



DUKE UNIVERSITY MEDICAL CENTER

# 13<sup>th</sup> Annual Advanced EMG & EMG-Guided Chemodenervation Workshop

**Directors:** Janice Massey, Donald Sanders, Vern Juel, Lisa Hobson-Webb

**Visiting Faculty:** Erik Stålberg, James Howard,  
Sanjeev Nandedkar, Zaeem Siddiqi

**Duke Faculty:** Jeff Guptill, Lisa Hobson-Webb, Vern Juel, E. Wayne Massey,  
Janice Massey, Donald Sanders, Eddie Smith, David Witsell

**Technical Assistance:** Ryan Johnson, Carol Dodson, Paul Zwelling

Friday, March 6, 2015 – EMG-Guided Chemodenervation

7:30 - Registration & Continental Breakfast

8:00 Welcome & Introduction  
Janice M. Massey, M.D.

8:10 Dystonia Overview  
Zaeem Siddiqi, M.D. Ph.D.

8:40 Botulinum Toxin Overview  
Pharmacology & General Principles of Use  
Janice M. Massey, M.D.

9:00 EMG Changes after Botulinum Toxin  
Janice M. Massey, M.D.

9:20 EMG-Guided Chemodenervation  
Principles & Procedures in Cervical & Limb Dystonia  
Vern C. Juel, M.D.

10:00 Coffee, Questions and Discussion  
(Billing, Coding, & Supply Information at Table)

10:15 Spasticity in Pediatric Patients  
Edward C. Smith, M.D.

10:50 Spasmodic Dysphonia (Video)  
David L. Witsell, M.D., M.H.S.

11:10 Muscle Anatomy: Video Demonstrations & Discussion  
Faculty

12:30 Lunch (provided) & Discussion

1:00 Rotating Rooms/Live Demonstrations:  
Chemodenervation for Cervical Dystonia, Spasticity, Facial and Limb Dystonia



# Saturday March 7: Advanced EMG

8:10 – Introduction to SFEMG – Donald Sanders



9:10 – Measuring jitter with CN electrodes

10:00 – The motor unit & quantitative EMG

Erik Stålberg



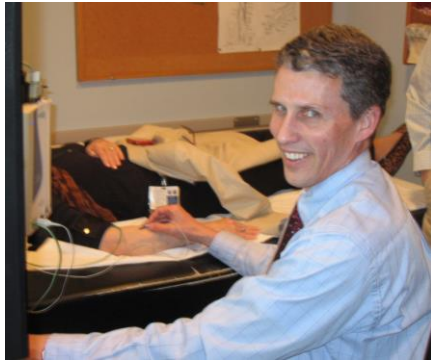
10:45 –

Interference pattern analysis -  
Sanjeev Nandedkar



11:30 - Ultrasound of nerves & muscle  
-Lisa Hobson-Webb

# Saturday March 7: Small Group Demos



SFEMG, voluntary  
Juel/Massey

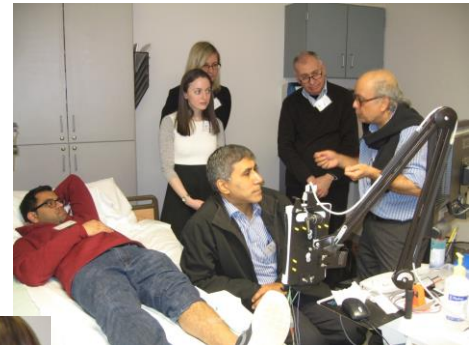


SFEMG, stimulated  
Stålberg



CN jitter –  
Sanders

QEMG –  
Nandedkar



RNS – Howard

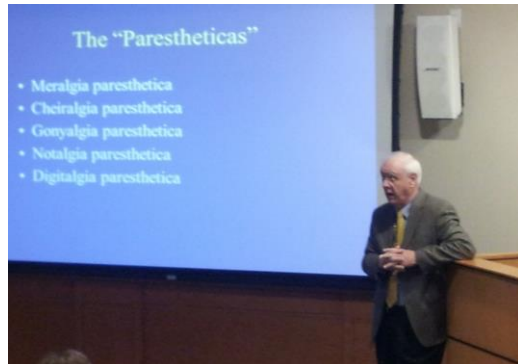


Ultrasound – Hobson-Webb

# Sunday March 8

8:00 Integration of EMG & Neurography – Stålberg

8:45 Repetitive Nerve Stimulation – Howard



9:15

Mononeuropathies  
Wayne Massey

9:45 Ultrasonography in the EMG Lab – Hobson-Webb

10:15 Exercise Testing in  
Channelopathies – Jeff guptill



10:45 Case Presentations -  
Duke Neuromuscular  
Fellows:  
Stephen Donohue &  
Rebecca Hurst

