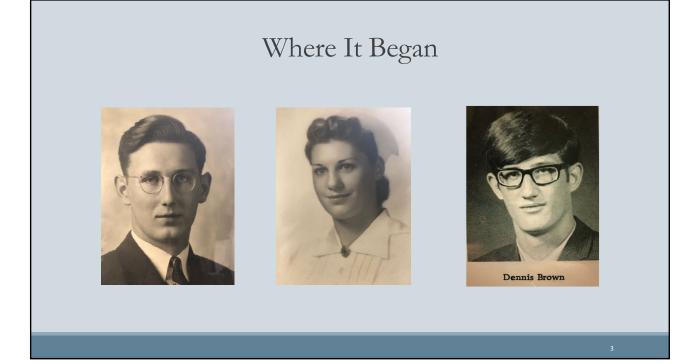
## Medical Fallacies from Leeches to Ablations

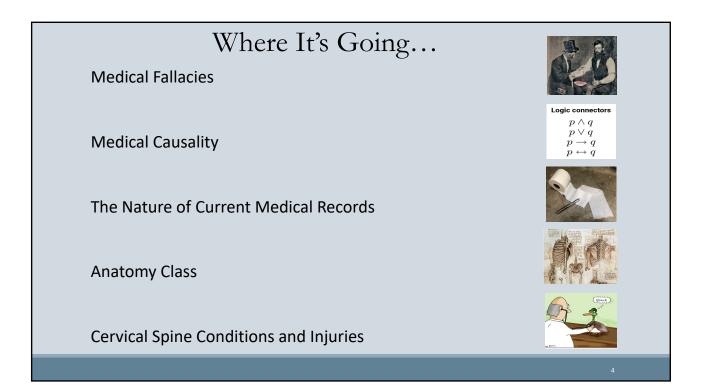


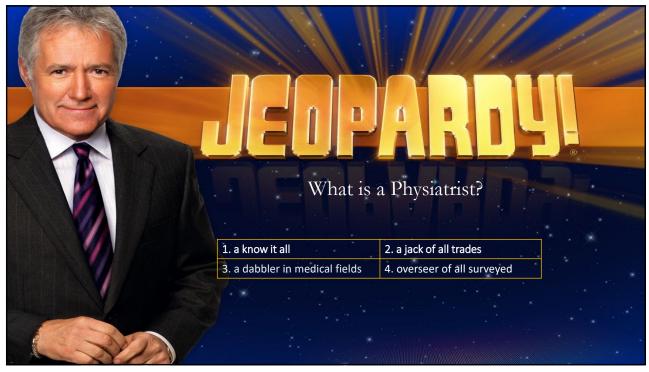
A Presentation By Dennis G. Brown, M.D., J.D.

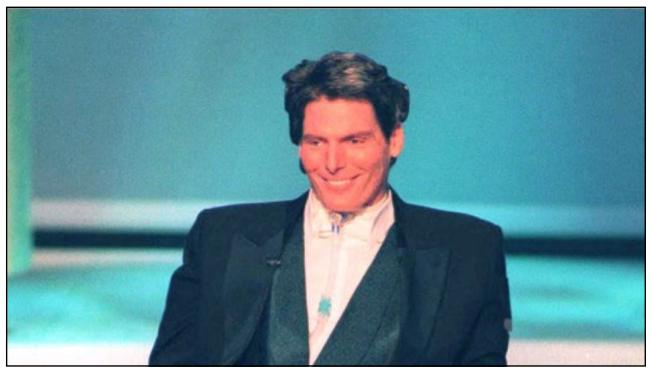










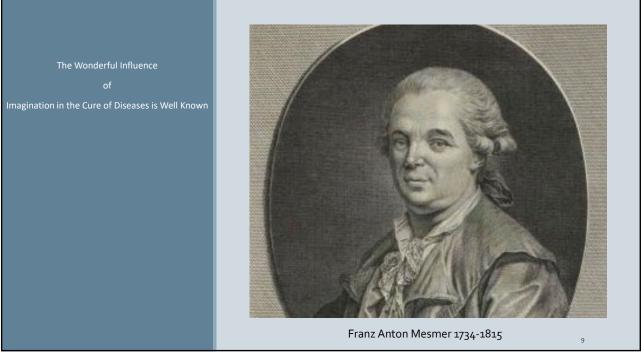


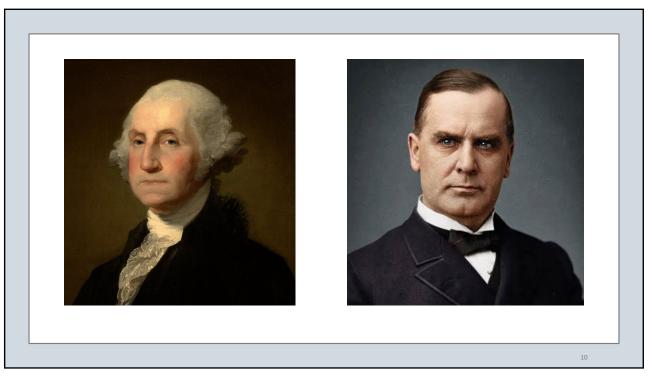


# Medical Fallacies





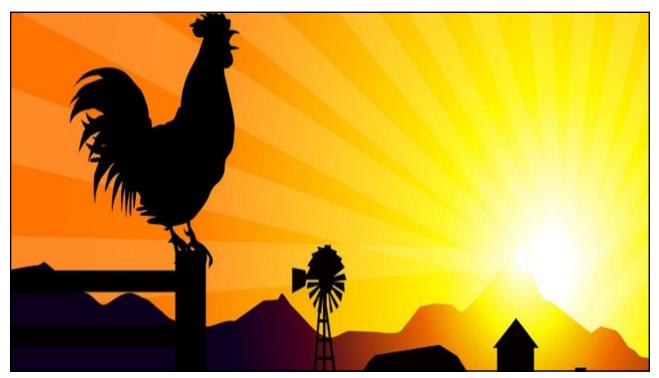




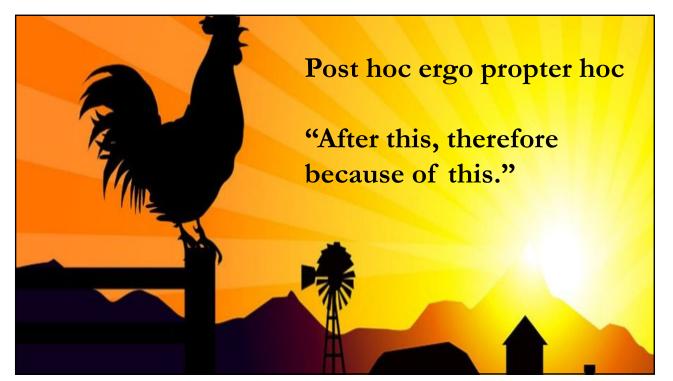




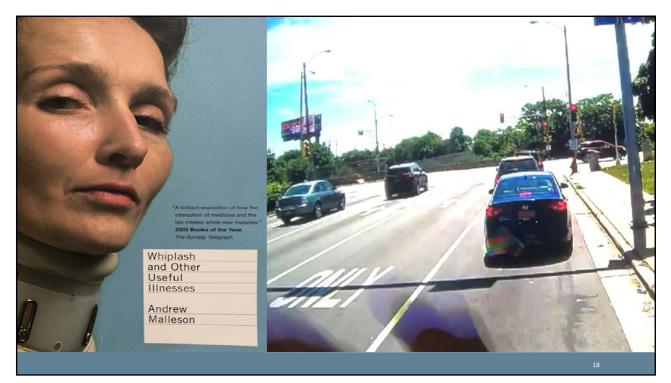


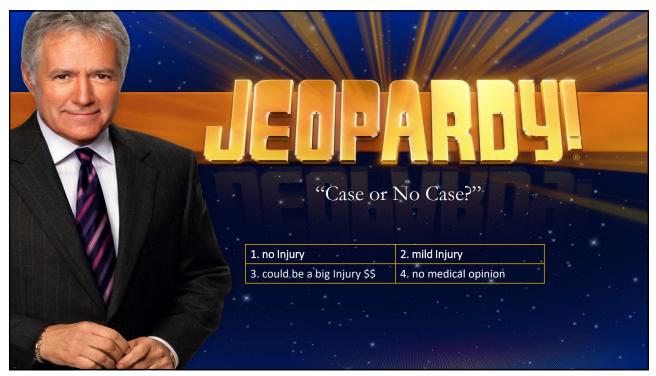


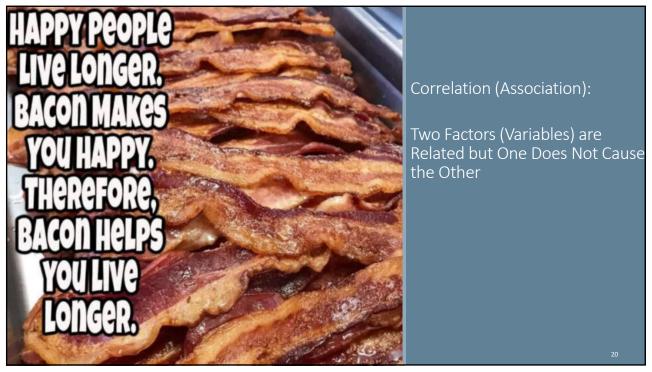






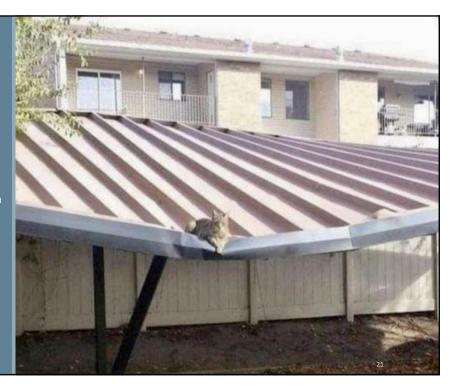






# Correlation is not Causation

- Temporality
- The Strength of the Association Between Two Variables
- A Dose-Response Relationship
- Biologically Plausible
  Mechanism
- Repeatability of Study Findings

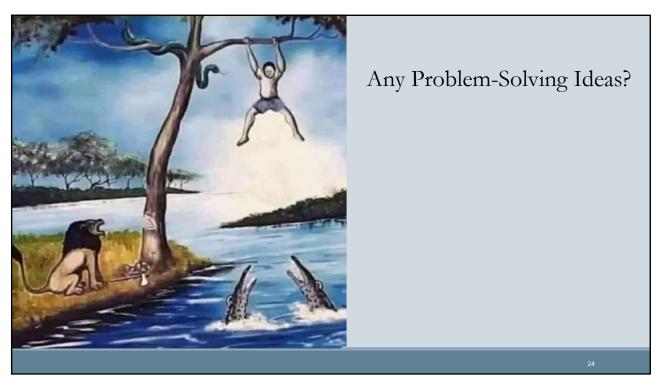




# The Nature of Current Medical Racords

"This note was dictated using Dragon voice software and may contain errors as a result."





## Soap Note

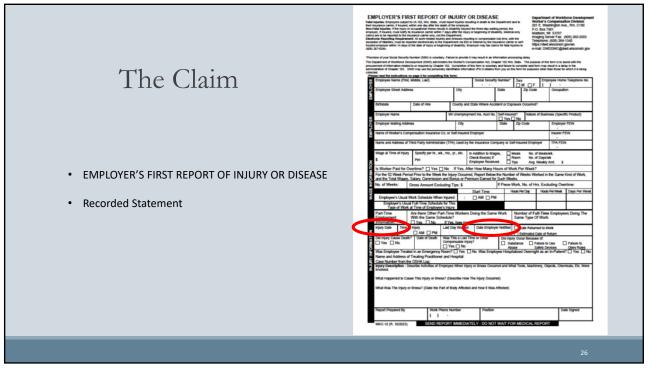
Subjective: DOI: 2/4/22. 32-year-old male fell and had immediate right arm pain. He thinks it's broke, no numbness.

Objective: It looks like he broke his right arm alright. X-ray confirms a right Colles Fracture.

Assessment: Right distal radius fracture

<u>**P**lan</u>: Fracture reduced in office and splinted. To see me in the office in one week.



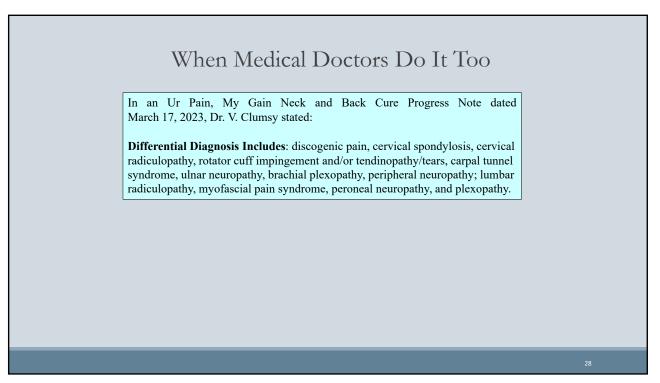


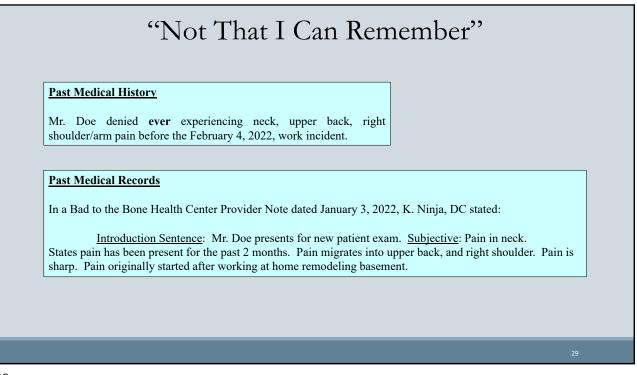
### Now What?

In a Lumbar Yard Institute First Report dated April 2, 2022, C. McCracken, DC stated:

**<u>History of Injury</u>**: On 2/4/22 patient fell at work and hit head and right arm. . . . The right arm fracture healed. The patient is not satisfied with current treatment and came into our office for a second opinion to be evaluated and treated. . . .

**Description:** (1) Head Injury. (2) Concussion w/o Loss of Consciousness. (3) Post-Traumatic Headaches/Acute/Sub-Acute. (4) Cervicogenic Cephalgia. (5) Sprain of Joint and Ligaments of Other Parts of Neck. (6) Strain of Muscle, Fascia, Tendons at Neck Level. (7) Cervical Radiculitis/Right. (8) Cervical Pain. (9) Muscle Spasm/Right Side/C-Sp. (10) Paresthesia/Intermittent/Right Upper Extremity. (11) Spinal Effusion and Swelling. (12) Cervical Segmental Dysfunction. (13) Cervical/Right Upper Extremity Muscle Weakness. (14) Contusion of the Right Shoulder. (15) Sprain of other Specified Parts/Right Shoulder Girdle. (16) Strain of other Muscles, Tendons, and FASCIA, at Upper Shoulder Level/Right/Initial Encounter. (17) Shoulder Pain/Right. (18) Shoulder Effusion/Right. (19) Shoulder Stiffness/Right. (20) Segmental Dysfunction/RUE. (21) Thoracic Spine Pain. (22) Thoracic Segmental Dysfunction. (23) Unspecified Injury/Lower back/Initial Encounter. (24) Lower Back Pain. (25) Lumbar Radiculopathy/Bilateral Lower Extremities. (26) Lumbar Spine Segmental Disorder. (27) Other Cause or Strike by Thrown, Projected or Falling Object/Initial Encounter. (28) Work-Related Injury.





<b>Line Devil Is In The Details</b> a.k.a. Ignore the Fine Print at Your Own Risk <b>Review of Systems:</b> Musculoskeletal: No neck pain, no myalgias. <b>Examination:</b> General: No acute distress Neck: Non-tender. Normal range of motion.      A Franciscan Health Care Cervical Spine MRI scan interpretation dated November 10, 2022, indicates:      History: Severe right sided-neck and right shoulder pain. No injury Impression: Mild uncovertebral spurring, predominantly on the left at C5-C6 in an otherwise negative exam.      A Franciscan Health Care Initial Physical Therapy Note dated November 11, 2022, indicates:      History: Continued severe pain: Played golf yesterday	
Review of Systems:    Musculoskeletal: No neck pain, no myalgias.      Examination:    General: No acute distress Neck: Non-tender. Normal range of motion.      A Franciscan Health Care Cervical Spine MRI scan interpretation dated November 10, 2022, indicates: <u>History</u> :    Severe right sided-neck and right shoulder pain. No injury <u>Impression</u> : Mild uncovertebral spurring, predominantly on the left at C5-C6 in an otherwise negative exam.      A Franciscan Health Care Initial Physical Therapy Note dated November 11, 2022, indicates:	The Devil Is In The Details
Review of Systems:    Musculoskeletal: No neck pain, no myalgias.      Examination:    General: No acute distress Neck: Non-tender. Normal range of motion.      A Franciscan Health Care Cervical Spine MRI scan interpretation dated November 10, 2022, indicates: <u>History</u> :    Severe right sided-neck and right shoulder pain. No injury <u>Impression</u> : Mild uncovertebral spurring, predominantly on the left at C5-C6 in an otherwise negative exam.      A Franciscan Health Care Initial Physical Therapy Note dated November 11, 2022, indicates:	a k.a. Ignore the Fine Print at Your Own Risk
Examination:    General: No acute distress Neck: Non-tender. Normal range of motion.      A Franciscan Health Care Cervical Spine MRI scan interpretation dated November 10, 2022, indicates: <u>History</u> : Severe right sided-neck and right shoulder pain. No injury <u>Impression</u> : Mild uncovertebral spurring, predominantly on the left at C5-C6 in an otherwise negative exam.      A Franciscan Health Care Initial Physical Therapy Note dated November 11, 2022, indicates:	a.k.a. ighter the fille fille four own hisk
A Franciscan Health Care Cervical Spine MRI scan interpretation dated November 10, 2022, indicates: <u>History</u> : Severe right sided-neck and right shoulder pain. No injury <u>Impression</u> : Mild uncovertebral spurring, predominantly on the left at C5-C6 in an otherwise negative exam.      A Franciscan Health Care Initial Physical Therapy Note dated November 11, 2022, indicates:	Review of Systems: Musculoskeletal: No neck pain, no myalgias.
indicates: <u>History</u> : Severe right sided-neck and right shoulder pain. No injury <u>Impression</u> : Mild uncovertebral spurring, predominantly on the left at C5-C6 in an otherwise negative exam. A Franciscan Health Care Initial Physical Therapy Note dated November 11, 2022, indicates:	Examination: General: No acute distress Neck: Non-tender. Normal range of motion.
indicates: <u>History</u> : Severe right sided-neck and right shoulder pain. No injury <u>Impression</u> : Mild uncovertebral spurring, predominantly on the left at C5-C6 in an otherwise negative exam. A Franciscan Health Care Initial Physical Therapy Note dated November 11, 2022, indicates:	
uncovertebral spurring, predominantly on the left at C5-C6 in an otherwise negative exam. A Franciscan Health Care Initial Physical Therapy Note dated November 11, 2022, indicates:	
History: Continued severe pain: Played golf yesterday	A Franciscan Health Care Initial Physical Therapy Note dated November 11, 2022, indicates:
	History: Continued severe pain: Played golf yesterday
	History: Continued severe pain: Played golf yesterday

## A History Followed by a Jab

#### **Physical Examination**

Constitutional: NAD

<u>Psychiatric</u>: Alert, awake, and oriented.

#### Musculoskeletal Exam

*Upper Limbs*: No evidence of any atrophy in the upper limbs is noted. On both shoulders contour is normal. No evidence of any effusion or swelling is noted. Upon palpation is not tender. No instability is noted. Range of motion is normal. Circumduction is normal (165 to 180 degrees). Abduction is normal (165 to 180 degrees). Forward flexion is normal (165 to 180 degrees). Scapular protraction/retraction is normal. Bicipital tendon is normal. Yergason test is negative. Elbow flexion is normal. Extension is normal. Elbow joint (superior radioulnar) stability is normal. Pronation/supination is normal, without limb discrepancy. On both forearms contour is normal. No evidence of any effusion or swelling is noted. Medial epicondyle is normal. Ulnar nerve is normal. Lateral epicondyle is normal. Thumb is normal. Abductors/extensors of the thumb are normal. Carpal tunnel signs (Tinel, Phalen and resisted motion) are normal. Intrinsic function is normal. Small joints in the fingers who normal findings. Arterial assessment is normal (all).

The Dreaded Transmittal Letter

**DOI:** February 4, 2022

DOB: August 12, 1992

[Subjective]: Non-resolved neck, right shoulder, right arm, low back, and right leg pain.

Claimant with the above complaints following a fall and a conceded right forearm fracture that healed. He treated with PMD, orthopedist, chiropractors, and currently is in physical therapy and pain management.

[Objective]: X-rays and December 15, 2023, imagining studies results as indicated.

[Assessment]: Concerns regarding causation of evolving multiple bodily complaints with delay in onset and treatment and with lengthy ongoing medical treatment without reported improvement.

Our investigation revealed...

[Plan] Causation, reasonable medical treatment, MMI, any PPD and temporary/permanent work restrictions, and necessity for future medical treatment...



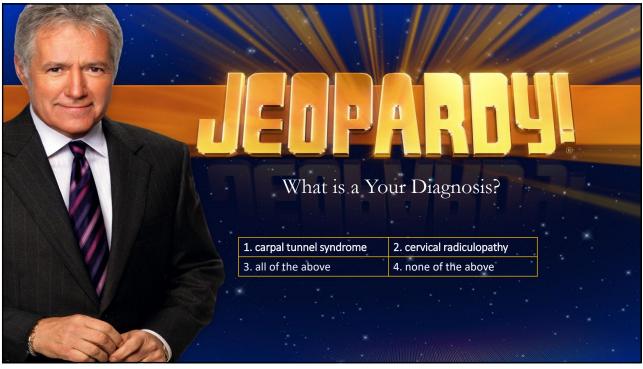
## A Woman with Hand Numbness

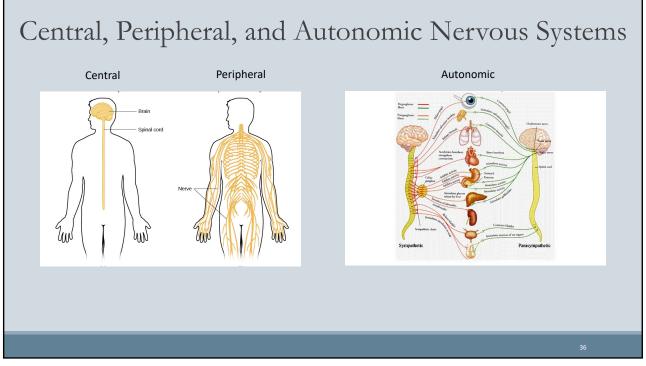
<u>Subjective</u>: <u>Chief Complaint/History of Present Illness</u>: A 40-year-old left-handed woman complains of two-month numbress in her right thumb and index finger. She is employed as a typist.

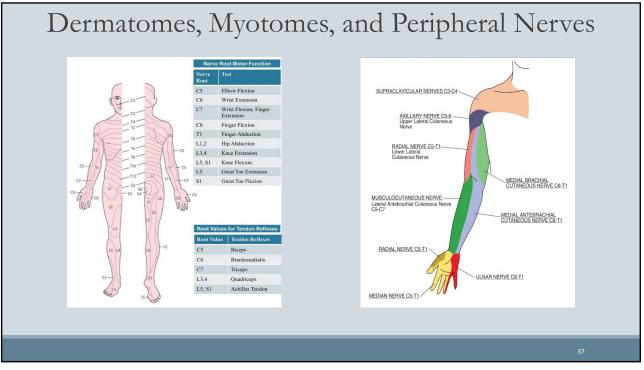
**O**bjective: Examination (and Diagnostic Studies if any): Reported decreased sensation to light touch in the right thumb and index finger.

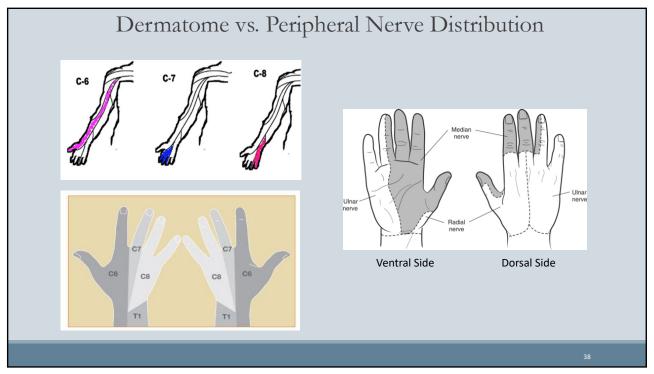
(Assessment):

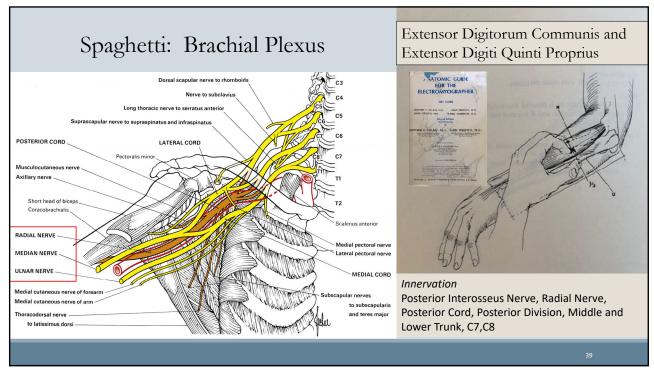
(**P**lan):

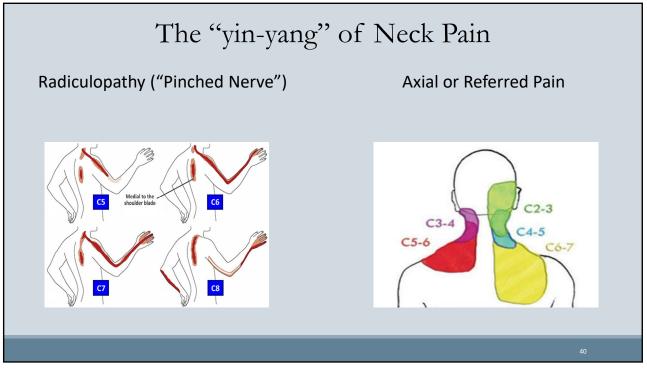


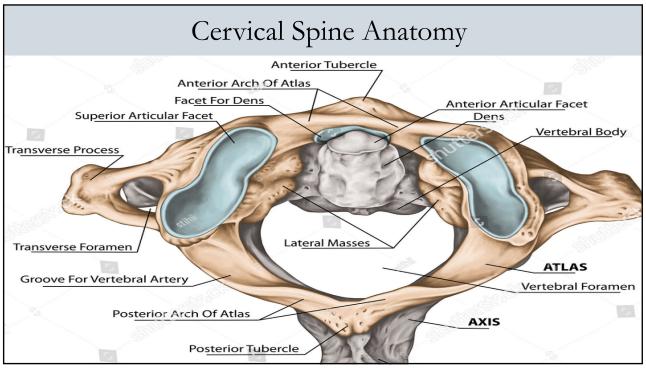


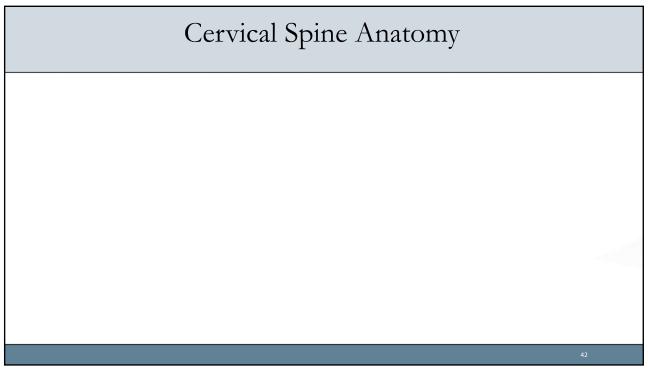








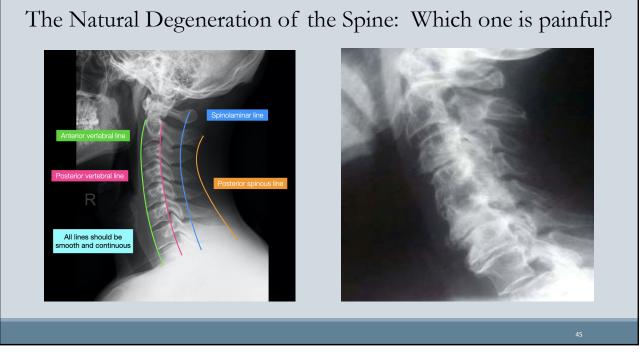


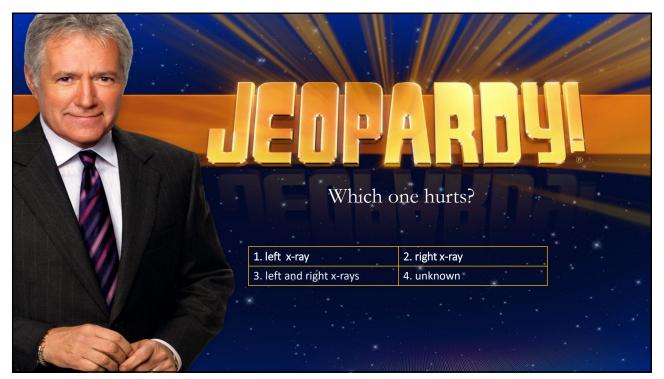


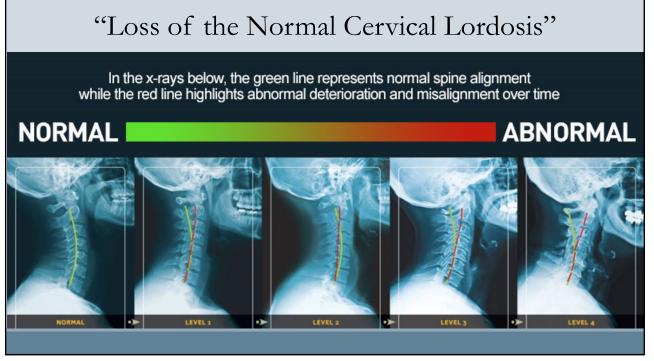


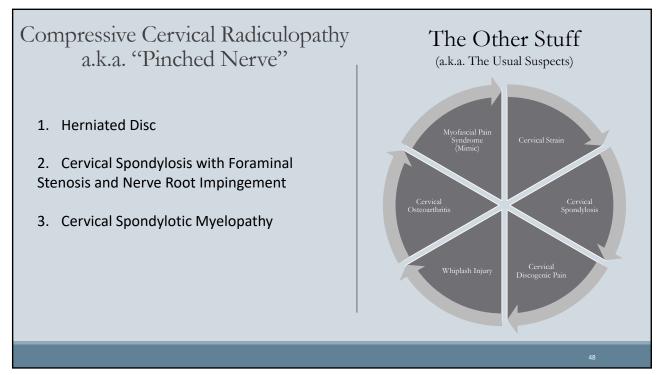


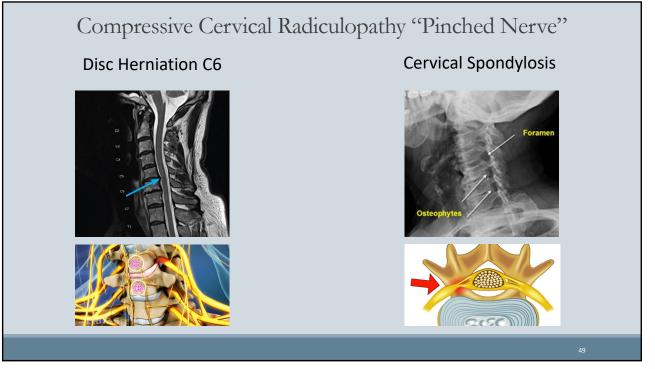
# Cervical Spine Conditions and Injuries











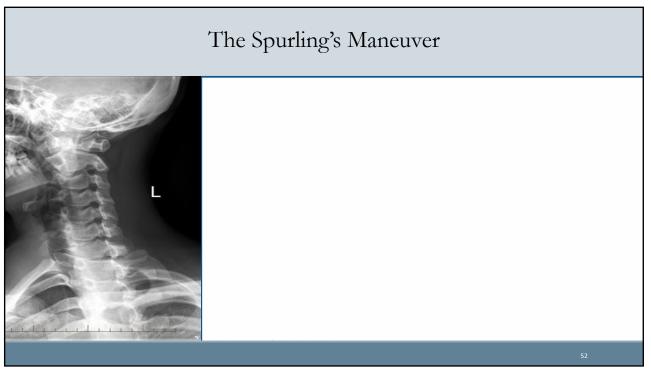
Root	t Pain	Numbness	Weakness	Reflex-affected
C5	Neck, shoulder, scapula	Lateral arm (in distribution of axillary nerve)	Shoulder abduction, external rotation, elbow flexion, forearm supination	Biceps, brachioradialis
C6	Neck, shoulder scapula, lateral arm, lateral forearm, lateral hand	Lateral forearm, thumb and index finger	Shoulder abduction, external rotation, elbow flexion, forearm supination and pronation	Biceps, brachioradialis
C7	Neck shoulder, middle finger, hand	Index and middle finger, palm	Elbow and wrist extension (radial), forearm pronation, wrist flexion	Triceps
C8	Neck shoulder, medial forearm, fourth and fifth digits, medial hand	Medial forearm, medial hand, fourth and fifth digits	Finger extension, wrist extension (ulnar), distal finger flexion, extension, abduction, and adduction, distal thumb flexion	None
T1	Neck, medial arm and forearm	Anterior arm and medial forearm	Thumb abduction, distal thumb flexion, finger abduction and adduction	None

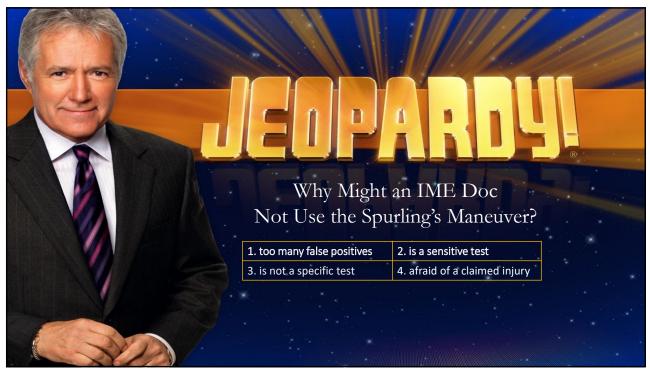
## The Spurling's Maneuver

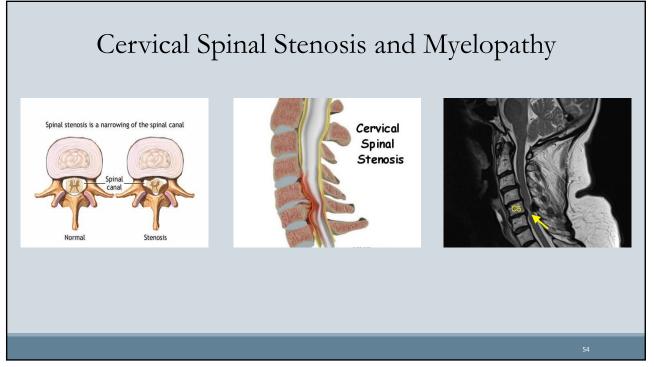


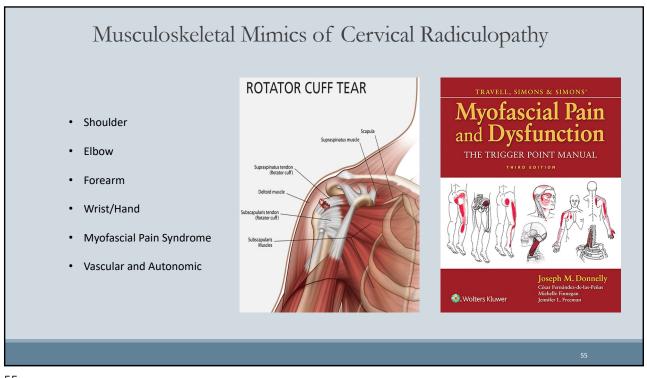
# Maximum Cervical Compression Test

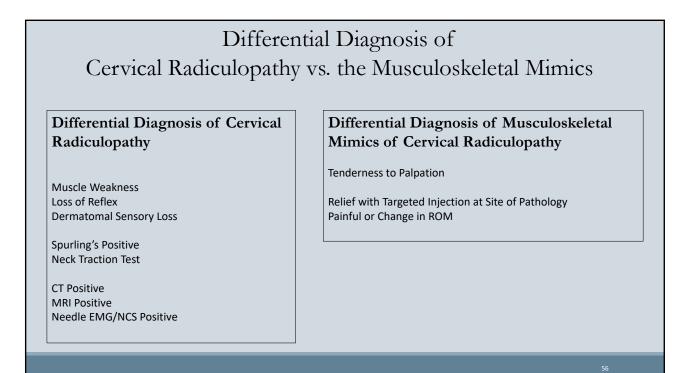
Foraminal Compression Test Spurling's Test

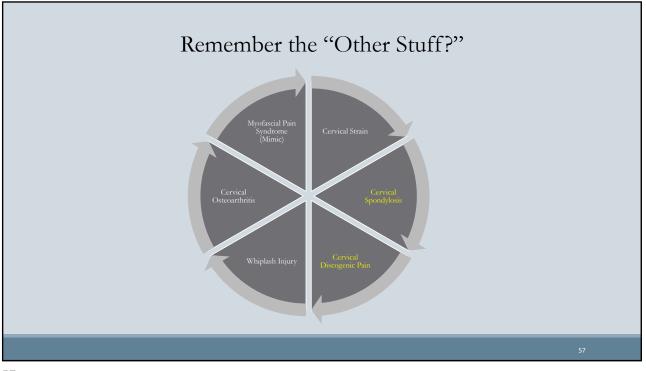


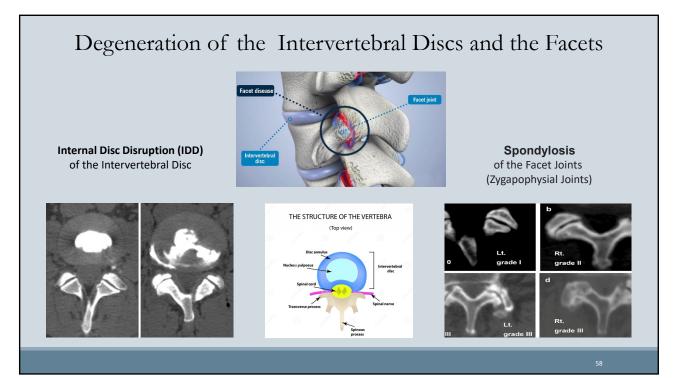


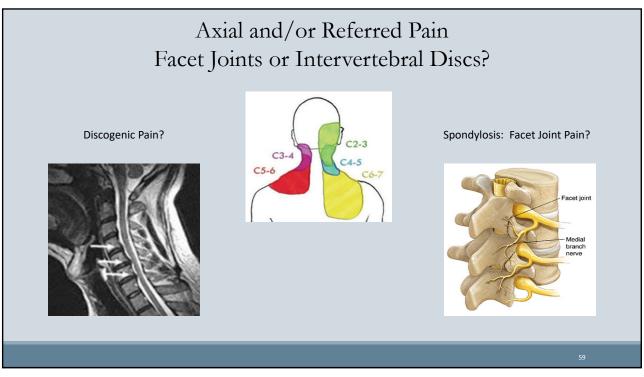


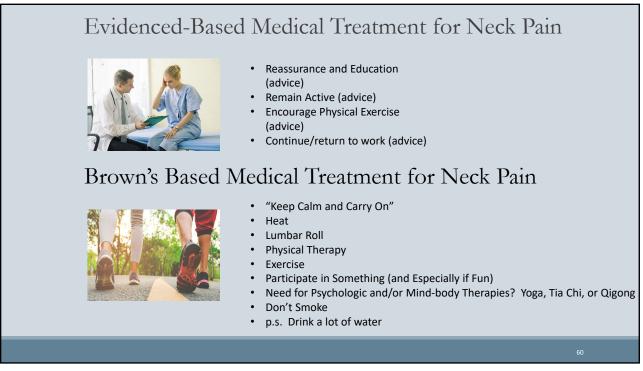












### Ornaments

- NSAIDs or Acetaminophen
  - Manipulation
  - Dry Needling and Trigger Point Injections
  - Message Therapy
  - Acupuncture
  - Cervical Medial Branch Blocks and Percutaneous Radiofrequency neurotomy?

### Waste of Time and Money

- \$ \$ 9
- Cervical Collar
- Laser Therapy
- Cervical Traction
- Botulinum Toxin Injections
- Transcutaneous Electrical Nerve Stimulation
- Electromagnetic Therapy
- Surgical Intervention for Persistent Nonradicular Neck Pain





