



Neural Prosthesis Seminar

October 10, 2008

8:30 AM to 9:30 AM

Biomedical Research Building - BRB 105
Case Western Reserve University

“Intramuscular Electrical Stimulation for Post-stroke Shoulder Pain”

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and Biomedical Engineering

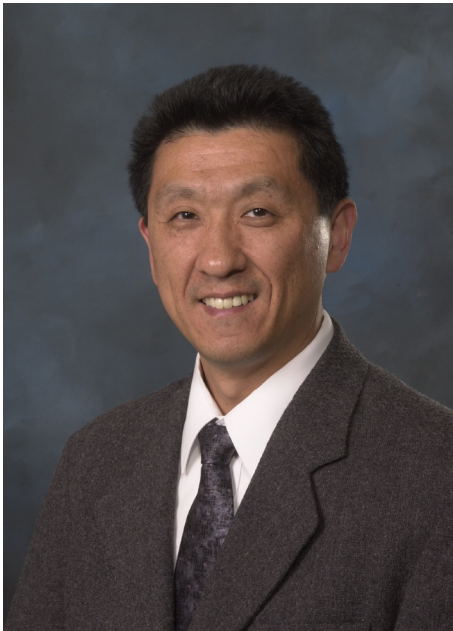
Director of Research, Physical Medicine and Rehabilitation

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Case Western Reserve University

Attending Physician

MetroHealth Medical Center



John Chae, M.D., M.E.

Abstract:

Shoulder pain following stroke is highly prevalent and is associated with poor rehabilitation outcomes. The etiology of post-stroke shoulder pain is poorly understood, but is likely related to the instability of the glenohumeral joint associated with hemiparesis. Numerous treatment strategies have been developed, but with limited evidence of effectiveness. This presentation will review the rationale and development of intramuscular electrical stimulation for the treatment of post-stroke shoulder pain. Safety and effectiveness data from initial case reports, exploratory case series and multi-center randomized clinical trials will be presented. Limitations of the intervention and factors predictive of treatment success will be discussed. Finally, plans for future direction will be presented.

***Please visit our live stream video link for each lecture at
<http://mediavision.case.edu/caselive/flv.cfm>***

This seminar is sponsored by the FES and the APT Centers - For more information, please contact Cathy Walker at 216-231-3257

The Cleveland FES Center is a consortium in Functional Electrical Stimulation technology including the Louis Stokes Cleveland VAMC, Case Western Reserve University, and the MetroHealth Medical Center

