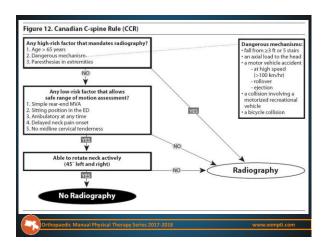


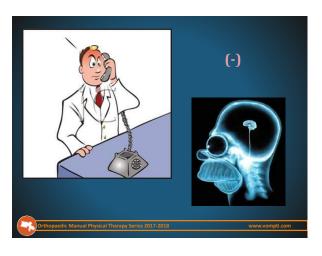


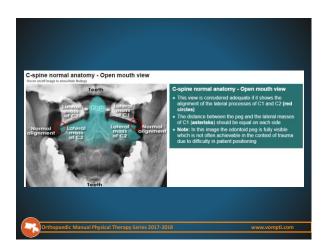


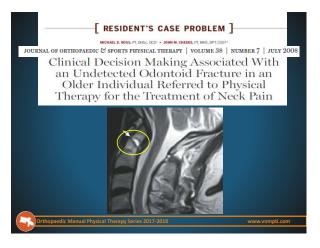


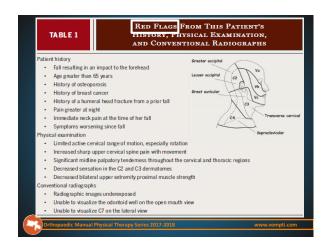
Establishing a Clinical Prediction Rule The establishment of a prediction model in clinical practice requires four distinct phases: Development—Identification of predictors from an observational study Validation—Testing of the rule in a separate population to see if it remains reliable Impact analysis—Measurement of the usefulness of the rule in the clinical setting in terms of costbenefit, patient satisfaction, time/resource allocation, etc Implementation—Widespread acceptance and adoption of the rule in clinical practice.

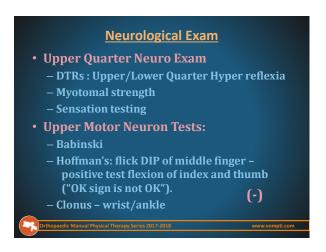


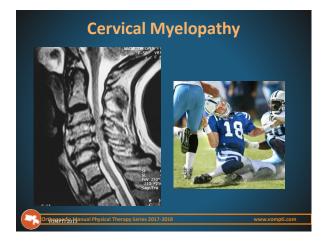


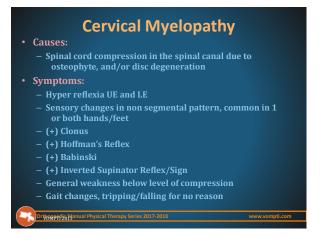


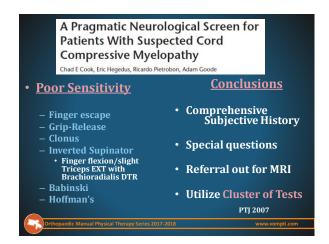


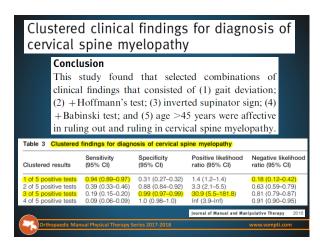


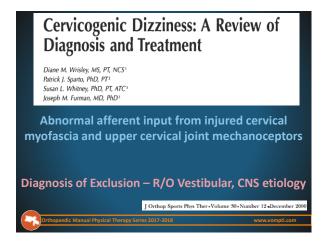


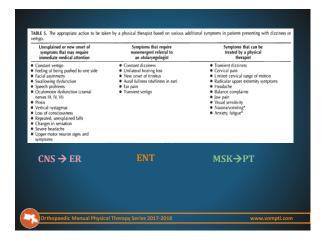


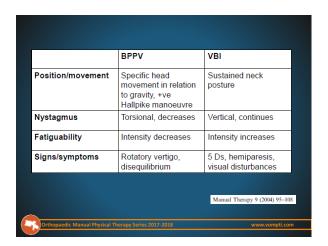


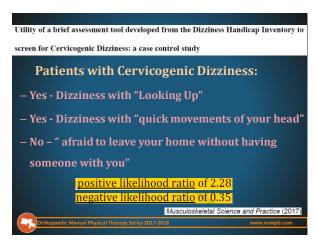


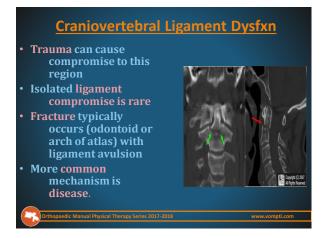


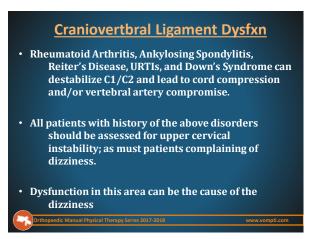


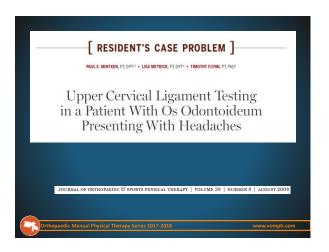








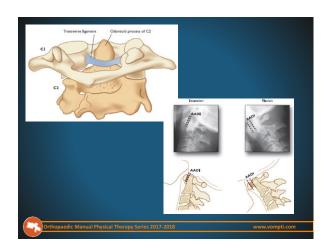


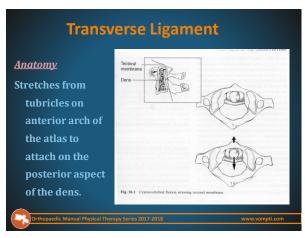


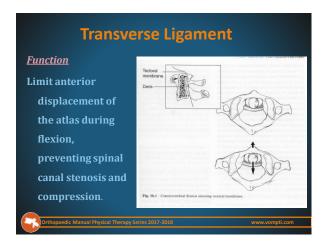
23 yo female
10/10 daily HAs, Agg with Cervical EXT
NDI 54% = Severe disability
2 yr hx intermittent LQ paresthesia
Upper cervical flexion → (+) Bilat LQ sxs
(+) Sharp-Purser → relieves sxs
(+) Transverse ligt/Ant shear test → (+) bilat LQ sxs
Referred back to MD for further imaging
(+) Klippel-Feil (congenital fusion C2/3); Os odontoid

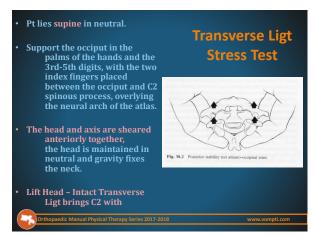


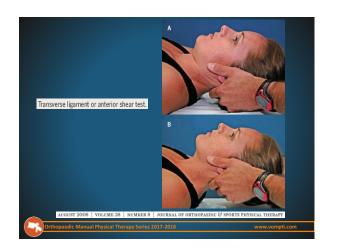


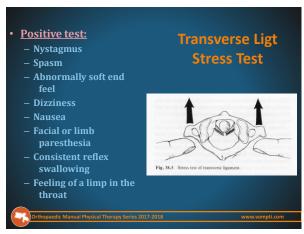


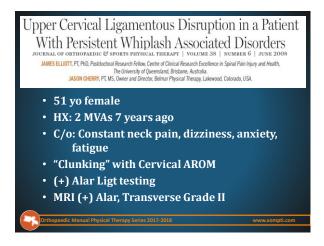


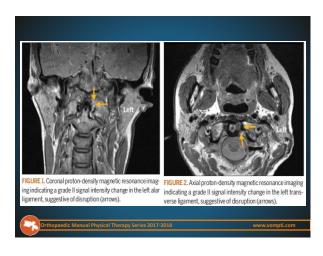


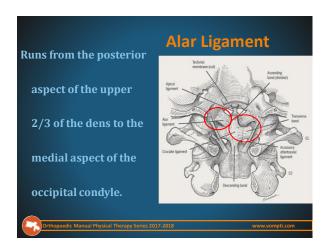


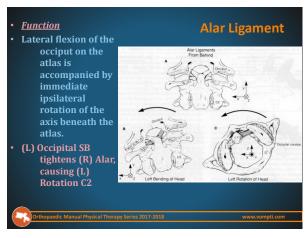


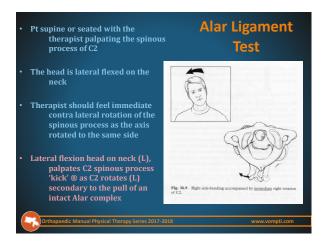


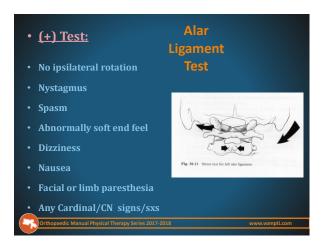


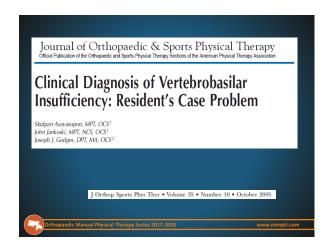








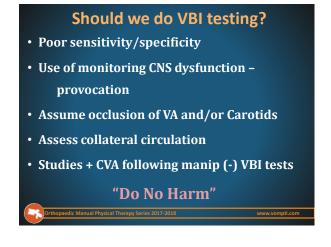


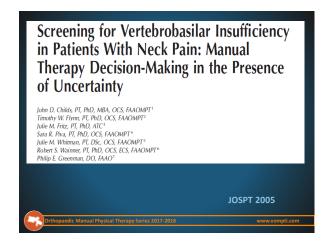


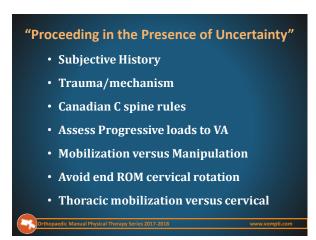
63 yo female referred for neck P!
PMHX: HTN, Hyperlipidemia
Chief c/o:

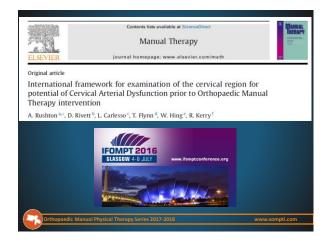
— Intermittent vertigo lasting >1 minute, aggravated by cervical rotation ®
Visual changes: "black spots", "distortion" ® eye lasting > 30 minutes, progressing
— ® frontal orbital headaches
— ® shoulder P!
Visual changes reproduced with passive Cervical EXT
Referred back to MD
(+) MRA: 90% occluded ® carotid

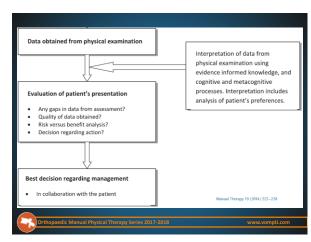




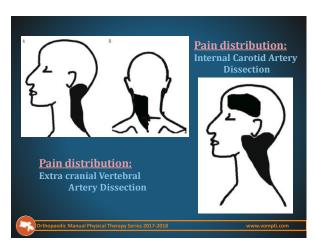


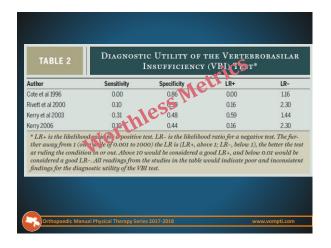


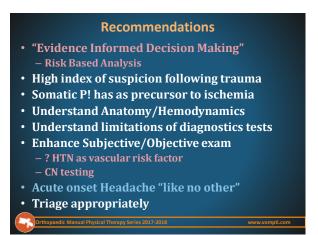


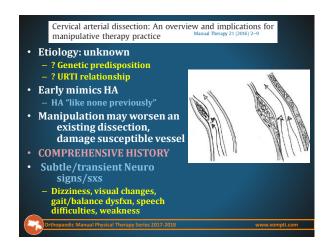


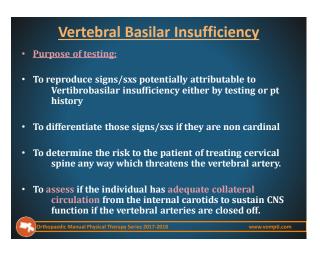


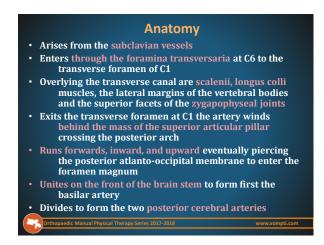


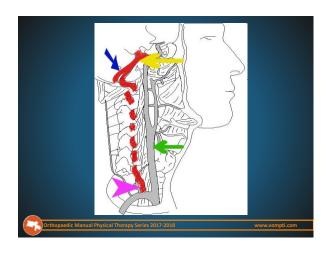


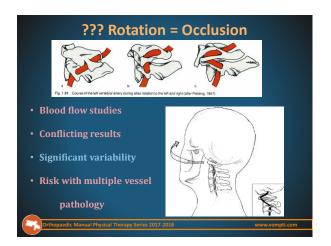




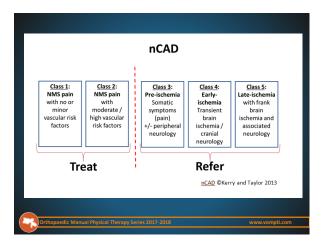












Comprehensive History first – Assess Risk
 Increasing the stress gradually
 Assess for signs of: nystagmus, altered pupil dilation, slurring of speech, slowness in response, difficulty swallowing, dizziness/vertigo, headache, tinnitus, distress.

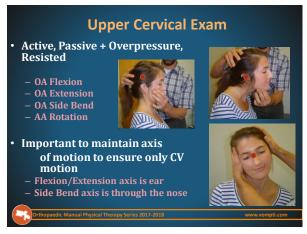
Pt supine and head supported over the edge of table
Positions of progressive stress held for 15 seconds, asking the patient to count backwards from 15.

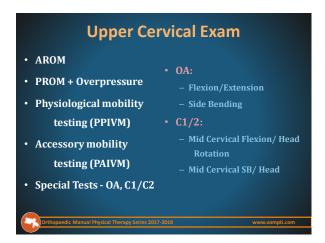
Sustained traction
Sustained rotation each direction
Sustained extension
Sustained extension/rotation each side
Sustained mobilization position

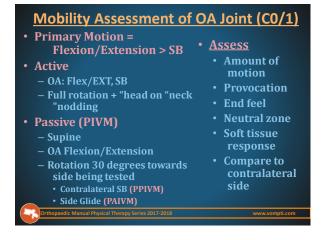
Orthopædic Manual Physical Therapy Series 2017-2018

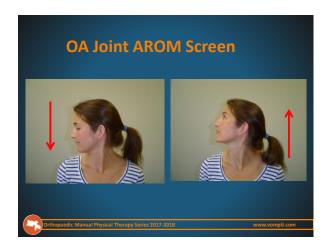
www.vompti.com





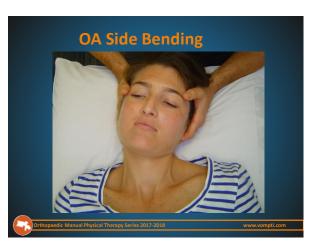






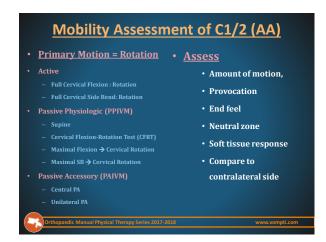






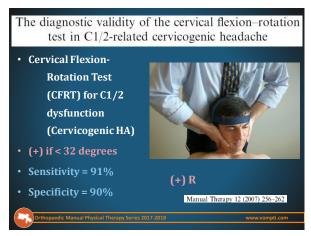


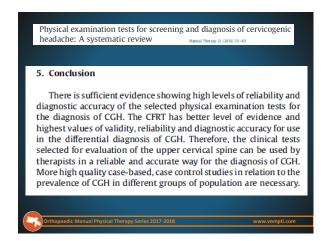




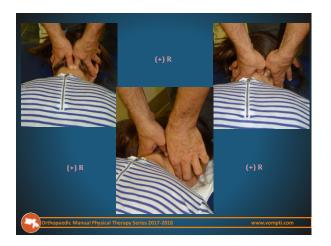












Reliability of manual examination and frequency of symptomatic cervical motion segment dysfunction in cervicogenic headache

Manual Therapy 15 (2010) 542-546

Toby Hall', Kathy Briffa, Diana Hopper, Kim Robinson

State of Pheinthrapy, Curlin Innovative Health Broach Institute Curlin University of Indiana Boat, Brothy, Perth, Worm Australia

* Assessment of reliability of manual assessment of CO/1 - C4 and to identify segment most frequently involved in CH

* C1/2 segment most commonly symptomatic

* Highlights the importance of examination and treatment procedures for this segment

