

BASIC ANATOMY FOR THE CA



CHIROPRACTIC ANGEL

GReek Goddesses

























CHIROPRACTIC GODDESSES

ADMITIT



get cape.

wear cape.

fly.

at some point in your life you've tried to see if you have Super Powers.



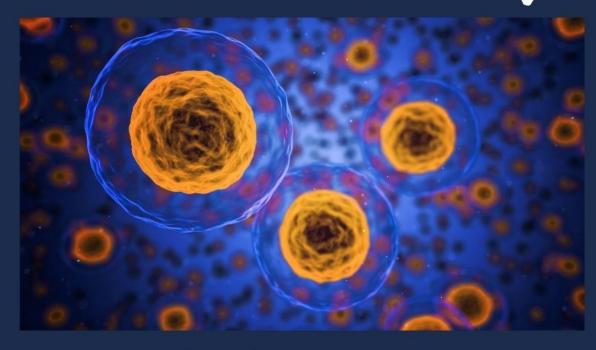
- ▶ Private Practice SC, VA 1989-20??
- ▶ Past President UVCA 2011-2015
- ► Vice-President ECA-IPN
- ►Immediate Past President ChiroCongress
- ▶ Board member ChiroCongress Cares
- ► Vice-Chair Chiropractic Future Strategic Plan
- ► Member Chiropractic Summit

THOMAS J WETZEN, DC, CCSP, FICA

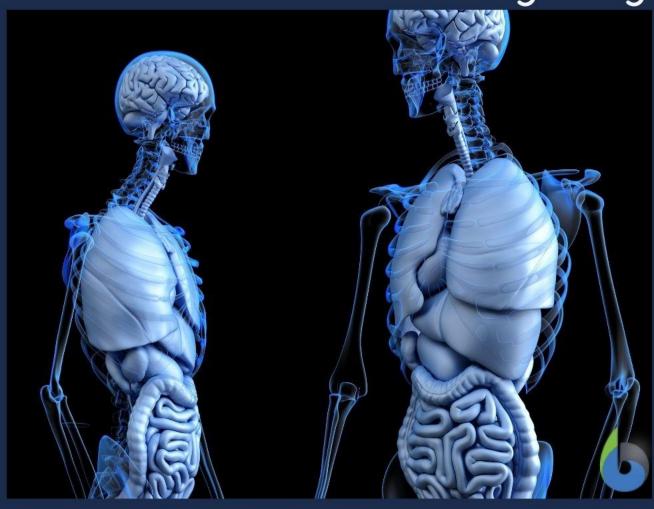
Anatomy

Anatomy refers to the study of the structure of a living thing

from the microscopic ...



... to the macroscopic ->



The 11 Human Body Systems

-- nervous system

-- integumentary system

-- respiratory system

-- digestive system

-- excretory system

-- skeletal system

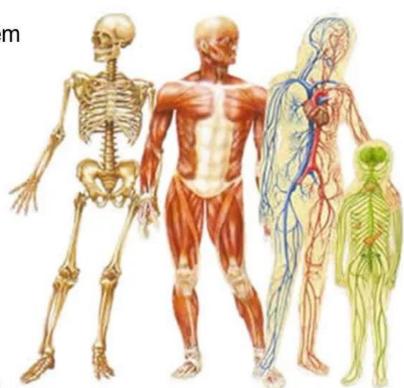
-- muscular system

-- circulatory system

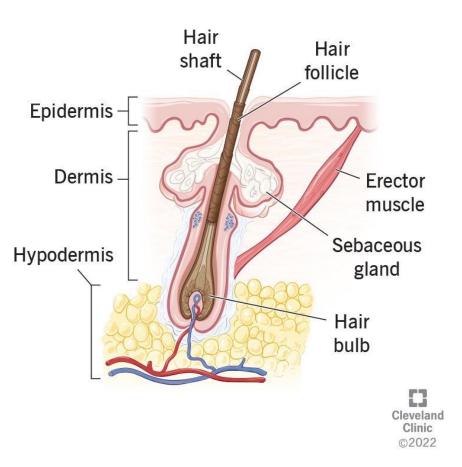
-- endocrine system

-- reproductive system

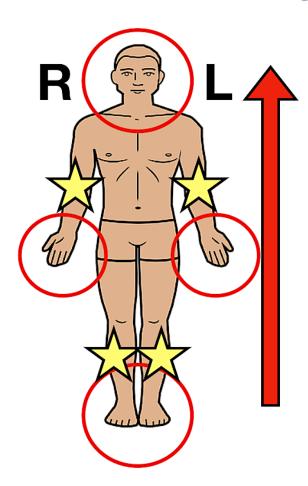
-- lymphatic (immune) system



Integumentary System



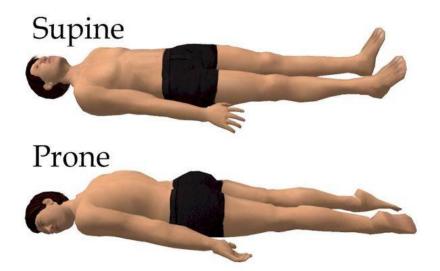
Anatomical Position



- Standing upright
- Head and eyes directed straight ahead
- Upper limbs at the sides
- Upper limbs slightly away from trunk
- Palms facing forward
- Thumbs pointing away from body
- Lower limbs parallel
- Feet flat on the ground and facing forward

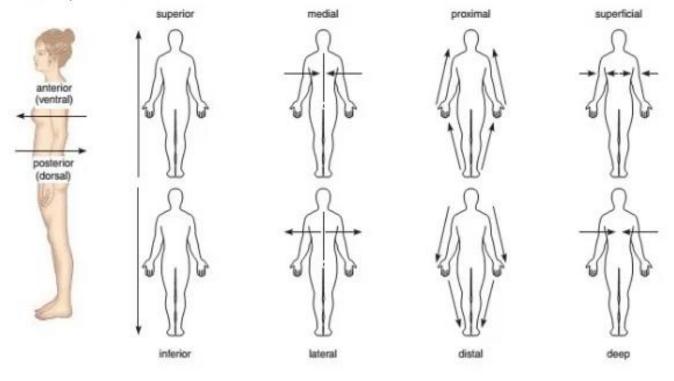
Anatomical Position – Supine vs. Prone

- <u>Supine</u>
 - Lying with the front or face and hands facing upward
- Prone
 - Lying with the front or face and hands facing downward



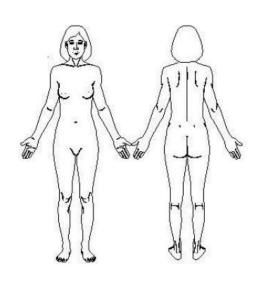
Directional terms.

Directional terms tell us where body parts are located with reference to the body in anatomical position.



Anterior/Posterior





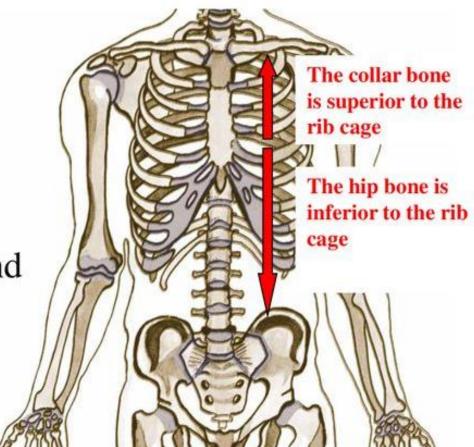
- Anterior—to be situated near or toward the front of the body
- Posterior--to be situated toward the back of the body

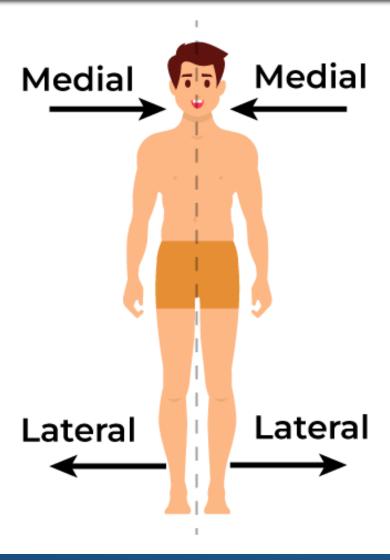
Superior-Inferior

• Superior – Above

- Inferior - Below

 E.g., Your lips are superior to your chin and your chin is inferior to your lips





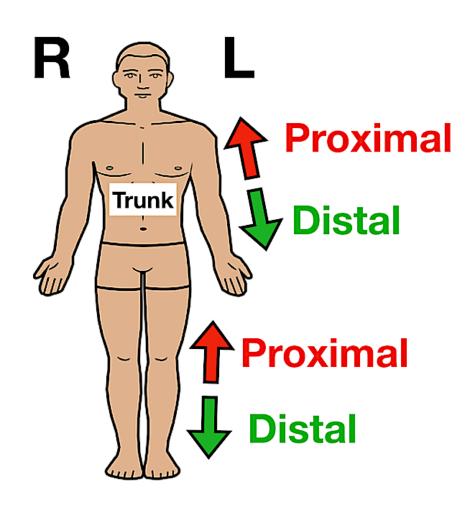
Proximal and Distal

Proximal = Toward the trunk; Near the origin

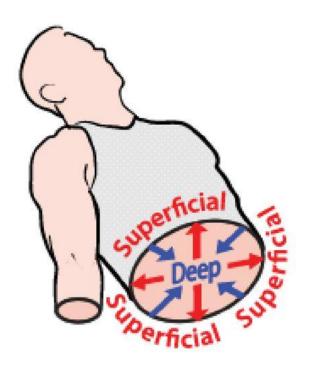
Proximal = **Proximity**

Distal = Away from the trunk; Far from the origin

Distal = **Distant**



Directional Terms



- Superficial
 - Toward or at the body surface
- Deep
 - Away from the body surface
 - More internal

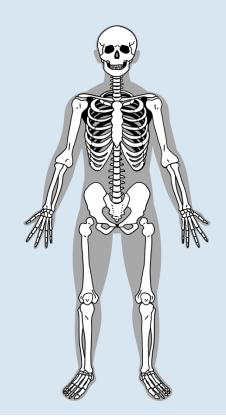


"When in doubt, look intelligent."

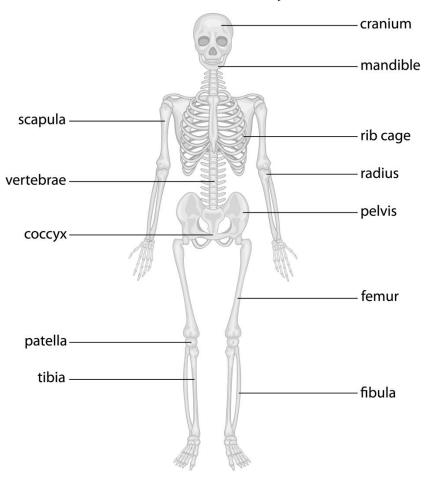
GARRISON KEILLOR

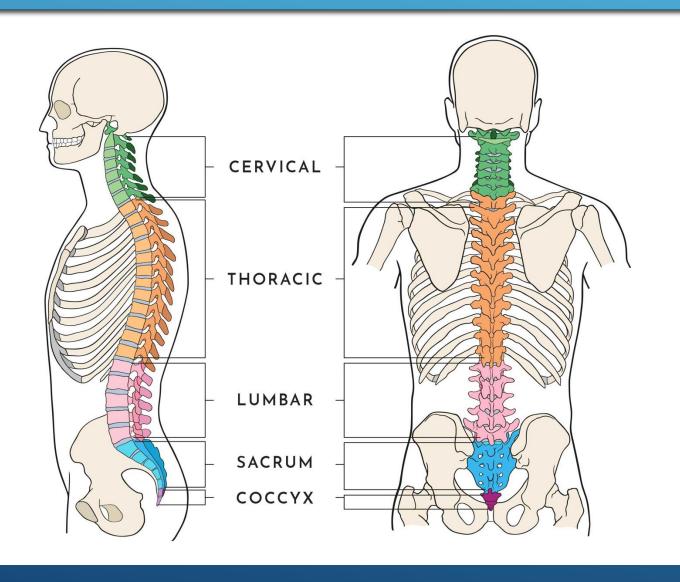
The Skeletal System Has Five Major Functions

- Provides us with a basic structure/shape
- Allows movement
- Protects vital organs
- Produces blood cells
- Storage of fats and minerals

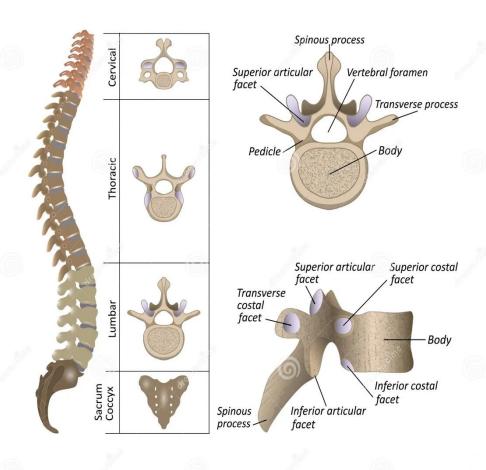


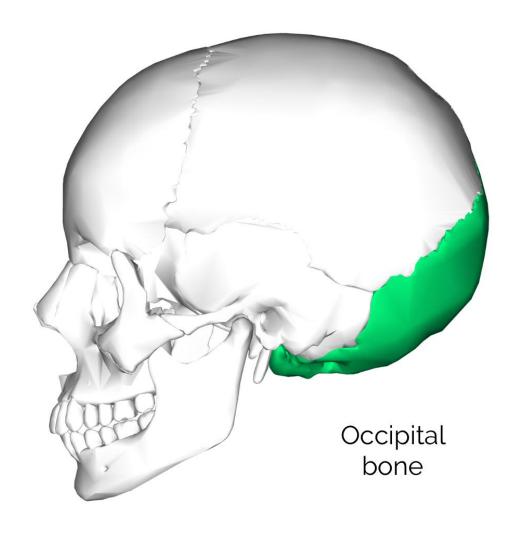
Human Skeletal System

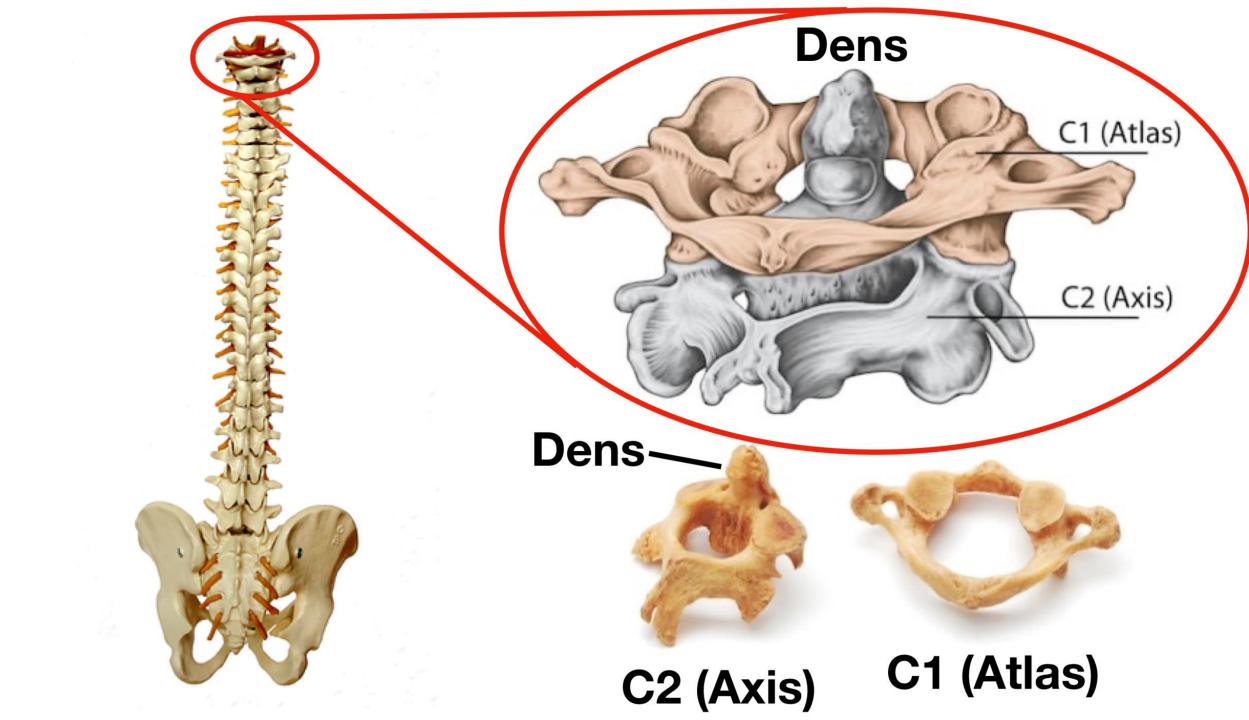


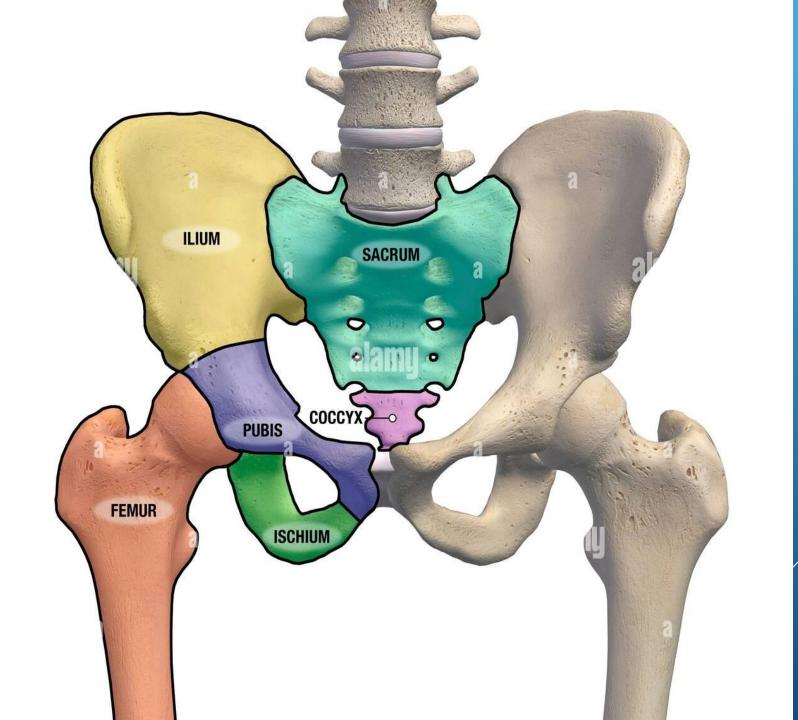


Spine and structure of segments

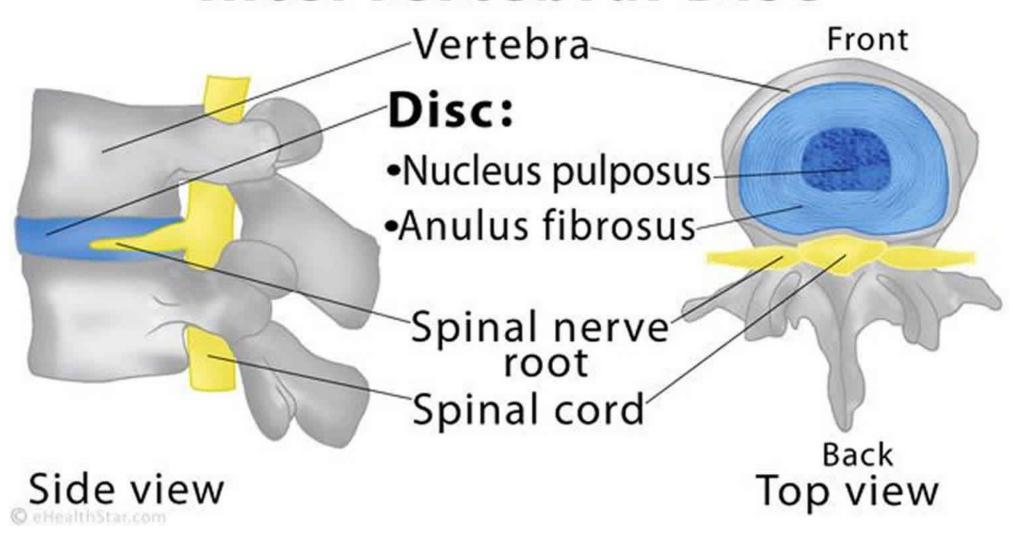








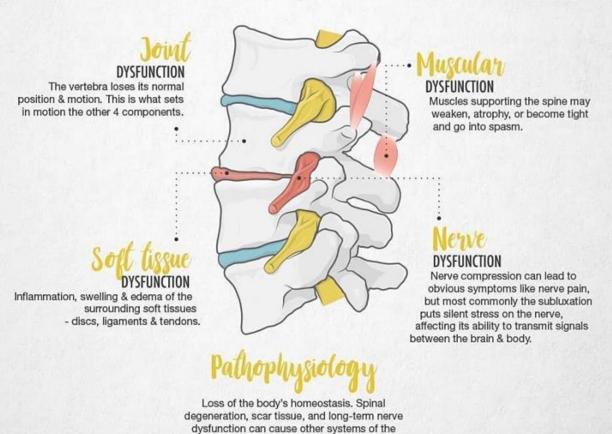
Intervertebral Disc



VERTEBRAL SUBLUXATION COMPLEX

by kirografiks

5 Components



body to malfunction.

TEXTBOOK NORMAL

- Graceful forward curve
- Equal disc spacing
- Normal turning and bending



Neck

SPINAL DYSFUNCTION CAN LEAD TO...

- Loss of curve
- Narrowing of disc spacing
- Impaired turning and bending



Phase 1

IF IGNORED CAN DETERIORATE TO...

- Roughening joint surfaces
- Bone spurs
- Reduced mobility



Phase 2

IF NEGLECTED CAN DEGENERATE TO

- Severe bone remodeling
- Irreversible joint fusion
- Permanent loss of motion



Phase 3



Disc Abnormalities

Bulging



Herniated



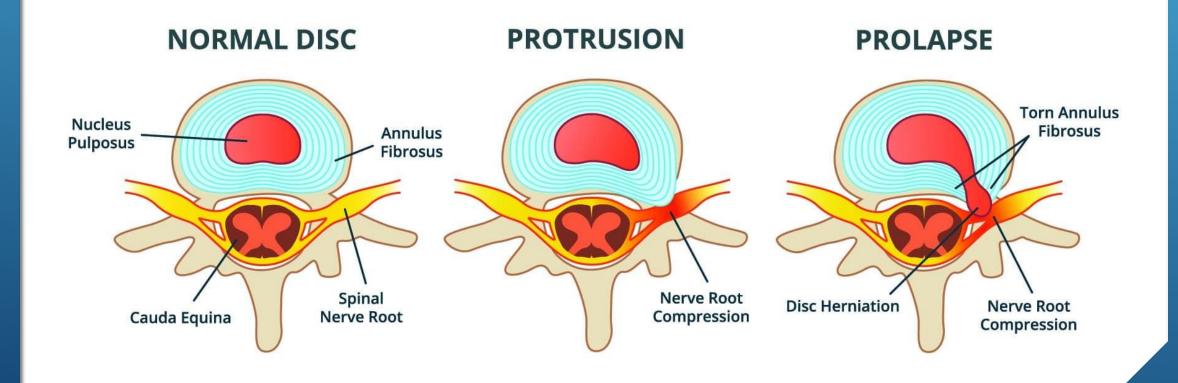
Ruptured

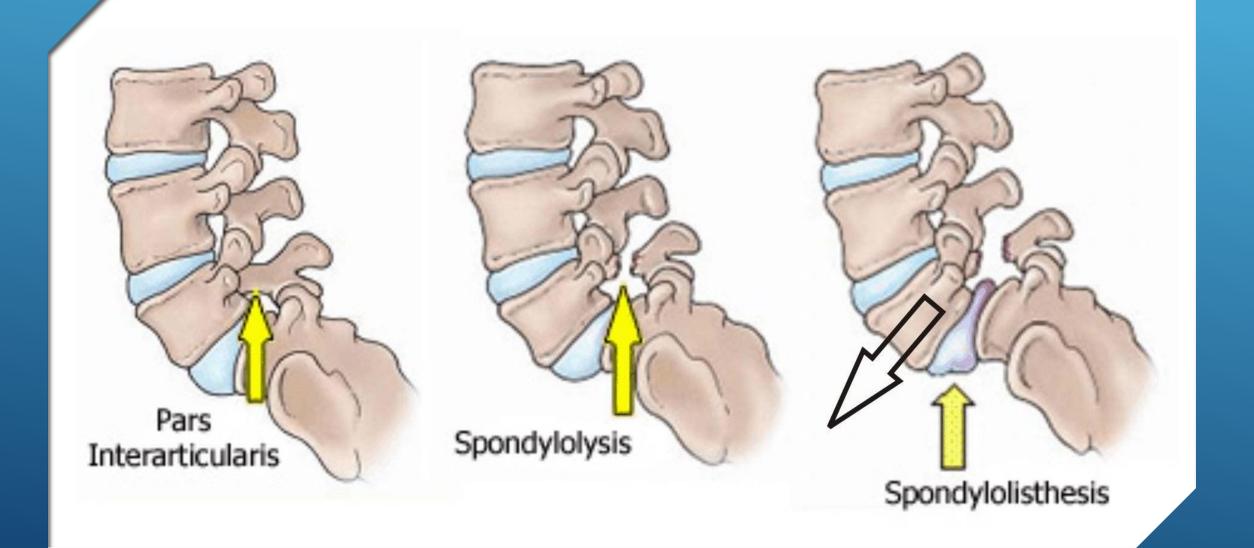


Sequestered or Fragmented

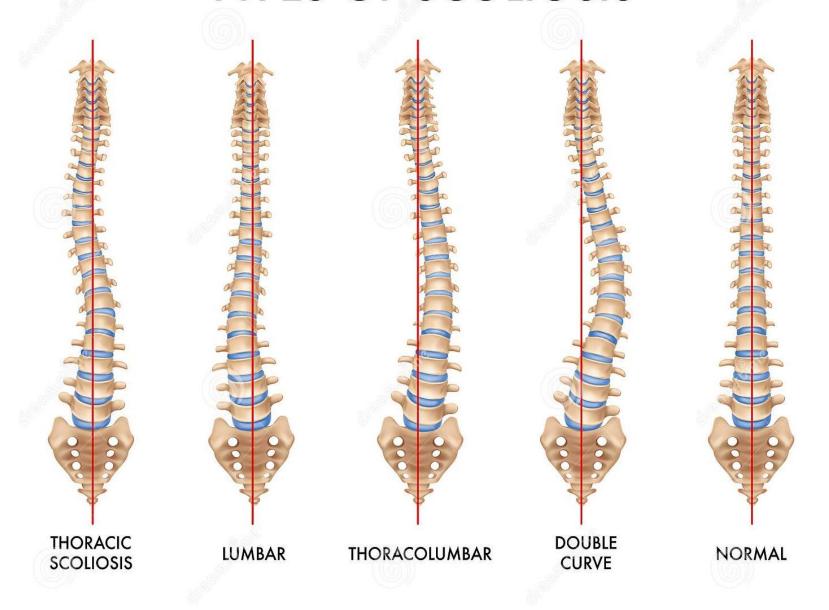


Stages of Disc Herniation





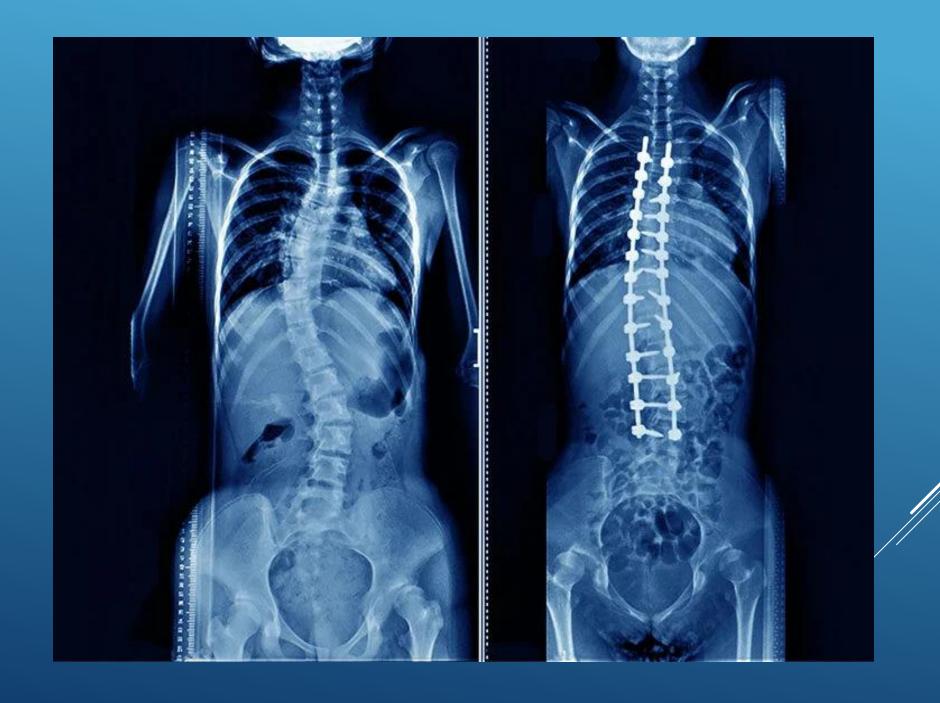
TYPES OF SCOLIOSIS

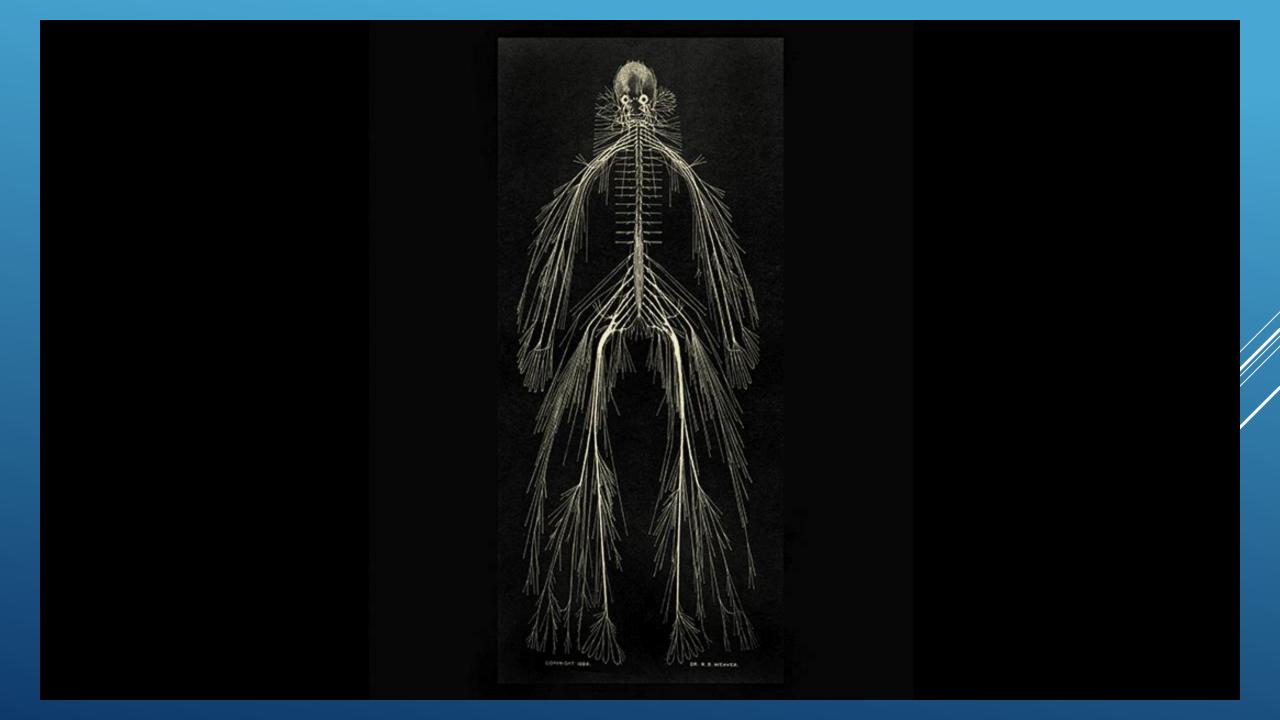


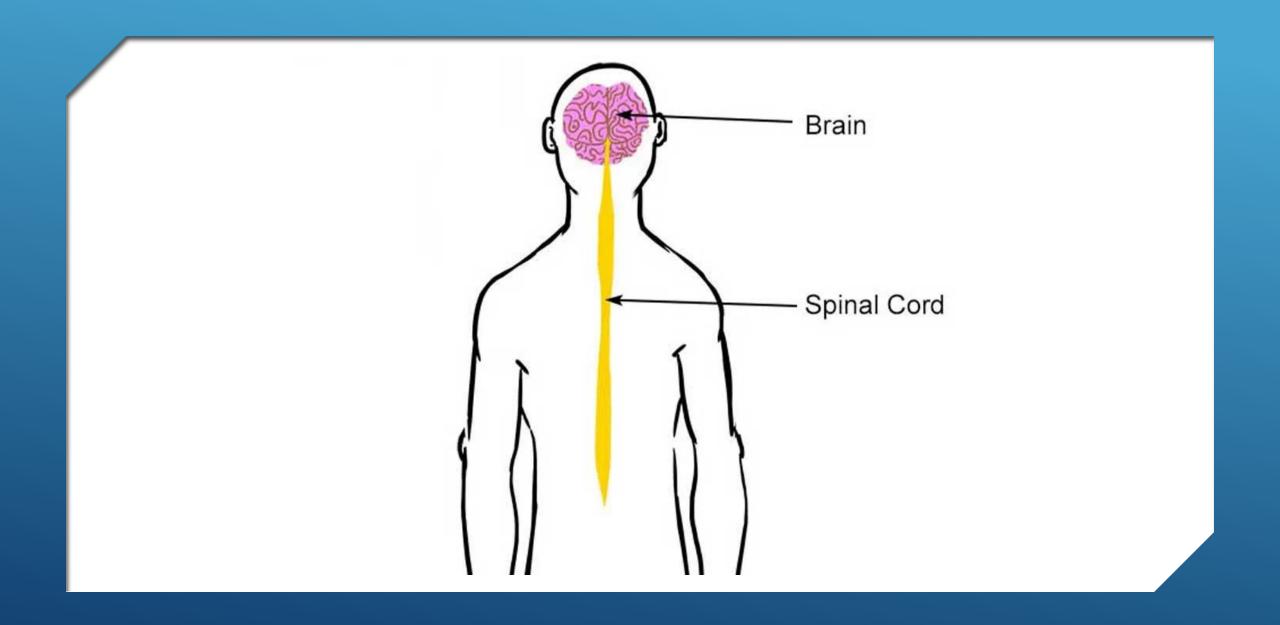




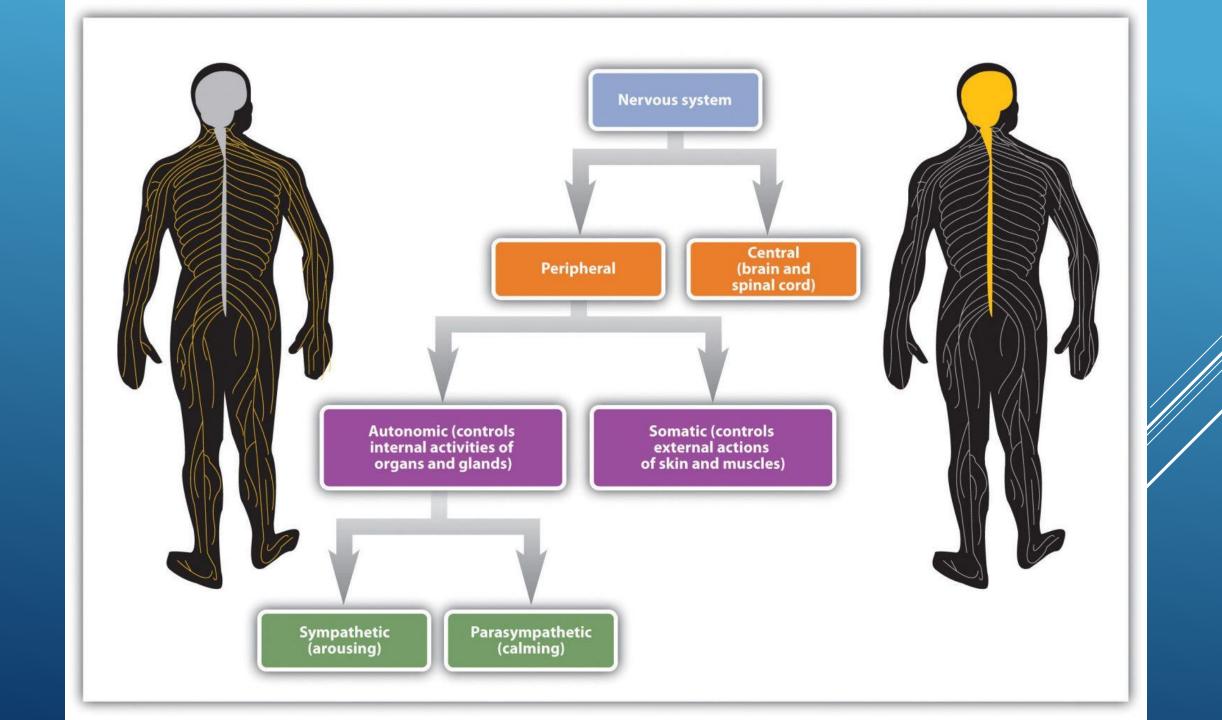


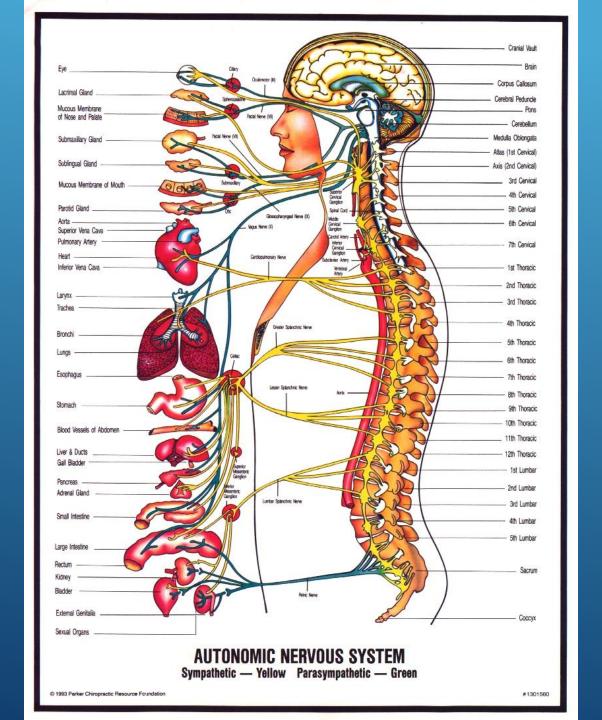




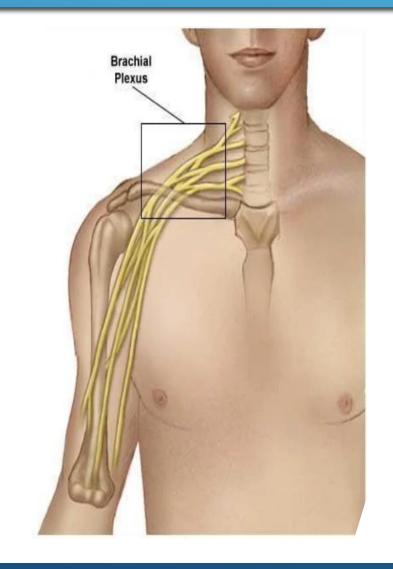


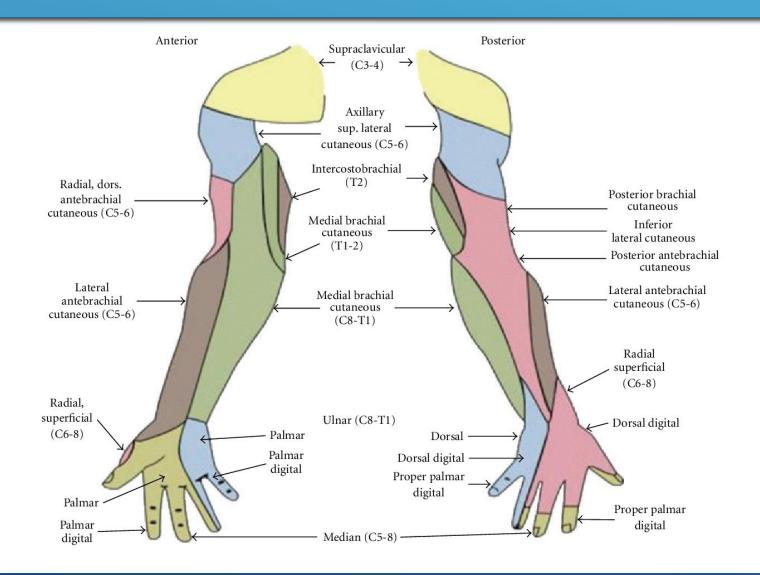
Central Nervous System Peripheral Nervous System Brain Spinal cord Nerve (a) (b)

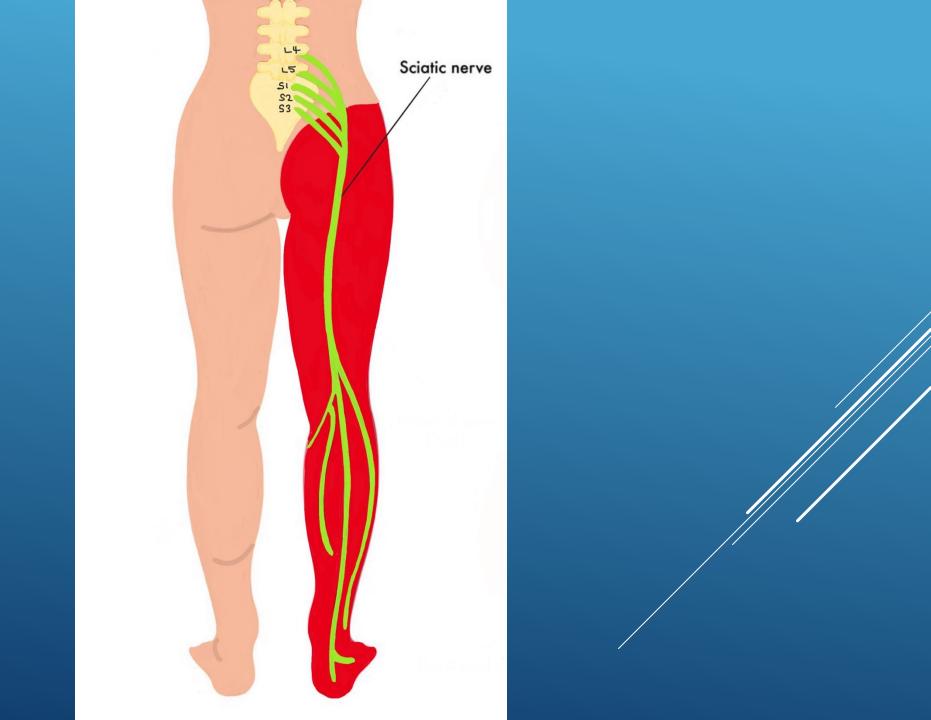


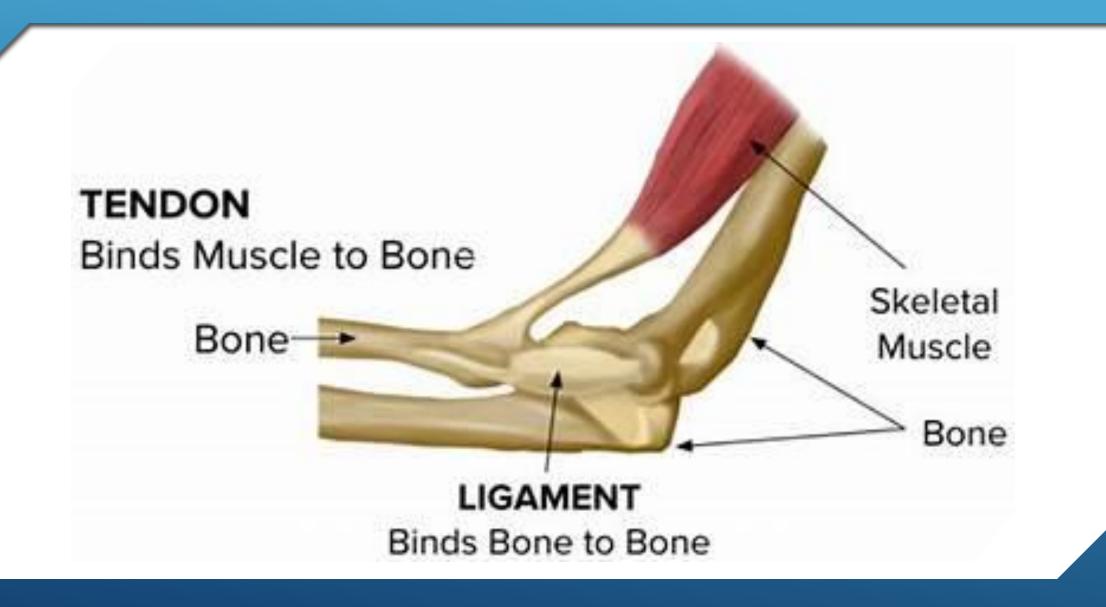


MY MIND IS LIKE MY INTERNET BROWSER. I HAVE 19 TABS OPEN. 3 ARE FROZEN, AND I HAVE NO IDEA WHERE THE MUSIC IS COMING FROM



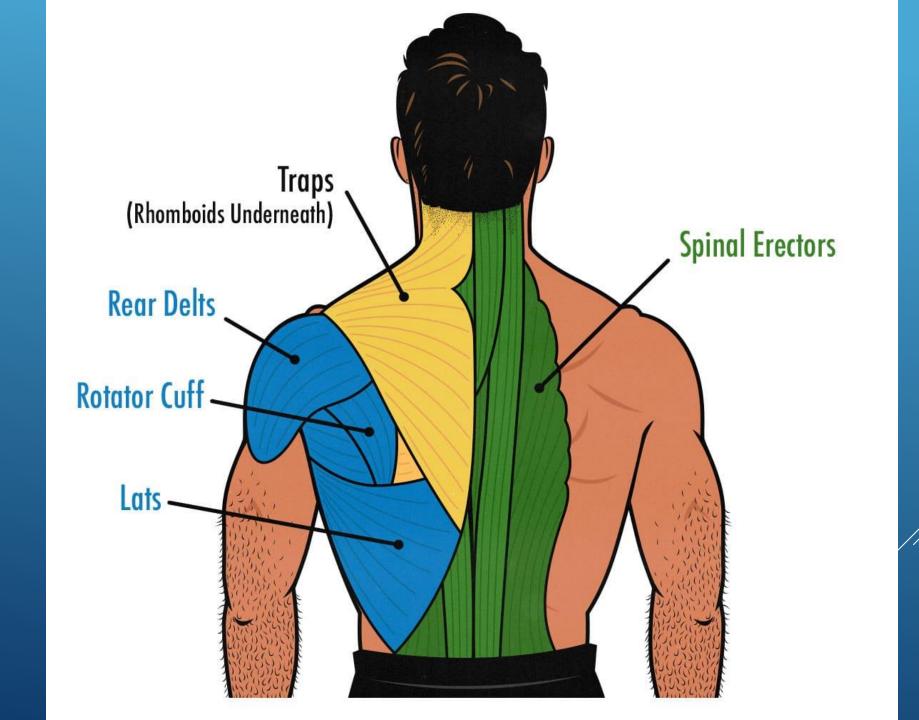




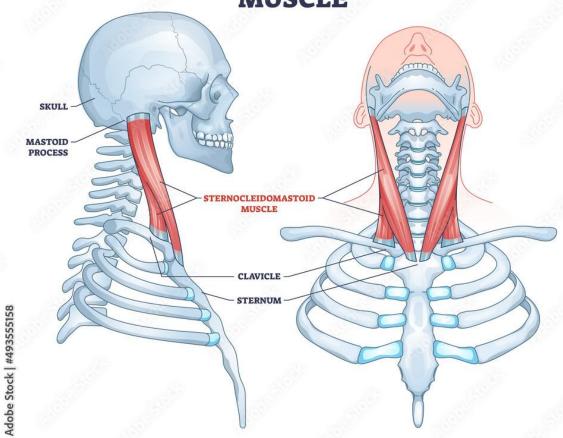


THE 3 MOVING PARTS OF YOUR BACK & SPINE

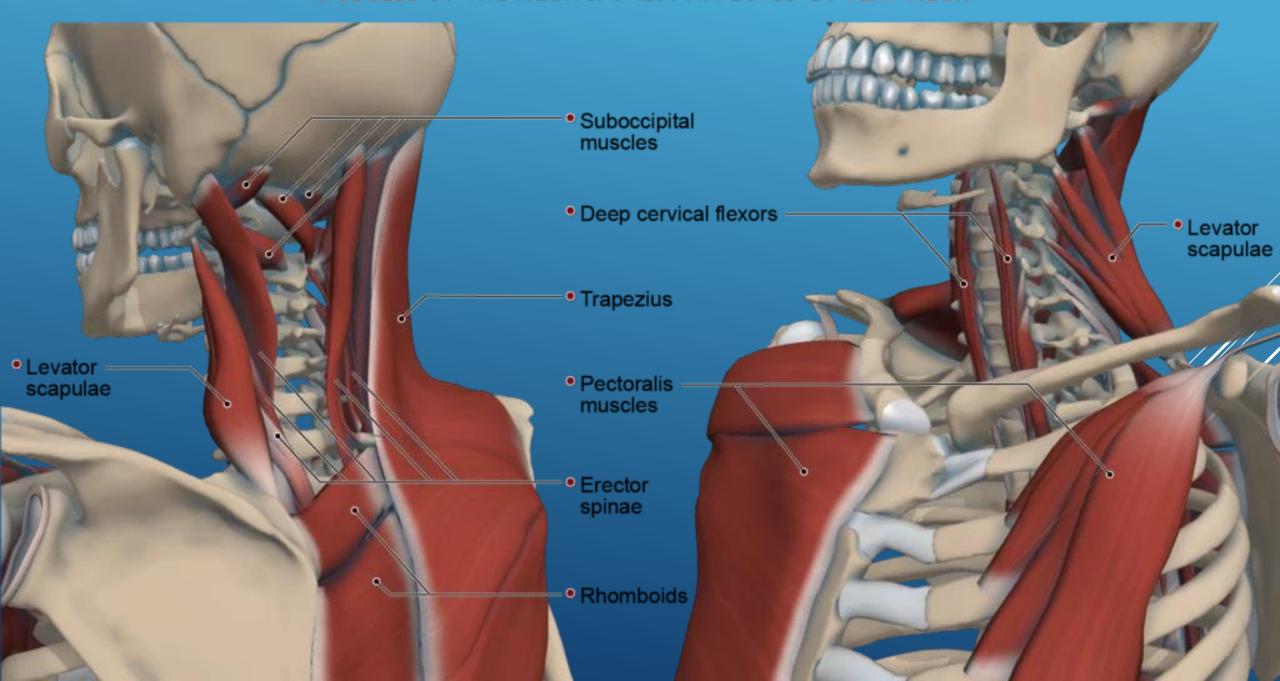
	MUSCLE	TENDON	LIGAMENT
What	Bundles of stretchy, fibrous connective tissue	Strong cords of fibrous connective tissue	Elastic strings of fibrous connective tissue
Where	Connected to your bones by tendons	Attaches your bones to your muscles	Attaches your bones to others bones
Why	The source of all movement in your body	Helps your muscles move your bones & joints	Holds your bones in place and stabilizes your joints
Injury	Strain	Inflammation	Sprain

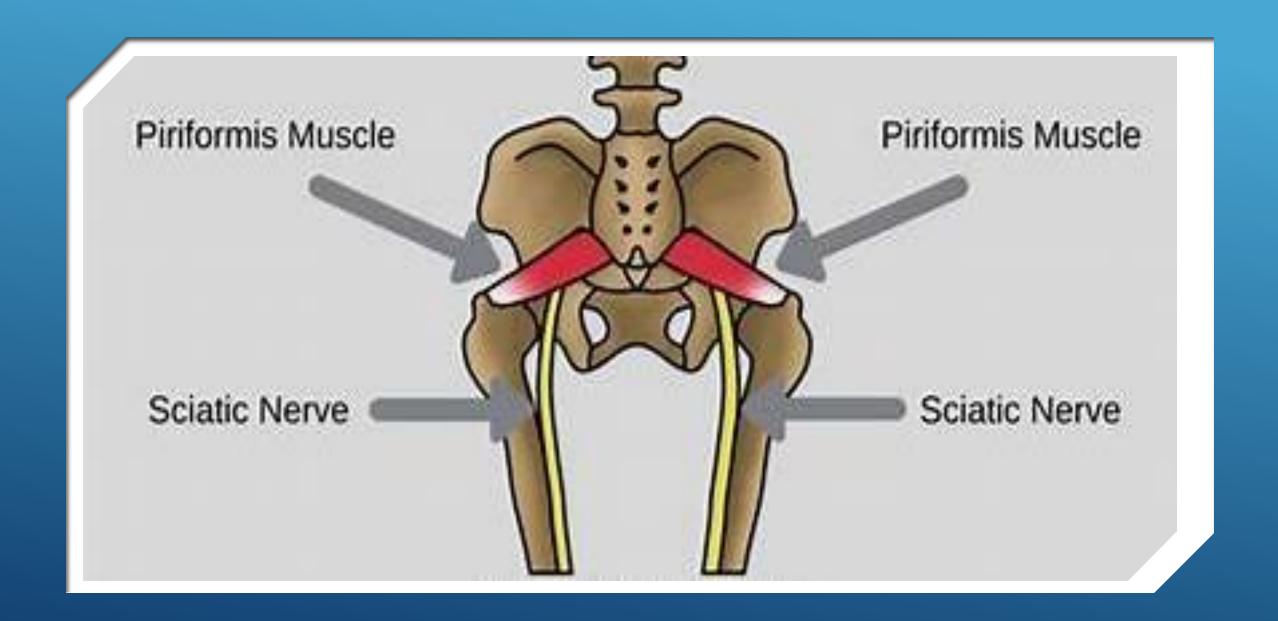


STERNOCLEIDOMASTOID MUSCLE



MUSCLES OF THE NECK & CHEST AFFECTED BY **TEXT NECK**

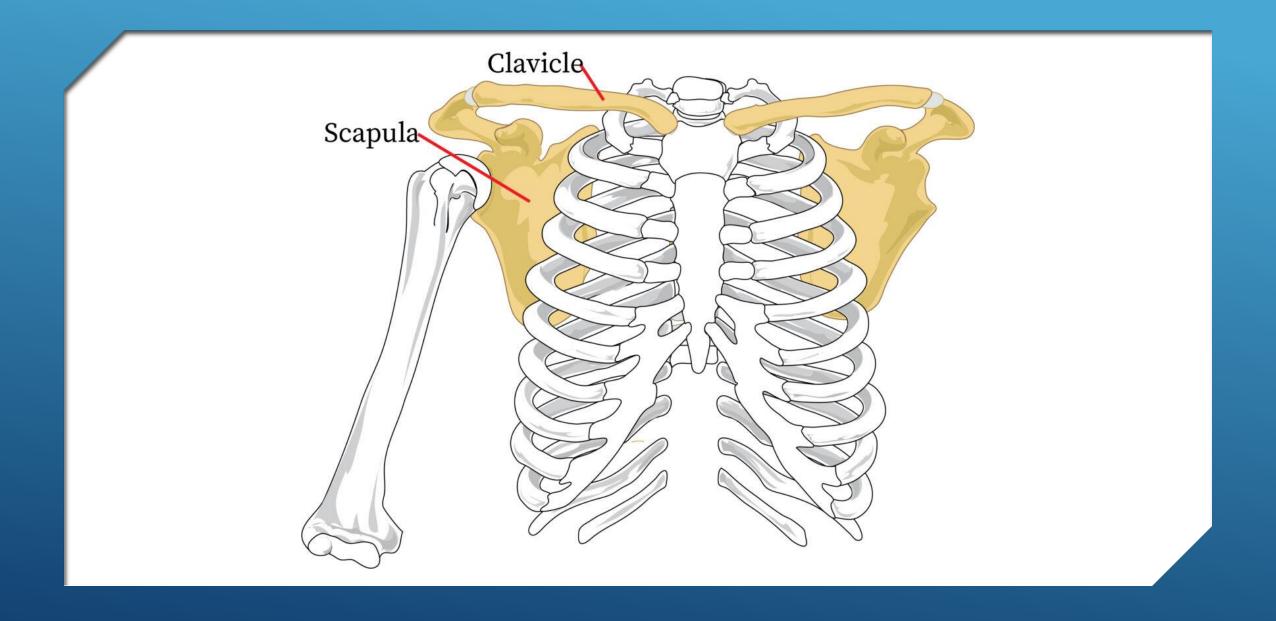


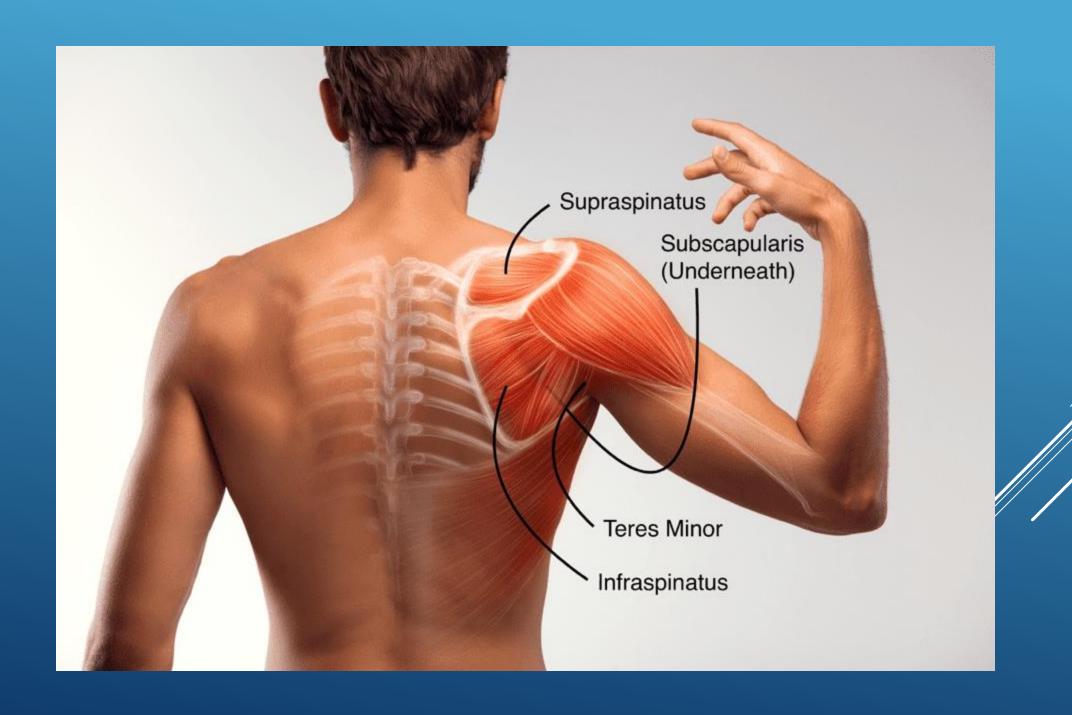


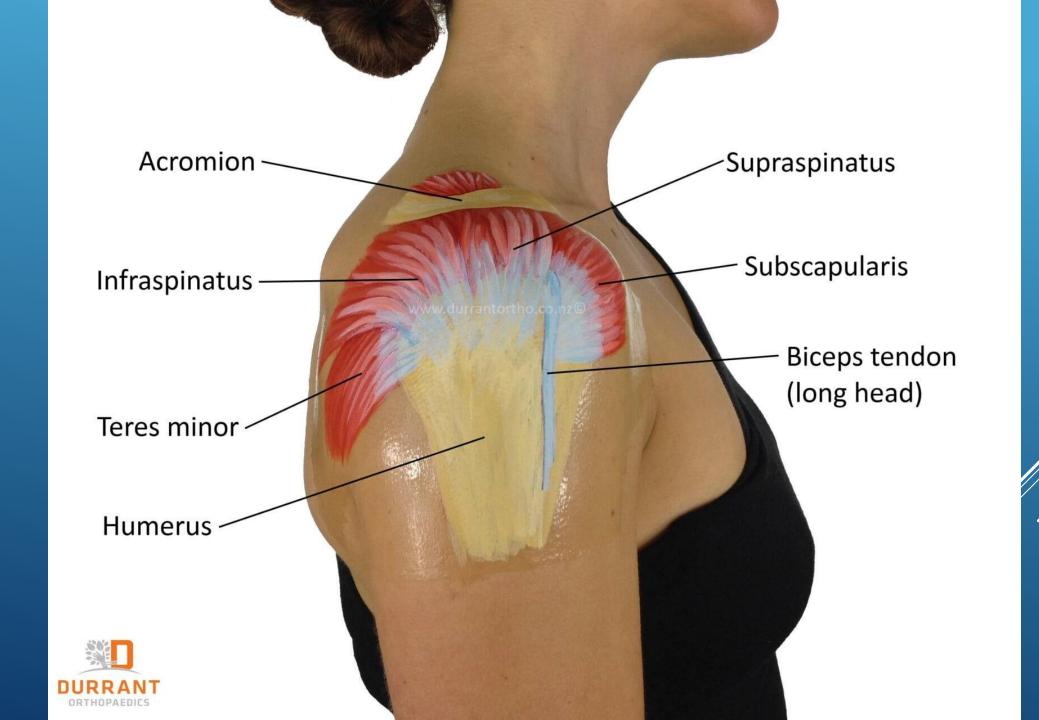


WHO'S AWESOME?

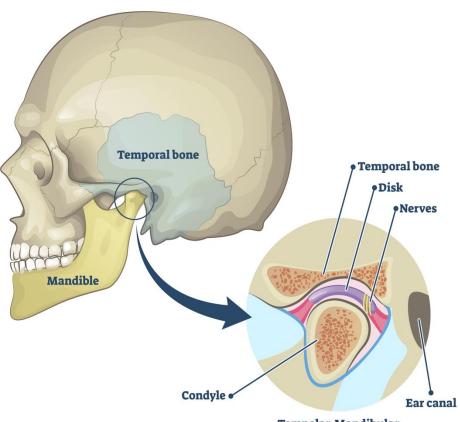
You're awesome!





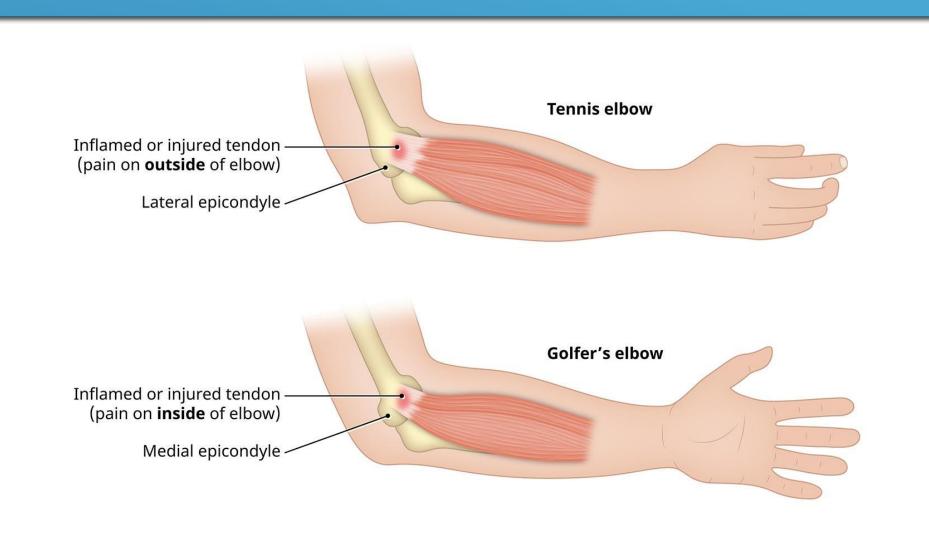


TMJ DISORDER



Tempolar-Mandibular joint





"Whatever you do, always give 100%. Unless you're donating blood."