



Four Seasons Hotel, Baltimore, Maryland, USA

August 23 - 27, 2023



# 33<sup>RD</sup> ANNUAL BALTIMORE LIMB DEFORMITY COURSES

DEFORMITYCOURSE.COM

## Baltimore Limb Deformity Course

Thursday, August 24 – Saturday, August 26, 2023

### Course Chairmen

- Philip McClure, MD
- John Herzenberg, MD

### Course Directors

- Michael Assayag, MD
- Christopher Bibbo, DO
- Janet Conway, MD
- Noman Siddiqui, DPM
- Shawn Standard, MD

### Pre-Courses

Wednesday, August 23, 2023

- Cadaver Lab: Tibia and Foot
- Cadaver Lab: Complex Pediatric Hip/  
Pelvis/Femur Surgery

### Post-Courses

Sunday, August 27, 2023

- Charcot Foot and Ankle
- Clubfoot Treatment: Ponseti  
and Beyond



Endorsed By:





# 33<sup>RD</sup> ANNUAL Baltimore Limb Deformity Course



## Highlights of the Course

**Thursday, August 24 – Saturday, August 26, 2023**

- ★ Internationally renowned faculty
- ★ Hands-on sawbone labs
- ★ Option to choose a lab group that focuses on adult orthopedics, pediatric orthopedics, or foot/ankle applications (group assignments based on early registration)
- ★ Option to choose break-out sessions on adult post-traumatic deformity, pediatric, and foot/ankle topics
- ★ Case presentations from experts in adult/post-traumatic, pediatric, and foot/ankle deformities
- ★ Receive the newest hard copy edition of *The Art of Limb Alignment* prior to being sold on Amazon
- ★ Innovative apps:
  - ★ **Multiplier:** This free app predicts values at maturity (upper and lower limb length discrepancy, bone length, lower extremity length, height, and timing of epiphysiodesis).
  - ★ **Bone Ninja:** This iPad app teaching tool was developed by Drs. Standard and Herzenberg at the International Center for Limb Lengthening, Sinai Hospital of Baltimore. The Bone Ninja is designed to help surgeons analyze deformities. Note: Please bring your iPad. If you do not own an iPad, you will be able to rent one for three days (advanced reservation and cash deposit at pick-up required). All registrants of the three-day Baltimore Limb Deformity Course will receive a registration fee discount that can be applied to the purchase of the Bone Ninja app.
- ★ Visit [DeformityCourse.com](http://DeformityCourse.com) to view the most current syllabus.





# 33<sup>RD</sup> ANNUAL Baltimore Limb Deformity Course

This Course is intended for orthopedic surgeons, podiatrists, and allied health professionals who treat lower extremity deformities. No prior experience is required.

The 2022 Course was attended by over 200 clinicians from 29 foreign countries and 30 U.S. states.

The 2022 Course was made possible through educational grants and in-kind support from:

**DePuy Synthes • NuVasive Specialized Orthopedics  
Orthofix • OrthoPediatrics • Paragon 28  
Pega Medical • Smith+Nephew • Stryker  
Turner Imaging Systems • WishBone Medical**

## Course Objectives

Introduce basic and advanced concepts in limb alignment, corrective osteotomies, and internal and external fixation for limb reconstruction, including lengthening and realignment.

### ★ Topics to be covered:

- ★ Single-level and double-level tibial and femoral deformities
- ★ Sagittal and oblique plane deformities
- ★ Rotational deformities
- ★ Foot and ankle deformities
- ★ Monolateral/circular external fixation
- ★ Acute correction techniques
- ★ Gait implications for angular and rotational deformities
- ★ Measurement of deformity on digital radiographs
- ★ Consequences of joint malorientation and malalignment
- ★ Limb lengthening techniques

### ★ Following completion of this event, participants will be able to:

- ★ Describe simple and complex lower limb deformities in pediatric and adult patients
- ★ Interpret advances in the field of limb reconstruction and deformity correction
- ★ Identify the optimal location of osteotomies
- ★ Recognize the methodology of minimally invasive internal and external fixation
- ★ Analyze deformities of the lower limb using electronic media technology
- ★ Formulate treatment decisions designed to yield better clinical outcomes

**Your safety is our priority:** We will follow safety guidance issued by local public health authorities to provide an environment as safe as possible.

**Hotel information:** The Course venue is the Four Seasons Hotel (200 International Drive) in the heart of Baltimore's Inner Harbor. The chic hotel is located 20 minutes from Baltimore/Washington International Airport (BWI) and 90 minutes from Washington Dulles International Airport (IAD). The discounted per-room fee for Course attendees is \$233 per night (plus taxes). The room rate includes complimentary basic guest room internet connectivity. It is highly recommended that you make your reservations early. The discounted rate is offered on a space-available basis through Monday, July 31, 2023. To make a reservation, either:

### ★ Visit the Four Seasons Hotel website ([fourseasons.com](https://www.fourseasons.com))

- ★ Select "Baltimore" as destination
- ★ Select "Check Rates"
- ★ Enter check-in and check-out dates
- ★ Update number of adults and children
- ★ Add promo code: 230819SIN
- ★ Click "Find Rooms"

-or-

### ★ Call the hotel directly (+1.410.576.5800)

- ★ Ask for in-house reservations
- ★ Request the "Baltimore Limb Deformity" group block rate

-or-

### ★ Email the hotel: [reservations.baltimore@fourseasons.com](mailto:reservations.baltimore@fourseasons.com)

**Parking:** For those driving to the Four Seasons Hotel daily, we have arranged for a discounted daytime valet parking rate of \$15/day. This rate does not apply to self-parking during the day, nor to overnight parking (currently \$46 for valet and \$25 for self-parking per night).

**Attire:** Business casual for meeting and resort casual for reception.

**American Disabilities Act:** If you require special accommodations to attend or participate, please submit a notification of your needs to [mbacon@lifebridgehealth.org](mailto:mbacon@lifebridgehealth.org) at least 30 days in advance of your arrival.

**Disclosure policy:** It is the policy of Sinai Hospital of Baltimore, a LifeBridge Health Center, to comply with the Accreditation Council for Continuing Medical Education (ACCME) Standards for Integrity and Independence in Accredited Continuing Education. All faculty participating in sponsored or jointly sponsored programs by Sinai Hospital of Baltimore are required to disclose to the program audience any real or apparent conflict(s) of interest related to the content of their presentation(s). In accordance with the ACCME requirements on disclosure information, relationships of presenters with commercial interests (if any) will be included in materials distributed at the time of the Course.



# Pre-Course Options

Please consult [DeformityCourse.com](http://DeformityCourse.com) for the most current syllabus as schedule could change without notice.

## Cadaver Lab: Complex Pediatric Hip/Pelvis/Femur Surgery

**Wednesday, August 23, 2023** ★ **Very Limited Registration**

**Course Times:** 8:20 a.m. – 5:50 p.m.

*(bus promptly departs Hotel at 7:30 a.m.)*

**Course Chairman:** Shawn Standard, MD

### Course Description:

- ★ This Course will provide both didactic and hands-on learning about advanced techniques in the treatment of complex pediatric hip, pelvis, and femur conditions
- ★ The didactic session will provide basic science and technical points of view on the latest operative treatments for such problematic conditions as coxa magna, coxa breva, and severe acetabular dysplasia
- ★ A practical approach to treatments will be discussed along with surgical tips and tricks
- ★ The hands-on portion of the Course will teach advanced surgical techniques which include surgical hip dislocation; ligamentum teres reconstruction; distal femoral, periacetabular, and Morscher osteotomies; and hip distraction with external fixation

### Learning Objectives:

- ★ Employ a practical approach to identifying the non-operative, minimally invasive, and aggressive treatment techniques for complex pediatric hip, pelvis, and femur conditions
- ★ Recognize risk stratification of patients to enable proper choice of treatment options
- ★ Practice hip/pelvis/femur surgical techniques with guidance from leaders in this field

## Cadaver Lab: Tibia and Foot

**Wednesday, August 23, 2023** ★ **Limited Registration**

**Course Times:** 8:00 a.m. – 4:30 p.m.

*(bus promptly departs Hotel at 7:00 a.m.)*

**Course Directors:** Noman Siddiqui, DPM

Michael Assayag, MD

Beat Hintermann, MD

### Course Description:

- ★ Deformity correction applications for the foot and ankle
- ★ Percutaneous anterior compartment prophylactic fasciotomy
- ★ Baumann, Vulpus, and Strayer procedures for gastrocnemius-soleus recession
- ★ Peroneal nerve and tarsal tunnel decompressions
- ★ Posterior, medial, and lateral approaches for tendon transfers and for ankle and hindfoot reconstruction
- ★ Application of circular external fixation to the foot and ankle
- ★ Afternoon lab selection: Bone transport procedure for limb salvage, or total ankle replacement to restore range of motion

### Learning Objectives:

- ★ Complete percutaneous anterior compartment prophylactic fasciotomy
- ★ Apply three types of gastrocnemius-soleus recession procedures
- ★ Demonstrate posterior, medial, and lateral tibial tendon transfers and recognize the indications for use of each technique
- ★ Identify safe zones for wire and pin placement in the application of circular external fixation to the ankle and the foot
- ★ Analyze indications for bone transport procedures, or practice total ankle arthroplasty surgery





# Post-Course Options

Please consult [DeformityCourse.com](https://DeformityCourse.com) for the most current syllabus as schedule could change without notice.

## Charcot Foot and Ankle

**Sunday, August 27, 2023** ★ *Limited Registration*

**Course Times:** 7:15 a.m. – 4:00 p.m.

**Course Directors:** Noman Siddiqui, DPM  
Sara Mateen, DPM

### Course Description:

- ★ This Course is designed for musculoskeletal specialists, orthopedic surgeons, and podiatric surgeons. The focus is on describing and demonstrating surgical management for Charcot foot and ankle with internal and external fixation. Participants will employ advanced fixation methods and identify the appropriate application of the various techniques for the treatment of Charcot foot with both acute and gradual correction. Participants will also identify complications such as revision, review infection work-up, and incorporate minimally invasive techniques.

### Learning Objectives:

- ★ Diagnose neuropathic disease and its orthopedic presentation in the midfoot, hindfoot, and ankle
- ★ Utilize current surgical methods with open or minimally invasive techniques for correction in the midfoot, hindfoot, and ankle
- ★ Comprehend the application of external fixation for neuropathic conditions and how to apply both acute and gradual correction techniques
- ★ Distinguish how to stabilize bones of the midfoot, hindfoot, ankle, and lower leg with orthopedic hardware for Charcot collapse
- ★ Identify surgical complications associated with Charcot foot and ankle and apply medical and surgical techniques for management
- ★ Incorporate minimally invasive techniques for managing Charcot foot and ankle

## Clubfoot Treatment: Ponseti and Beyond

**Sunday, August 27, 2023** ★ *Limited Registration*

**Course Times:** 7:15 a.m. – 4:00 p.m.

**Course Directors:** John Herzenberg, MD  
Philip McClure, MD

### Course Description:

- ★ Approximately 130,000 infants with congenital clubfoot are born worldwide each year. The goal of this Course is to review where we stand 20+ years into the gradual acceptance and adoption of the Ponseti method as an effective, inexpensive treatment. Performing extensive surgery to treat clubfoot often leads to poor results. The late Dr. Ignacio Ponseti determined that idiopathic clubfoot in an otherwise normal child can be corrected in less than three months by performing manipulations and casting. Minimal or no surgery is required. At long-term follow-up, feet treated by the Ponseti method tend to be strong, flexible, and free of pain. Newer applications will also be covered for teratologic and atypical feet. This Course will include lectures, hands-on workshops, and discussions.

### Learning Objectives:

- ★ Describe the pathophysiologic reasons why the Ponseti method works
- ★ Become proficient in the application of the Ponseti method
- ★ Recognize relapses after conservative clubfoot management
- ★ Apply surgical techniques to rescue relapse, including casting, anterior tibialis transfer, and open release

*Save the Date! August 21 – 25, 2024*



FOR THE LATEST INFORMATION OR TO REGISTER, VISIT [DEFORMITYCOURSE.COM](https://DeformityCourse.com)



# 2023 Registration

**NOTE: You can enroll in any Pre- or Post-Course without taking the three-day Course. Early registration is recommended as courses may sell out quickly.**

## Course Fees

### Baltimore Limb Deformity Course

Thursday, August 24 – Saturday, August 26, 2023

- |   |         |
|---|---------|
| <input type="checkbox"/> U.S. Physician/Podiatrist      | \$1,695 |
| <input type="checkbox"/> Non-U.S. Physician             | \$1,495 |
| <input type="checkbox"/> Resident/Fellow/Allied Health* | \$1,275 |

Some afternoon hands-on lab groups fill up quickly. Early registration is highly recommended. Placement is based on lab availability when registration fees are paid in full. Those who do not select a lab group will be assigned to the Adult Orthopedics group. NOTE: All lecture-based break-out sessions that focus on pediatric, post-traumatic deformity, and foot/ankle issues are available to all participants. Select your preferred lab group:

- ☐ Adult Orthopedics   ☐ Pediatric Orthopedics   ☐ Foot and Ankle

### Bone Ninja App Discount for Three-Day Course

-\$50 \$ \_\_\_\_\_

Do you already have the Bone Ninja app loaded on your iPad?\*

- ☐ If yes, deduct \$50 from your registration fee  
☐ If no, deduct \$50 from your registration fee and visit the App Store to purchase the app on your own (cost: \$50)

### Multiple Course Discount

-\$50 \$ \_\_\_\_\_

- ☐ Deduct \$50 if you are a paid registrant of the three-day Deformity Course *plus* one or more Pre- or Post-Courses

### iPad Rental\*\*

Reservation is required by August 1, 2023 for a three-day iPad rental. A \$225 cash deposit is required at pick-up and will be refunded if the iPad is returned in good condition no later than 6:00 p.m. on Saturday, August 26.

+ \$100 \$ \_\_\_\_\_

### Friday Evening Reception

One Reception ticket is included in your registration fee for the three-day Course. Additional tickets may be available for purchase on-site.

**Dietary Restriction:** ☐ Vegetarian   ☐ Kosher   ☐ Gluten-free

**Subtotal** = \$ \_\_\_\_\_

## Pre- and Post-Courses

*Because the Pre- and Post-Courses are offered simultaneously, registrants may select only one per day. If full payment is not received, your name will be placed on a waitlist risking the possibility of the Course selling out before fees are fully paid.*

### Wednesday, August 23, 2023

- ☐ **Pre-Course | Cadaver Lab: Tibia and Foot** \$1,325  
Select your preferred afternoon lab: (assignment based on availability at time of registration)

- ☐ Bone transport   ☐ Total ankle replacement

\* Select size of Bone Ninja scrubs (included in registration fee; note: scrubs run large):

- ☐ Small   ☐ Medium   ☐ Large   ☐ Extra Large   ☐ Extra Extra Large

- ☐ **Pre-Course | Cadaver Lab: Complex Pediatric Hip/Pelvis/Femur Surgery** \$1,425

\* Select size of Bone Ninja scrubs (included in registration fee; note: scrubs run large):

- ☐ Small   ☐ Medium   ☐ Large   ☐ Extra Large   ☐ Extra Extra Large

### Sunday, August 27, 2023

- ☐ **Post-Course | Charcot Foot and Ankle**  
☐ Physician/Podiatrist \$495  
☐ Resident/Fellow/Allied Health\* \$425

- ☐ **Post-Course | Clubfoot Treatment: Ponseti and Beyond**  
☐ Physician/Podiatrist \$495  
☐ Resident/Fellow/Allied Health\* \$425

\* Select size of Bone Ninja scrubs (included in registration fee; note: scrubs run large):

- ☐ Small   ☐ Medium   ☐ Large   ☐ Extra Large   ☐ Extra Extra Large

**Pre-/Post-Course Subtotal** = \$ \_\_\_\_\_

### Late Fee

A \$100 late fee will automatically apply to all new or unpaid registrations of the Course after August 14, 2023.

+ \$100 \$ \_\_\_\_\_

**TOTAL DUE** = \$ \_\_\_\_\_

\*Residents and fellows must provide a letter from their residency or fellowship director to qualify for the reduced fee. If the letter is not received with registration, the Physician/Podiatrist rate will be assessed.

\*\*Note: The Bone Ninja app works only on iPad devices.

## How Did You Hear About This Course?

- |   |  |
|---|--|
| <input type="checkbox"/> AAOS Annual Meeting  | <input type="checkbox"/> IPOS Meeting                                    |
| <input type="checkbox"/> ASAMI Meeting  | <input type="checkbox"/> LLRS Meeting                                    |
| <input type="checkbox"/> Controversies in Pediatric Limb Reconstruction Meeting       | <input type="checkbox"/> POSNA Meeting                                   |
| <input type="checkbox"/> EPOS Meeting   | <input type="checkbox"/> Colleagues                                      |
| <input type="checkbox"/> Essentials of Lower Extremity Reconstruction Course (Dallas) | <input type="checkbox"/> Course Email Notification                       |
| <input type="checkbox"/> LLRS Meeting   | <input type="checkbox"/> Course Mailings                                 |
|   | <input type="checkbox"/> Journal of Limb Lengthening & Reconstruction Ad |

Website: ☐ Orthobullets   ☐ OrthoMedia   ☐ VuMedi   ☐ Other (please specify): \_\_\_\_\_

☐ Sales Representative (please specify): \_\_\_\_\_

☐ Other Meeting/Source (please specify): \_\_\_\_\_

## Payment Methods

**You are not considered a confirmed registrant until the registration fees are paid in full. Your name will be placed on a waitlist until payment has been obtained. All registrations with unpaid balances two weeks after registration will be cancelled automatically and re-registration will be required. Courses may sell out quickly.**

We accept Visa, MasterCard, American Express, checks, and bank drafts payable in U.S. funds. I wish to pay by: ☐ credit card   ☐ check   ☐ bank draft

★ To pay by credit card, see below or use online, mail-in, or fax registration.

★ For online registration, please visit our website: DeformityCourse.com.

★ For fax registration, please fax this form to +1.410.601.0585.

★ To pay by check, make checks payable in U.S. funds to

"Baltimore Limb Deformity Course/Sinai" and mail to:

Madeline Bacon, HMCC

Rubin Institute for Advanced Orthopedics

Sinai Hospital of Baltimore, Inc.

2401 West Belvedere Avenue

Baltimore, Maryland 21215 USA

★ To pay by bank draft, contact Madeline Bacon, HMCC to obtain instructions. (Email: mbacon@lifebridgehealth.org or tel: +1.410.601.9798)

For mail-in or fax registration, PLEASE COMPLETE LEGIBLY:

(Note: Email address is required; one form per registrant.)

Credit Card Type: ☐ Visa   ☐ MasterCard   ☐ American Express

Credit Card Number: \_\_\_\_\_

Security Code: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

Name of Cardholder: \_\_\_\_\_

Signature of Cardholder: \_\_\_\_\_

Cardholder's Email (required): \_\_\_\_\_

Full Name of Registrant: \_\_\_\_\_

Professional Degree (e.g., MD): \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State/Province: \_\_\_\_\_

Zip/Postal Code: \_\_\_\_\_ Country: \_\_\_\_\_

Phone Number: \_\_\_\_\_

*If outside of the U.S., please include country and city codes*

Registrant's Email (required): \_\_\_\_\_

## Cancellation Policy

A refund (less a \$50 administrative fee) will be extended for email cancellations (mbacon@lifebridgehealth.org) dated on or before July 31, 2023. No refunds will be made for cancellations that are dated August 1, 2023 or after, and no refunds will be made in response to verbal cancellations at any time.

If an unforeseen circumstance/force majeure occurs and we must cancel the courses, we will provide our participants with as much advance notice as possible and refund 100% of your registration payment.

## Photo Policy

We will be taking photographs at this event. LifeBridge Health may publish photographs of you for educational, promotional, or advertising purposes. By enrolling in any of the courses provided by LifeBridge Health, you are agreeing to the use of your image for these purposes.

## Use of Your Personal Information

By registering for this event, you authorize us to include your name and address in an attendee list we may provide to our corporate partners and exhibitors in advance of and/or following the Course. In addition, you agree to allow us to send you periodic email announcements concerning future courses and our educational app updates. To opt out, please email Madeline Bacon, HMCC (mbacon@lifebridgehealth.org). It may take a few days for you to receive written confirmation that your name has been removed from both the attendee list and/or the email notification list.