

## CERVICAL OMT: FOCUS ON THE FACET LECTURE ABSTRACT

This lecture identifies key cervical diagnostic & therapeutic applications of the **open and closed cervical facet model**. OMT modifications which focus positioning on the cervical facets may be useful in **creating safer**, **more comfortable**, **and increasingly effective direct and indirect treatment techniques**.

An innovative fingertip application of cervical High-Velocity, Low-Amplitude (HVLA) OMT will be introduced during this lecture. The emphasis will be to apply a sidebending activation through the fingertip to close an open facet on one side of a cervical somatic dysfunction and/or to apply a rotational activation to open a closed facet at the same somatic dysfunction.

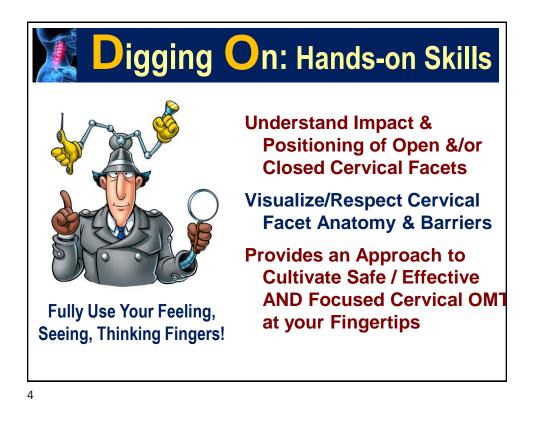
# PURPOSE OF CONTINUING OSTEOPATHIC EDUCATION

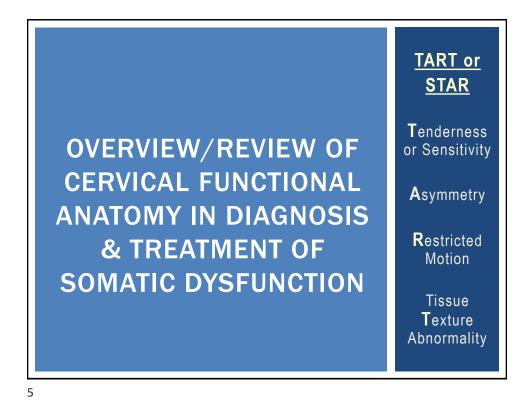


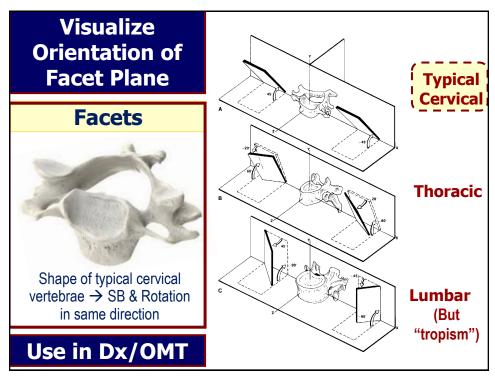
"The regimen I adopt shall be for the benefit of my patients according to my ability and judgement ..."

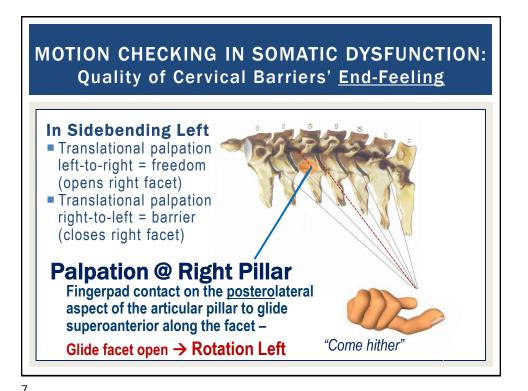
-- Hippocrates

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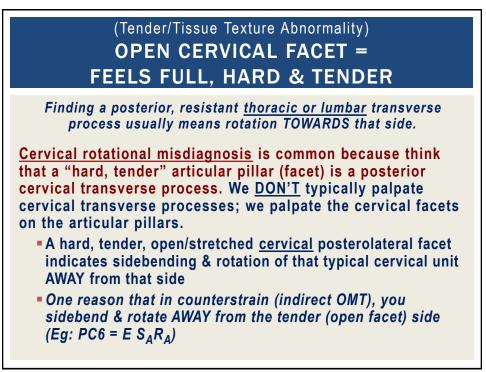




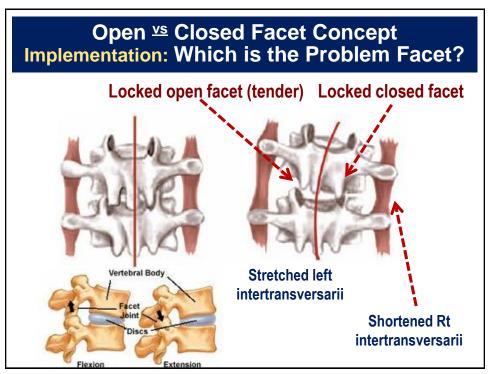




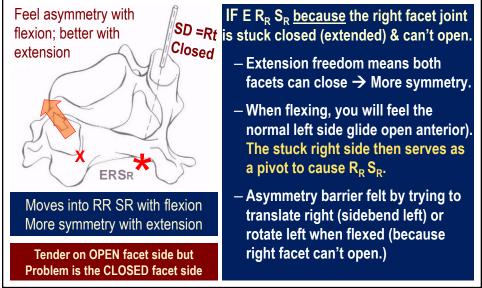
CERVICAL PATTERNS & RANGE-OF-MOTION<br/>(Individualized Normals (Including Age) ... So Compare!)C0 = Occipitoatlantal (OA)<br/>•Flex or Extend (27-45 degrees)<br/>•SLRR or SRRL (only 2-3 degrees each in SB and in Rotation)C1 = Atlantoaxial (AA)<br/>•Essentially RR or RL (38-43 degrees rotation)C2-7 = Typical Cervicals<br/>•Flex or Extend (10-20 degrees each)<br/>•SLRL or SRRR (only 4-10 degrees each in SB & in Rotation)Review Patterns with Facet R-O-M Focushttps://www.anatomystandard.com/biomechanics/spine/rom-of-vertebrae.html

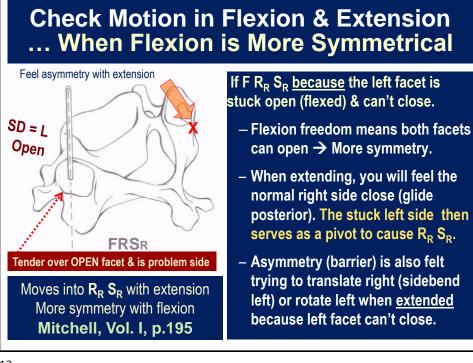






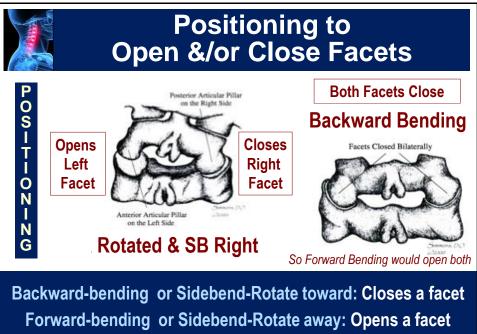




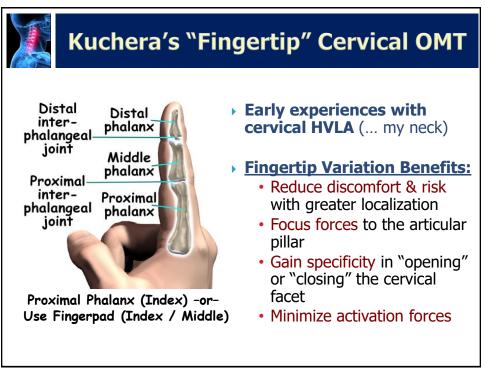




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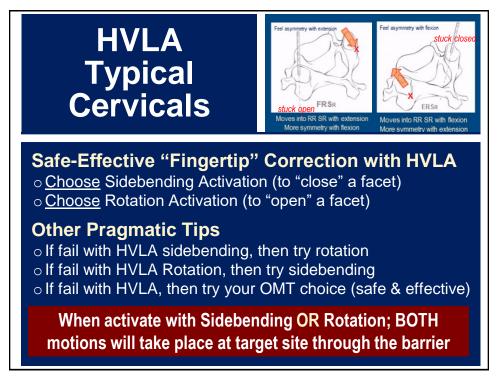


Generality: Upper cervical SD more often closed; lower more often open

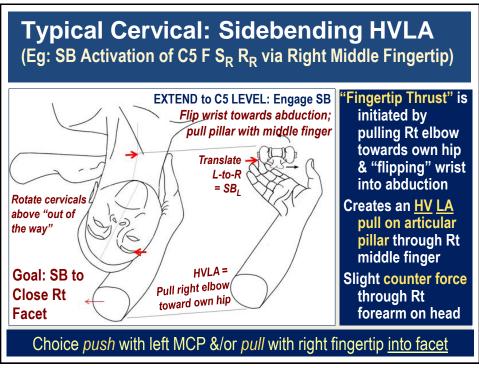


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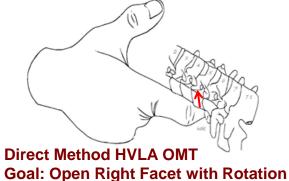


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### **Typical Cervical: Rotational HVLA** (Below, Rotation Activation of F S<sub>R</sub> R<sub>R</sub> via Right Index Fingertip)

C5 FS<sub>R</sub>R<sub>R</sub> (Right facet locked closed) HVLA OMT = ENGAGE ROTATIONAL BARRIER Lift C5-6 facets bilaterally to open facets; Use right fingertip to <u>add extra lift along facet</u> towards left eye to rotational barrier. Apply HVLA toward L eye.

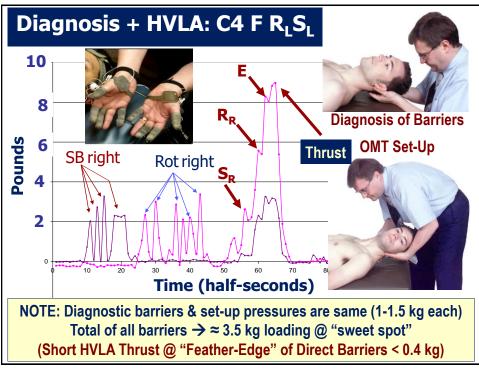


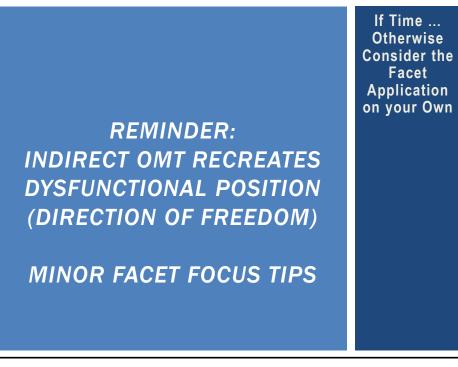
Anterosuperior traction along facets bilaterally to feather-edge of tension (opens/engages facets)

Add few degrees of left cervical rotation into the SD barrier with pressure over right facet (towards opposite eye = open Rt)

HVLA into left rotational barrier in direction toward opposite eye

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## INDIRECT TECHNIQUES REPLICATE POSITION OF DYSFUNCTION (BLT)

### BLT Example: C4 E S<sub>R</sub>R<sub>R</sub>

- Monitor & position C4-5 articular facets bilaterally
- Extend C4 on C5 further (maybe 10-20° to balance point)
- Translate right-to-left to close right facet & open left facet (to balance point ... only 4-10°)
- Rotate to right by pressing on left C5 articular pillar (toward right eye to balance point ... only 4-10°)
- Hold inhalation/exhalation phase of ease (usually exhalation) to air-hunger ... adjust as release



Instead of significant sidebending and rotation of head & neck, put pressure through the articular pillars to reduce tenderness 10 → 0-3

## INDIRECT TECHNIQUES REPLICATE POSITION OF DYSFUNCTION (FPR)

#### Example: C4 E S<sub>R</sub>R<sub>R</sub> Facilitated Positional Release (FPR)

- Flatten C-curve
- Flatten Patient (Compress down to target segment C4-5)
- Find Freedom (Same as BLT with extension, right-to-left translation & pressure toward opposite eye)
- Hold Five Seconds
- Find Way Home before removing compression



If small hands, use both (like BLT) to monitor articular pillars bilaterally; Compress: Use belly/chest as 3<sup>rd</sup> hand





