Histo Jab 4

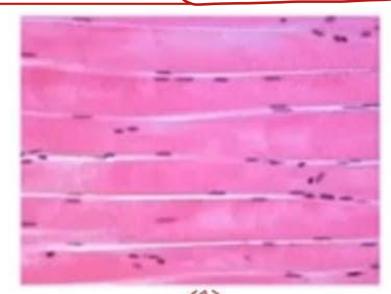
#### Longitudinal section of skeletal muscle

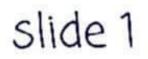
Non branching fibres

Striated

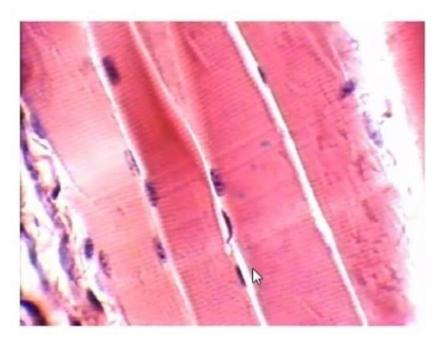
-Multi nucleited

The nuclei peripherally located

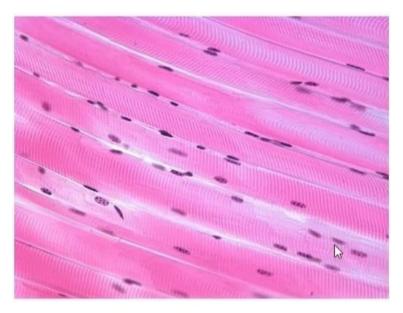




#### longitudinal section of the skeletal muscle

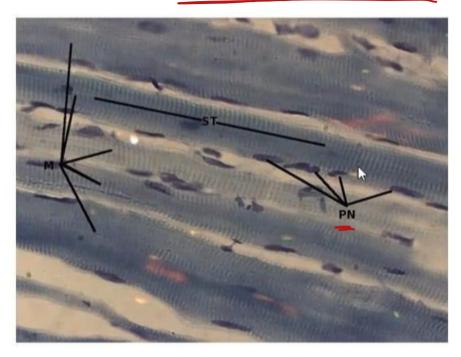


#### Longitudinal section of skeletal muscles



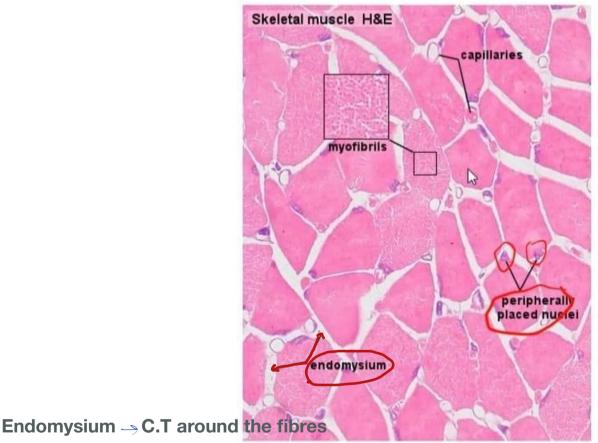


#### skeletal muscle-Toluidine blue stain



(4)

#### skeletal muscle- transverse section (cross section)



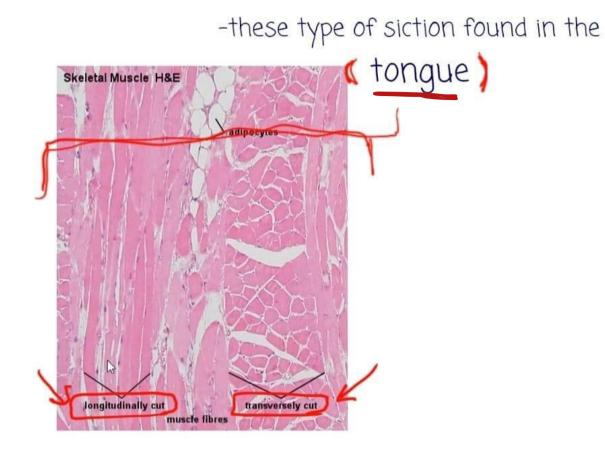
Permysium. — C.T around bundles (fascicle)

Epimysium. — C.T around whole muscle



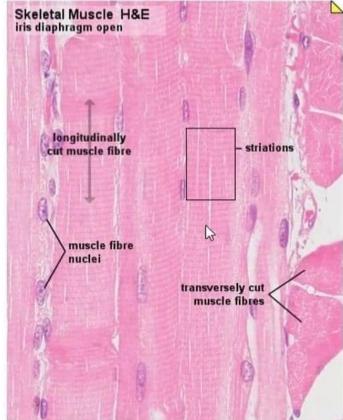


endomysium surrounds individual muscle



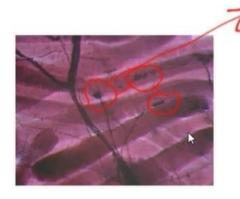
(7)

## longitudinal section of the skeletal muscle



#### Single

The sensation of the muscle MUSCLE SPINDLE AXON(S) sciper MOTOR END PLATES MYOFIBERS -each muscle fiber innervated by motor end plate



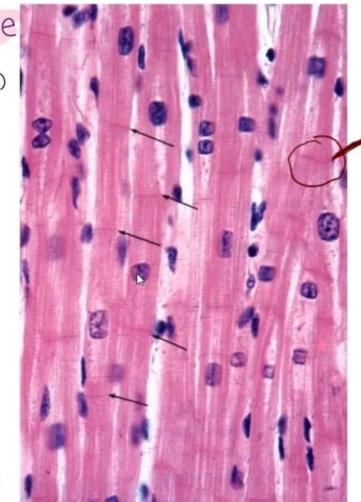
Motor end plates

#### (10)

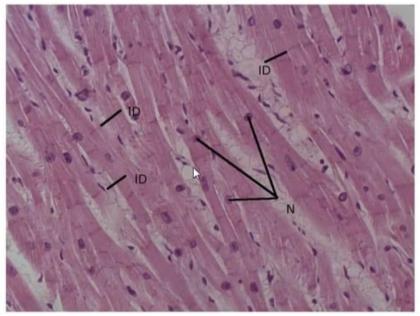
#### cardiac muscle

(longitudinal section)

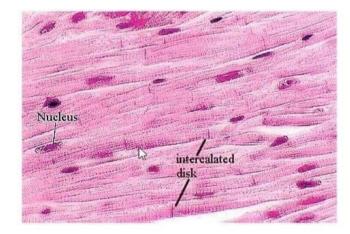
- Branching fibres
- Centrally located single nuclei



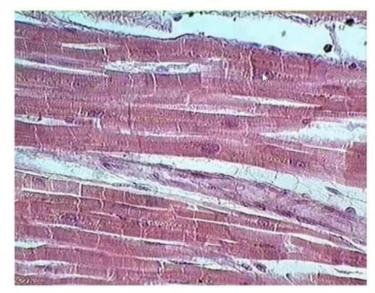
#### Intercalated discs بتتشکل من 2 adjacent cardiac muscle



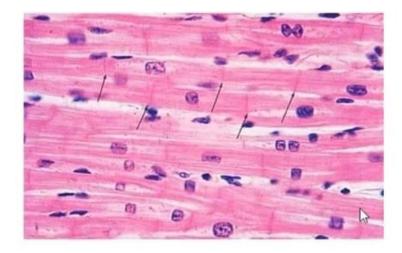
(12)



(13)



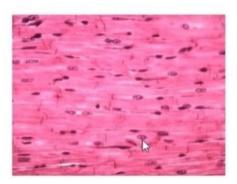
(14) Each fiber contain one a nucleus and(14) each nucleus located in the center...





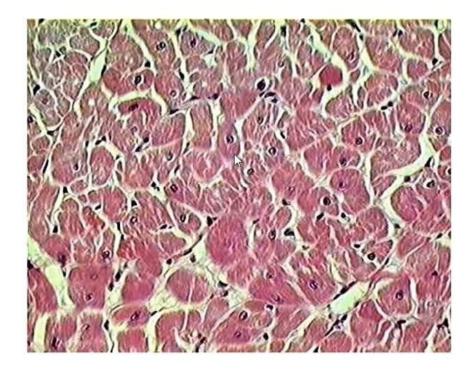


(16)



(17)

#### cardiac muscle-transverse section



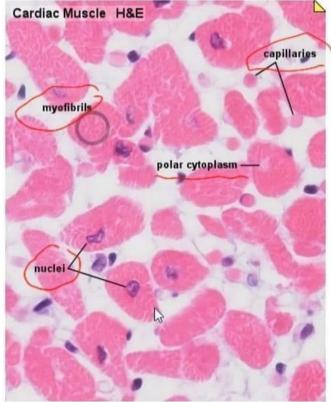
(18)

#### cardiac muscle- transverse section

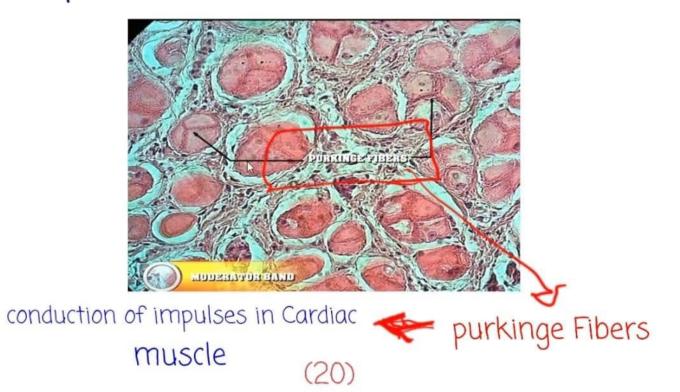
The cross section in the :

Skeletal muscle : large , polygonal shape of muscle fibres and multi peripheral nuclei

Cardiac muscle: rounded shape of muscle fibres and central nuclei



## specialized cardiac muscle cells

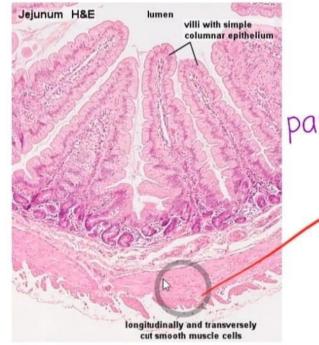


## smooth muscle

-Spindle in shape

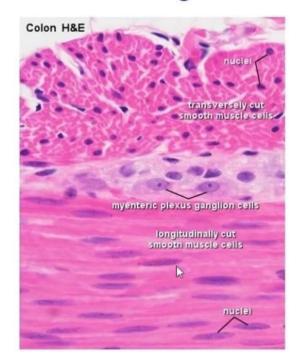
Single nuclei

Arranged as layers or sheets



## part from the gut of the GI tract

### smooth muscle-longitudinal section



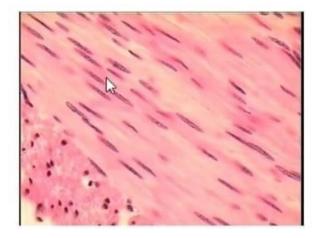
(22)

# smooth muscle present in blood vessels



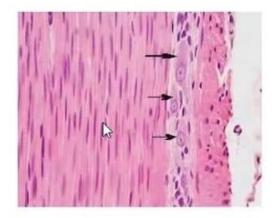


## sheets of smooth muscle in the GI

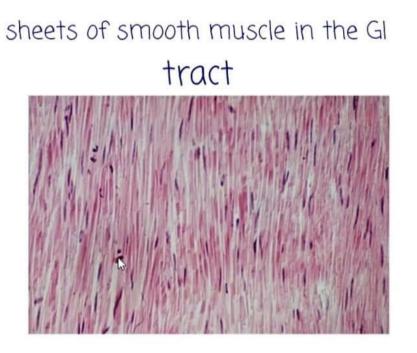


(24)

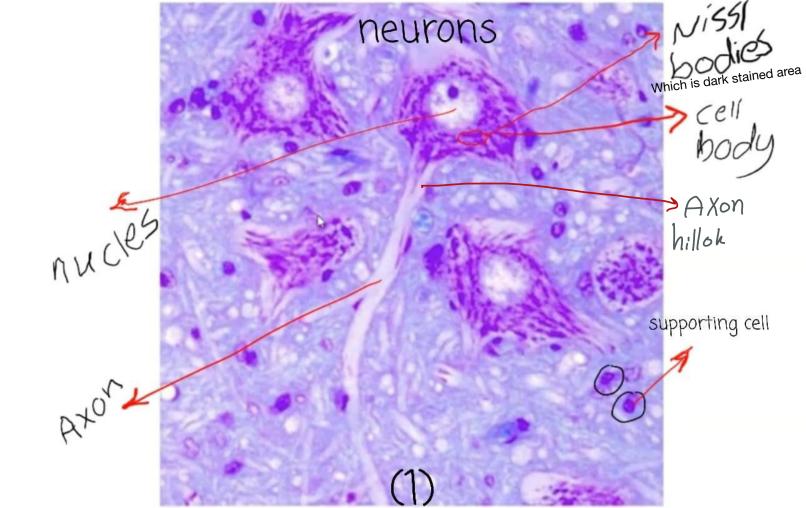
## sheets of smooth muscle in the GI

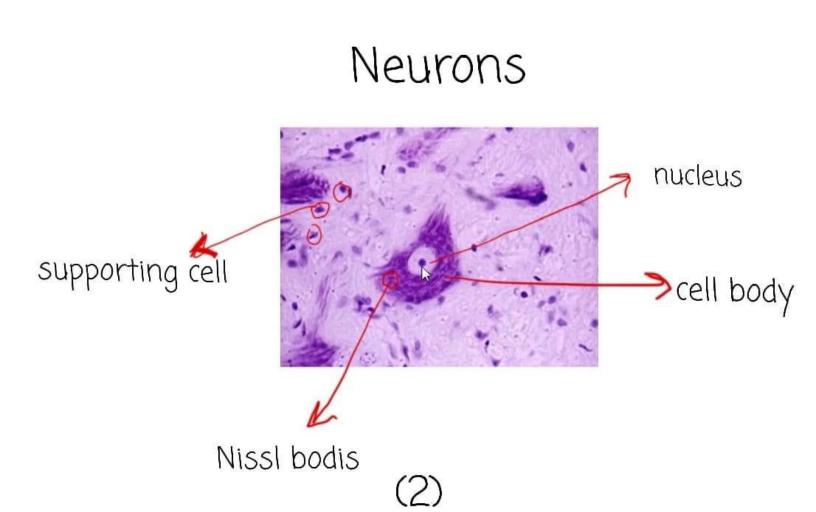


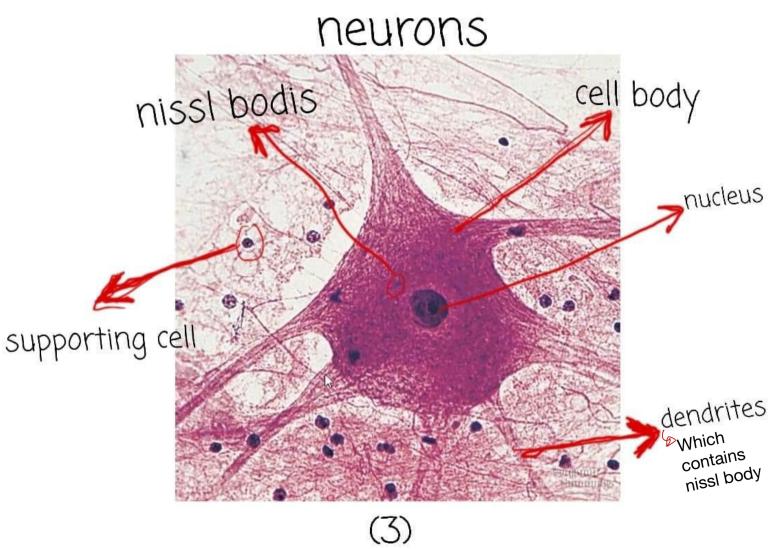


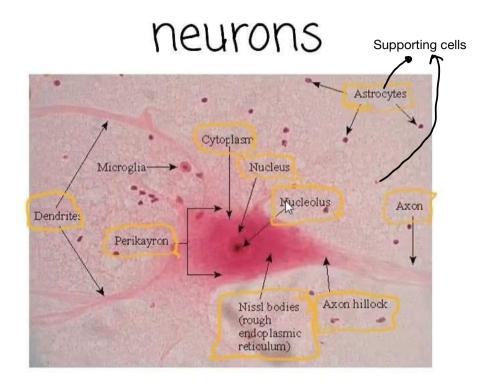


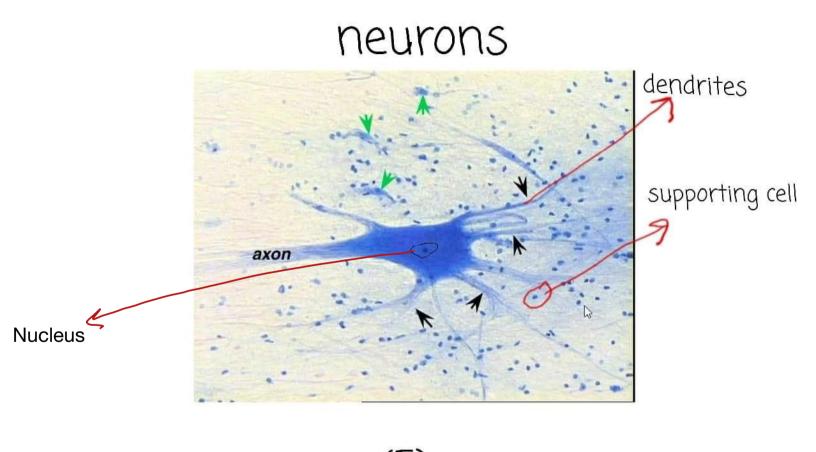
# Histology Iab 5

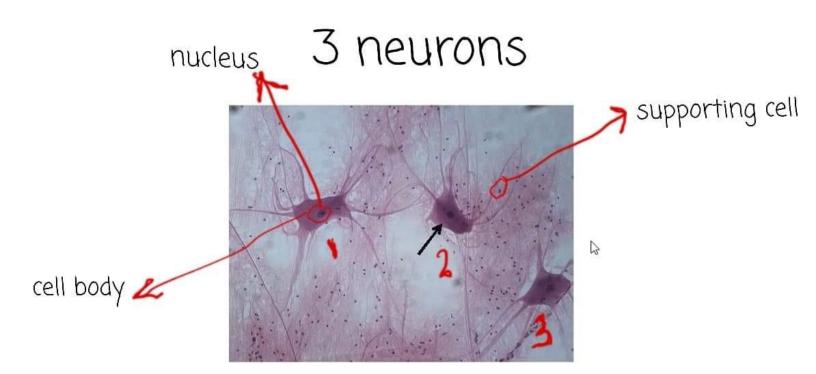


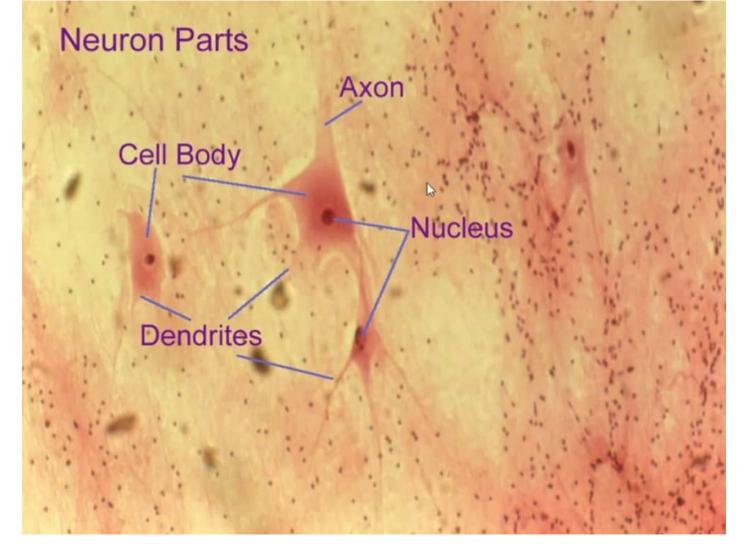






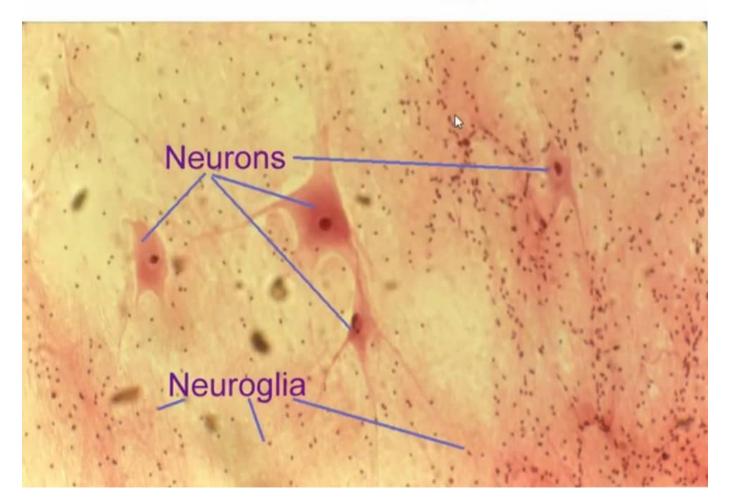




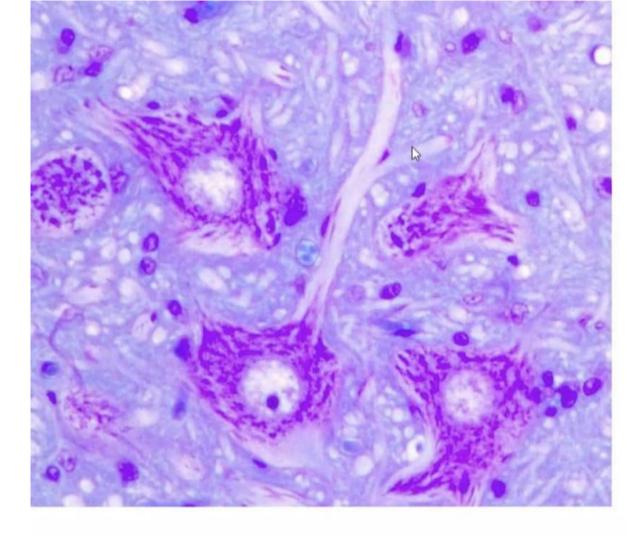


Scanned with CamScanner

#### Neuron and Neuroglia



Scanned with CamScanner

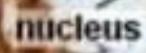


## Spinal Cord silver stain

This is in gray matter because there is a cell body

glial cell

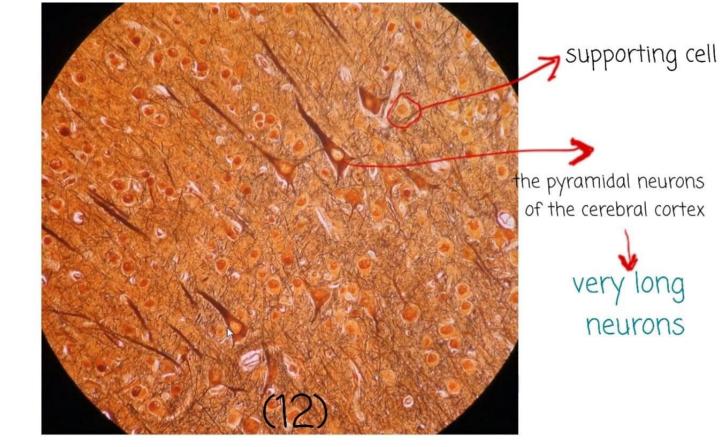
### primary dendrite-

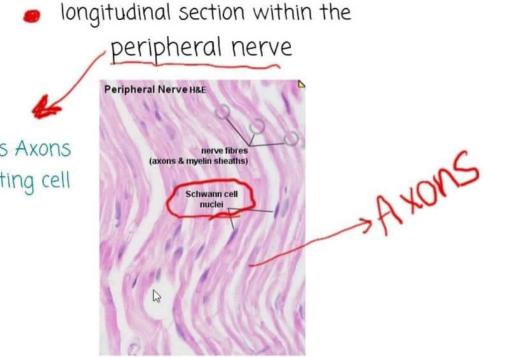


Scanned with CamScanner

neuropil







it contains Axons and supporting cell

(13)

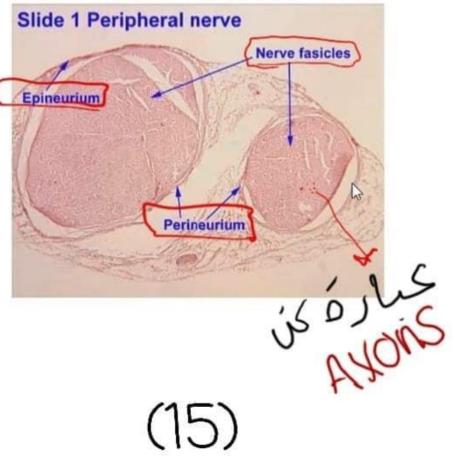
Transverse section

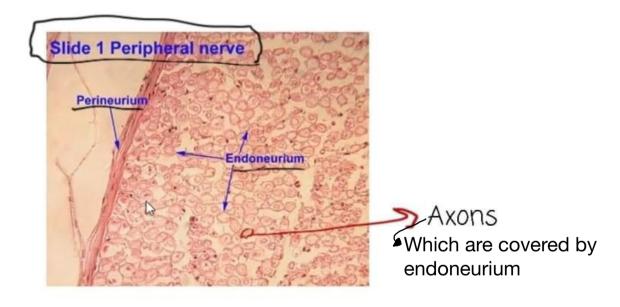
of the peripheral nerve

ma indoneurium Surroundan epineurium surrounded the whole Nerve

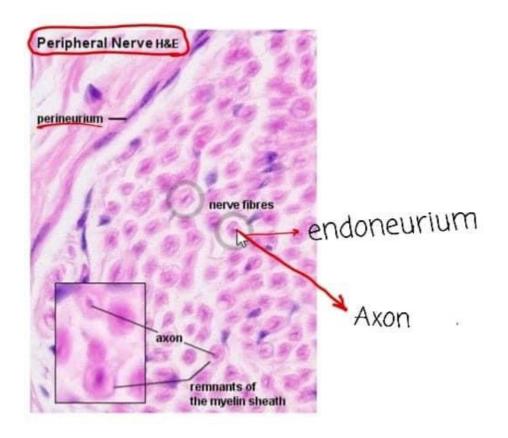
perineurium connective tissue which surrounds a group of fiber

#### cross-section

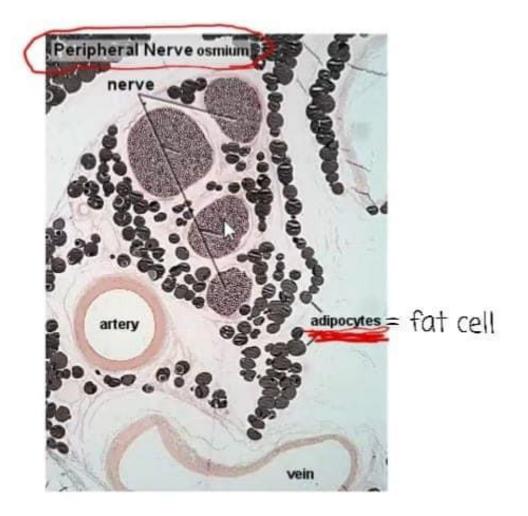




(16)



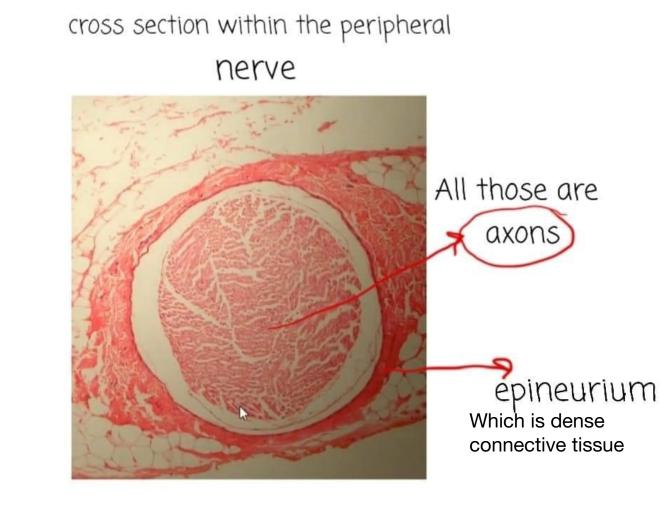
(17)



(18)



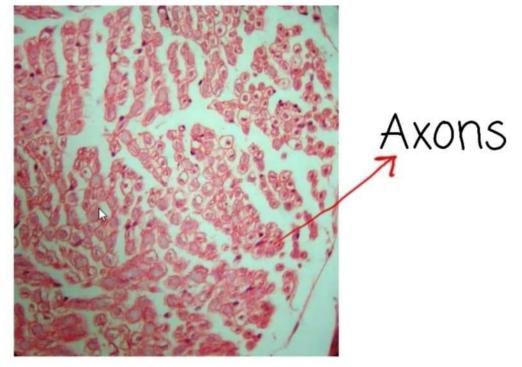
(19)



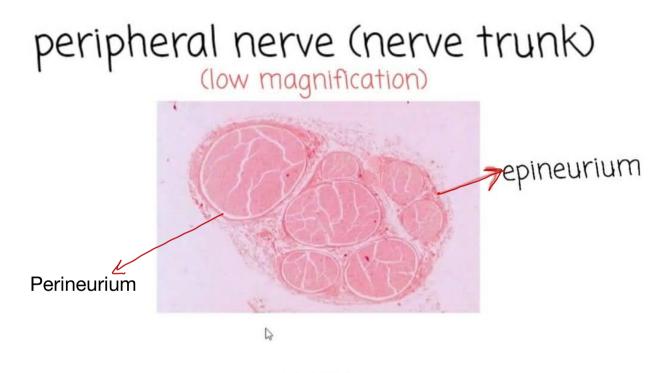
(20)

cross section within the peripheral Nerve (higher magnification)

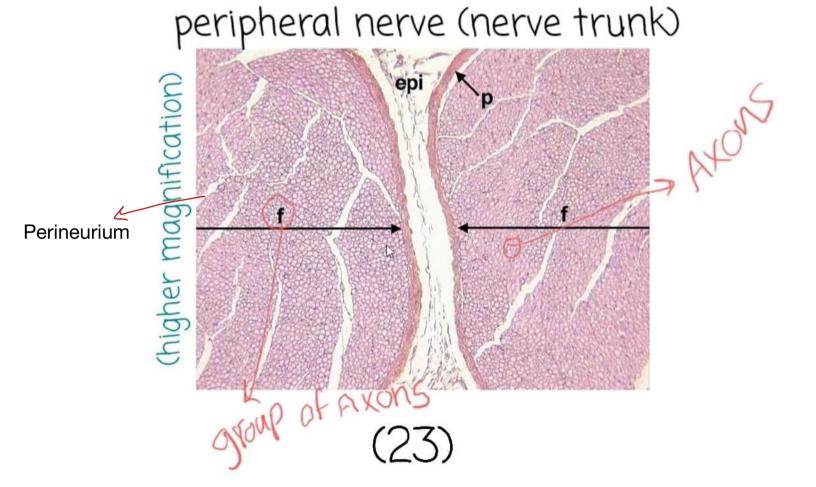
Peripheral Nerve contain motor and sensory nerve



(21)

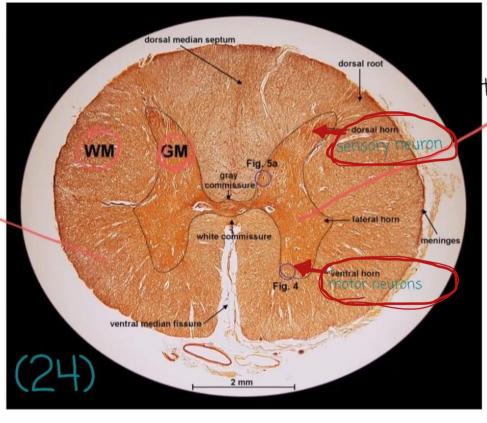


(22)



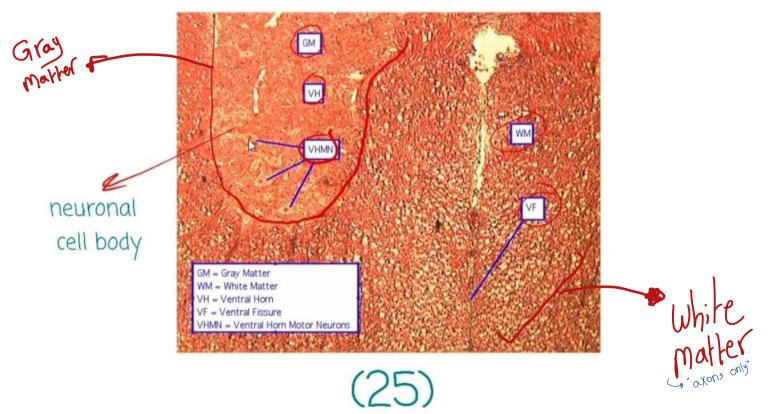
### spinal cord

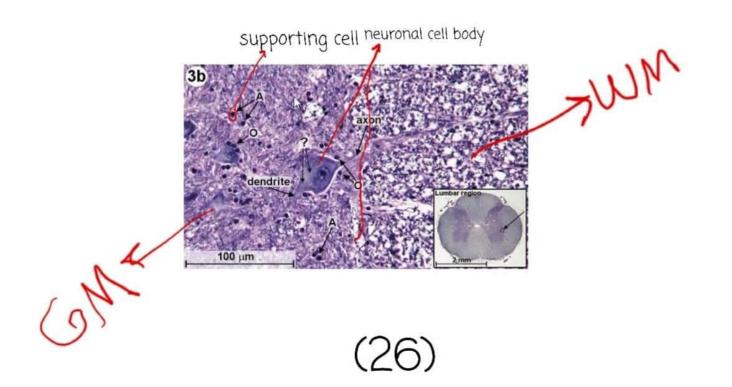
#### white matter

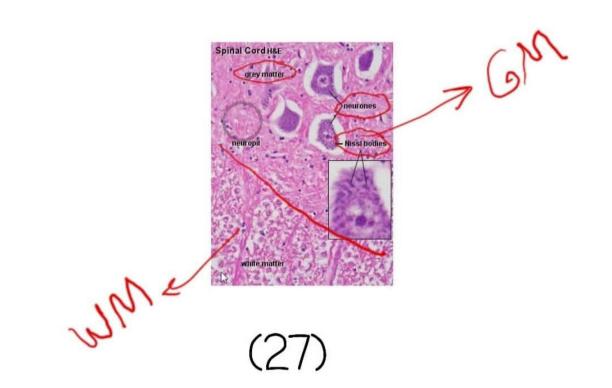


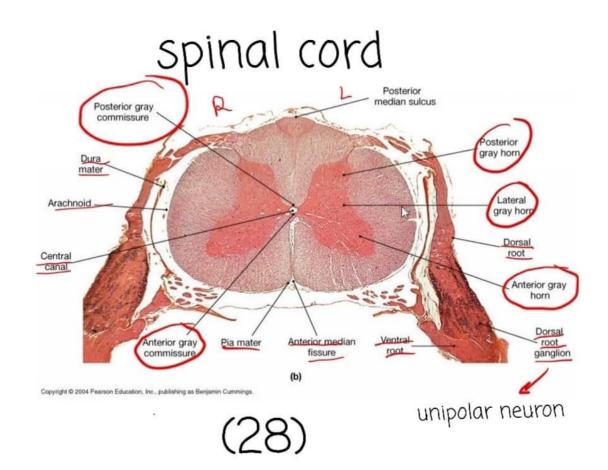
gray matter the (butterfly)

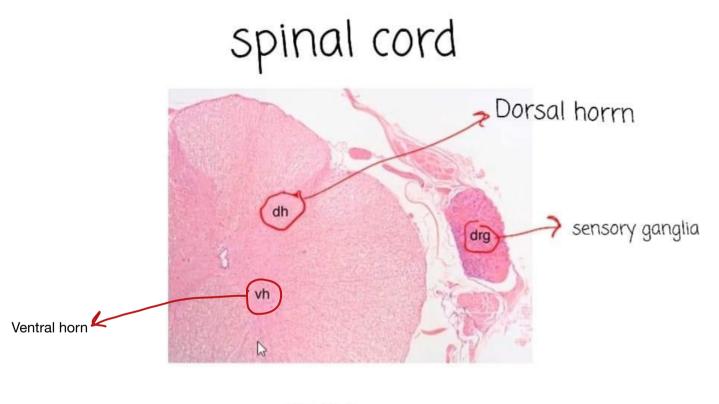
#### **Cross section in spinal cord**





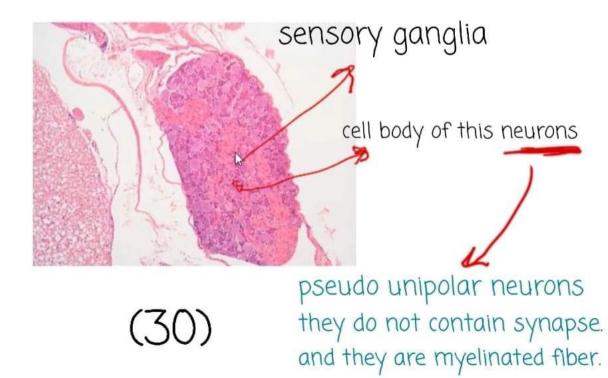




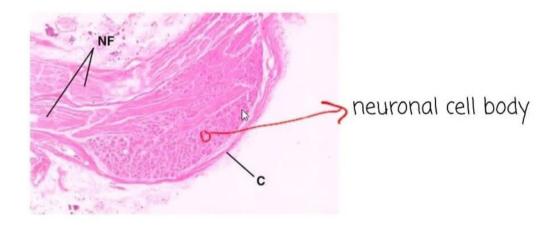


(29)

## features of dorsal root ganglia

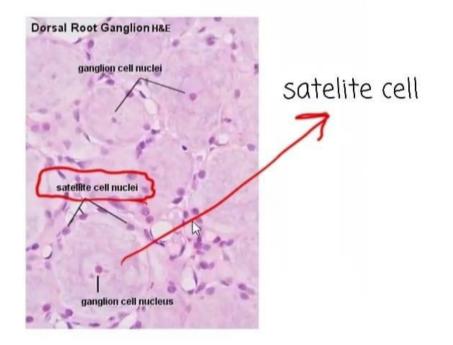


# dorsal root ganglia

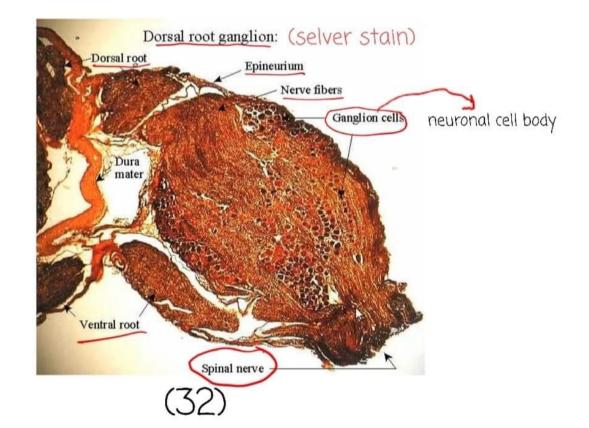


(31)

# Dorsal Root Ganglion



(33)





multipolar neurons diffused all through the ganglia

(34)