE Melrose Ave.
Poster Program

Wednesday, September 12 – Friday, September 14, 2007

P-01 Impact of Clubfoot Etiology on Treatment Outcomes
Christina A. Gurnett, Stephanie Boehm, Anne Connolly, Tyler Reimschisel, and Matthew B. Dobbs

P-02 Prognostic Value Of Pretreatment Clubfoot Rating to Outcome Following Ponseti Cast Treatment
B. Steve Richard, MD; Lori A. Karol, MD; Shawne Faulks, CNS; Karl E. Rathjen, MD

P-03 Treatment of Older Clubfoot Infants with Resistant Equinus – Ponseti Method Combined with “Pulldown” Procedure
Miroslav Zhivkov, MD

P-04 A New Dynamic Foot Abduction Orthosis for Clubfoot Treatment
Ryan Chen, MD; J. Eric Gordon, MD; Scott J. Luhmann, MD; Perry L. Schoenecker, MD; Matthew Dobbs, MD

P-05 What Should We Do for Patients Who Are Not Feasible for Using Dennis-Brown Bar, after Correction with the Ponseti Method?
Aysegul Bursalı, Timur Yıldırım, Sukru Sarper Gursu, Bahattin Kerem Aydın

P-06 Non-Operatively Treated Clubfoot Outcomes – Do Early Results Deteriorate Over Time?
B. Steve Richards, MD; Shawne Faulks, CNS; Lori A. Karol, MD

P-07 Physiotherapy Clubfoot Clinic as the Clinical Model for Treatment of Idiopathic Clubfoot at The Hospital for Sick Children, Toronto
Barbara Harvey, BHS, PT; Unni G. Narayanan, MD, FRCS, C; James G. Wright

P-08 Clubfoot – FAQ (frequent asked questions) of Clubfoot-Parents
Erica Lamprecht, MD

P-09 A Guide to Clubfoot and Its Treatment with the Ponseti Method – For and By Parents
Jillian Chateauneuf, Heather Cohen and parents of a child with Clubfoot

P-10 Ethno-Cultural Survey of the Congenital Clubfoot in Uganda
Uganda Sustainable Clubfoot Care Project

P-11 Evolution of Clubfoot Care in Developing Nations – The Uganda Sustainable Clubfoot Care Project (USCCP)
Uganda Sustainable Clubfoot Care Project

P-12 Training Healthcare Workers in Uganda in Detection and Treatment of Congenital Clubfeet – A Unified Module and Training Book
Uganda Sustainable Clubfoot Care Project

P-13 Resource Allocation for Clubfoot Management in Uganda
Uganda Sustainable Clubfoot Care Project

P-14 Withdrawn

P-15 The Treatment of Clubfeet According to Ponseti’s Method: The Learning Curve
A. Cuneo, M.E. Perez, M. Batista, S. Acerenza, J. Artigas, A. Cagnoli, M. Schimchak

P-16 Preliminary Results of the Ponseti Method in an Underserved Chilean Province
Ximena Agurto, MD

P-17 Early Outcome Evaluation of the Treatment of Idiopathic Clubfoot by Using the Ponseti Method in Guadalajara, Jalisco, Mexico
Erika Arana Hernandez, MD

P-18 One Year of Activity at the New Italian Clubfoot Center in Rome: Problems and Results
Diego Bellini, MD; Ernesto Ippolito, MD

P-19 Historical Evolution of Clubfoot Treatment in Our Institution
Paloma Cervera, MD; Ana Martinez, MD; Angel Villa, MD; Jose-Luis Gonzalez-Lopez, MD

P-20 Our Initial Experience in the Ponseti’s Method for Clubfeet and Initial Difficulties
Paloma Cervera, MD; Ana Martinez, MD; Angel Villa, MD; Jose-Luis Gonzalez Lopez, MD

P-21 Use of the Ponseti Method for Recurrent Clubfoot Following Posteromedial Release
Matthew B. Dobbs, MD; Sumeeet Garg, MD

P-22 Can a Recurrent Clubfoot Be Treated by Ponseti Technique after Posteromedial Release?
Monica Paschoal Nogueira, MD

P-23 Use of the Ponseti Method for the Treatment of Clubfoot Associated with Myelodysplasia
David Gerlach, MD; Matthew B. Dobbs, MD

P-24 Modified Algorithm for Myelodysplasia Clubfoot Treatment with Ponseti Method
Aysegul Bursalı, Semih Ayanoglu, Timur Yıldırım

P-25 Early Results of the Ponseti Method for Treatment of Arthrogrypotic Clubfoot
Stephanie Boehm, Noppachart Limphaphayom, Farhang Alaece, Marc F. Sinclair, Matthew B. Dobbs

P-26 Correction of Arthrogrypotic Clubfoot with a Modified Ponseti Technique
Harold J. P. Van Bosse, MD; Sahil Marangoz, MD; Debra A. Sala, MS, PT; Wallace B. Lehman, MD

P-27 Ponseti Method in the Treatment of Neglected Idiopathic Clubfeet – Hospital Universitario of University of Sao Paulo Experience
Laura Fernanda Alves Ferreira, MD

P-28 Withdrawn

P-29 Two Alternative Treatments of Neglected Clubfoot
Gastão Guilherme Frizzo, MD

P-30 A 7-Year-Old Child with Neglected Idiopathic Clubfeet: A Plea for Less Invasive Approach
Abdul Halim, Syed A. Faisal, Sharaf Ibrahim

P-31 Ankle Joint Ganglion – A Complication After Percutaneous Tenotomy in Clubfoot Treatment?
Oliver Eberhardt, MD

P-32 Iatrogenic Osteochondritis Desiccans of the Talus in a 4-Year-Old with Residual Clubfoot Deformity: Case Report and Review of Literature
Daniel J Hatch, DPM, FACFAS; Kristine Hoffman, DPM

P-33 Tarsal Coalition as a Rare Associated Finding in Idiopathic Congenital Clubfeet
Beate Stocker, MD; Manfred Nelitz, MD

P-34 A Study of the Five-Year Follow-up of the Correction of Clubfeet by Fractional Distraction Using External Fixation
N. S. Laid, MD; S. S. Warrier, MD

P-35 Experience with Ponseti Management of Clubfeet in Lyon (France)
J. Berard, F. Chotel, R. Parot, V. Cunin, E. Garnier, M. Chaker

P-36 Treatment of Neuromuscular and Syndrome Associated (non-idiopathic) Clubfeet Using the Ponseti Method
Joseph A. Janicki, MD; James G. Wright, MD, MPH, FRCS, C; Barbara Harvey, BHS, PT; Anvesh Roy, MBBS; Unni G Narayanan, MBBS, FRCS