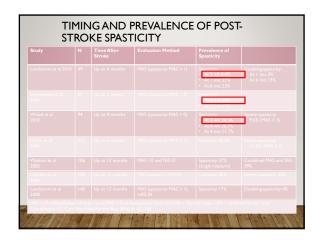
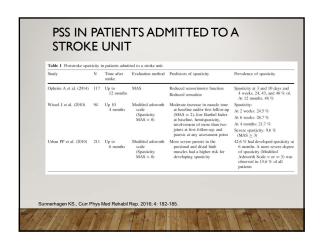
ADULT POST-STROKE SPASTICITY Presented by: Paul J. Stacey Hons MBBS, MSc. FRCPC Physical Medicine & Rehabilitation COMPLICATIONS FOR THE COMPLEX STROKE PATIENT **DISCLOSURE** • I have no financial relationship with any commercial interest related to the content of this activity • No conflicts of interest to disclose **LEARNING OBJECTIVES** • Recognize the various patterns of spasticity and the common conditions that cause it • Acquire the knowledge to identify and differentiate spasticity from other causes of increased muscle tone and joint rigidity • Assist the learner with recognizing key points of spasticity management pertinent to their respective field(s) of practice • Identify the health care providers/services that can help manage spasticity and how best to work with them

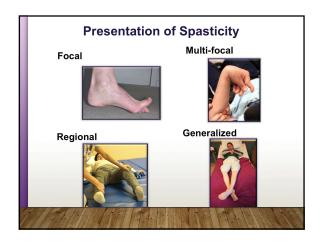
POST-STROKE SPASTICITY PREVALENCE ESTIMATES RANGE: 17% – 43% • Watkins et al. (2002) ¹ reported a 39% prevalence of PSS at 12 months after a first-ever stroke (n=106) • Sommerfeld et al. (2004) ² reported a 19% prevalence at 3 months post-stroke (n=95) • Urban et al. (2010) ³ reported 42.6% prevalence at 6 months after a first-ever ischemic stroke (n=301) Watkins, et al. (2002). Prevalence of spasticity post stroke. Clinical Rehabilitation, 16(5), 515-522. Sommerfeld, et al. (2004). Spasticity After Stroke its Occurrence and Association With Motor Impairments and Activity Limitations. Stroke, 35(1), 134-139.



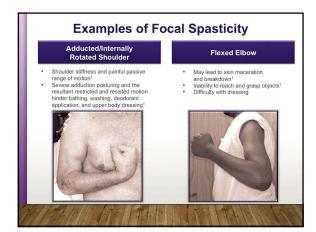


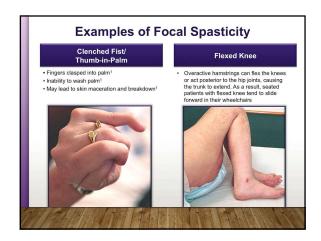
RISK FACTORS SIGNIFICANTLY PREDICTIVE OF PSS Table 2 Risk factors significantly predictive of permanent poststroke spassicity [6*] Risk factor Amy purers in affected limb Amy purers in affected limb 2 joints affected by increased mascle tone 32 joints affected by increased mascle tone 4 cutoff 4 Herniibody Sensory Loss 4 Younger Age 5 Smoking 4 Herniispasticity 6 Jeminspasticity Fermanent Spasticity Wissel J. Schelosky LD. Scott J. Christe W. Faiss J.H. Mueller J. Early development of spasticity Gallowing stroke: a prospective, cosaryational trial, J. Neurol. 2010;257(7):1657-72.



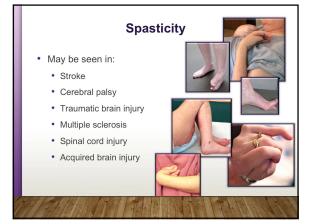








Examples of Focal Spasticity Adducted Thighs Interferes with hygiene, dressing, and sexual intimacy^{1,2} Difficulty or pain wearing shoes¹ May lead to skin breakdown and pain in fifth metatarsal head¹²



Spasticity: Definition

A motor disorder characterized by a velocity-dependent increase in *muscle tone with exaggerated tendon jerks, resulting from the hyperexcitability of the stretch reflex* and is one component of the upper motor neuron syndrome.

Lance 1980

'Disordered sensory-motor control, resulting from an upper motor neuron lesion, presenting as intermittent or sustained involuntary activation of muscles'

Burridge 2005