



Four Seasons Hotel, Baltimore, Maryland, USA ★ August 24 - 28, 2022 

# 32<sup>ND</sup> ANNUAL BALTIMORE LIMB DEFORMITY COURSES DEFORMITYCOURSE.COM

## Course Chairmen

- ★ John Herzenberg, MD
- ★ Philip McClure, MD

## Course Directors

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

## Baltimore Limb Deformity Course

Thursday, August 25 –  
Saturday, August 27, 2022

## Pre-Courses

Wednesday, August 24, 2022

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

## Post-Course

Sunday, August 28, 2022

- ★ Advanced Hexapod Fixation



 **LIFEBRIDGE  
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Rubin Institute for  
Advanced Orthopedics  
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Endorsed By:

 **LLRS**  
Limb Lengthening and  
Reconstruction Society  
ASAMI NORTH AMERICA



# 32<sup>ND</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 required.

The 2021 Hybrid Course was attended by 190 physicians from 14 foreign countries and 32 U.S. states.

The 2021 Hybrid Course was made possible through educational grant and in-kind support from:

**DePuy Synthes • Integra LifeSciences  
NuVasive Specialized Orthopedics  
Orthofix • OrthoPediatrics • Paragon 28  
Pega Medical • Smith+Nephew • Stryker  
Treace Medical Concepts • 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 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:** When you register for the Course(s), it is with the understanding that the program will meet in-person only if it is safe to do so, and with participants adhering to any applicable safety measures at that time, such as vaccination requirements, mandatory face coverings, temperature checks, and social distancing. We will comply with all applicable recommendations from Baltimore City, the State of Maryland, Four Seasons Baltimore Hotel, and our Hospital, to provide an environment as safe as possible. We ask all those attending to share in the responsibility. If requested, all participants are expected to sign a Course Code of Conduct form one week prior to arrival, confirming that they will abide by all designated COVID-19 Safety Protocols. If we are unable to hold our face-to-face courses in late August, we will refund 100% of your registration payment and migrate to a virtual event. Please visit [www.DeformityCourse.com](http://www.DeformityCourse.com) for relevant updates and news.

**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 \$229 per night (plus taxes). The room rate includes complimentary basic guest room internet connectivity. Once the hotel activates our discount code, we will provide instructions on how to make your room reservation. Please check [www.DeformityCourse.com](http://www.DeformityCourse.com) periodically for details.

**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 fax (1.410.601.0585) notification of your needs 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 Commercial Support: 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.



# 32<sup>ND</sup> ANNUAL Baltimore Limb Deformity Course



## Highlights of the Course

Thursday, August 25 – Saturday, August 27, 2022

- ★ 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, pediatric, and foot/ankle topics
- ★ Interactive adult, pediatric, and foot participant case presentations
- ★ Receive the newest physical 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 epiphysiodesis timing).
  - ★ **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.





# Pre-Course Options

## Cadaver Lab: Complex Pediatric Hip/Pelvis Surgery

**Wednesday, August 24, 2022** ★ *Very Limited Registration*

**Course Times:** 8:15 a.m. – 5:45 p.m.

*(shuttle promptly departs Hotel at 7:45 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 and pelvis conditions. The didactic session will provide basic science and technical points of view to the latest operative treatments for such problematic conditions as femoral acetabular impingement syndrome, coxa magna, coxa breva, severe acetabular dysplasia, and Perthes disease. 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; varus, periacetabular, and Morscher osteotomies; and hip distraction with external fixation.

### Learning Objectives:

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

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

## Cadaver Lab: Tibia and Foot

**Wednesday, August 24, 2022** ★ *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  
Mark Myerson, 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
- ★ Bone transport procedure for limb salvage
- ★ Total ankle replacement to restore range of motion

### Learning Objectives:

- ★ Complete percutaneous anterior compartment prophylactic fasciotomy, and 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
- ★ Practice total ankle arthroplasty surgery

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





# Post-Course Option

## Advanced Hexapod Fixation

**Sunday, August 28, 2022** ★ *Limited Registration*

**Course Times:** 7:30 a.m. – 5:30 p.m.

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

### Course Description:

- ★ Build on your knowledge from the lab sessions of the BLDC. The post-course focuses on multilevel external fixation for advanced deformity correction. Gain experience working alongside our world-renowned faculty as you cover double-level tibia vara in achondroplasia, ankle deformity with arthritis, combined hindfoot and midfoot deformity, and femoral lengthening with an unstable knee in congenital femoral deficiency.

### Learning Objectives:

- ★ Construct long-bone, double-level, and miter frames using the hexapod system to correct four challenging deformities
- ★ Distinguish safe and stable pin constructs for each level of deformity correction
- ★ Interpret techniques for modified fixation in segments with limited space available
- ★ Recognize how correction software integrates into the strategies of deformity correction
- ★ Perform osteotomies of the tibia, foot, and femur

*Save the Date! August 23 – 27, 2023*



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



# 2022 Registration

**NOTE: You can enroll in any pre- or post-course without taking the three-day Course. Early registration is recommended due to potential social distancing practices.**

## Course Fees

### Baltimore Limb Deformity Course

Thursday, August 25 – Saturday, August 27, 2022

- |   |         |
|---|---------|
| <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 hands-on lab groups (Thursday, Friday, and Saturday afternoons) 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, adult, and foot/ankle issues are available to all participants. Select your preferred lab group:

- ☐ Adult Orthopedics ☐ Pediatric Orthopedics ☐ Foot and Ankle

Optional: If you would like to present a case during one of the Case Presentation Sessions on August 26, 2022, please select which topic your case relates to:

- ☐ Adult Orthopedics ☐ Pediatric Orthopedics ☐ Foot and Ankle

The deadline to submit a case for review is August 22, 2022. To be considered, please submit your request with brief description and slide deck to [mbacon@lifebridgehealth.org](mailto:mbacon@lifebridgehealth.org). NOTE: Due to time constraints, we cannot guarantee that everyone will have an opportunity to present a case.

### Bone Ninja App Discount

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

- |   |         |
|---|---------|
| <input type="checkbox"/> If yes, deduct \$50 from your registration fee   | (-\$50) |
| <input type="checkbox"/> If no, deduct \$50 from your registration fee and visit the App Store to purchase the app on your own (cost: \$50) | (-\$50) |

### Multiple Course Discount

- |  |         |
|--|---------|
| <input type="checkbox"/> Deduct \$50 if you are a paid registrant of the three-day Deformity Course <i>plus</i> one or more Pre- or Post-Courses | (-\$50) |
|--|---------|

### iPad Rental Reservation\*\*

Reservation required by August 1, 2022 for three-day iPad rental. A \$225 cash deposit is required at pick-up and will be refunded if iPad is returned in good condition no later than 6:00 p.m. on Saturday, August 27. +\$100 \$

### Welcome Dinner

One Welcome Reception ticket is included in your registration fee for the three-day Baltimore Limb Deformity Course. Additional tickets may be available for purchase. Due to potential social distancing protocols, we are unable to confirm availability at this time. Please visit the registration desk if you require more than one ticket.

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

## Pre- and Post-Courses

Subtotal = \$

**Because the Pre-Courses are offered simultaneously, registrants may select only one. If full payment is not received, your name will be placed on a wait list and the course may be sold out when fees are finally paid.**

- |  |         |
|--|---------|
| <input type="checkbox"/> <b>Pre-Course   Cadaver Lab: Tibia and Foot</b> | \$1,199 |
|--|---------|

Wednesday, August 24, 2022

- \* Select Size of Bone Ninja Scrubs (included in registration fee):
- ☐ Small ☐ Medium ☐ Large ☐ Extra Large ☐ Extra Extra Large

- |  |         |
|--|---------|
| <input type="checkbox"/> <b>Pre-Course   Cadaver Lab: Complex Pediatric Hip/Pelvis Surgery</b> | \$1,299 |
|--|---------|

Wednesday, August 24, 2022

- \* Select Size of Bone Ninja Scrubs (included in registration fee):
- ☐ Small ☐ Medium ☐ Large ☐ Extra Large ☐ Extra Extra Large

### Post-Course | Advanced Hexapod Fixation

Sunday, August 28, 2022

- |   |       |
|---|-------|
| <input type="checkbox"/> Physician/Podiatrist           | \$525 |
| <input type="checkbox"/> Resident/Fellow/Allied Health* | \$425 |

Pre-/Post-Course Subtotal = \$

### Late Fee

A \$100 late fee will automatically apply to all new or unpaid registrations of the Course after August 15, 2022

+ \$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"/> LLRS Meeting                                    |
| <input type="checkbox"/> ASAMI Meeting  | <input type="checkbox"/> POSNA Meeting                                   |
| <input type="checkbox"/> Controversies in Pediatric Limb Reconstruction Meeting | <input type="checkbox"/> Colleagues                                      |
| <input type="checkbox"/> EPOS Meeting   | <input type="checkbox"/> Course Email Notification                       |
| <input type="checkbox"/> ILLRS Meeting  | <input type="checkbox"/> Course Mailings                                 |
| <input type="checkbox"/> IPOS Meeting   | <input type="checkbox"/> Journal of Limb Lengthening & Reconstruction Ad |
| Website: <input type="checkbox"/> Orthobullets <input type="checkbox"/> VuMedi  | <input type="checkbox"/> Other (please specify):                         |
| <input type="checkbox"/> Sales Representative (please specify):                 |  |
| <input type="checkbox"/> 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 wait list until payment has been obtained. All registrations with unpaid balances two weeks after registration will be cancelled automatically and re-registration will be required. A possibility of courses quickly selling out is likely, due to potential social distancing restrictions.**

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, you can use online, mail-in, or faxed registration.

★ For online registration, please visit our web site: [DeformityCourse.com](http://DeformityCourse.com).

★ For faxed 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

2401 West Belvedere Avenue

Baltimore, Maryland 21215 USA

★ To pay by bank draft, contact Madeline Bacon, HMCC to obtain instructions.

(Email: [mbacon@lifebridgehealth.org](mailto:mbacon@lifebridgehealth.org) or tel: 1.410.601.9798)

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

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

- ☐ **I agree to abide by all designated COVID-19 safety protocols, if applicable. I will review, sign, and return the Course Code of Conduct form prior to my arrival in Baltimore.**

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*

Fax: \_\_\_\_\_

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

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

## Cancellation Policy

If a Course registrant tests positive for COVID-19 after August 15, 2022, we ask that you please stay home. We will apply 100% of the paid registration fees to the 2023 event (August 24 - 26, 2023). If you cannot attend the 2023 event, we will not be able to refund your registration fees.

A refund (less a \$50 administrative fee) will be extended for email cancellations ([mbacon@lifebridgehealth.org](mailto:mbacon@lifebridgehealth.org)) dated on or before July 31, 2022. No refunds will be made for cancellations that are dated August 1, 2022 or after, and no refunds will be made in response to verbal cancellations at any time.

If an unforeseen circumstance occurs and we are unable to hold our face-to-face courses in late August, we will provide our participants with as much advance notice as possible and refund 100% of your registration payment. You will be given the option to transfer a portion of your paid registration fee for enrollment in the virtual-only Course.

## 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 send an email to Madeline Bacon ([mbacon@lifebridgehealth.org](mailto: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 the email notification list.