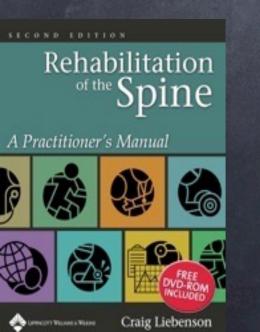
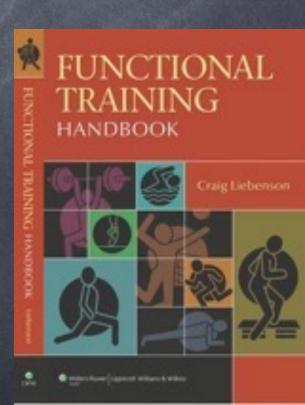
XI) Thoracic Spine

- Gravity
- Workplace design flaws
- Training myths







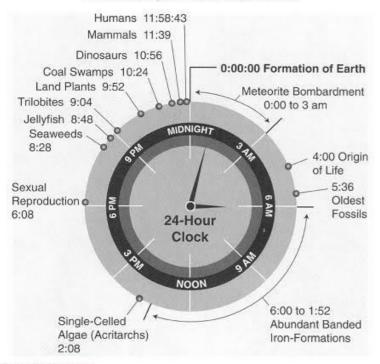


Is This Common? Is It a Problem?





The History of Earth As A Clock

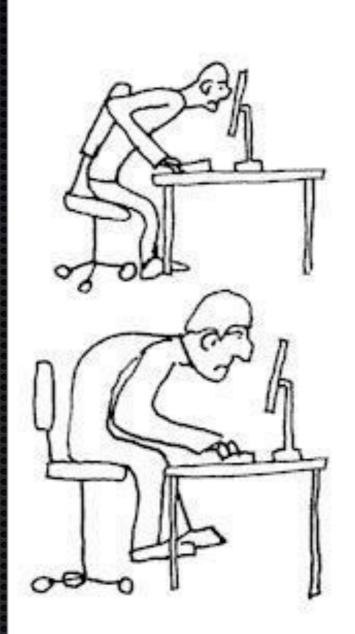


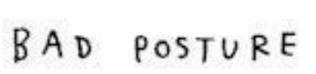
Source: <u>UW-Geoscience</u>

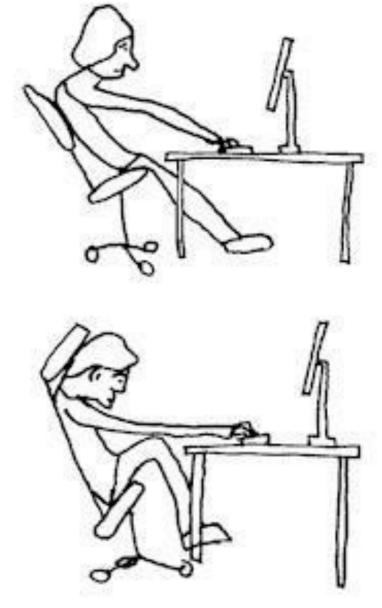
THE STORY OF THE HUMAN BODY

EVOLUTION HEALTH, AND DISEASE

DAN<mark>IEL</mark> E. LIEBERMAN







EXAMPLES courtesy of The Cartoon Blog

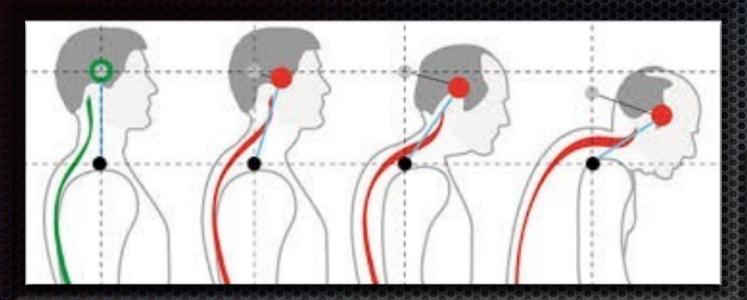


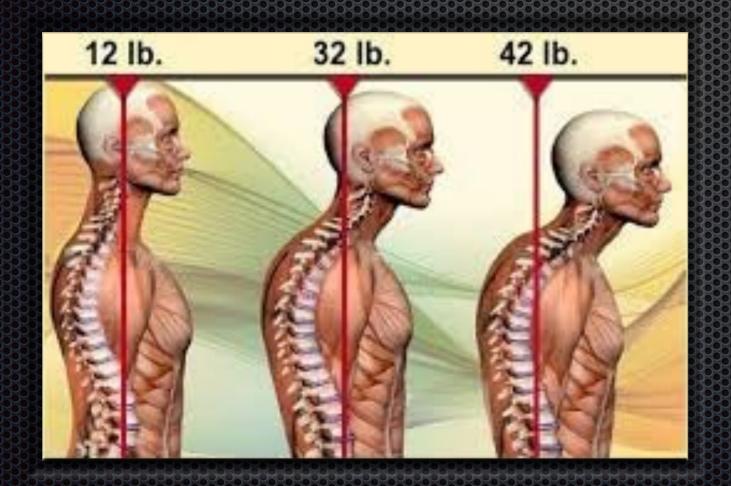


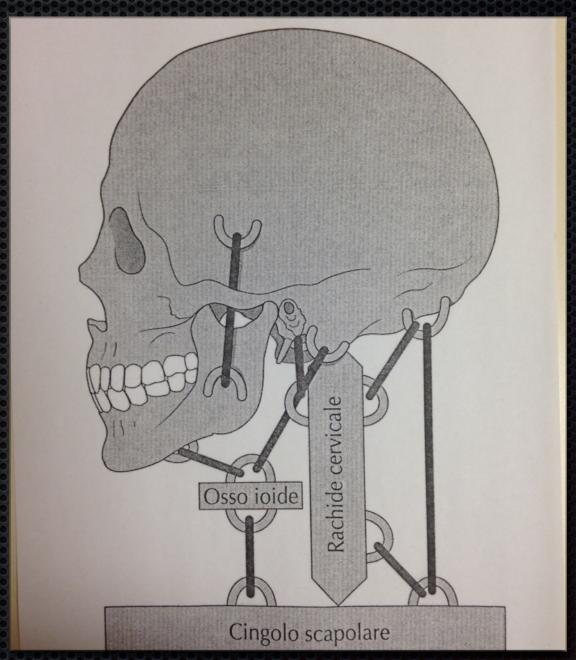


Why is sitting the new smoking?

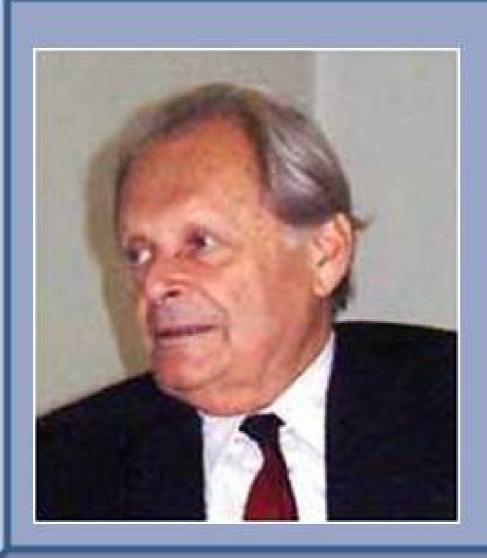






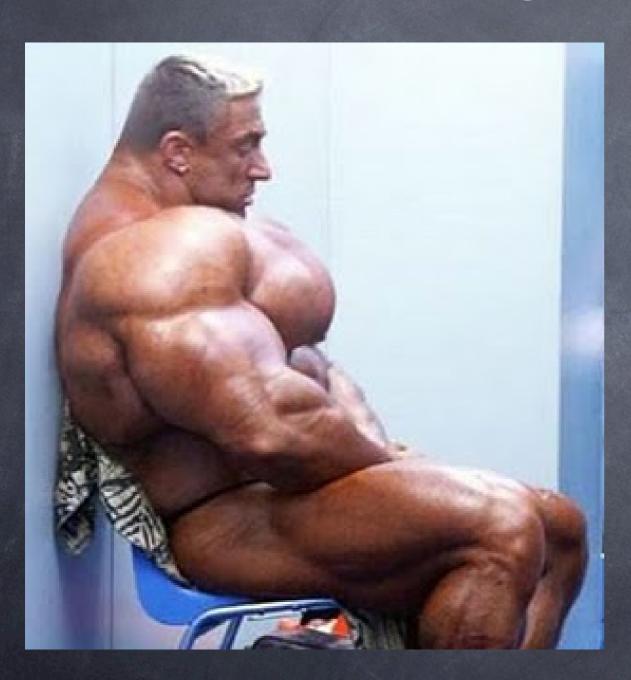


Working out should improve them - right?



Janda's Approach

Most gym exercises tighten us



Think of working out in the gym. All the movements are about folding inwards. Between curls, crunches and squats we're always tightening and closing ourselves up."

Laird Hamilton



FIRST MOVE WELL

THEN NEVE OF TEN



graycook.com * functionalmovement.com

Regional Interdependence

- Mobility/Stability
- Joint by Joint Approach
- Layer (Stratification) Syndrome
- Upper/Lower Crossed Syndromes



Mobility & Stability



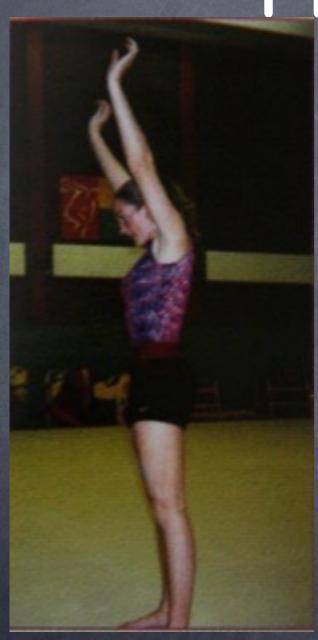


Two things you need in life Can this be solved Yes with Duct Tape? No **Problem Solved!** Can this be solved Yes with WD40? ... | | GraphJam.com



Stability/Mobility Upper Quarter





Thoracic needs what?



GH needs what?



Mobility vs Stability







Mobility vs Stability









MOBILITY

Sub-O

G-H

T/S

Hip

Ankle

1st MTP



STABILITY

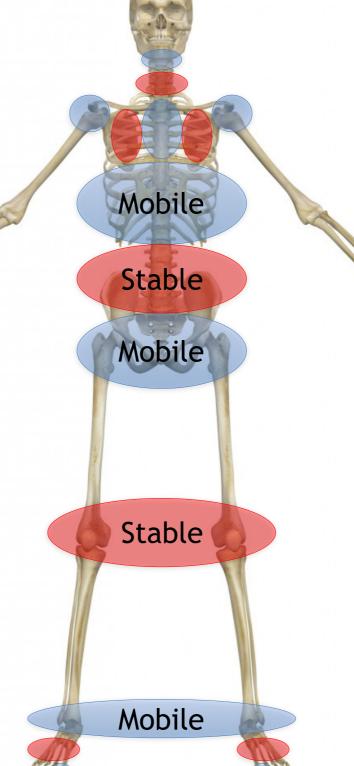
C/S

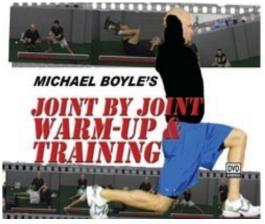
S-T

L/S

Knee

Foot (sole)





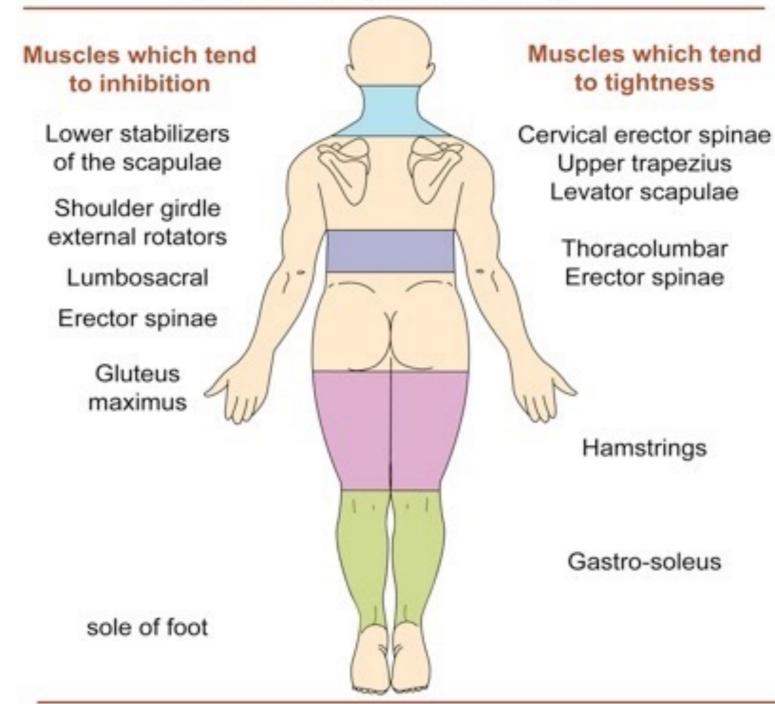


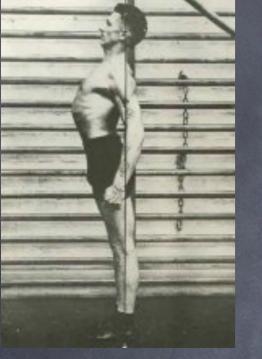
Layer Syndrome



Muscle Hypotrophy &

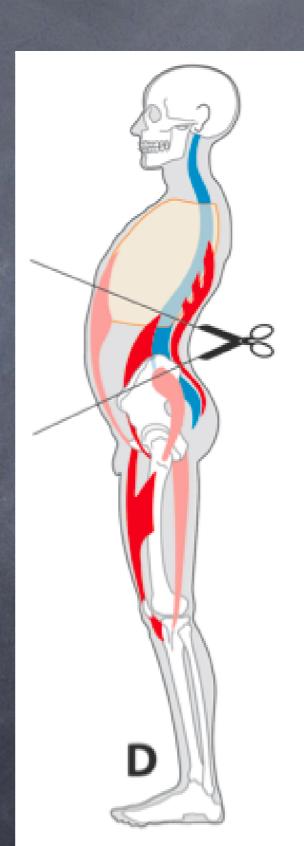
Muscle Hypertrophy

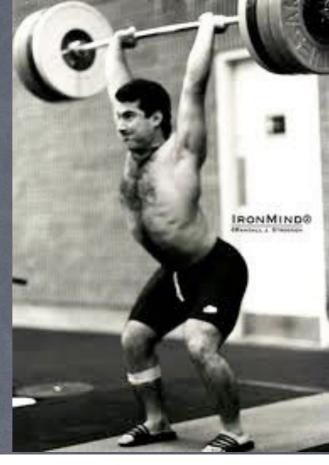


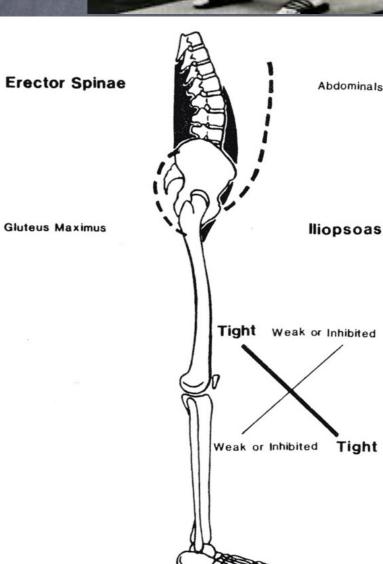


Scissors

- Oblique diaphragm
- Failure of oblique abdominal muscle slings
- Hyperlordosis
- Lower CrossSyndrome (Janda)







Lower Cross/Open Scissors?

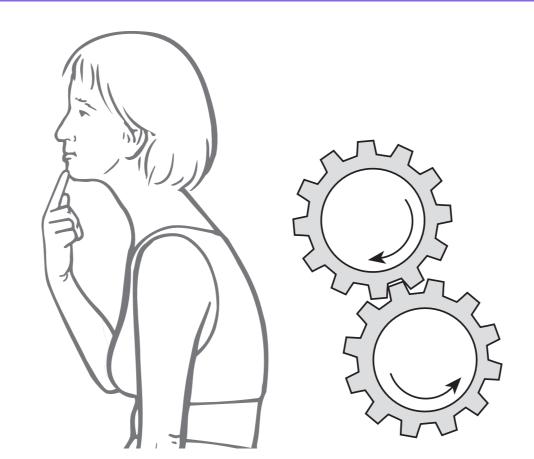


I) ASSESSMENT

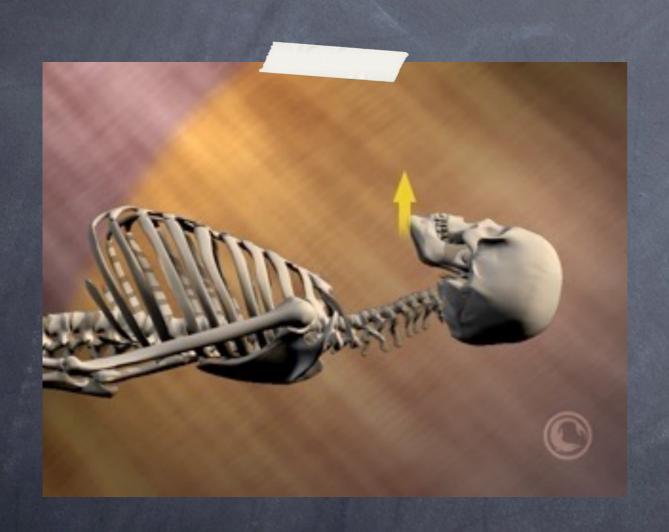
Head Forward Posture

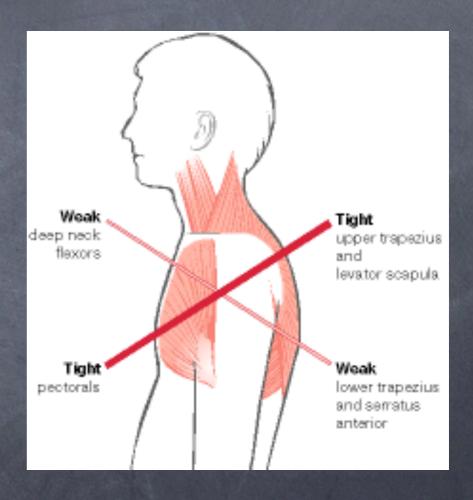


Why not being able to hold your head up can be a a pain in your neck



CO-C1 Flexion









T4 Mobility Screen - P674

 Stand vs. wall w/ arms externally rotated/supinated & feet slightly forward

- Buttocks vs wall
- Back of head vs wall
- Hands vs wall
- Try to flatten back
- Record
 - Can back flatten at all?
 - Where does pt. feel tension (mid-back, left or right side, neck)

Scoring

- 0 Pain
- 1 Can't perform movement
 - Any chin poke
 - Back of head can't touch wall w/ horizontal face line (no C0-C1 hyperextension)
 - ↓↓↓ Shldr Ex Rot Wrist >1 cm off wall
 - No anterior rib cage motion when flattening back against wall
 - All five fingers not touching the wall
- 2 Performs movement w/ compensation
 - T/L lordosis > 1 cm from wall
 - ↓ Shldr Ex Rot (can't flatten wrist vs wall)
- 3 movement performed w/out compensation
 - Wrist & fingers flat on wall
 - T/L lordosis < 1 cm of wall

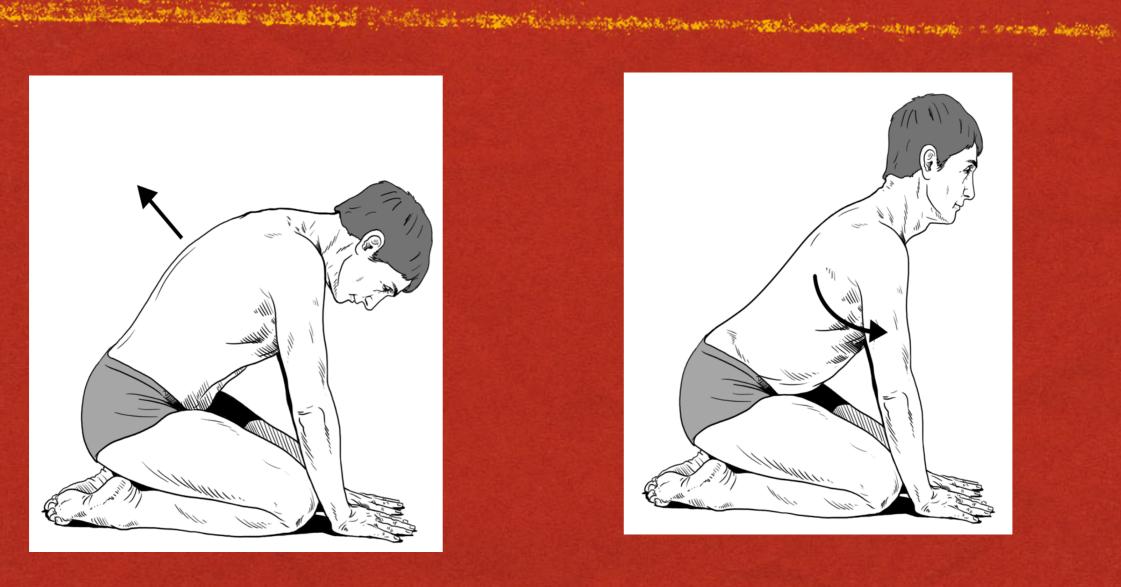
Wall Angel Assessment

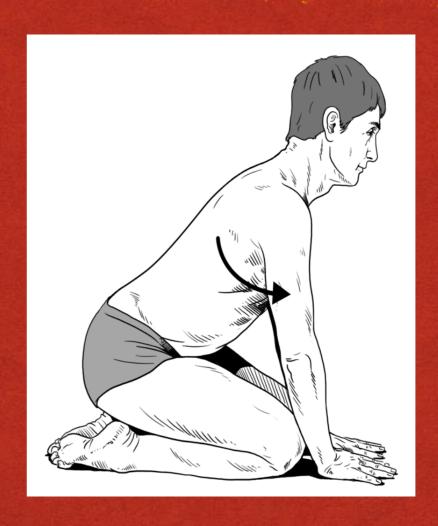


I) TRAINING

- 1. T4 Sphinx
- 2. Vertical Foam Roll
- 3. Horizontal Foam Roll
- 4. Upper Back Cat Camel
- 5. Lat Stretch
- 6. T4 Rotation
- 7. Halo
- 8. Cressey

1. Sphinx – T4-8 ROS p864,865









2. VERTICAL FOAM ROLL

The state of the s

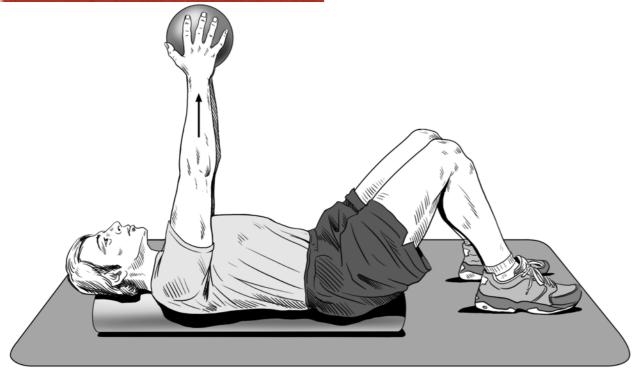


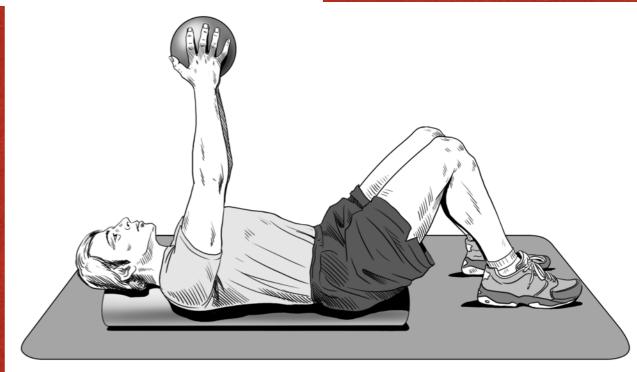
VERTICAL FOAM ROLL



CHEST PRESSES

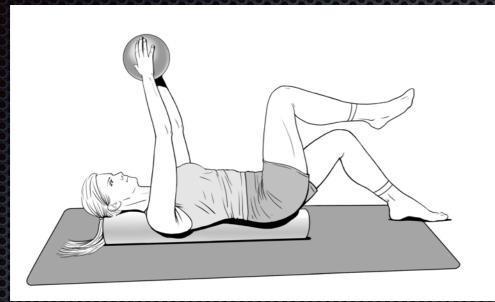






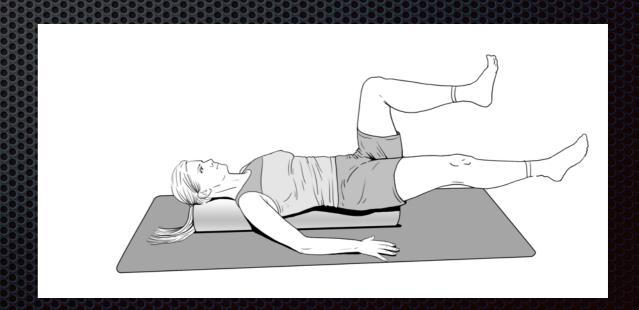
Avoid pressing up only part way

Additional Vertical Foam Challenges



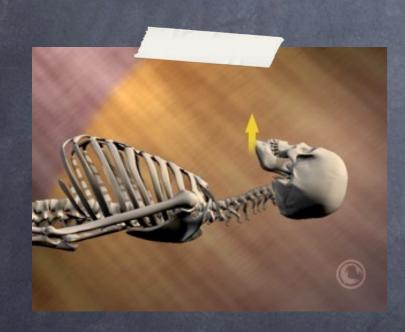
Marching

Bicycle Kicks

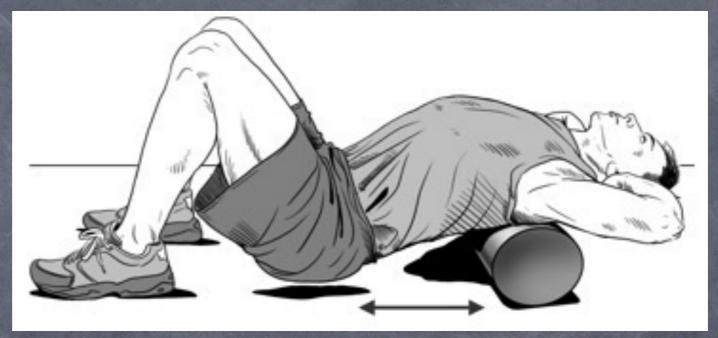


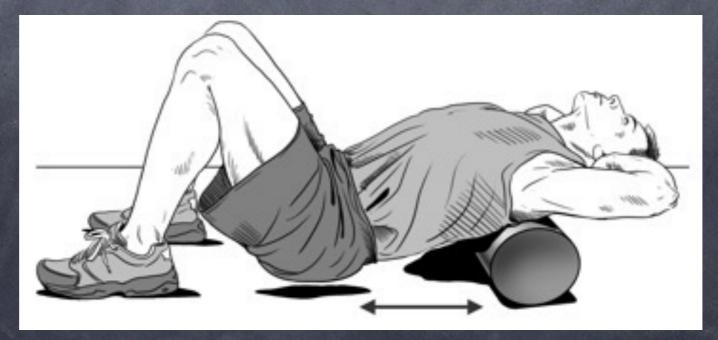
3. Horizontal Foam Roll

- Extend your back over the foam roll
 - Keep your chin tucked in



Avoid poking your chin





Option using Gym Ball





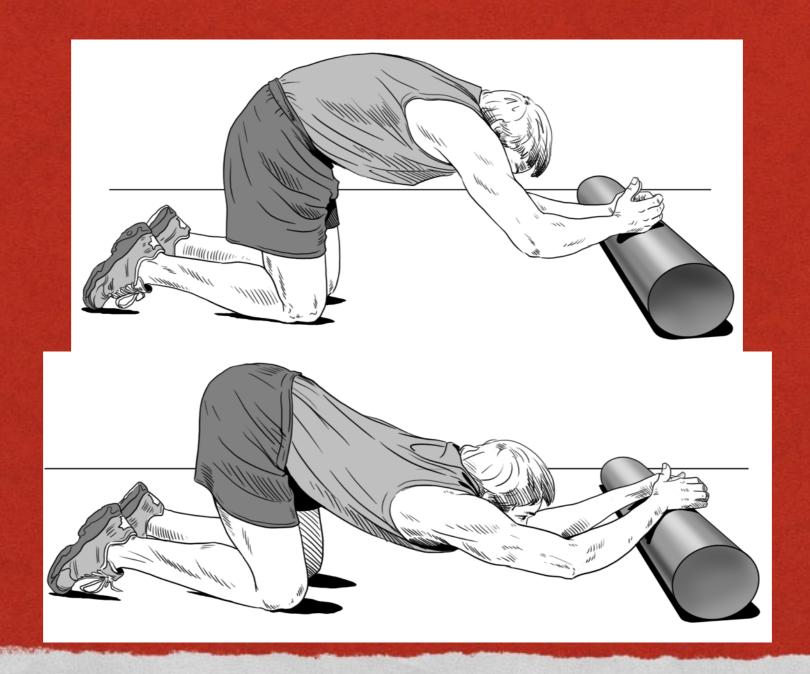
4. Upper Back Cat

- Place your wrists on the foam roll
 - Round your back up
 - Let your chest drop down



THE MOST COMMON MISTAKE TO AVOID

- SHRUGGING YOUR SHOULDERS

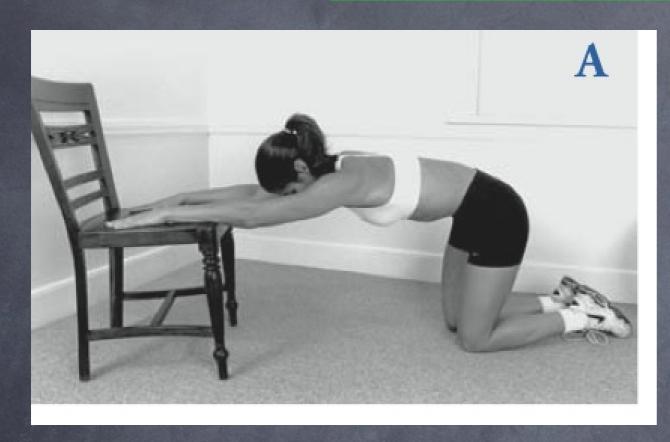


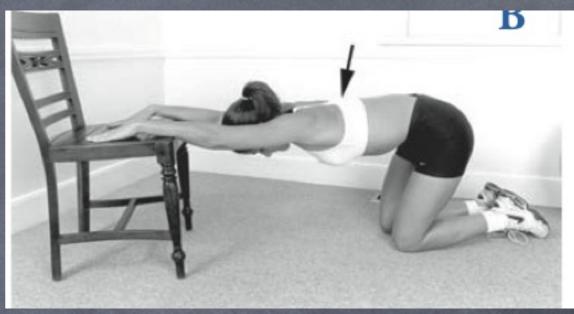
Option using Gym Ball





<u>5. Lat Stretch</u>





- Round up
- Drop down
- Inch knees forward
- Bring palms together

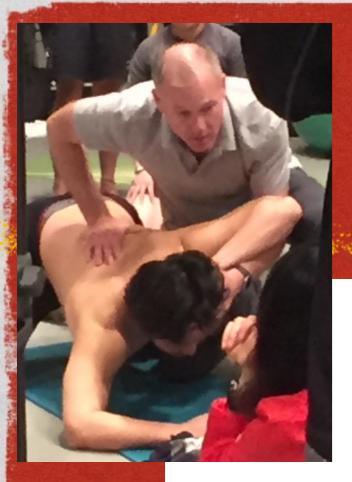


6. T4 Rotation





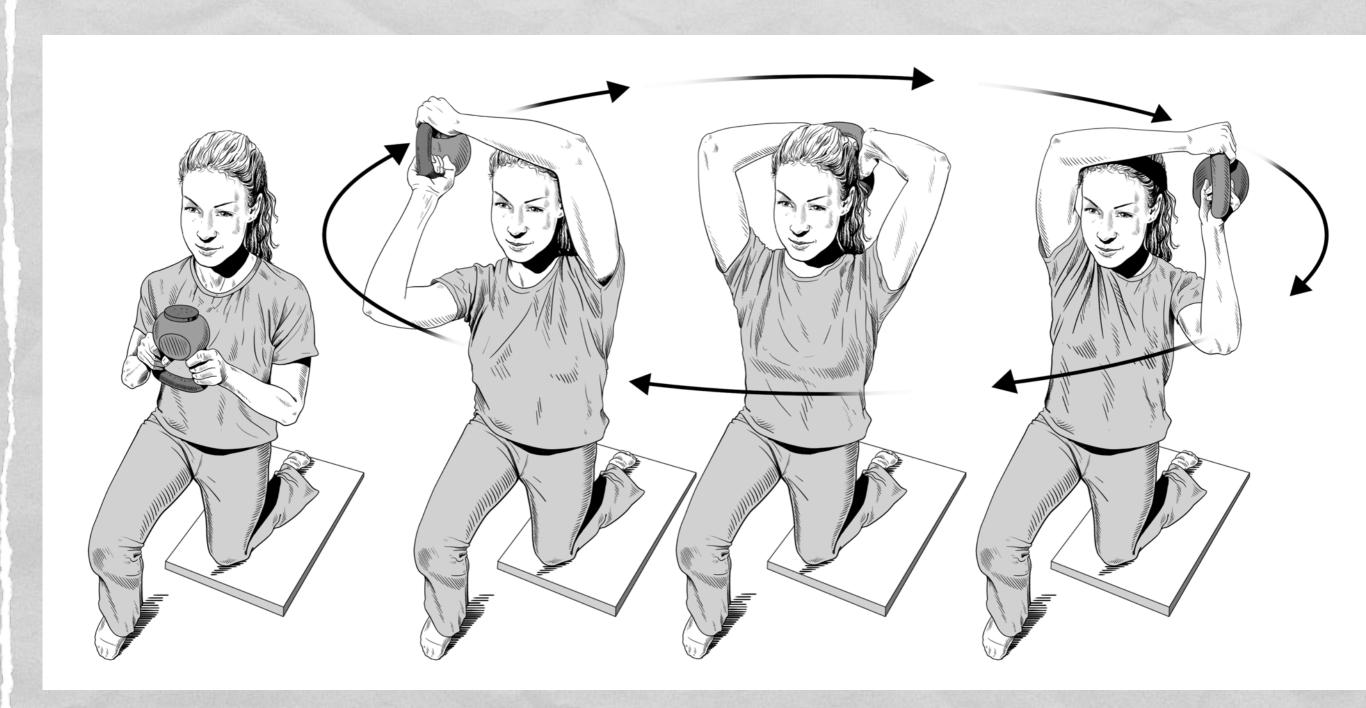




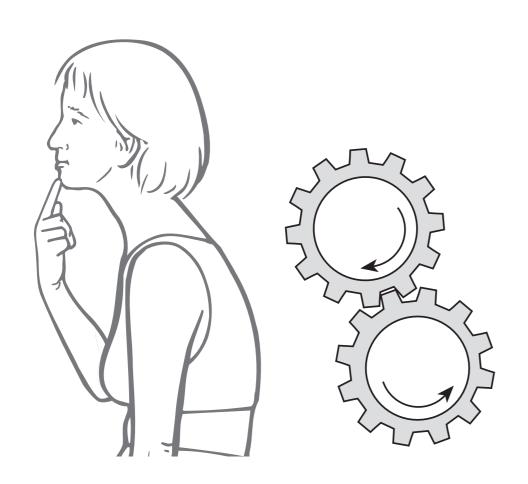
FINAL POSITION

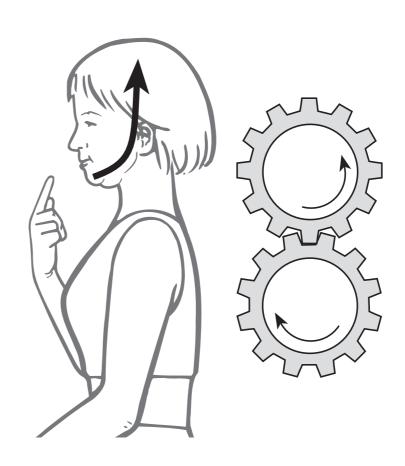


7. THE HALO



Nod Yes to find "neutral" Cervical Spine







8. Cressey Upper T-Spine Mob



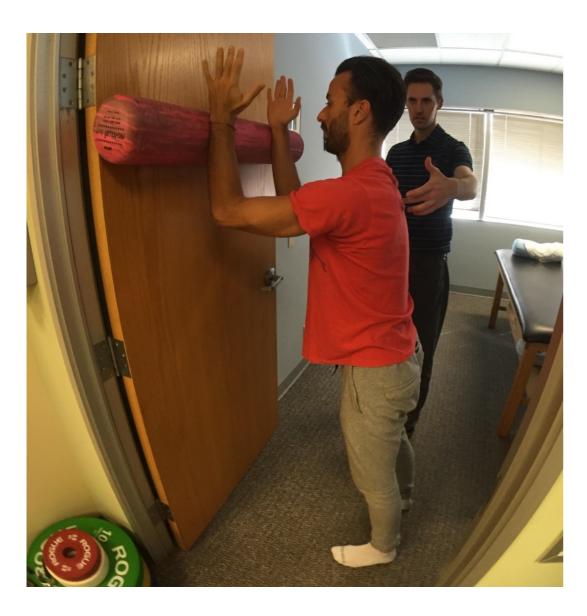


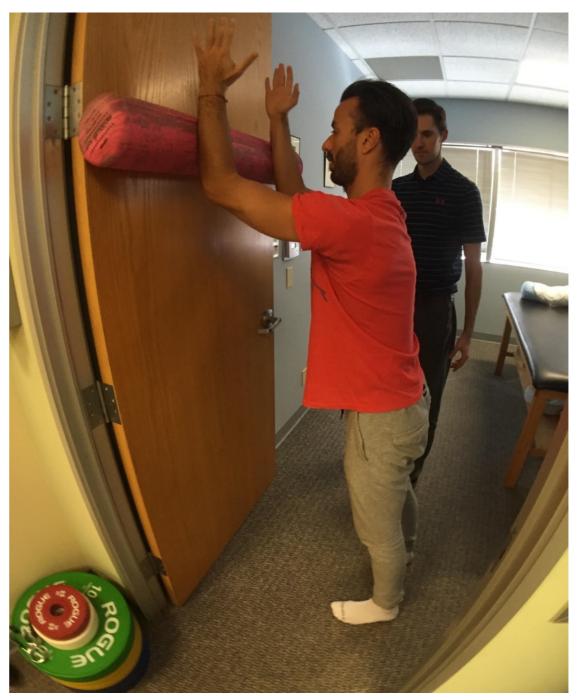
T4 Bench





Wall Slide w/ Foam Roll





Wall Slide w/ Band





Wall Slide w/ Band





Y w/ Lift Off





Back to Wall Shoulder Flexion



