# Manual Therapy for Post-Concussion Syndrome

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## Objectives

- Discuss evidence for manual therapy in patients with symptoms of headache, dizziness, oculomotor impairments and neck pain
- Learn and practice manual techniques
- Discuss integration of manual therapy evaluation and treatment of patients following concussion

# ELSEVIER Available orline at www.sciencedirect.com ScienceDirect Massual Therapy 13 (2009 2-11 Masterclass Sensorimotor disturbances in neck disorders affecting postural stability, head and eye movement control Julia Treleaven\* Nick Pair and Whiplack Research Unit, Decision of Physiotherapy, Catternity of Queenland, Brithaue, Qld 4072, Australia Accepted 8 June 2007





## **Evaluation**

- Cervical Spine ROM
  - Inclinometer
    - InterraterReliability 0.88-0.96
    - ➤ MDC 5-10°



Fletcher and Bandy, JOSPT 38(10), 2008.

### **Evaluation**



- ▶ 90 cm from wall
- Mark starting point
- Eyes Closed
- Active Motion and return to starting point
- ➤ ABNormal: >4-5 cm (1.5-2 inches)

**Cervical Joint Position Sense** 















































