

**RESIDENTS  
& FELLOWS**  
Complimentary Registration  
& Limited Travel Stipends  
Available!

13th Annual  
**COMPREHENSIVE Neurotoxin Course  
for Neurological Conditions**



**November 16-17, 2024**

**Metropolitan at The 9  
Cleveland, Ohio**

REGISTER NOW! [www.ccfcmc.org/cncnc](http://www.ccfcmc.org/cncnc)

## Overview

With the ever-growing therapeutic indications for toxin treatment, increasing numbers of available toxins, and the potential dangers and pitfalls if toxin injections are performed sub-optimally, there is a clear need for a comprehensive training of toxin injection. The clear educational need is for a thorough and intensive training that incorporates balanced and comprehensive didactic lectures, the opportunity to ask questions on uncertain areas, patient demonstrations, and true assessment of understanding of concepts and readiness for injection.

This comprehensive course will provide the practicing clinician or clinician-in-training the necessary knowledge needed to competently utilize all types of botulinum toxins, including the use of EMG and ultrasound, all adult and pediatric neurological indications. The course also features toxin injection demonstrations on patients and the opportunity to interact with North American thought-leaders in dystonia and toxin injections with reputations for being exemplary educators.

## Who Should Attend?

This educational activity is intended for neurologists, physiatrists, residents and fellows.

## Learning Objectives

- Describe the fundamental pharmacology of botulinum toxin therapy, its history, mechanisms of action, duration and onset of action, potential side effects, contraindications, and clinical indications.
- List the botulinum toxin products approved by the FDA and summarize their differences and similarities in clinical response, dosing, side effects, preparation, and administration.
- Review the different therapeutic uses of botulinum toxins in neurological disorders, both FDA-approved indications and off-label uses.
- Discuss the advantages and disadvantages of ultrasound-guided neurotoxin injections, their best use in clinical practice, and ergonomic guidelines.
- Describe the evidence-based practices for neurotoxin use in the pediatric population, including indications and dosing considerations.
- Demonstrate the proper administration of all types of botulinum toxins including anatomic localization, target and muscle selection, use of electromyographic and ultrasound guidance, and injection techniques.
- Summarize the proper and ethical process of consent, preauthorization, billing, and coding for botulinum toxin use.

## Accreditation

In support of improving patient care, Cleveland Clinic Center for Continuing Education is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

### • American Medical Association (AMA)

Cleveland Clinic Center for Continuing Education designates this live activity for a maximum of 12.00 *AMA PRA Category 1 Credits*.™ Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association for Category 2 credit.

## Americans with Disabilities Act

The Cleveland Clinic Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify Beth Viscomi at 216.444.7591 or viscomb@ccf.org at least two weeks prior to the activity.

## Health & Safety

All applicable Centers for Disease Control (CDC), state, and local safety protocols will be enforced for this event. Additional attendance requirements may be implemented to ensure attendee health and safety.

## Information

Liz Eaton: 216.445.5431 | Email: eatonl3@ccf.org

## Saturday, November 16, 2024

7:30 AM	<b>Registration/Continental Breakfast/Exhibits</b>
8:00 AM	<b>Introduction to Botulinum Toxins</b> William Ondo, MD
8:45 AM	<b>Headache and Facial Pain</b> Julia Bucklan, DO
9:30 AM	<b>Lingual Dystonia and Spasmodic Dysphonia</b> Paul Bryson, MD
10:15 AM	<b>Break/Exhibits</b>
10:45 AM	<b>Blepharospasms, Hemifacial Spasms and Oromandibular Dystonia</b> Wayne Cornblath, MD
11:30 AM	<b>Cervical Dystonia</b> Hubert Fernandez, MD
12:15 PM	<b>Other Neurological Uses of Neurotoxin</b> Joohee Jimenez-Shahed, MD
1:00 PM	<b>Lunch/Exhibits</b>
1:45 PM	<b>Neurotoxin Indications in the Pediatric Population</b> Heakyung Kim, MD
2:30 PM	<b>Limb Dystonia and Spasticity</b> <b>Katharine Alter, MD</b>
3:15 PM	<b>Ultrasound Guided Neurotoxin Injections</b> Philippe Salles, MD
4:00 PM	<b>Break/Exhibits</b>
4:30 PM	<b>Proper Billing and Coding Practices</b> Zoltan Mari, MD
5:15 PM	<b>Adjourn</b>
5:15 PM	<b>Optional Non-CME Session: <i>Hands-on Introduction to Ultrasound-Guided Injections</i></b>
6:00 PM	<b>Welcome Reception</b>

## Sunday, November 17, 2024

7:30 AM	<b>Continental Breakfast/Exhibits</b>
8:00 AM	<b>Patient/Office Set Up</b> Hubert Fernandez, MD
8:15 AM	<b>Migraine</b> Mary Ann Mays, MD
8:45 AM	<b>Orofacial Indications</b> Hubert Fernandez, MD
9:35 AM	<b>Sialorrhea</b> Hubert Fernandez, MD
9:45 AM	<b>Break/Exhibits</b>
10:05 AM	<b>Cervical and Abdominal Dystonia</b> Hubert Fernandez, MD
11:20 AM	<b>Limb Dystonia</b> Hubert Fernandez, MD
11:45 AM	<b>Break/Exhibits</b>
12:05 PM	<b>Limb Spasticity</b> Francois Bethoux, MD
12:45 PM	<b>Hands-on Ultrasound Guidance: Identifying Key Muscles</b> Course Faculty
1:15 PM	<b>Adjourn</b>

All presentations include a 5-minute question and answer period.

## Course Directors

**Hubert Fernandez, MD**  
Cleveland Clinic

**Zoltan Mari, MD**  
Cleveland Clinic Lee Ruvo Center  
for Brain Health

## Faculty

**Katharine Alter, MD**  
Mount Washington Pediatric  
Hospital, An Affiliate of the  
University of Maryland and  
Johns Hopkins University

**Francois Bethoux, MD**  
Cleveland Clinic

**Julia Bucklan, DO**  
Cleveland Clinic

**Paul Bryson, MD**  
Cleveland Clinic

**Wayne Cornblath, MD**  
University of Michigan

**Joohee Jimenez-Shahed, MD**  
Icahn School of Medicine  
at Mount Sinai

**Heakyung Kim, MD**  
Columbia University

**MaryAnn Mays, MD**  
Cleveland Clinic

**William Ondo, MD**  
Houston Methodist  
Neurological Institute

**Philippe Salles, MD**  
CETRAM, Chile

## Faculty Disclosure Statement

The Cleveland Clinic Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Integrity and Independence requiring mitigation of all faculty conflicts of interest. Faculty declaring a relevant financial relationship will be identified in the activity syllabus.

## Location

### Metropolitan at The 9

2017 E 9th St  
Cleveland, OH 44115  
Phone: (216) 239-1200

## Hotel Accommodations

Hotel reservations are separate from the course registration and are the responsibility of the participant. A block of rooms at the group rate of \$119 + tax has been reserved at:

### Residence Inn Cleveland Downtown

527 Prospect Ave E  
Cleveland, OH 44115  
Phone: (216) 443-9043

[Click here to make a reservation](#)

The cutoff date for this special rate is Friday, October 25, 2024

## Registration & Cancellation

Preregistrations are accepted online until 5:00 pm (EST), **November 14, 2024**. In case of cancellation, a full refund will be made if canceled by **November 1, 2024**. After November 1, 2023, a 50% cancellation fee will be deducted from your refund. Written notification of your cancellation is required in order to process your refund.

**NO REFUNDS WILL BE ISSUED AFTER NOVEMBER 16, 2023.**

For questions about registration, call **216.448.8710** or email **cmeregistration@ccf.org**

Cleveland Clinic reserves the right to cancel or postpone an activity at our sole discretion. In the unlikely event that this occurs, any registration fee(s) paid will be refunded. Be advised that Cleveland Clinic is not responsible for related costs including airline tickets, hotel costs, or any similar fee penalties incurred as a result of any trip cancellations or changes.



## Residents and Fellows

Complimentary Registration + Limited Travel Stipends Available!  
Please [click this link](#) to complete the online request and get more information.

## Registration fee includes:

Continental breakfast, refreshment breaks, lunch, reception and faculty PowerPoint presentations in PDF format.

<b>Physician</b>	<b>\$250</b>
<b>Non physician</b>	<b>\$150</b>
<b>Resident*/Fellow*</b>	<b>\$0</b>

\*Must provide letter from program director