Weekly Colloquium
Tuesday, 11/29/2016, Billings Building #4 – Rosedale Conference Room

"Clinical Program for Paralysis Reversal"

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Research Summary
The major theme of my research is “function restoration by means of nerve reconstruction” in the setting of three main categories of functional compromise: 1) peripheral nerve injury and lower motor neuron-source paralyses (e.g. brachial plexus and nerve injuries); 2) complete paralyses of upper motor neuron source (e.g. ASIA A cervical spinal cord injury); 3) Degraded motor control with associated spasticity (e.g. stroke, traumatic brain injury or cerebral palsy). In conjunction with the Department of Neurosciences a center was created to champion this clinical and research endeavor that I co-direct in conjunction with Dr. Ross Mandeville. Within the “UCSD Paralysis Center,” multidisciplinary clinics address each of these entities of functional compromise. While our research collaboration includes basic scientists, engineers and others for whom we will provide a translational venue, as clinicians our primary aim is to better define obstacles to successful recovery of function in these clinical scenarios and successfully navigate these to establish effective clinical interventions. Specifically, my career goal is to develop procedures and practice standards (diagnostics, interventions and rehabilitation methods), which will be well founded and effective in improving patient quality of life. In the setting of an academic surgical training program, this accumulated knowledge will be passed on to future leaders in surgery who will then be able to build upon our foundations.

Recent Publications:


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