



Bionic Reconstruction Conference (BReCON)

The Future of Integrated Upper Limb Surgical & Prosthetic Innovation

Nov 30 - Dec 1, 2023 at NYU

Sponsored by:

Center for Amputation Reconstruction at NYU

Provided by:

NYU Grossman School of Medicine

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Overview

Advanced upper limb surgical procedures and complex prosthetic technologies have opened doors never thought possible to upper limb amputees. The individual with upper limb loss is frequently seeking a better solution to a more comfortable prosthesis. This also includes a desire for more intuitive control, a hand that mirrors the function and aesthetics they lost, a functional terminal device that withstands the rigors of a harsh environment, and perhaps most important, sensory feedback.

The challenge of returning this individual to a meaningful life, where independence and return to work are possible, is a complex task. It requires a skilled multidisciplinary approach that begins with an experienced upper-limb surgeon, prosthetists who specialize in upper limb technology, skilled occupational therapists, and knowledgeable mental health professionals. Innovations in amputation surgery and prosthetic technologies are the key components of the Bionic Reconstruction conference (BReCON).

Keynotes include



Oskar Aszmann, MD



Paul Cederna, MD

Key topics will include

- Partial hand
- Advances in transhumeral and transradial amputation and related prosthetic technology
- Surgical and rehabilitation approaches to pain
- Frontiers of upper limb amputation research
- Brachial plexus injury and elective amputation
- Reimbursement
- Hand transplants
- Mental health
- Osseointegration
- Sensory feedback

For more information contact
Diane Atkins, OTR/L at datkins@bcm.edu

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Objectives

After participating in this activity, clinicians should be able to:

- Identify the appropriate UE prosthetics and accompanying surgeries for all types of UE amputations
- Identify the appropriate UE prosthetics for all types of UE amputations after the various types of surgeries performed
- Identify the appropriate UE prosthetics for all types of UE amputations and their unique OT needs

Target audience

Medical specialists who take care of individuals with upper extremity amputations

Co-directors



Jacques Hacquebord, MD



Omri Ayalon, MD



This activity has been approved for
AMA PRA Category 1 Credit™

BReCON will incorporate a national and international emphasis to capture the experience of pre-eminent experts in this field. A unique format will highlight Keynote speakers, invited experts and an experienced multi-disciplinary panel. A skilled facilitator will actively engage both the panel and audience in order to illuminate the scope of experience of those in attendance.

Agenda

Bionic Reconstruction Conference (BReCON)

Thursday, 30 November 2023

7:30 AM EST	Registration and Continental Breakfast
8:15	Welcome and Introduction Diane Atkins, OTR/L, Omri B. Ayalon, MD, Jacques H. Hacquebord, MD
8:30	Keeping the Tradition Alive: A Historical Perspective of the Innovations in Amputation Surgery and Prosthetic Technologies (IASPT) Todd A. Kuiken, MD, PhD
Partial Hand Amputation	
8:45	Maximizing Intuitive Control and Utilization of Partial Hand Myoelectric Prostheses Bryan Loeffler, MD
9:00	Panel- Partial Hand Amputation Moderator: Jacques H. Hacquebord, MD Panelists: Maura Iacobucci, MS, OTR/L, Laura Katzenberger, CP, Bryan Loeffler, MD, Shaun Mendenhall, MD
9:15	Question and Answer Session
Transradial Amputation	
9:45	Transradial Amputation: What's the Best Recipe? Glenn Gaston, MD
10:00	Panel- Transradial Amputation Moderator: Omri B. Ayalon, MD Panelists: Jeffrey M. Cohen, MD, Christopher Fink, CPO, Glenn Gaston, MD, Debra Latour, OTD, M.Ed, OTR/L, Ajul Shah, MD
10:30	Question and Answer Session
10:45	Break

Transhumeral Amputations

11:00	A “Vanilla” Transhumeral Amputation is a Surgical Crime Kyle Potter, MD
11:15	Panel- Transhumeral Amputation Moderator: Oskar Aszmann, MD Panelists: Jennifer Ernst, MD, Alta Fried, OTR/L, CHT, Matthew Mikosz, CP, Kyle Potter, MD, John Rheinstein, CP, FAAOP
11:45	Question and Answer Session
12:00 PM EST	Lunch/Exhibits/Product Theater*

Keynote Presentation

1:00	Movement is a Sensory Phenomenon! Oskar Aszmann, MD
1:30	Question and Answer Session

Brachial Plexus Injuries

1:45	The Role of Amputation and Myoelectric Fitting in Traumatic Adult Brachial Plexus Injury Alexander Y. Shin, MD
2:00	Panel- Brachial Plexus Injuries Moderator: Jacques H. Hacquebord, MD Panelists: Oskar Aszmann, MD, Elaine Crerar, OTR/L, Andrew Nelson, CPO, MSOP, Alexander Y. Shin, MD
2:30	Question and Answer Session
2:45	Break

Pain Session

3:00	Moderator: Paul Rai, MD Rehabilitation/Pharmacologic Perspective Danielle Melton, MD
3:15	Prosthetic and Therapy Perspectives on Pain Elaine Crerar, OTR/L, Phil Stevens, MEd., CPO, FAAOP
3:30	The Promise and Pitfalls of the Surgical Treatment of Pain Moderators: Omri B. Ayalon, MD and Jacques H. Hacquebord, MD
4:00	3 Research Abstract Presentations Moderator: Shaun Mendenhall, MD

Sensory Feedback	
4:30	Progress Toward Making Sensory Feedback and Implanted EMG Control Available in Clinical Practice Dustin Tyler, PhD
5:00	Adjourn
5:00 PM EST	Reception - Onsite
Friday, December 1, 2023	
7:30 AM EST 8:00	Continental Breakfast Product Theater*
Osseointegration	
Moderator: Oskar Aszmann, MD	
8:30	Osseointegration and Unlocking Advanced Upper Extremity Amputation Strategies Jason Souza, MD, FACS
8:45	Panel- Osseointegration Panelists: Patient1, Nicola Fabbri, MD, Brian Monroe, CPO, Michelle Nordstrom, MS, OTR/L, Kyle Potter, MD, Jason Souza, MD, FACS
9:30	Question and Answer Session
Keynote Presentation	
9:45	Innovation and the Surgeon Paul Cederna, MD
10:15	Question and Answer Session
10:30	Break
Vascularized Composite Allotransplantation (VCA)- Hand Transplants	
10:45	VCA- No Turning Back and the Challenges of Moving Ahead Scott Levin, MD
11:00	Panel- Hand Transplantation vs Multi-articulating Hand Prostheses Moderator: Diane Atkins, OTR/L Panelists: Rob Dodson, CPO, FAAOP, Jason Koger, Scott Levin, MD, Shaun Mendenhall, MD
11:30	Question and Answer Session

Mental Health and the Upper Extremity Amputee

11:45	Mental Health: A Critical Component in the Multidisciplinary Approach Gina Radice-Vella, PsyD
12:00 PM EST	Panel- Mental Health Moderator: Ajul Shah, MD Panelists: Darcy Alexander, PhD, Jennifer Ernst, MD, Alta Fried, OTR/L, CHT, Tara Lally, PhD, Gina Radice-Vella, PsyD
12:30	Question and Answer Session
12:45	Lunch/Exhibits/Product Theater*
1:45	3 Research Abstract Presentations Moderator: Ajul Shah, MD

Reimbursement- Proving Value for the Advances

2:15	The Evolving Landscape of Reimbursement for Upper Extremity Prostheses and Procedures Michael Choo, MD
2:30	Panel- Reimbursement Moderator: Danielle Melton, MD Panelists: Michael Choo, MD, Debra Latour, OTD, M.Ed, OTR/L, John Rheinstein, CP, FAAOP, Marylisa Shatilla, RN
3:00	Question and Answer Session
3:15	Break

Panel- Research Roundtable- Where do we go from here?

Moderators: Omri B. Ayalon, MD and Jacques H. Hacquebord, MD

3:30	Panel Panelists: Oskar Aszmann, MD, Paul Cederna, MD, Scott Levin, MD, Matthew Mikosz, CP, Kyle Potter, MD, Phil Stevens, MEd., CPO, FAAOP
4:30	Award for Best Abstract Presentation Moderators: Shaun Mendenhall, MD and Ajul Shah, MD
4:45	Wrap-up
5:00 PM EST	Adjourn

* Product Theater is a non-accredited, optional session and will take place outside of the confines of the educational space



For more information contact
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