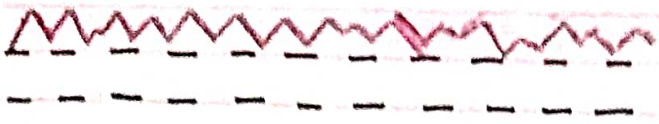
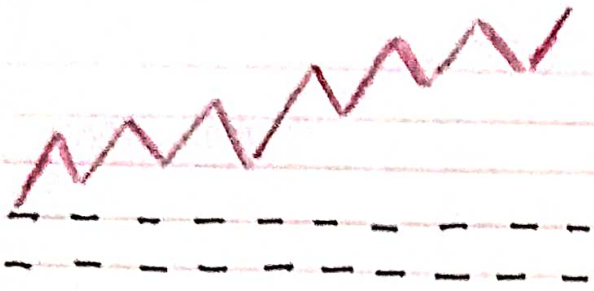
PATTERNS OF FEVER

SUSTAINED / CONTINIOUS :-



NORMAL RANGE

STEP - LADDER FEVER :-



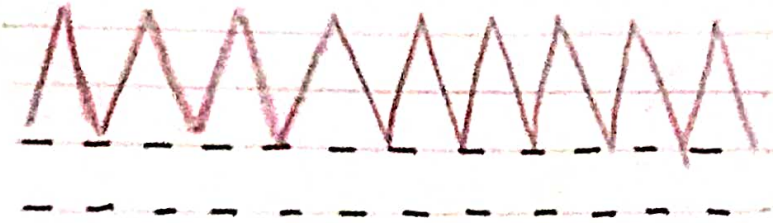
NORMAL RANGE

INTERMITTENT -



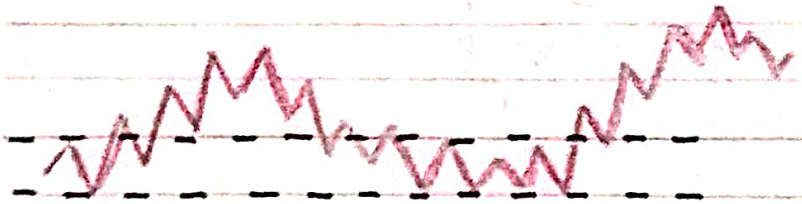
NORMAL RANGE

REMITTENT FEVER :-



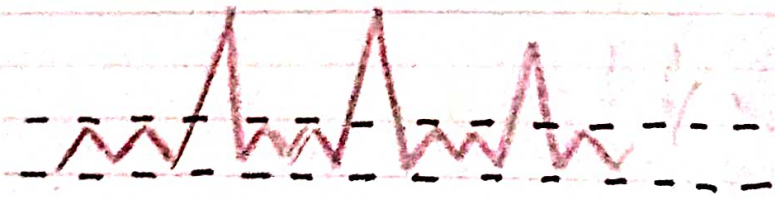
NORMAL RANGE

RELAPSING FEVER :-



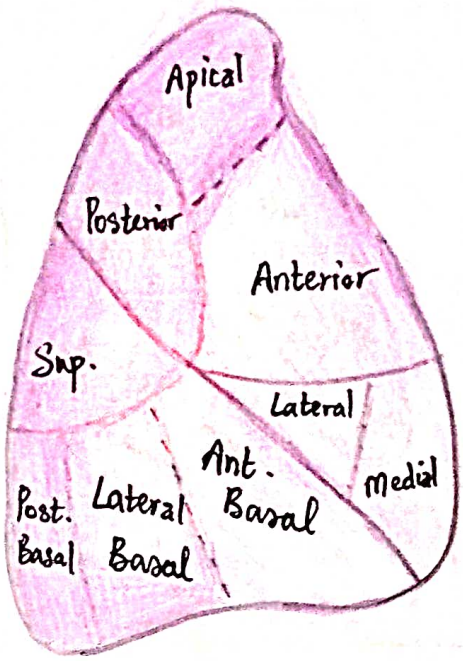
NORMAL RANGE

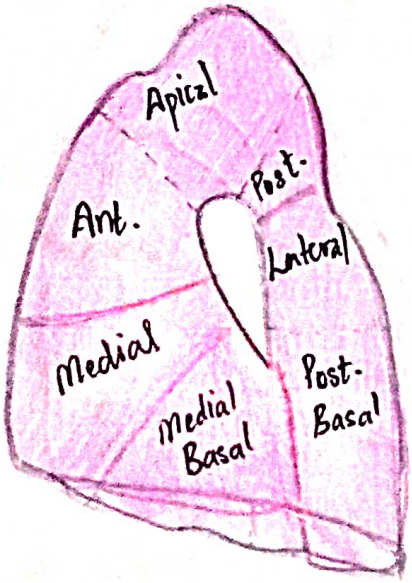
QUARTAN FEVER :-



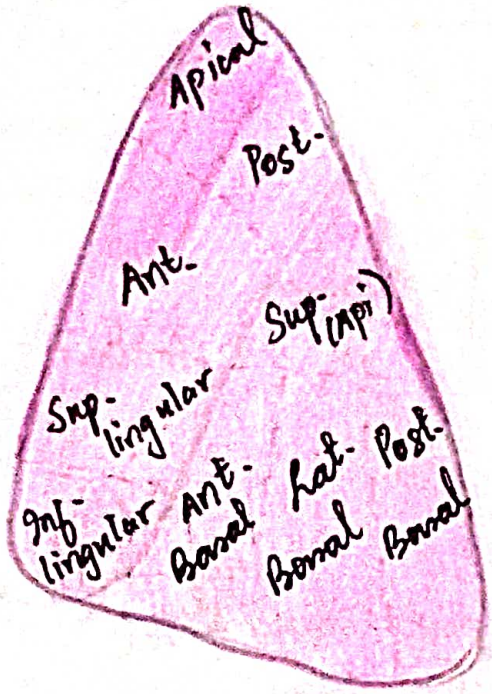
NORMAL RANGE

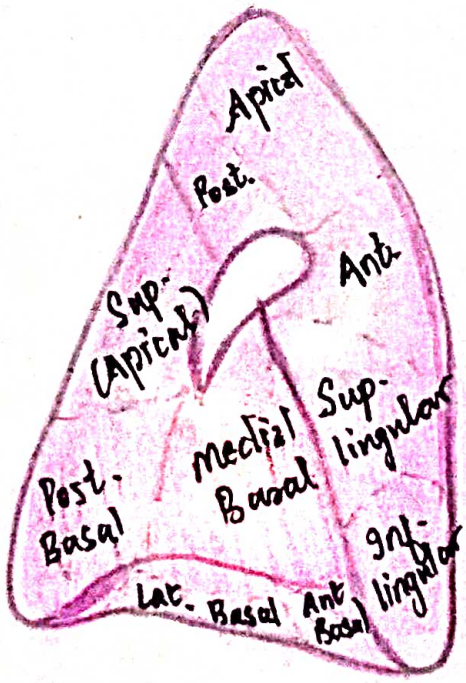
BRONCHOPULMONARY SEGEMENTS





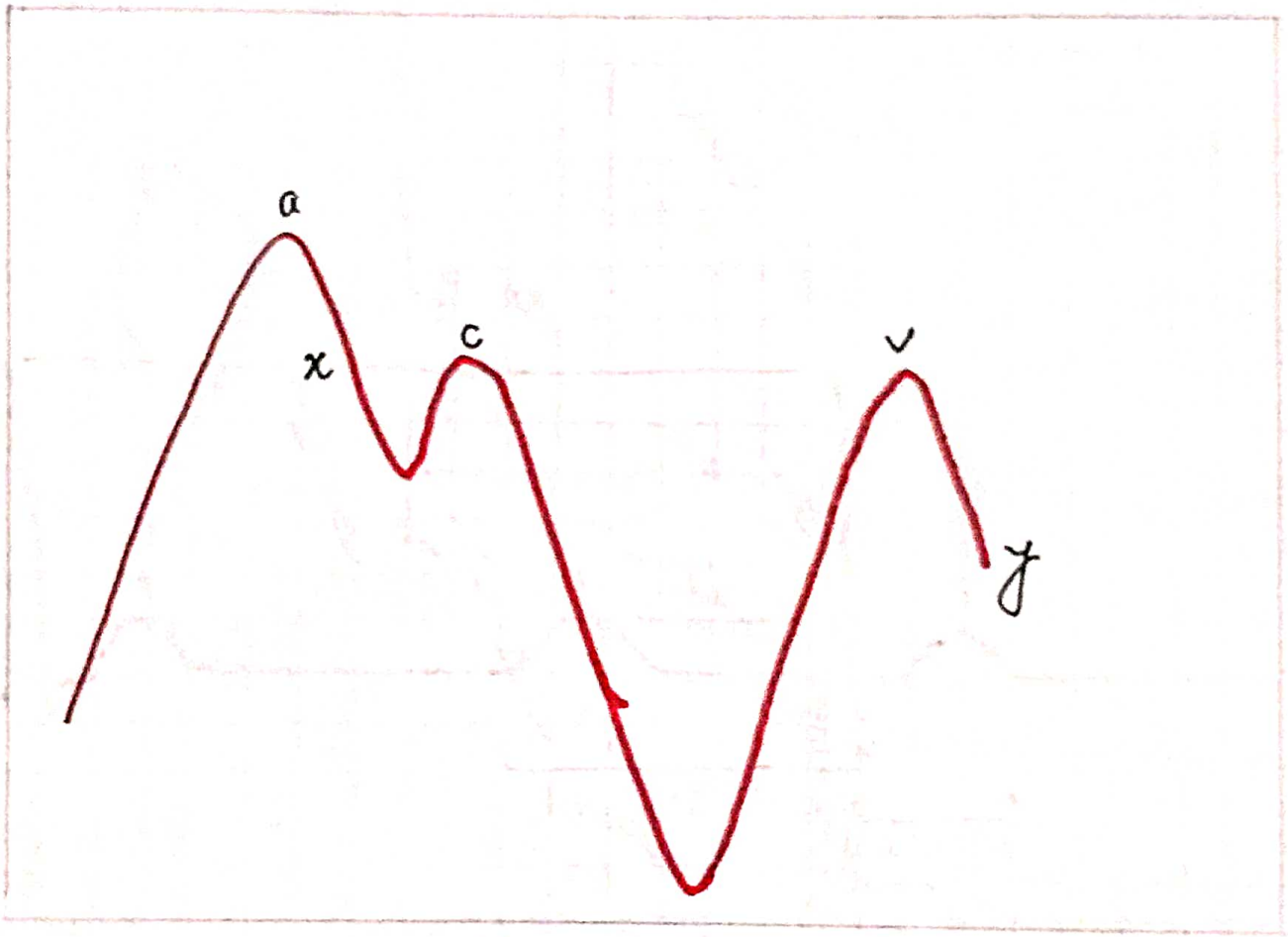
RIGHT LUNG


Apical
Post.
Ant.
Sup. (Apical)
Sup. lingular
Inf. lingular
Ant. Basal
Lat. Basal
Post. Basal


Apical
Post.
Ant.
Sup. (Apical)
Post. Basal
Medial Basal
Sup. lingular
Inf. lingular
Lat. Basal
Ant. Basal

LEFT LUNG

Wave form of jugular venous pulse



a wave - right atrial contracts; some blood is pushed back up into the internal jugular vein

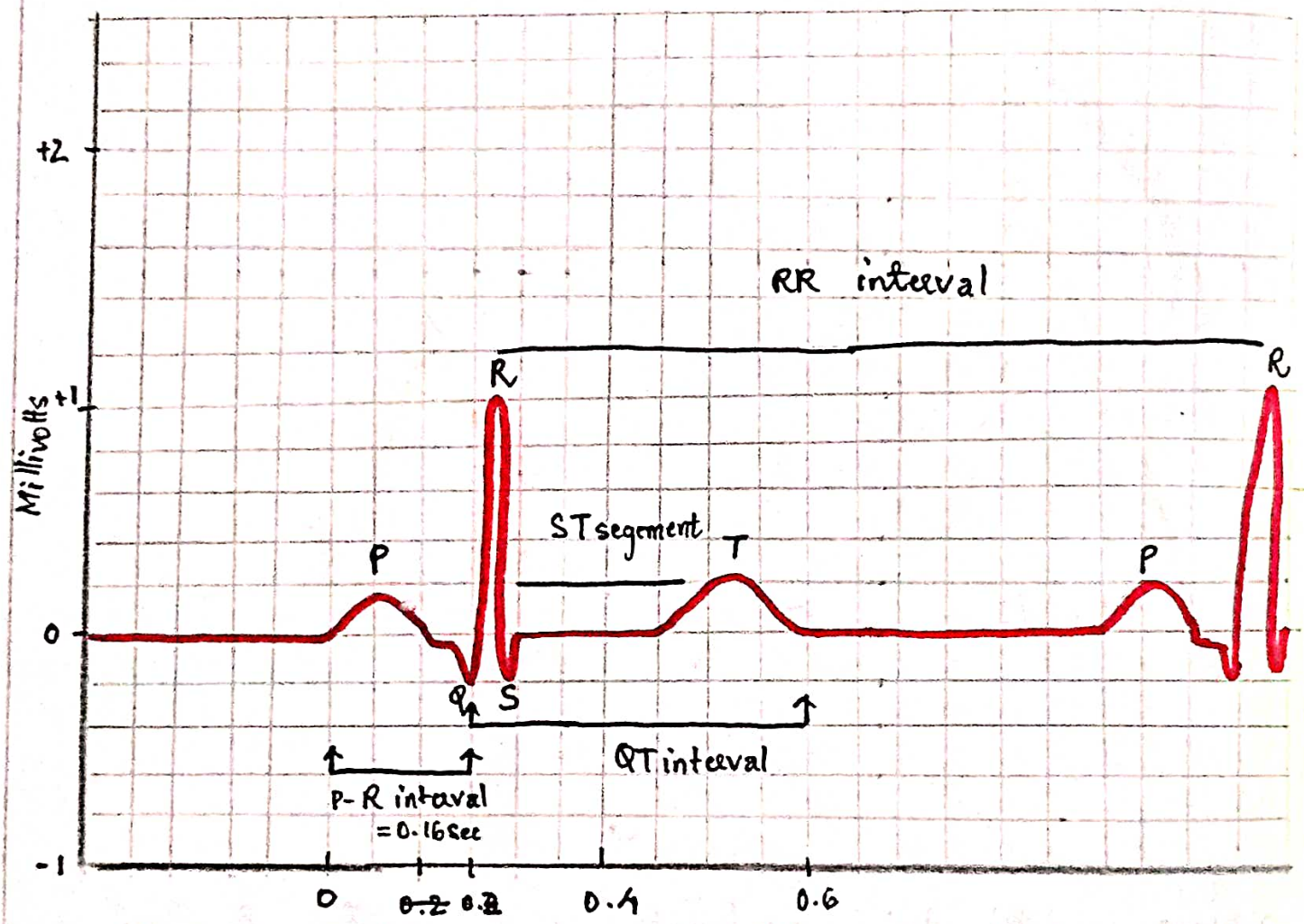
x descent - relaxation of right atrium causing drop in pressure.

c wave - tricuspid valve closes and right ventricle contracts

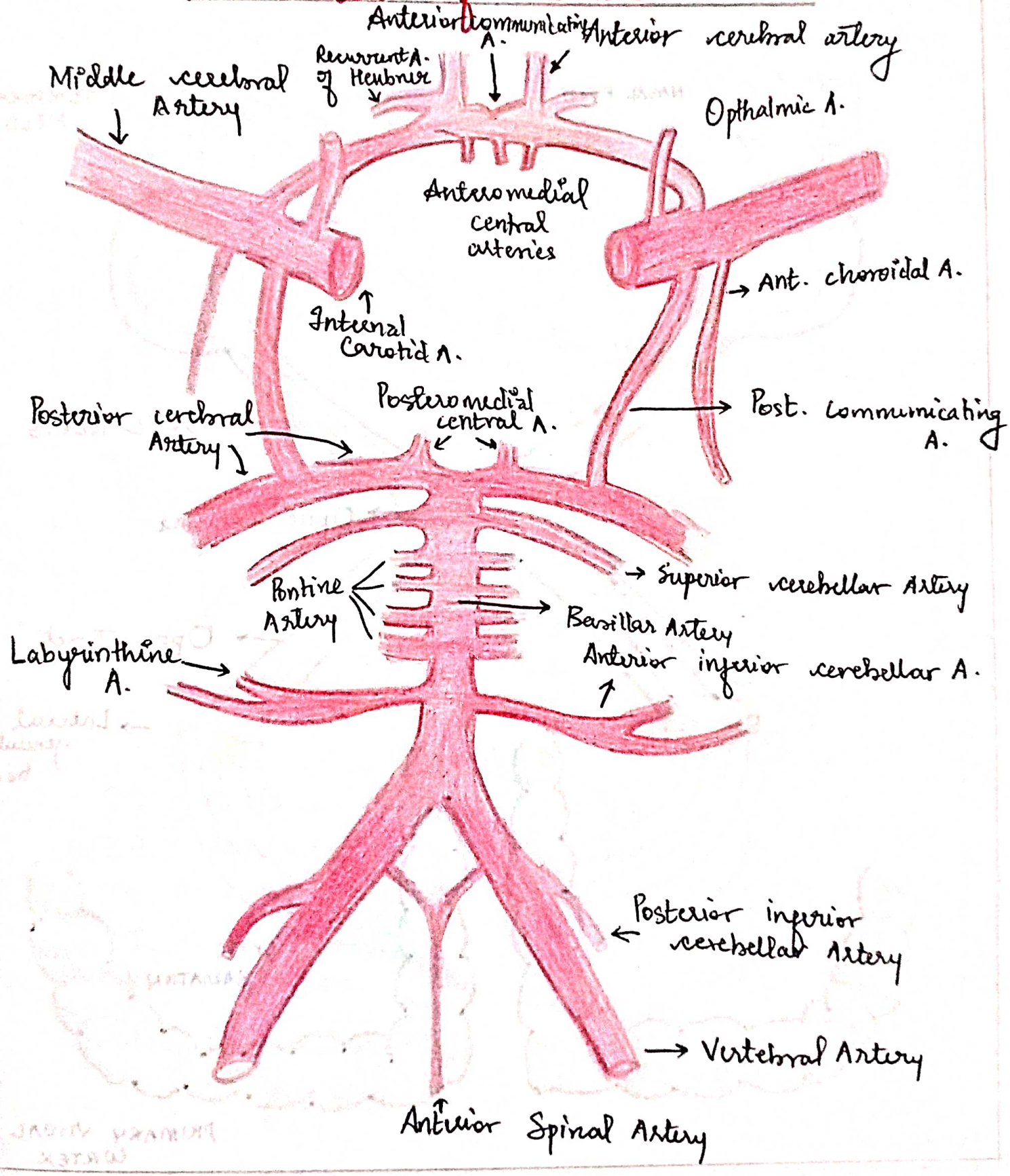
v wave - filling of right atrium against a closed tricuspid valve

y descent - tricuspid valve opens and blood from right atrium begins to fill the ventricles.

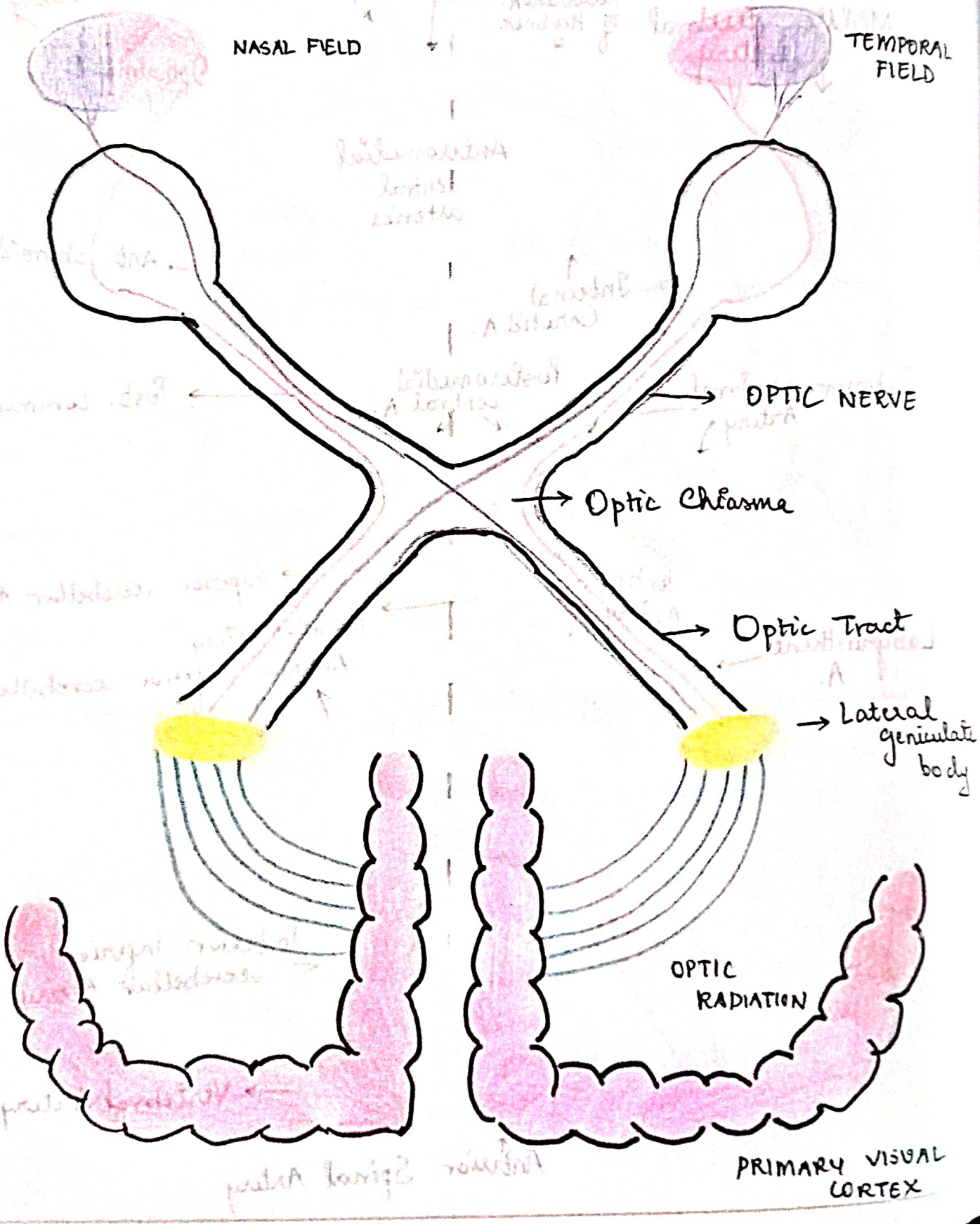
NORMAL WAVES OF ECG



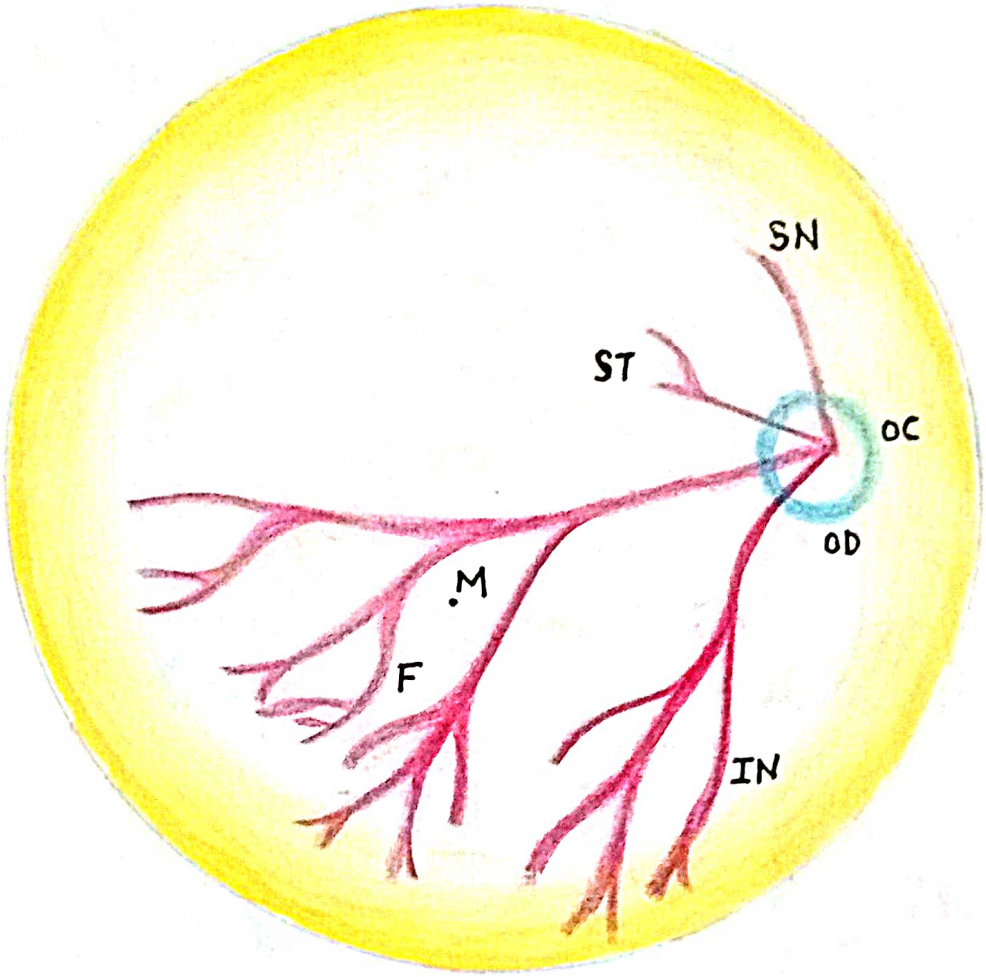
Circle Of Willis



Visual Pathway



NORMAL FUNDUS OF EYE

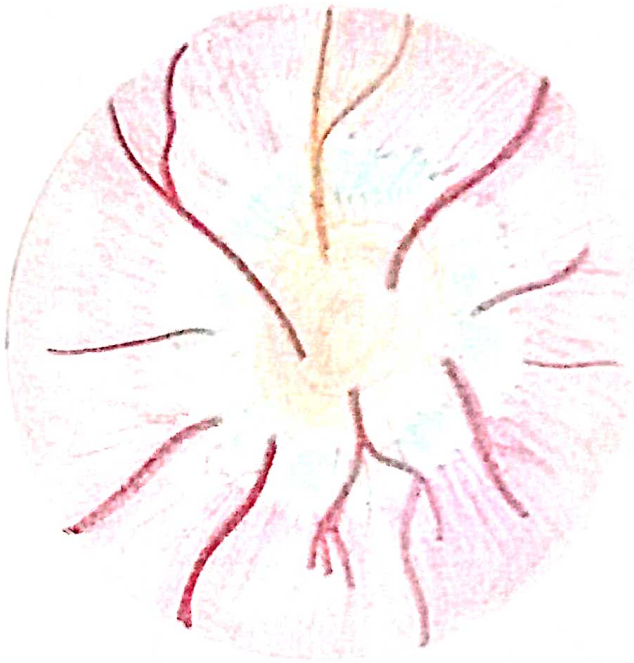


OC - Optic cup
OD - Optic disc
FC - Fovea
M - Macula
IN - Inferonasal
SN - Superonasal
ST - Superotemporal

PAPILLEDEMA



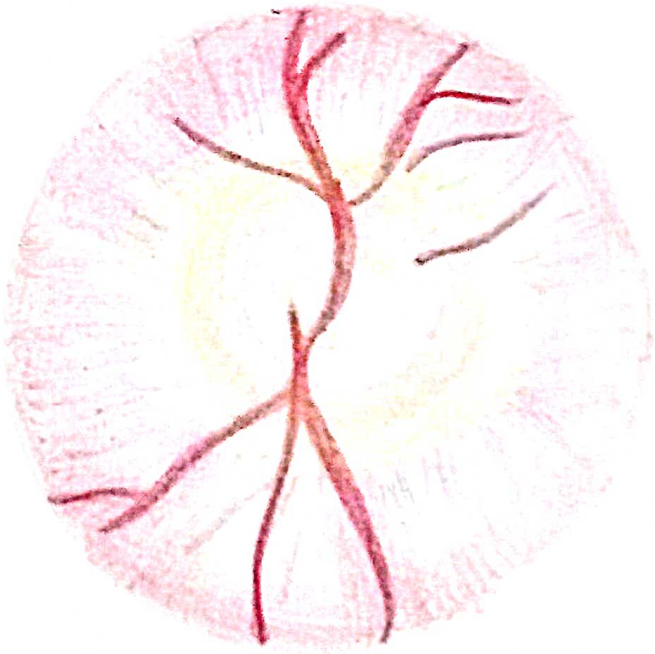
Early



Acute Established

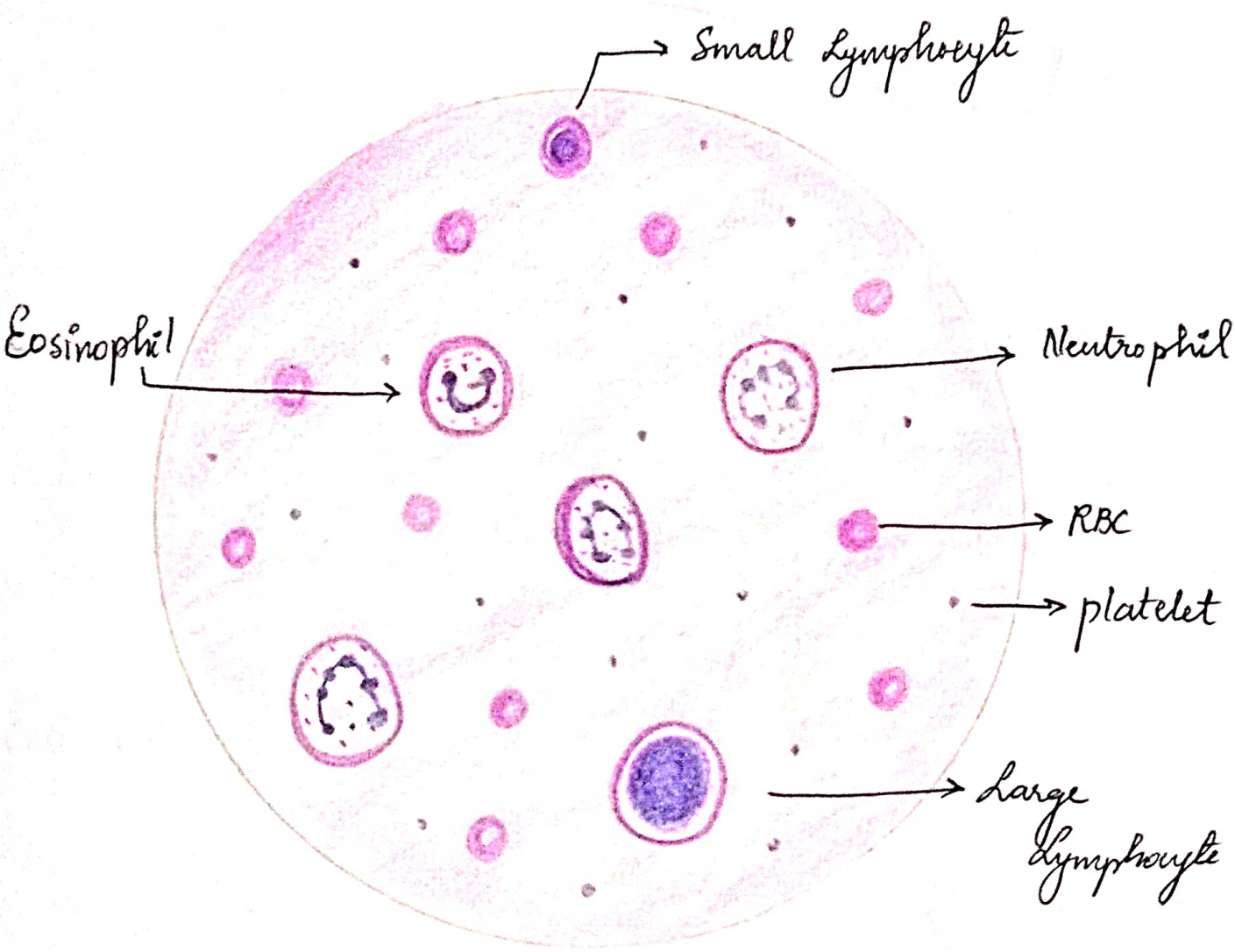


Chronic

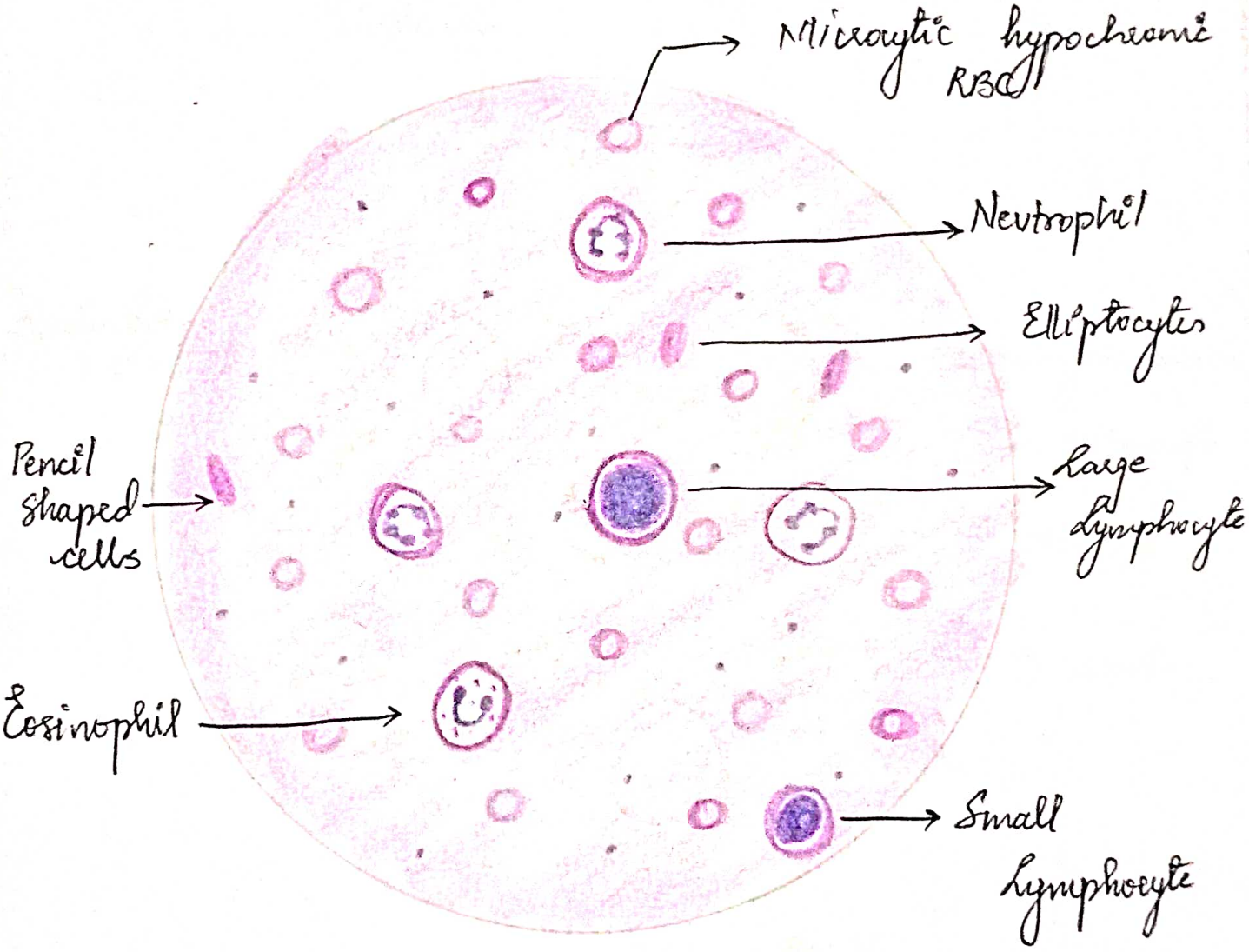


Atropic

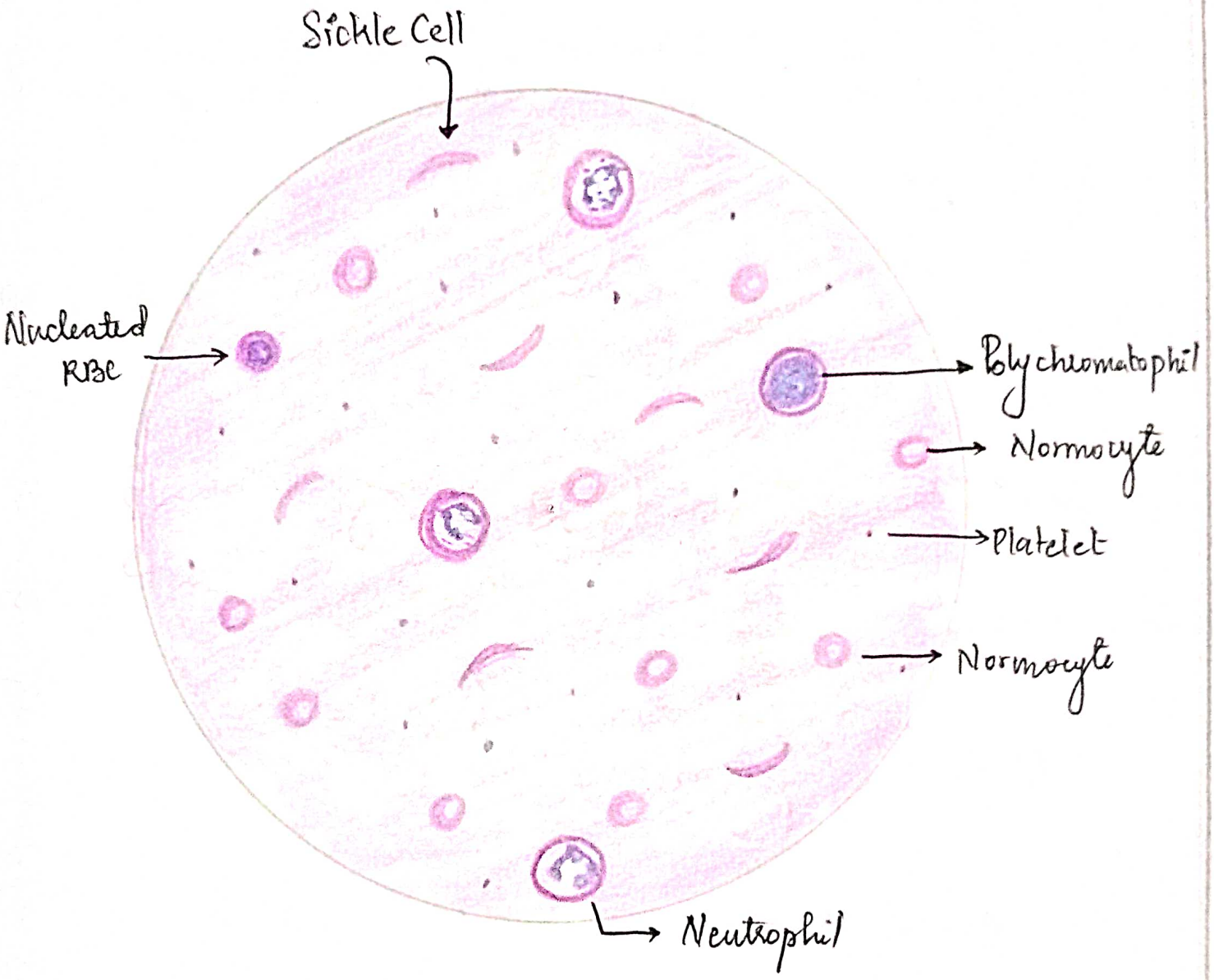
NORMAL PERIPHERAL BLOOD SMEAR



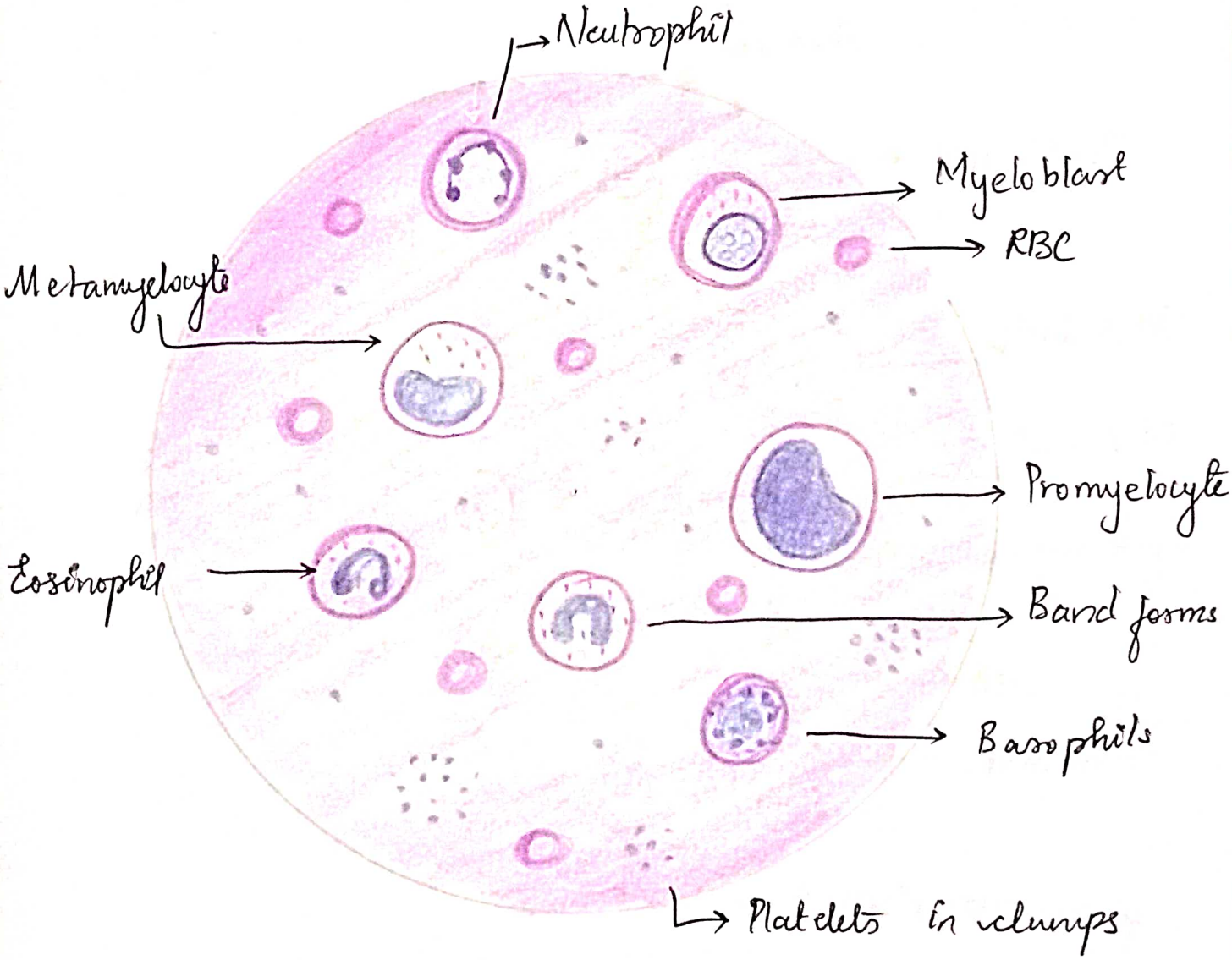
PS OF IRON DEFICIENCY ANEMIA



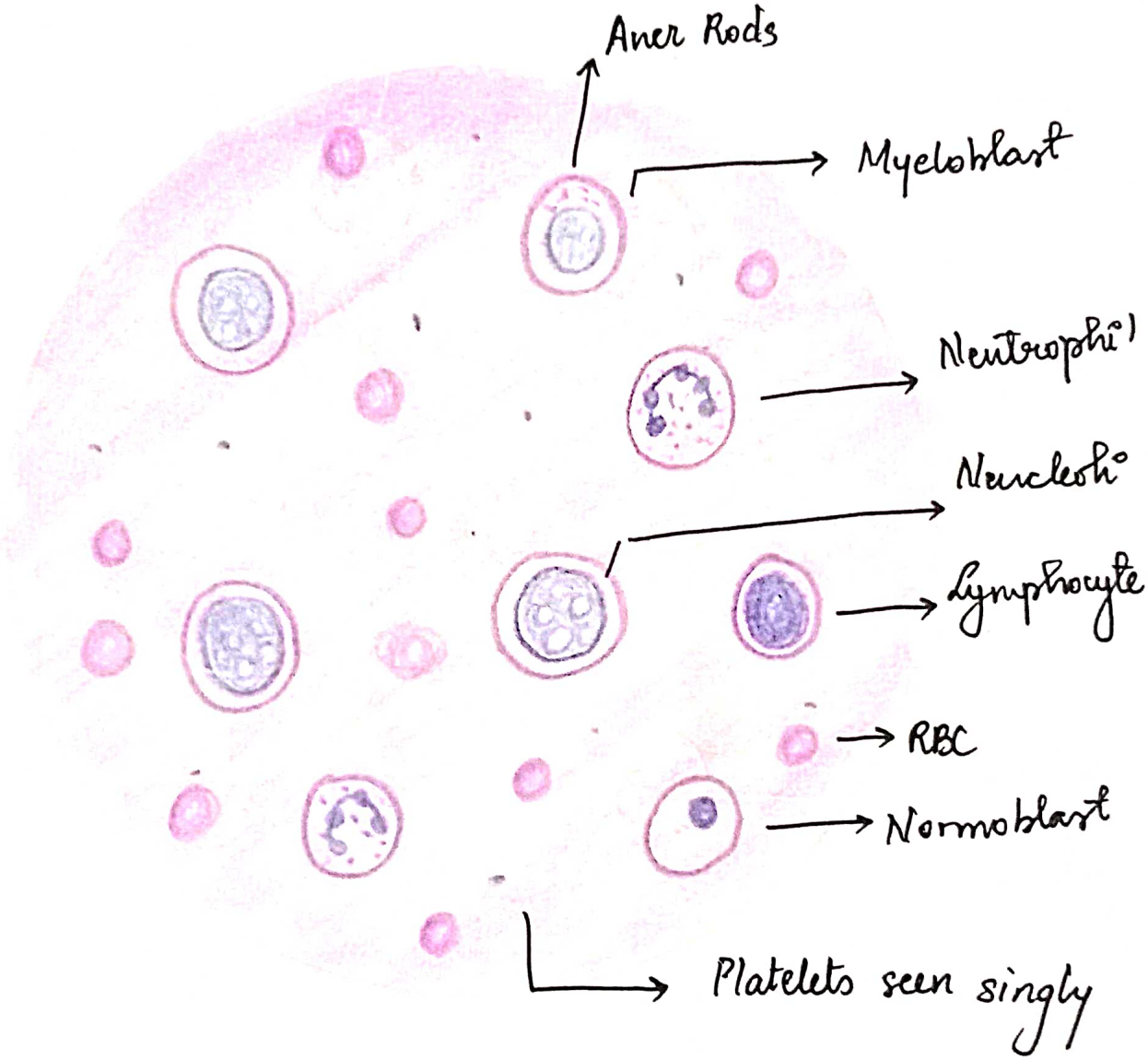
PS OF SICKLE CELL ANEMIA



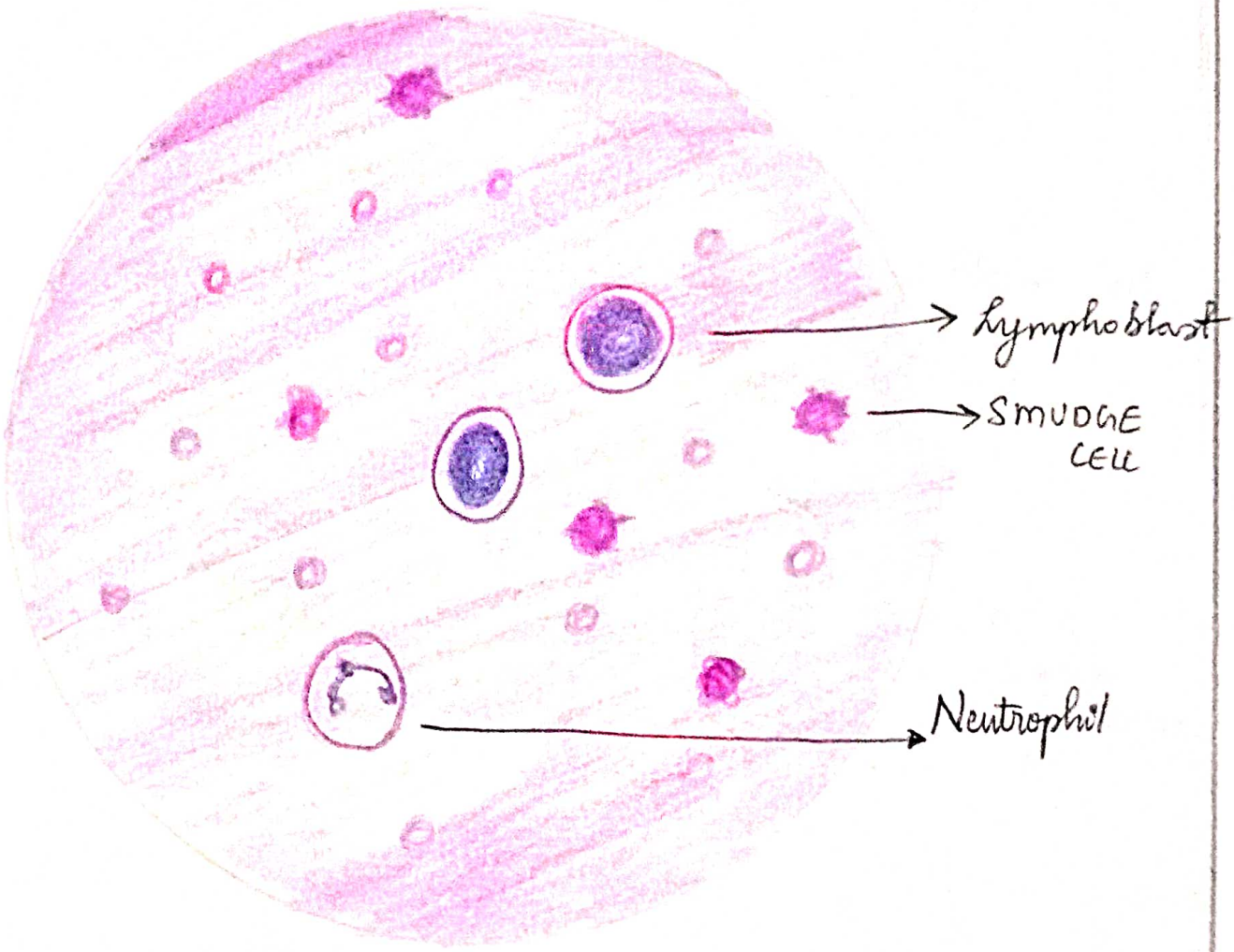
PS OF CML


Neutrophil
Myeloblast
RBC
Metamyelocyte
Promyelocyte
Eosinophil
Band forms
Basophils
Platelets in clumps

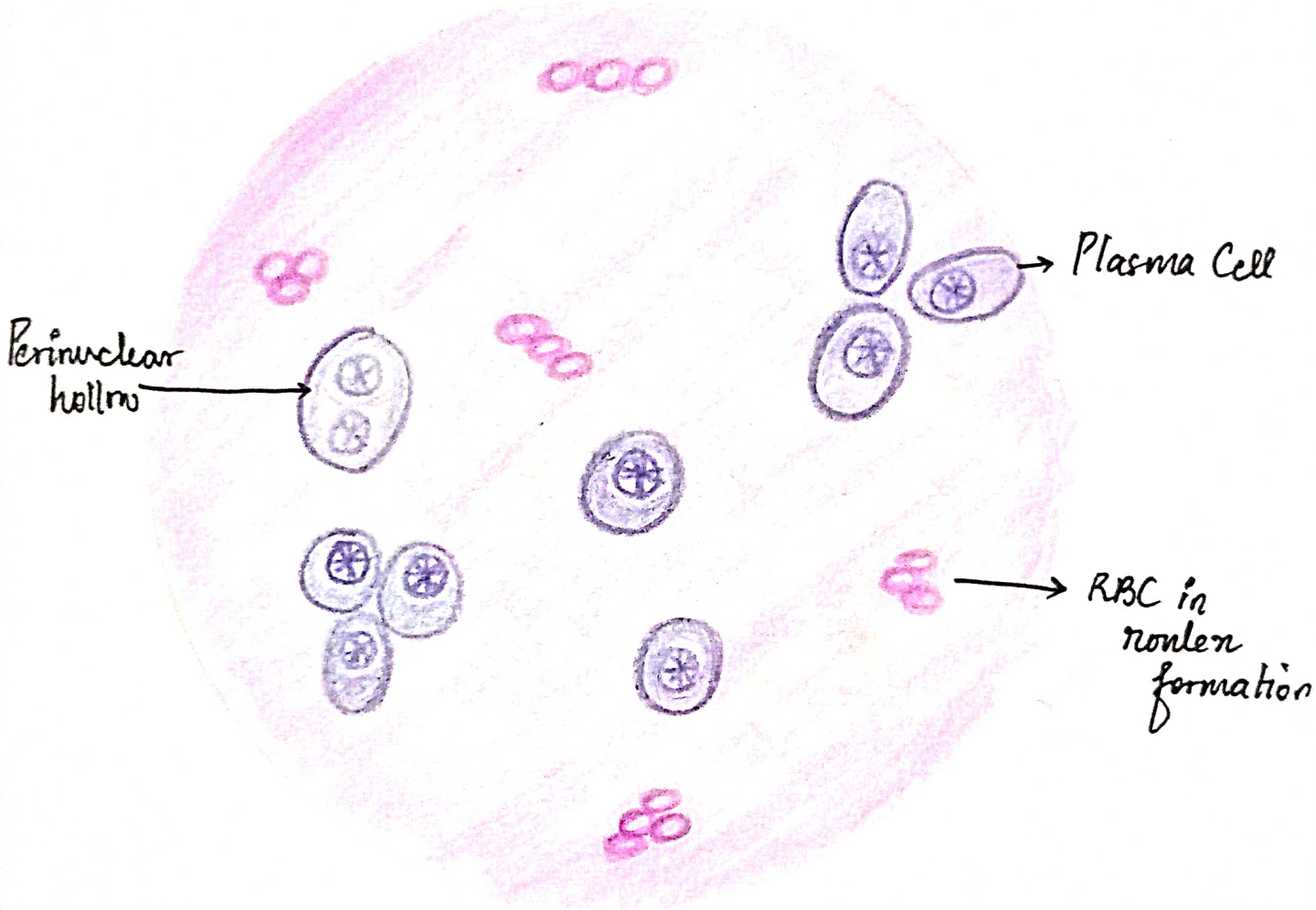
PS OF AML


Auer Rods
Myeloblast
Neutrophil
Nucleoli
Lymphocyte
RBC
Normoblast
Platelets seen singly

PS OF CLL

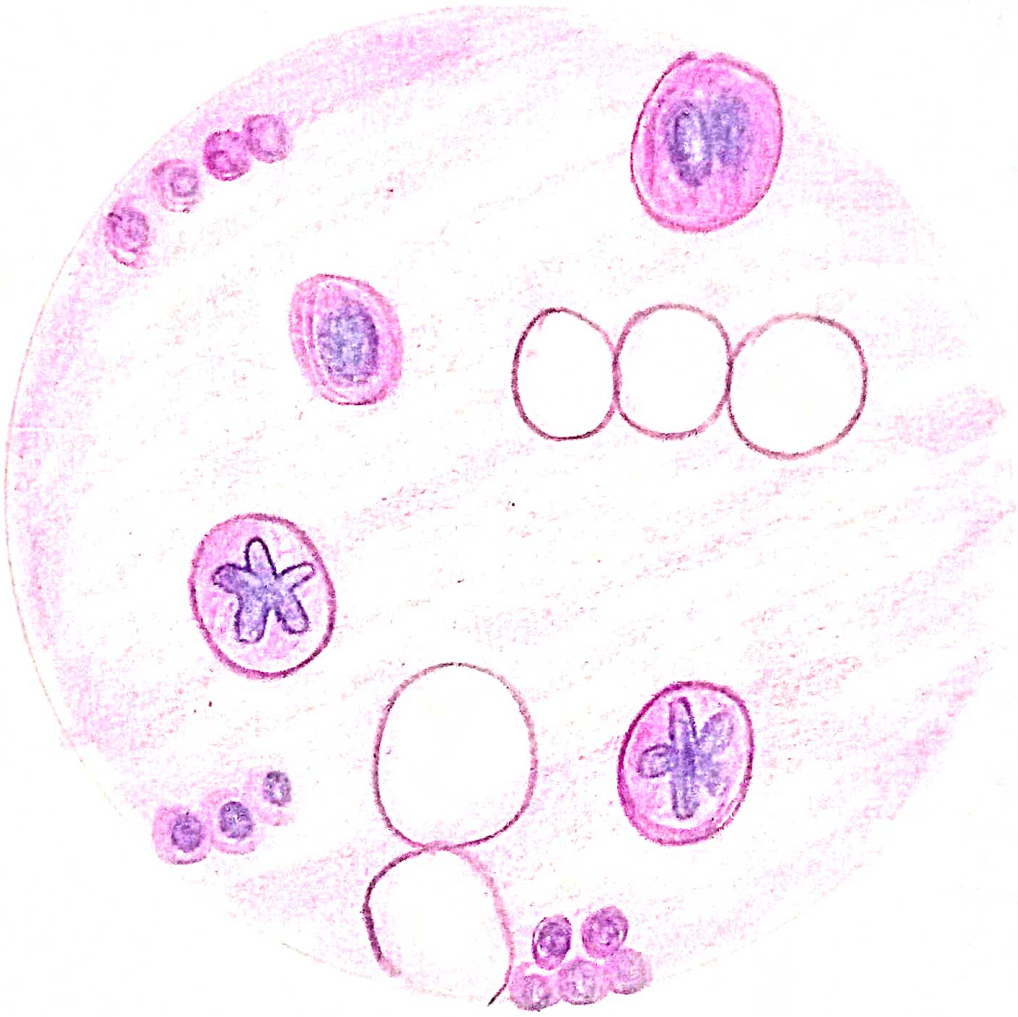


BONE MARROW OF MULTIPLE MYELOMA

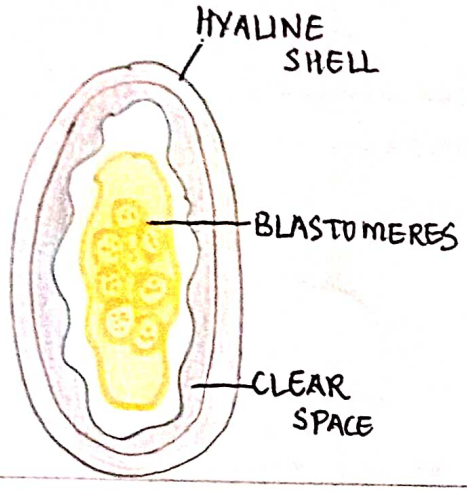


Idiopathic thrombocytopenic purpura

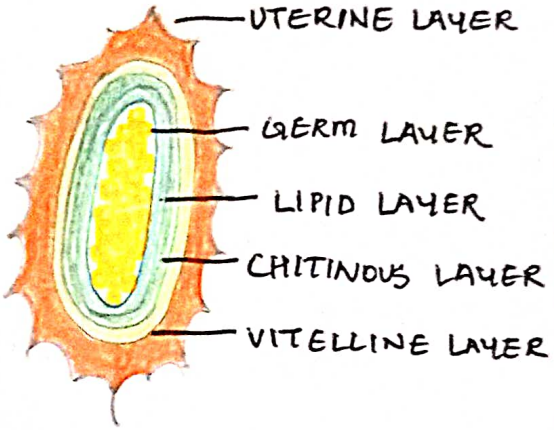
BONE MARROW OF ~~MEGALOBLASTIC~~ ANEMIA



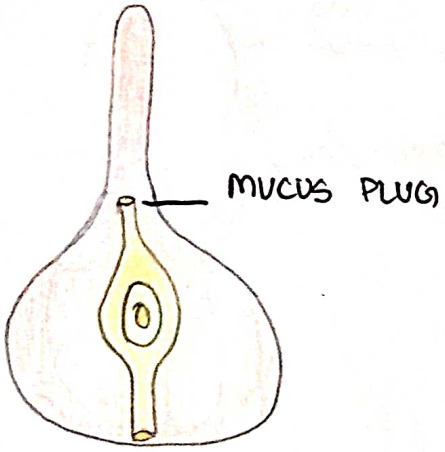
OVA OF HOOKWORM, ROUNDWORM WHIP WORM, TAPE WORM, PIN WORM



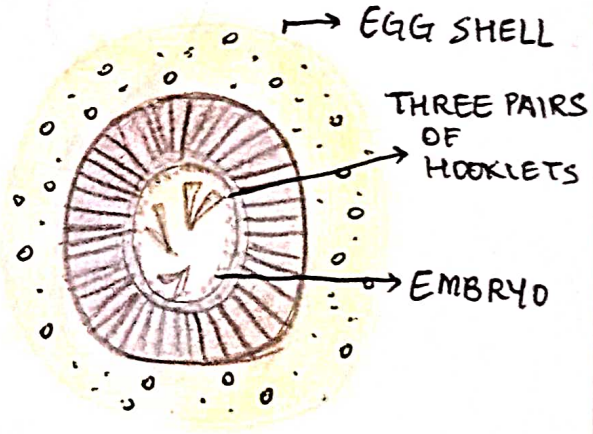
HOOKWORM



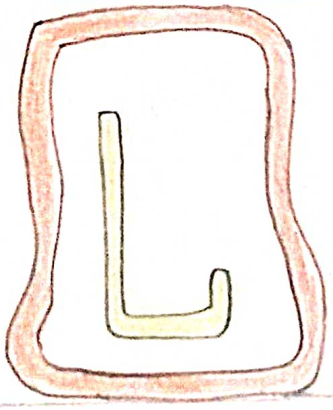
ROUNDWORM



WHIPWORM

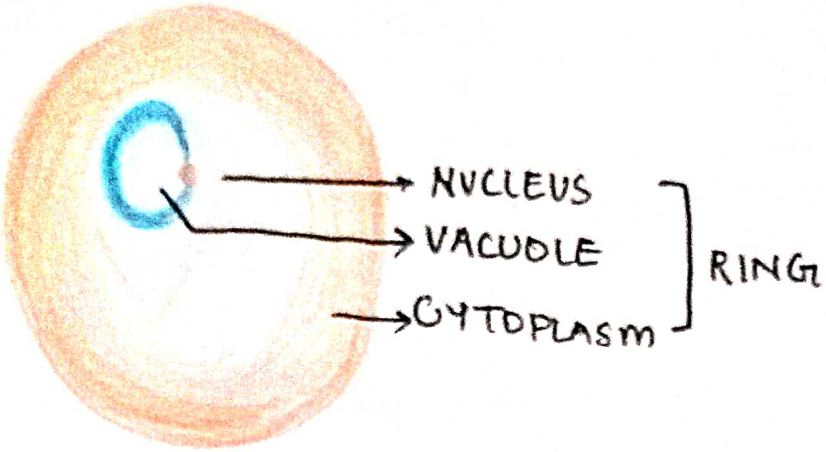


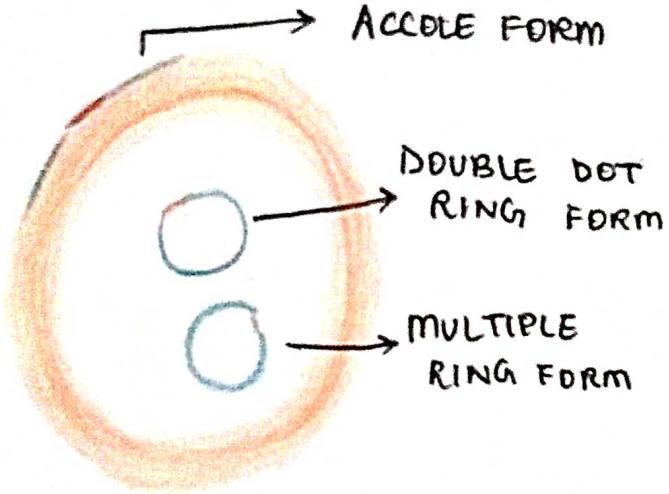
TAPEWORM



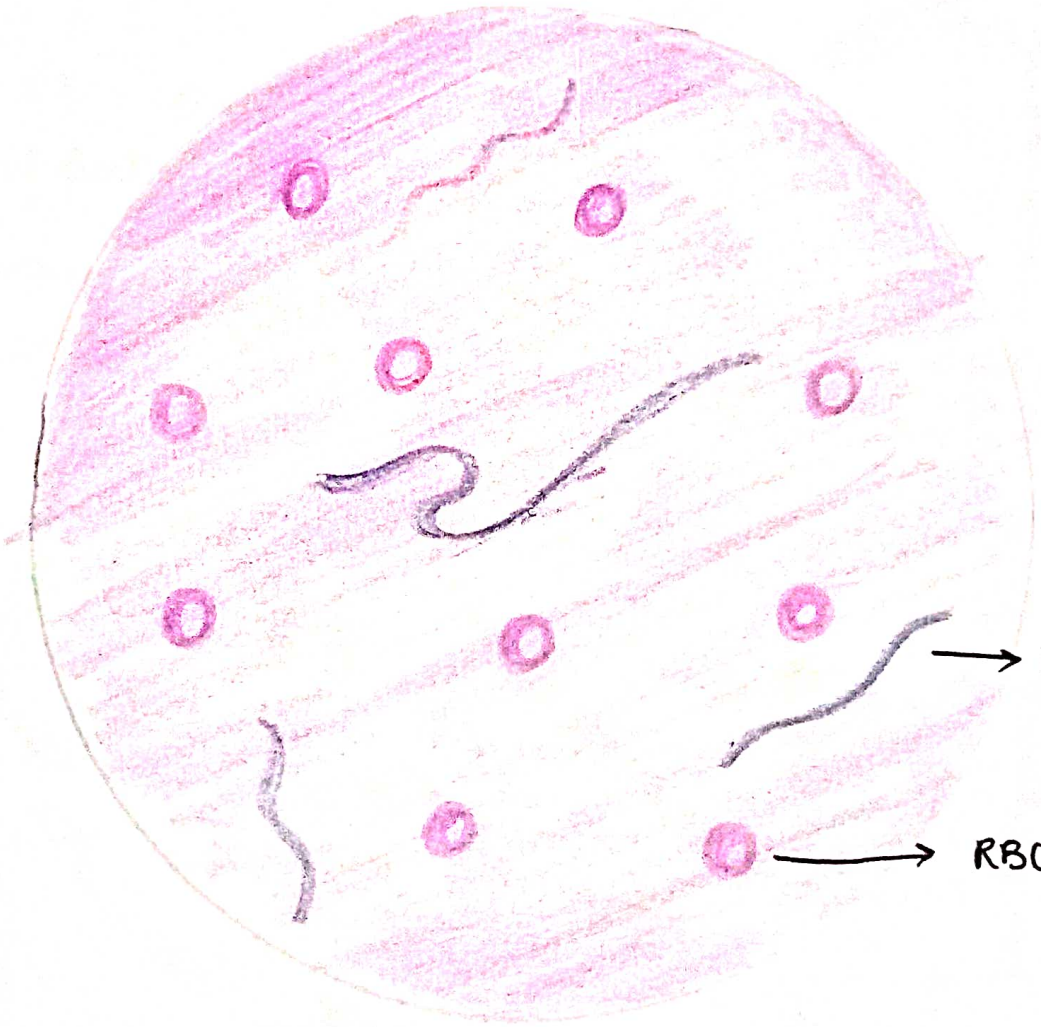
PINWORM

RING STAGE OF PLASMODIUM VIVAX & FALCIPARUM

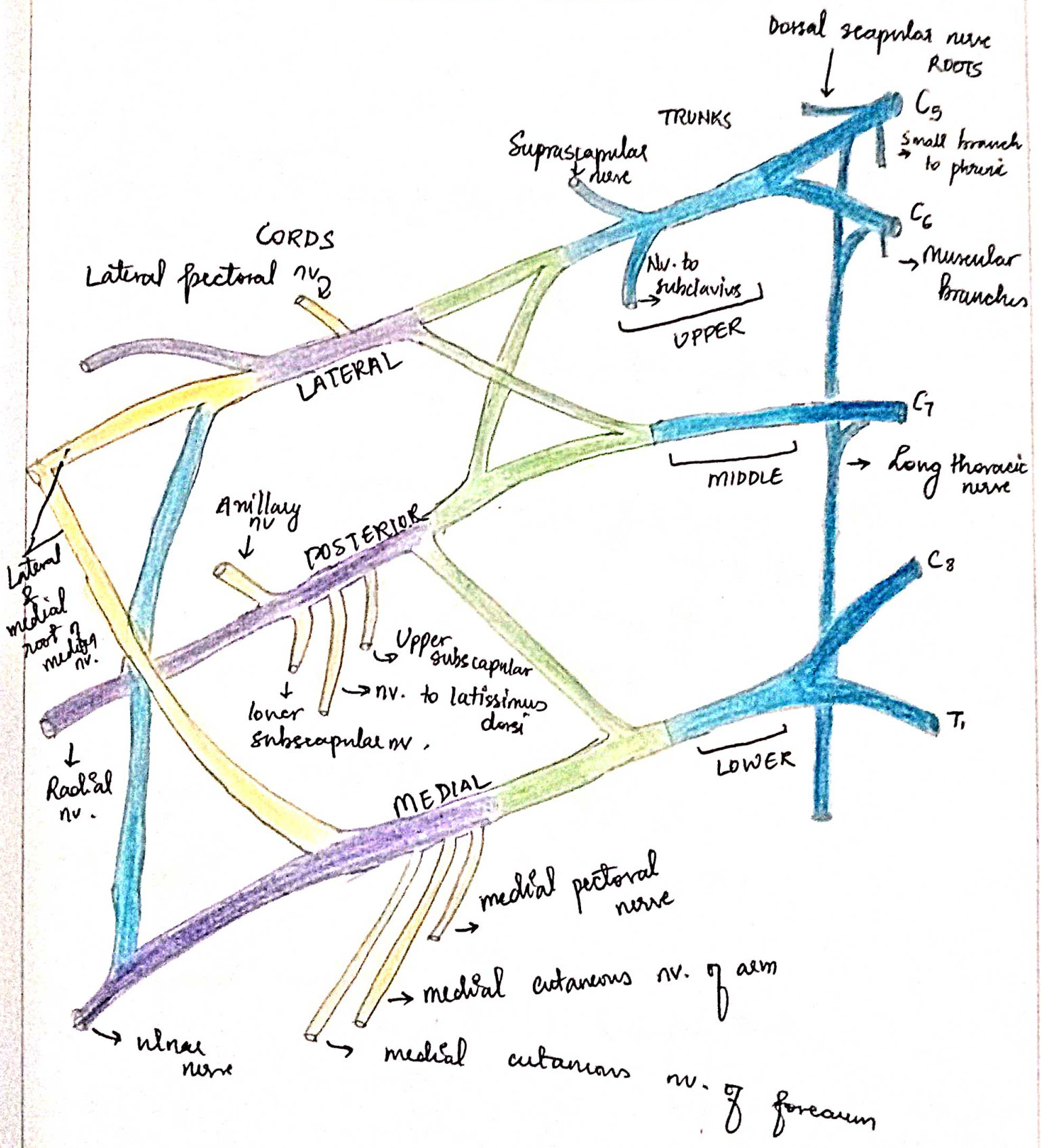




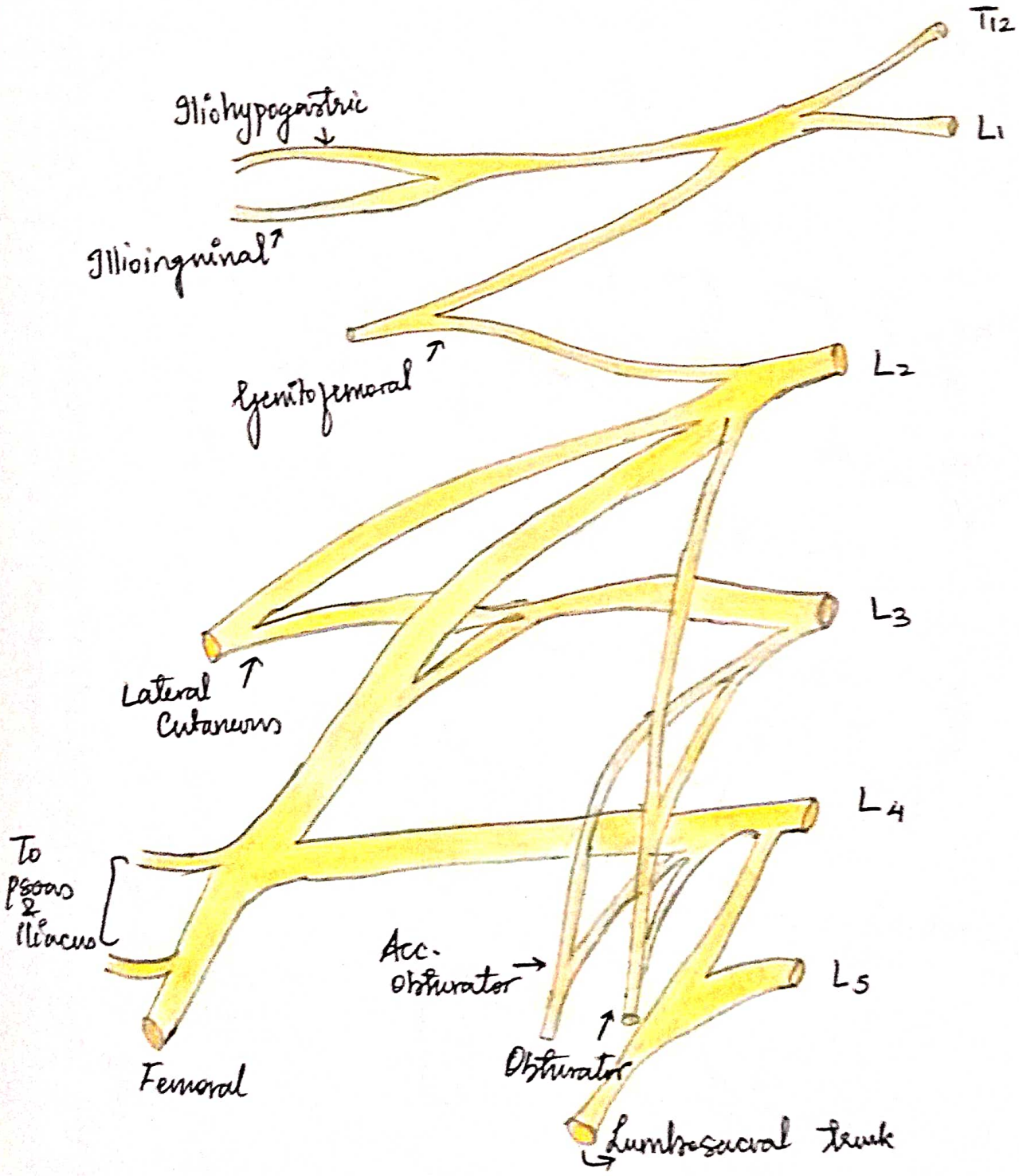
BLOOD FILM OF MICROPHYLARIA



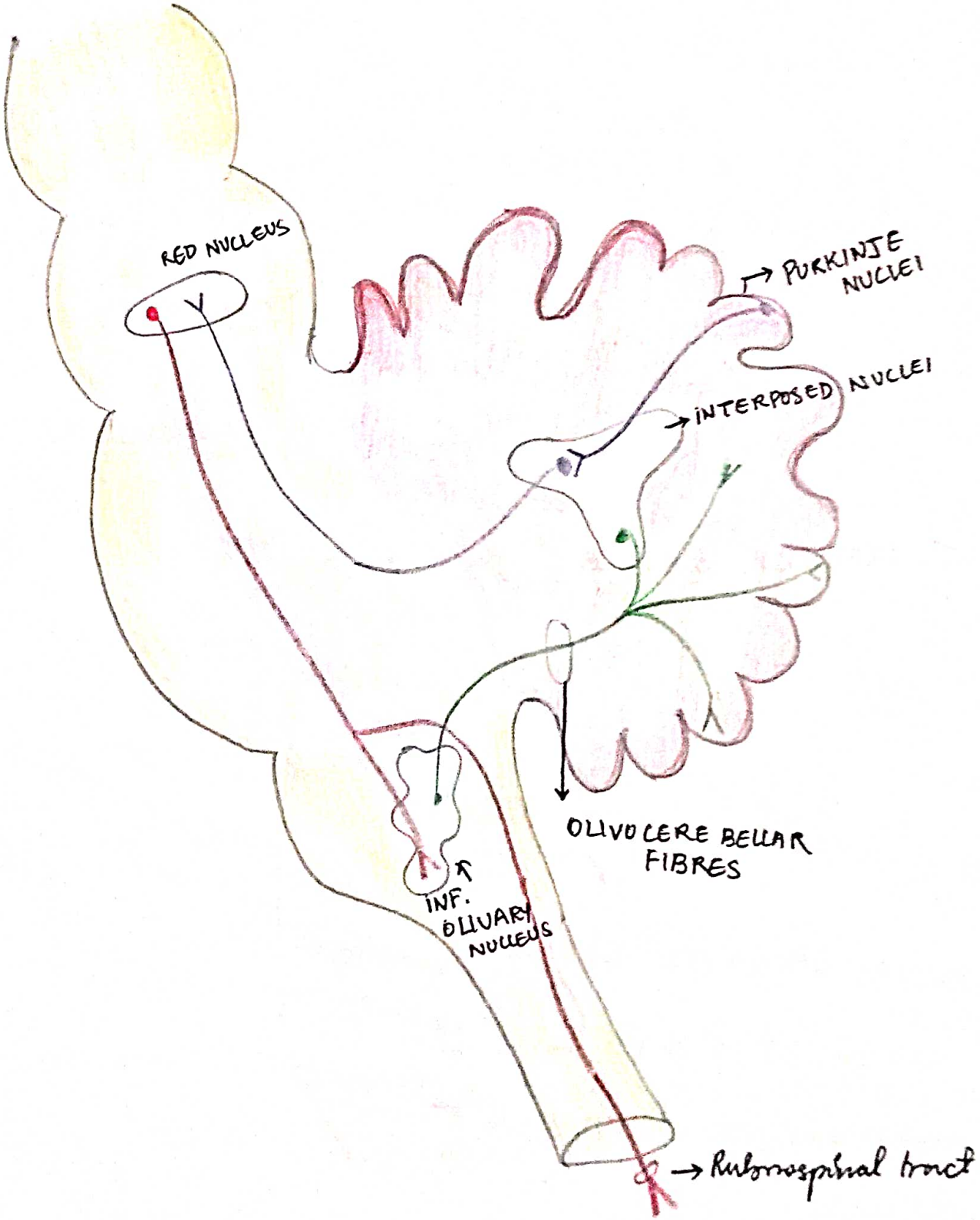
BRACHIAL PLEXUS



LUMBAR PLEXUS

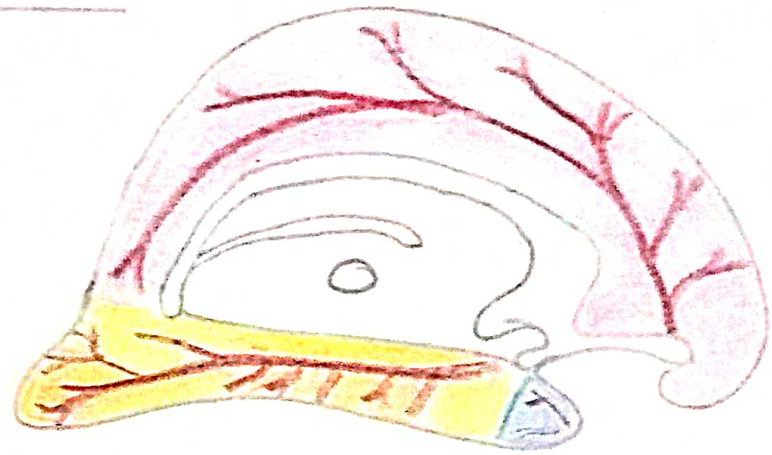


CEREBELLUM AND CONNECTIONS



BLOOD SUPPLY OF BRAIN

A. MEDIAL SURFACE



B. LATERAL SURFACE



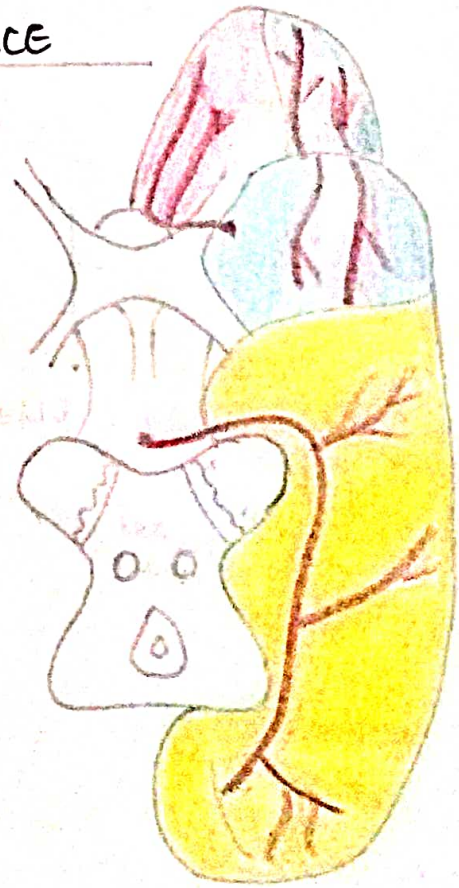
ANTERIOR CEREBELLAR ARTERY

MIDDLE CEREBELLAR ARTERY

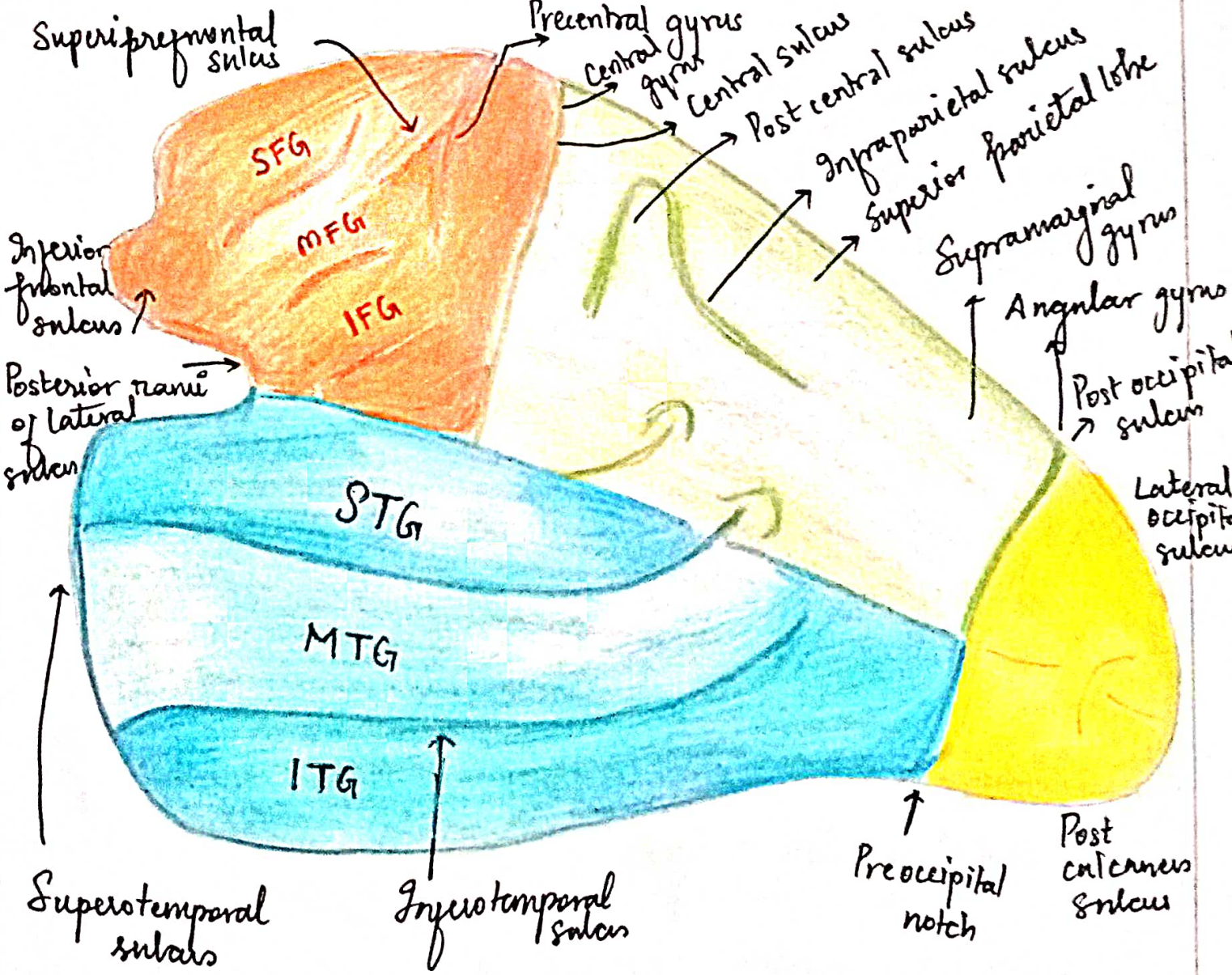
POSTERIOR CEREBELLAR ARTERY

⇐

C. INFERIOR SURFACE

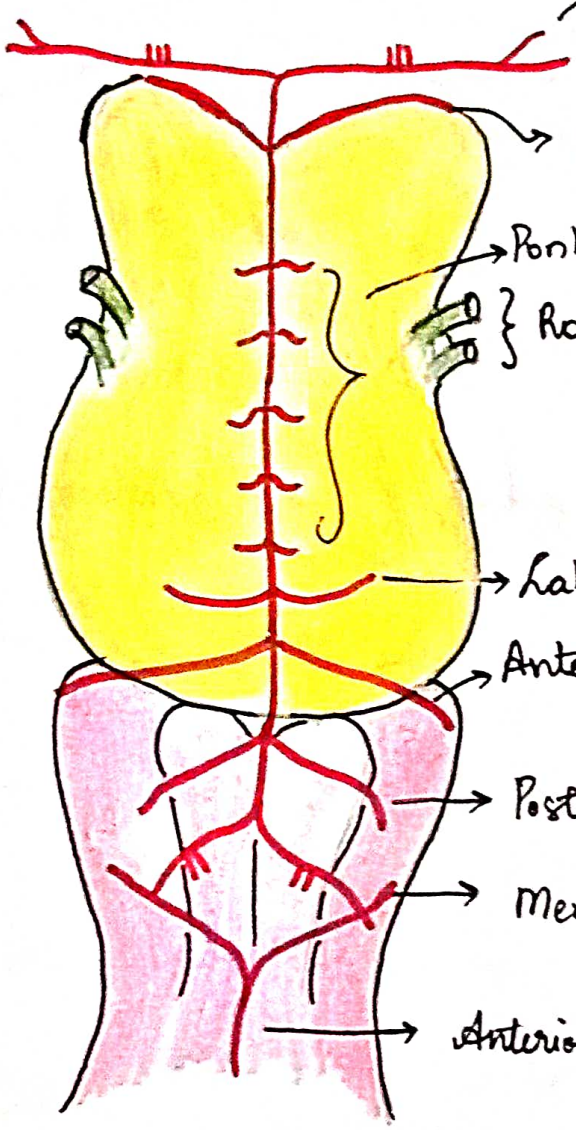


Sulci & Gyri of Superid-lateral Surface of Brain



SFG: Superior frontal gyrus
MFG: Middle frontal gyrus
IFG: Inferior frontal gyrus
STG: Superior temporal gyrus
MTG: Middle Temporal gyrus
ITG: Inferior temporal gyrus

Blood Supply Of Brain Stem



Pathway Of Direct And Consensual Light Reflex

Light to one eye

↓

Optic nerve

↓

Optic tract

↓

Pretectal Nucleus

↓

Edinger Westphal nucleus

↓

Oculomotor nerve

↓

Ciliary Ganglion

↓

Sphincter Pupillae

↓

Pupillary Contraction of same eye

Edinger Westphal Nucleus

↓

Oculomotor nerve

↓

Ciliary Ganglion

↓

Sphincter Pupillae

↓

Pupillary Contraction of other eye

ACCOMODATION REFLEX

Rods & Cones → Visual Cortex

↓

Frontal Eyelid or Cortex

↓

Midbrain

↓

Edinger Westphal Nucleus

↓

Ciliary Ganglion

↓

Short Ciliary Nerve

↙ ↘

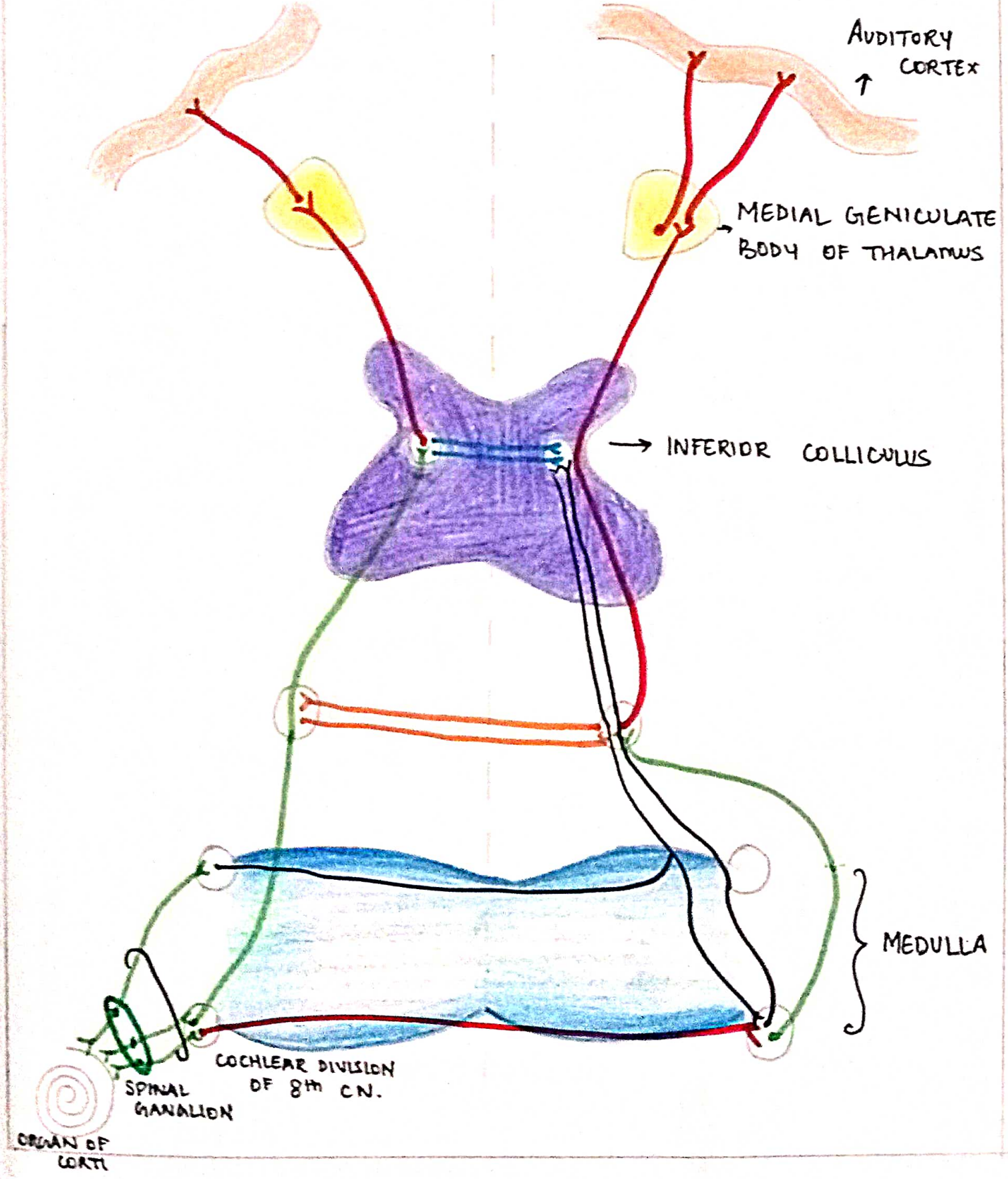
Sphincter pupillae → Constriction of Pupil

Ciliary Muscle → Relaxation of Suspensory Ligament

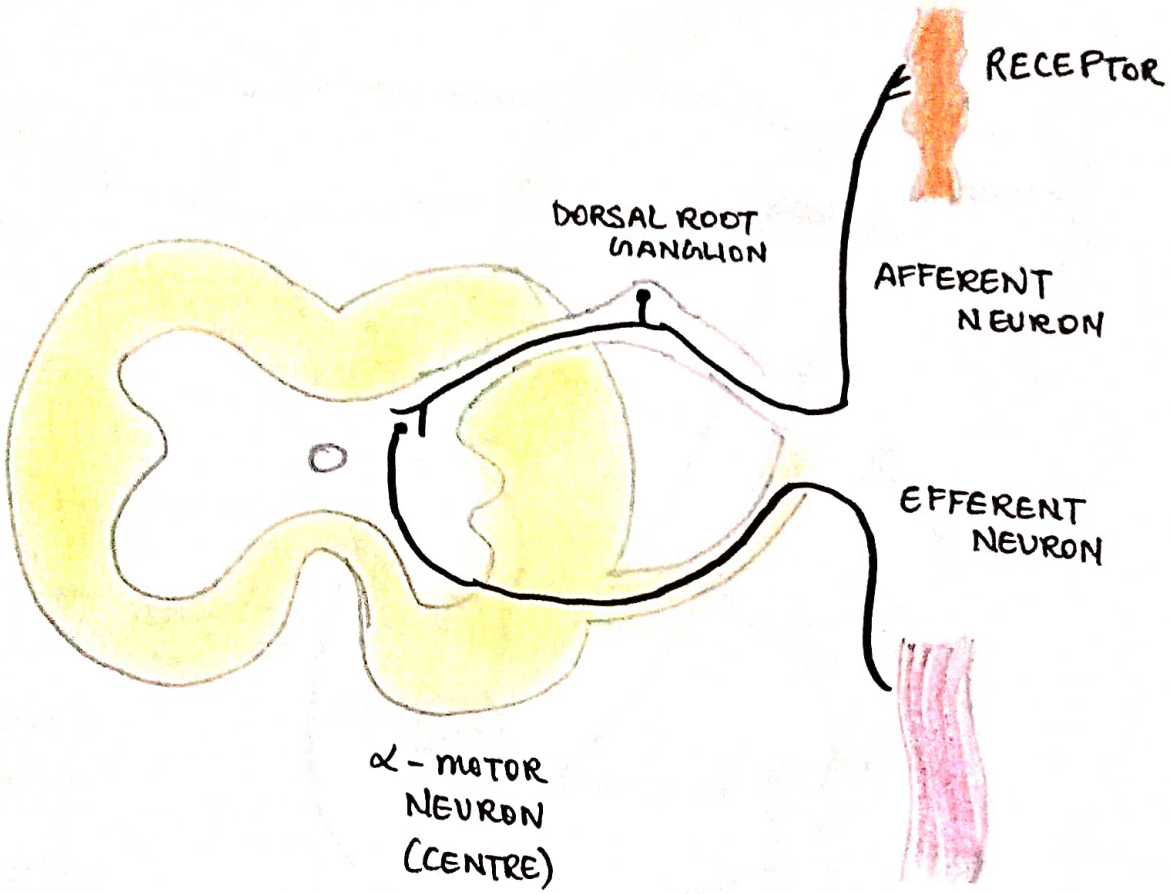
↓

Increase in anterior curvature of lens

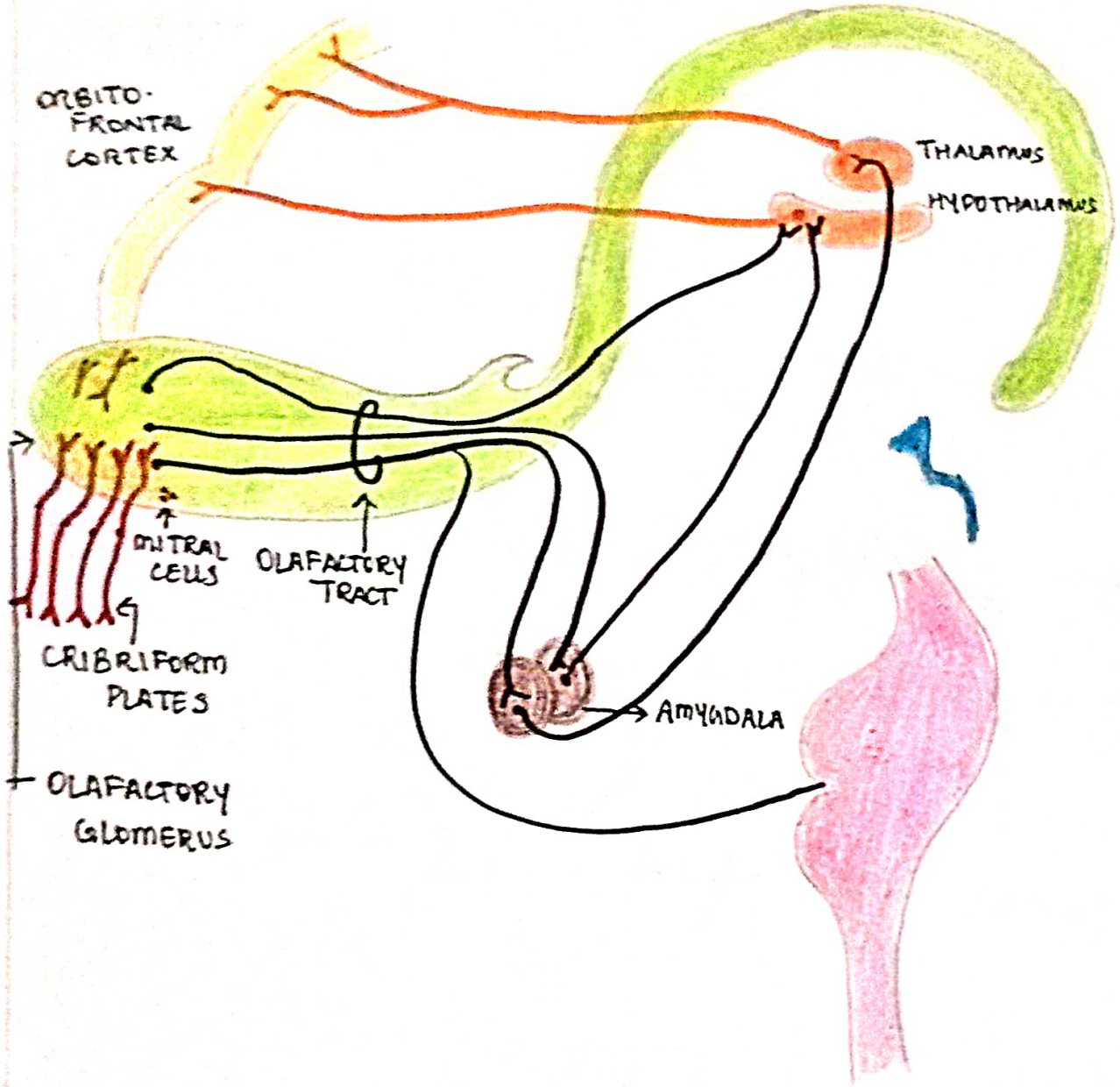
Auditory Pathway



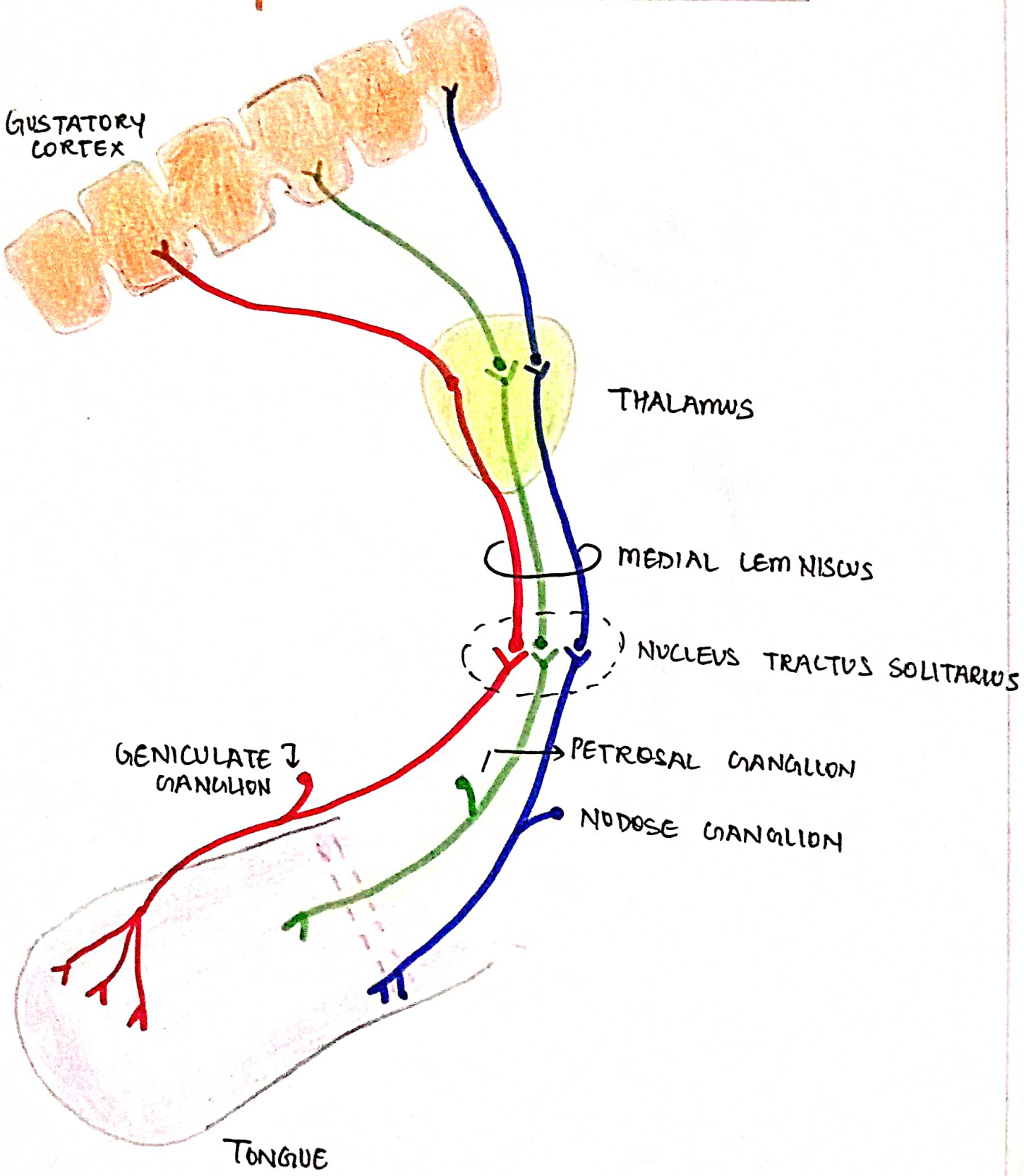
Spinal Reflex Arc



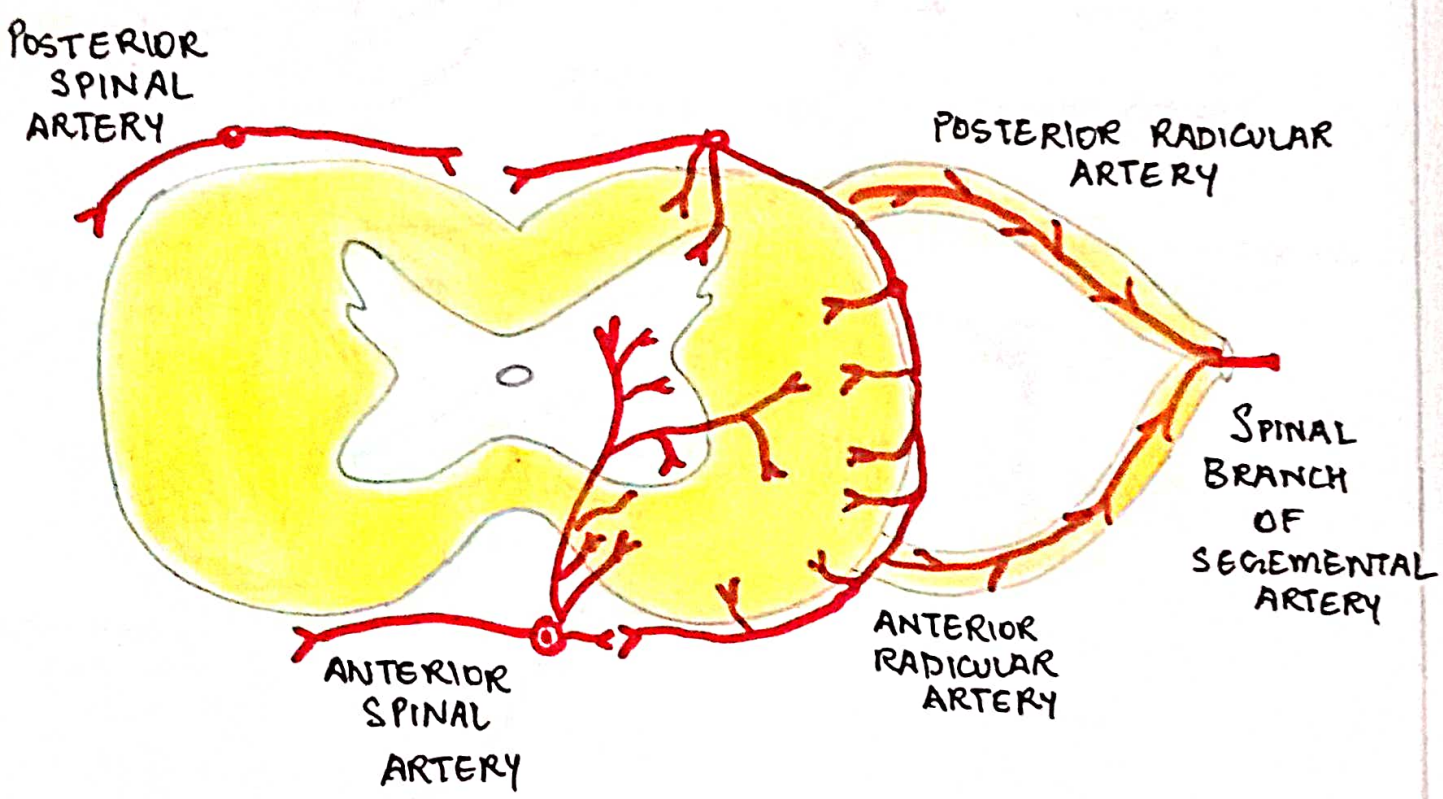
Olfactory Pathway



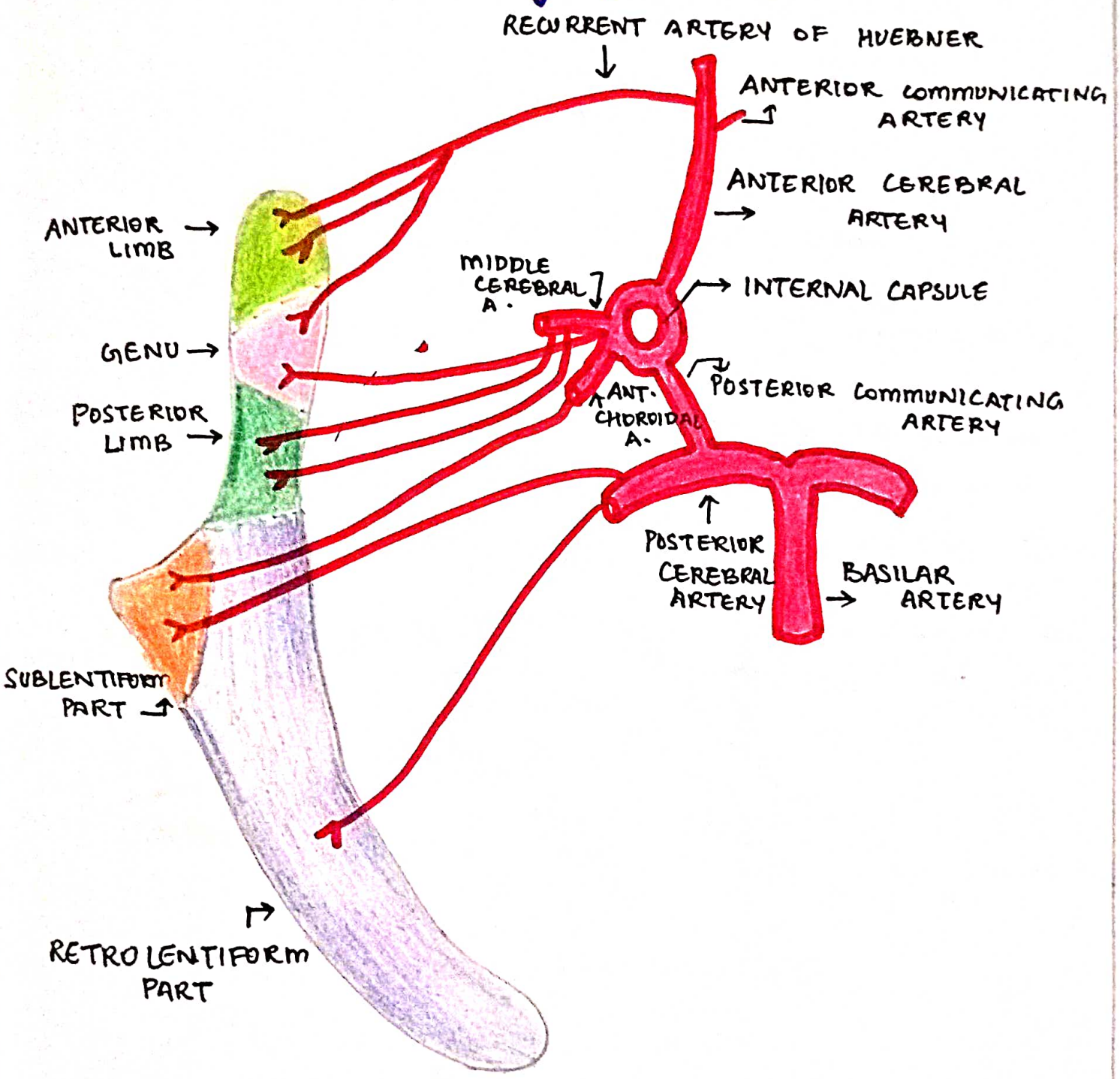
Gustatory Pathway



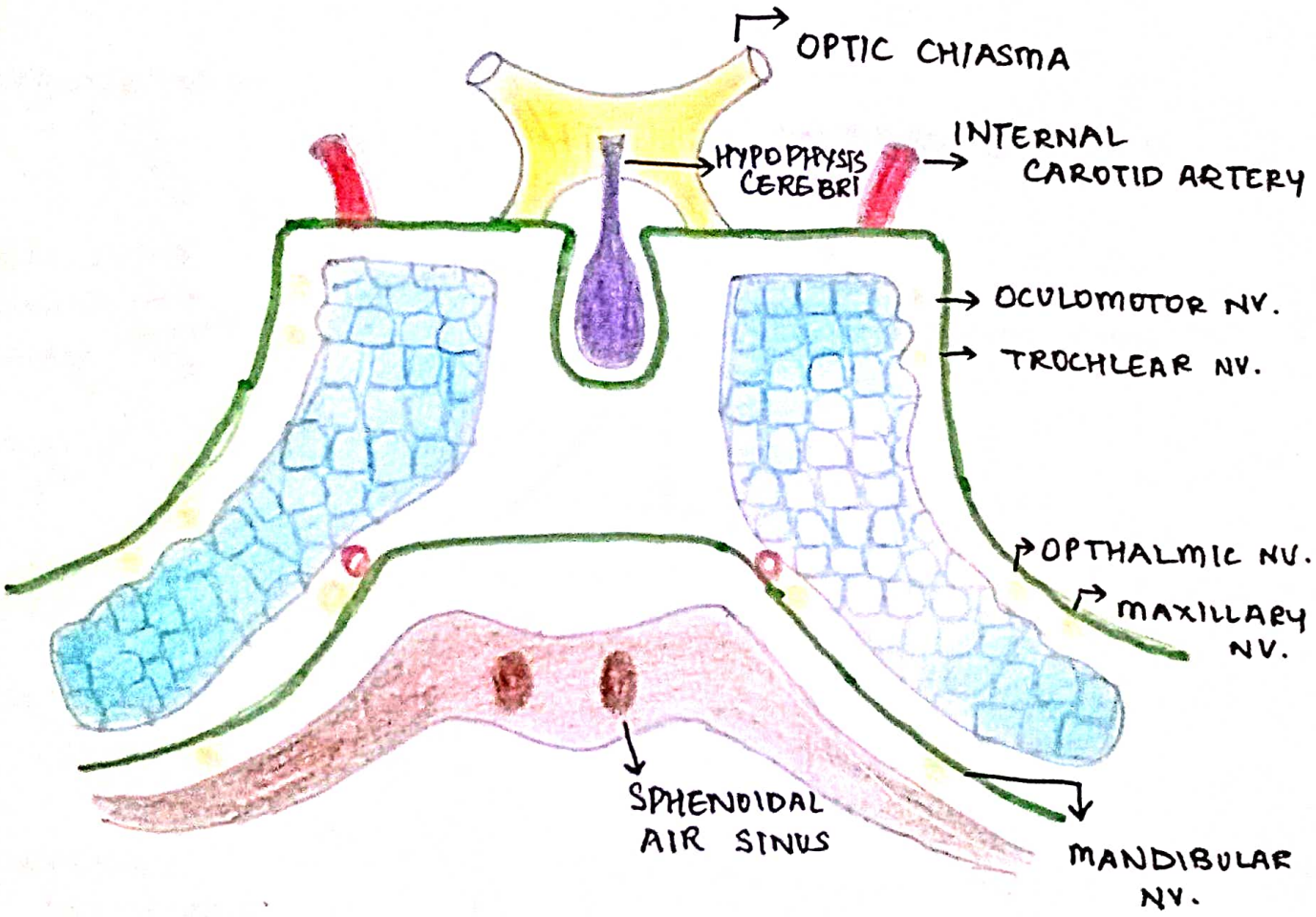
C.S of Spinal Cord - Arterial Supply



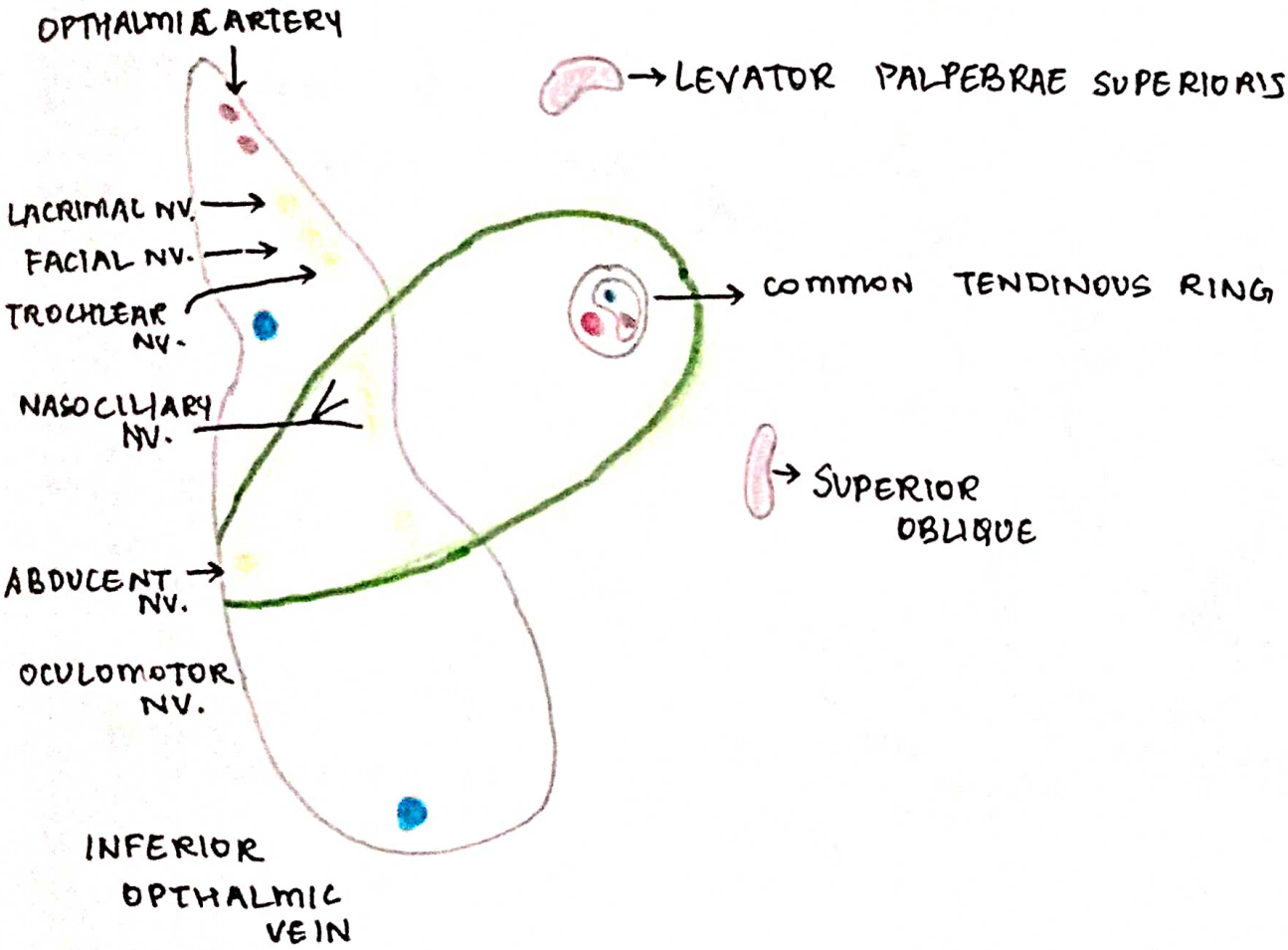
Arterial Supply Of Internal Capsule



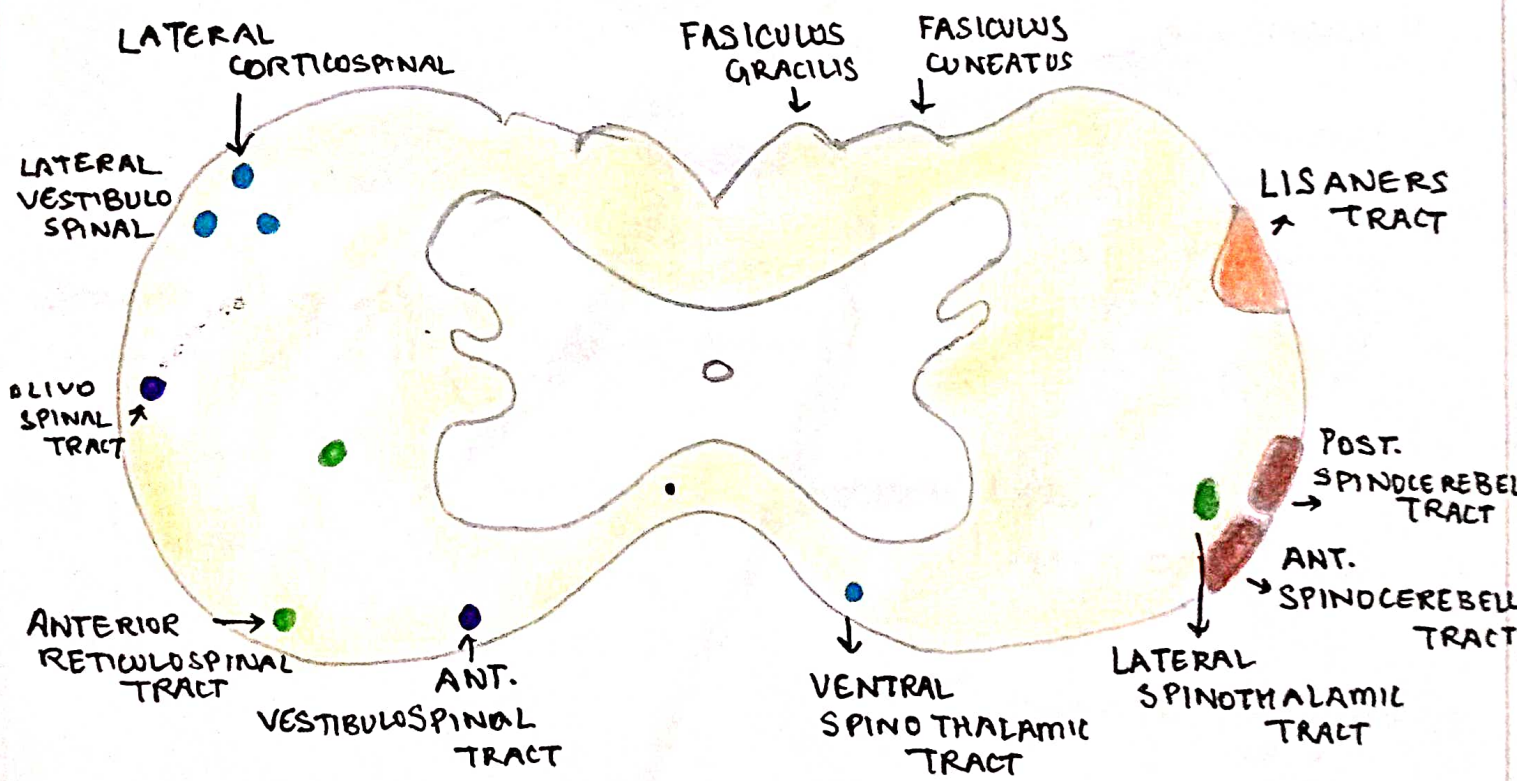
Structures In Cavernous Sinus



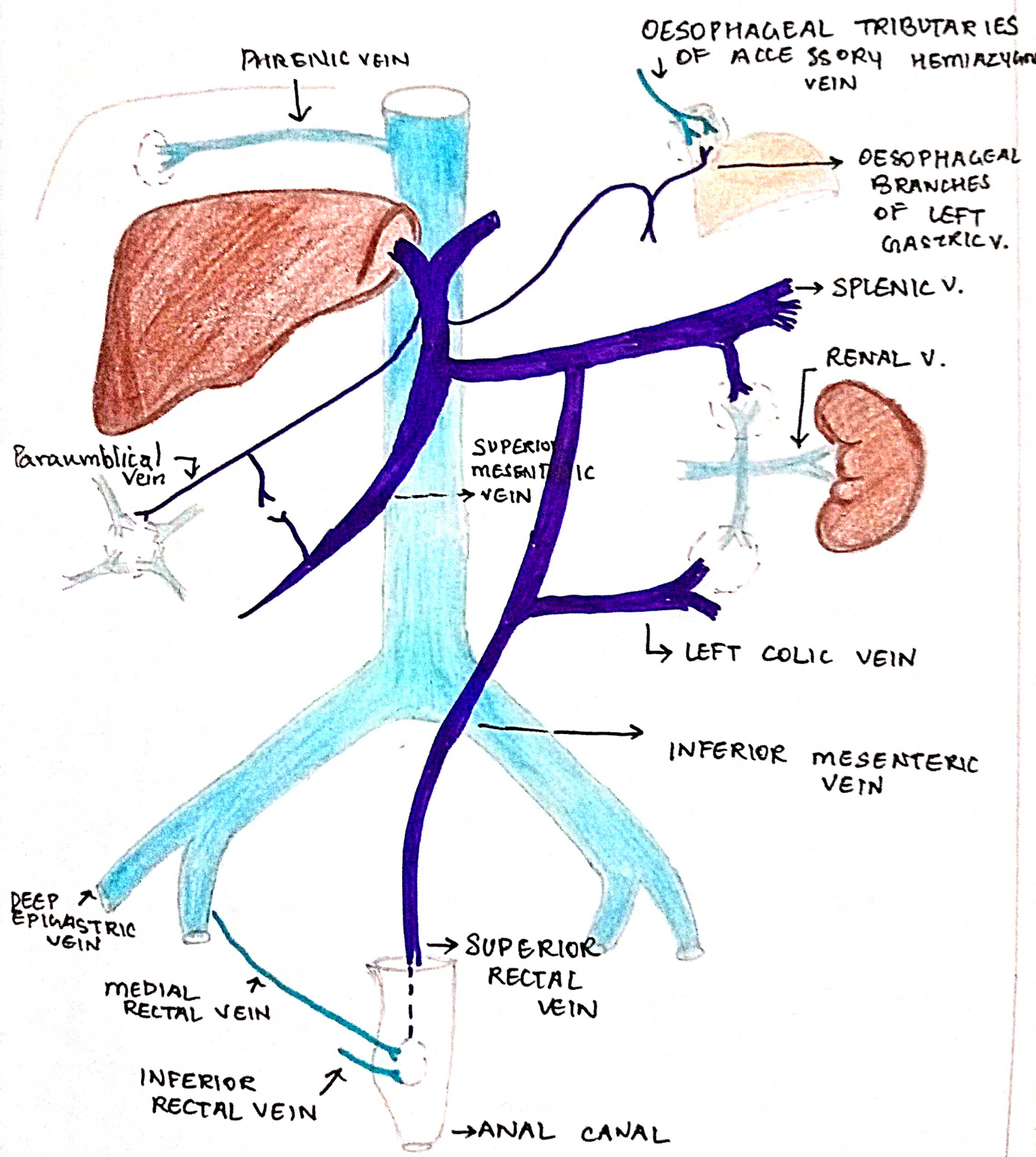
Structures In Superior Orbital Fissure



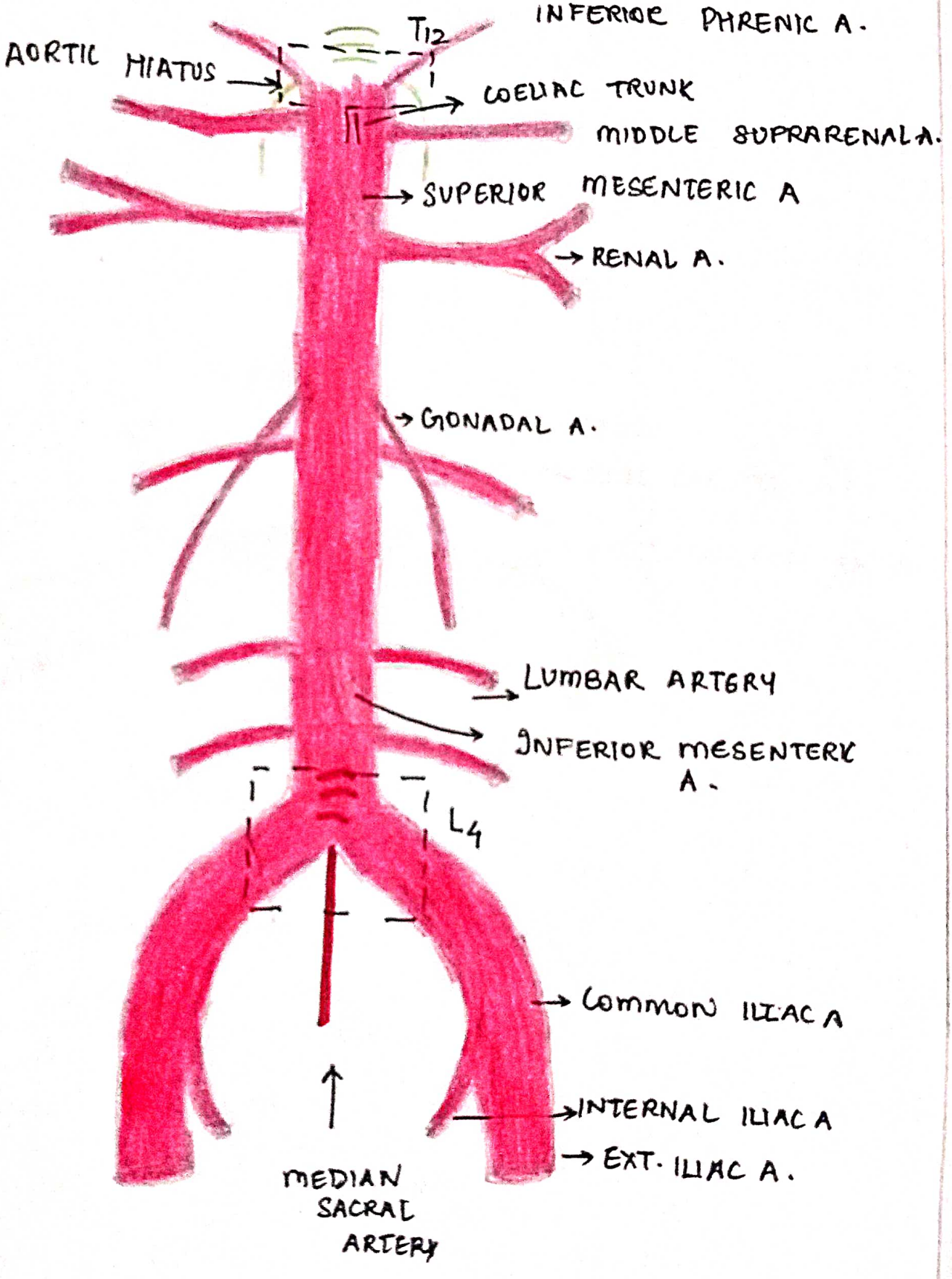
CROSS SECTION OF SPINAL CORD TO SHOW TRACTS



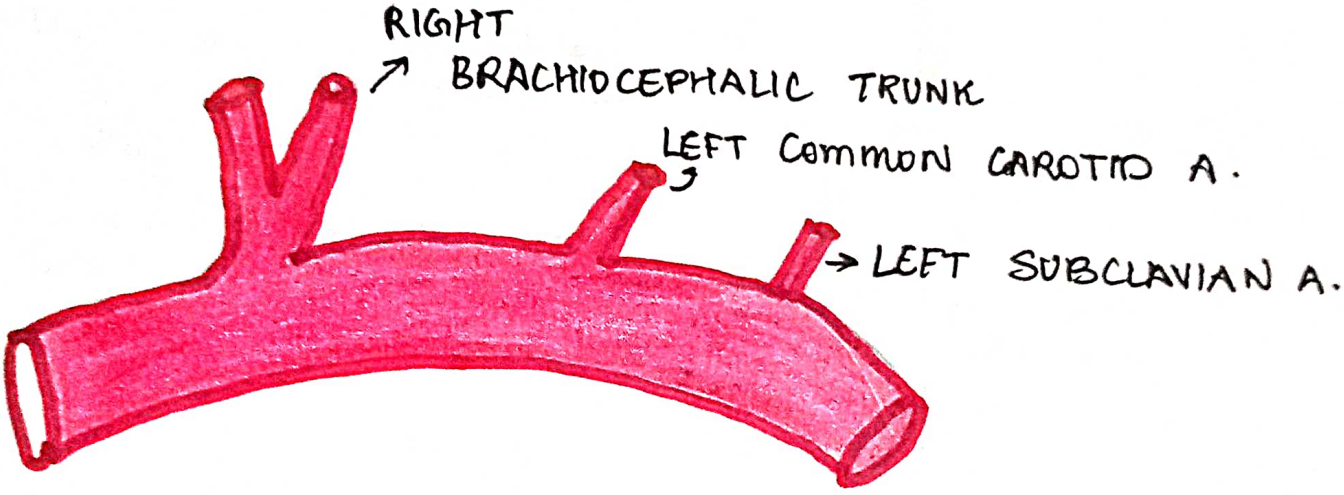
Splanchnic Portal System



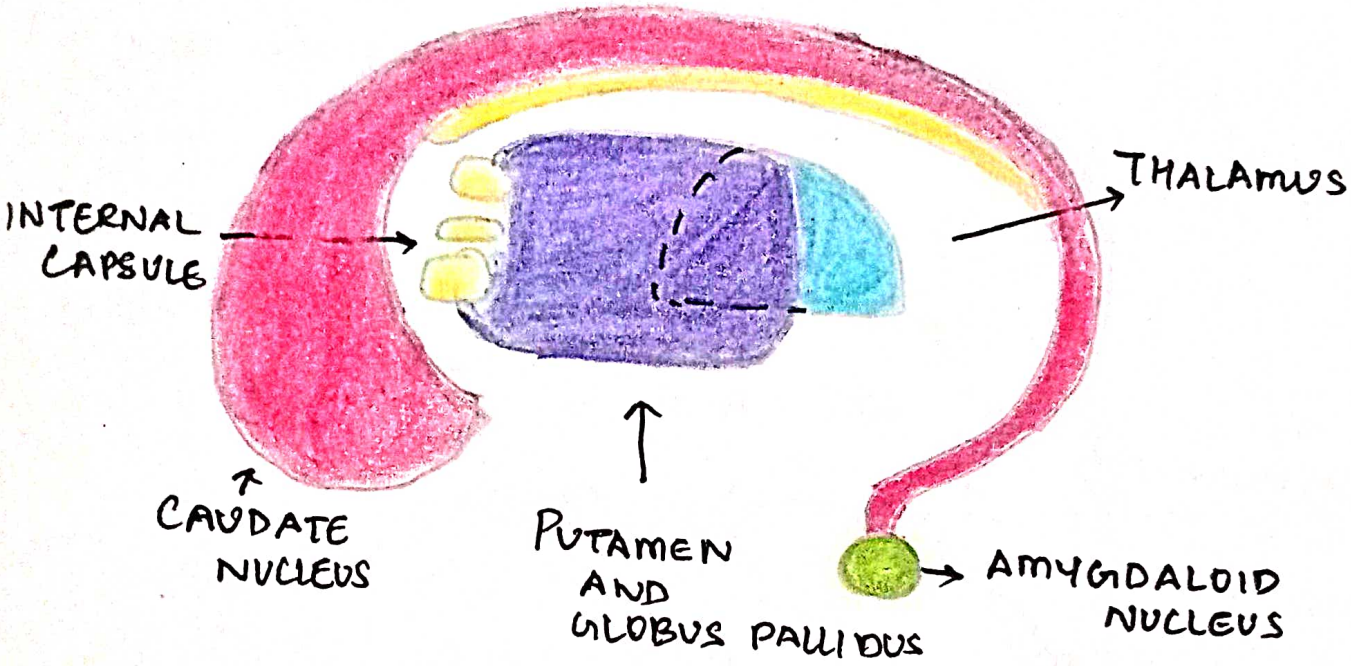
BRANCHES OF ABDOMINAL AORTA

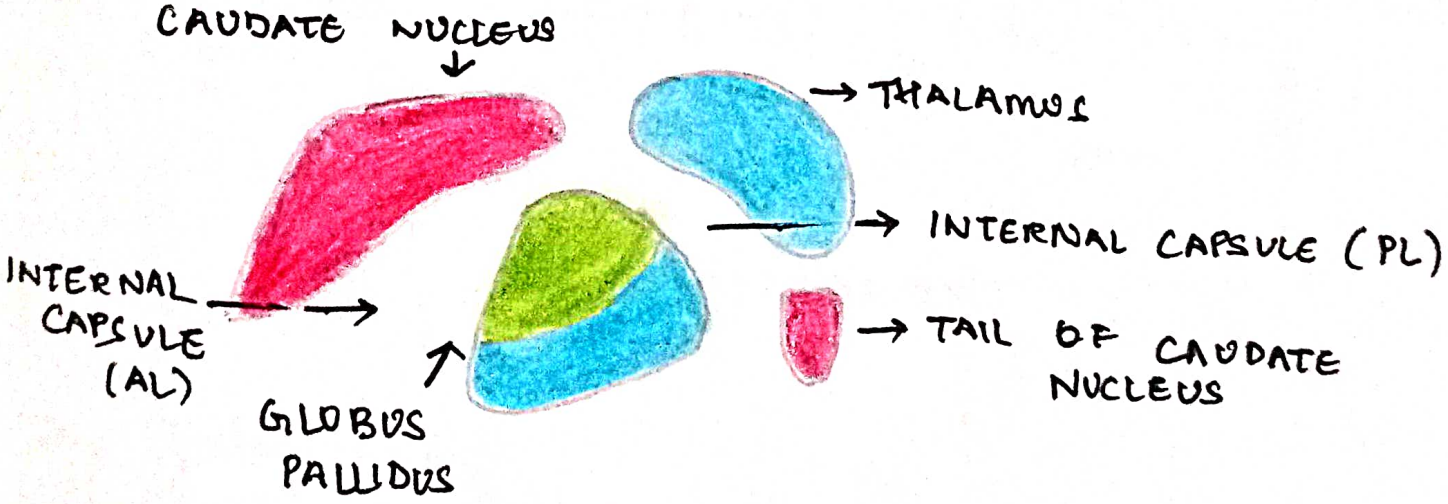


BRANCHES OF ARCH OF AORTA



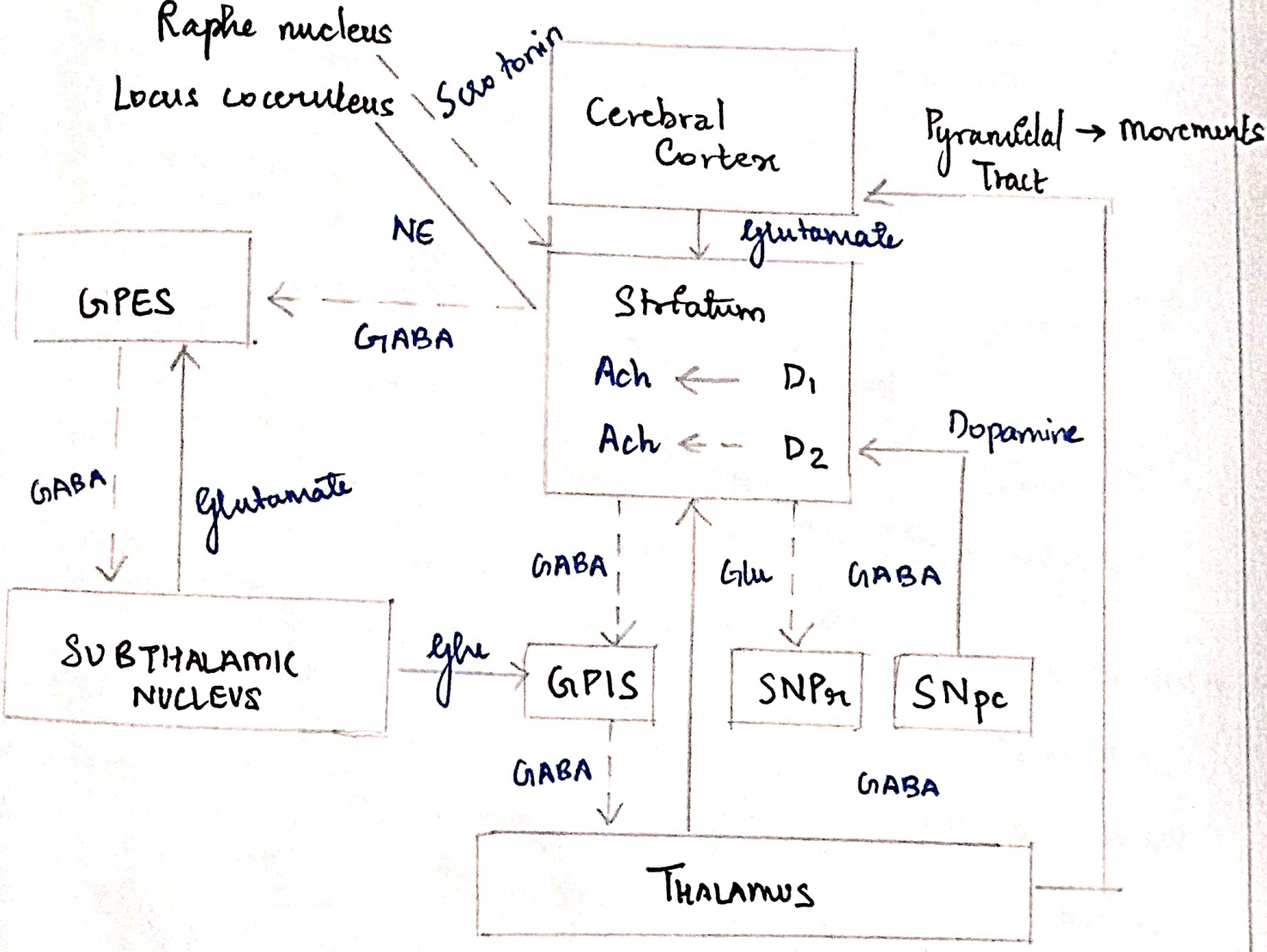
Basal Ganglia and Principle Connections of Basal Ganglia





CONNECTIONS - (Showing the neurotransmitters involved)

- Dashed line indicate inhibitory pathways.



Glu - Glutamate
GPES - Globus Pallidus External segement
GPIS - Globus Pallidus Internal segement
SNpc - Substantia nigra pars compacta
SNpr - Substantia nigra pars reticularis
Ach - Acetylcholine
NE - Norepinephrine
D - Dopamine Receptor

FACIAL NERVE AND IT'S COURSE

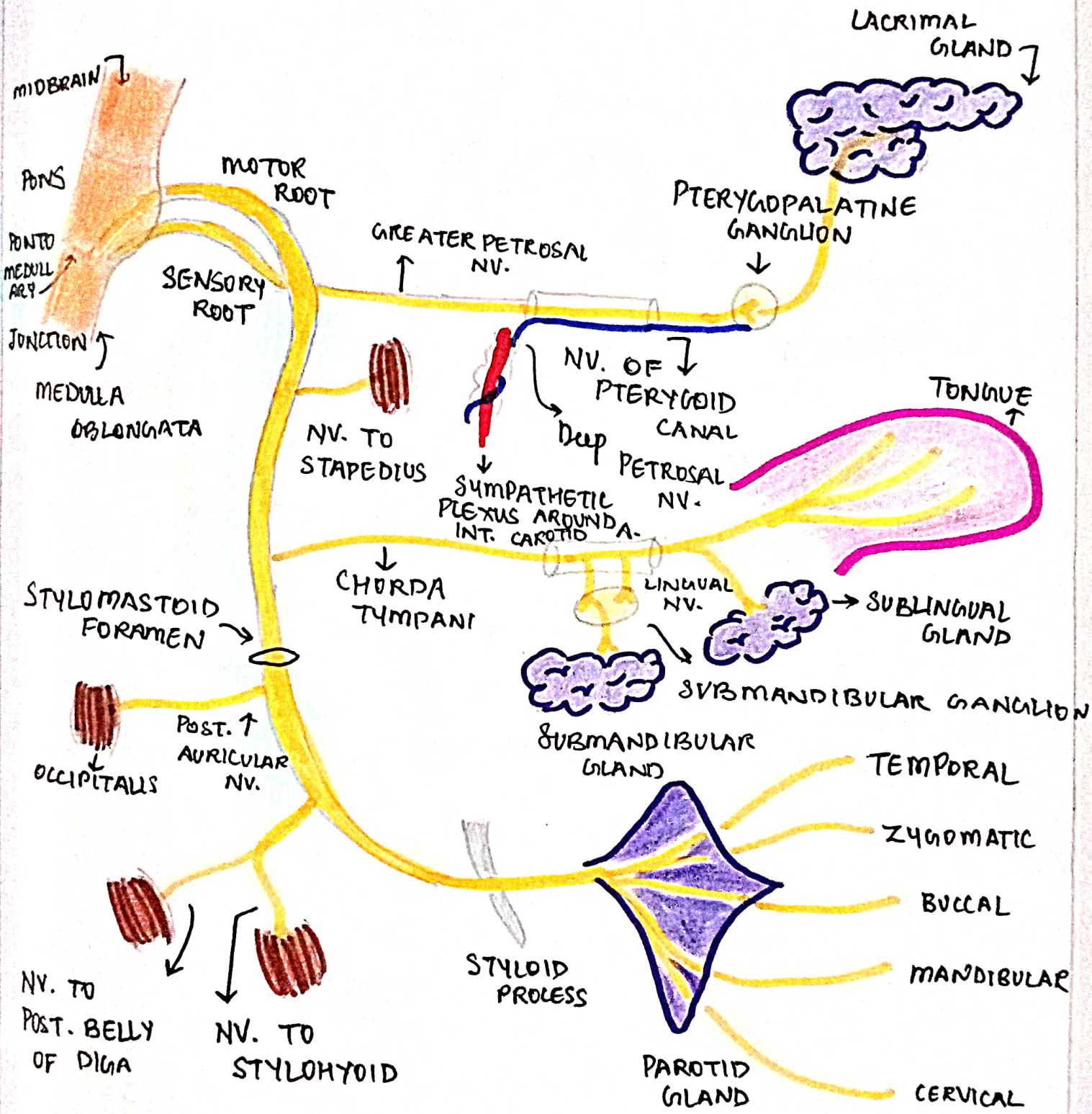
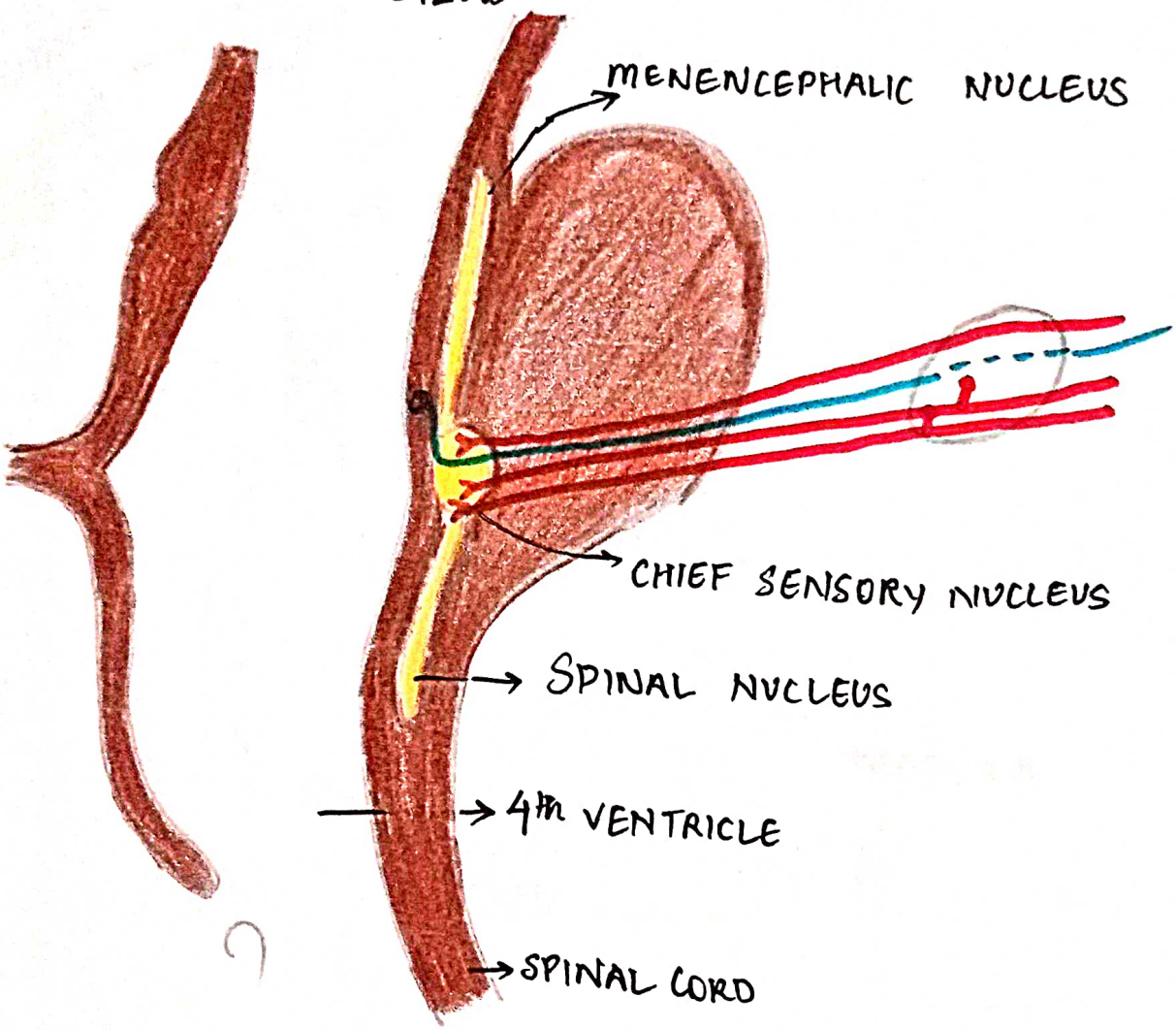
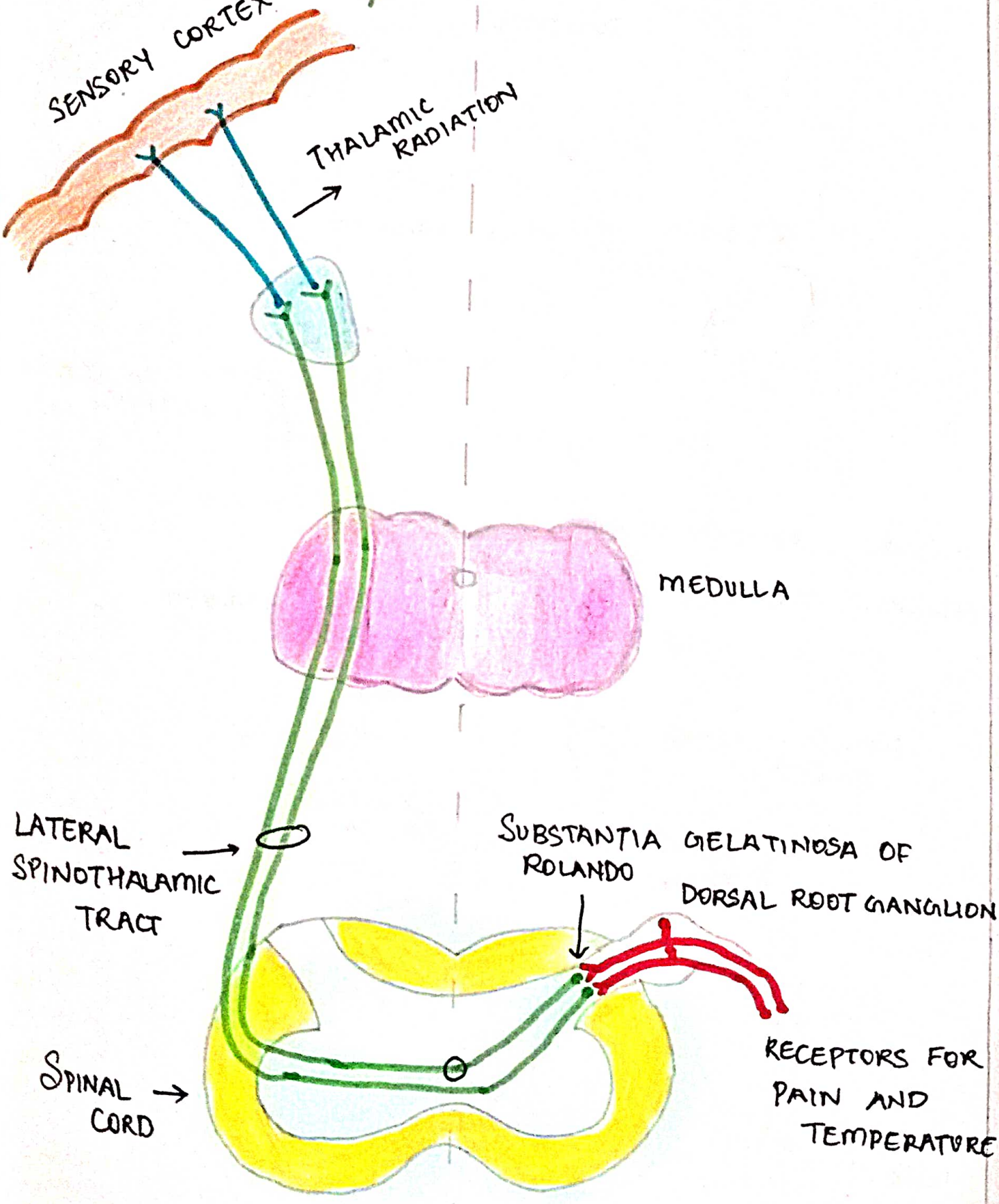


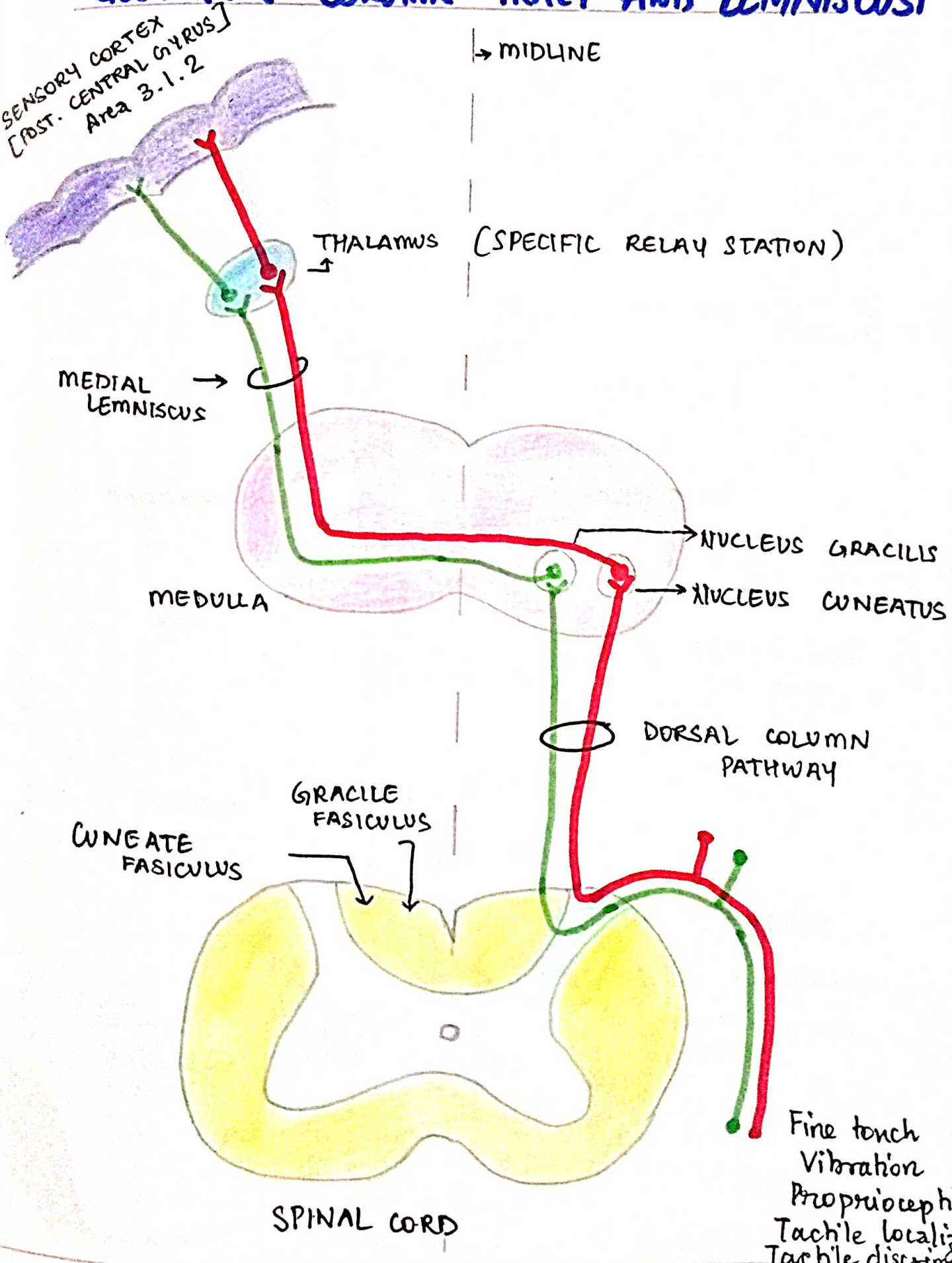
Diagram showing nucleus of trigeminal nerve



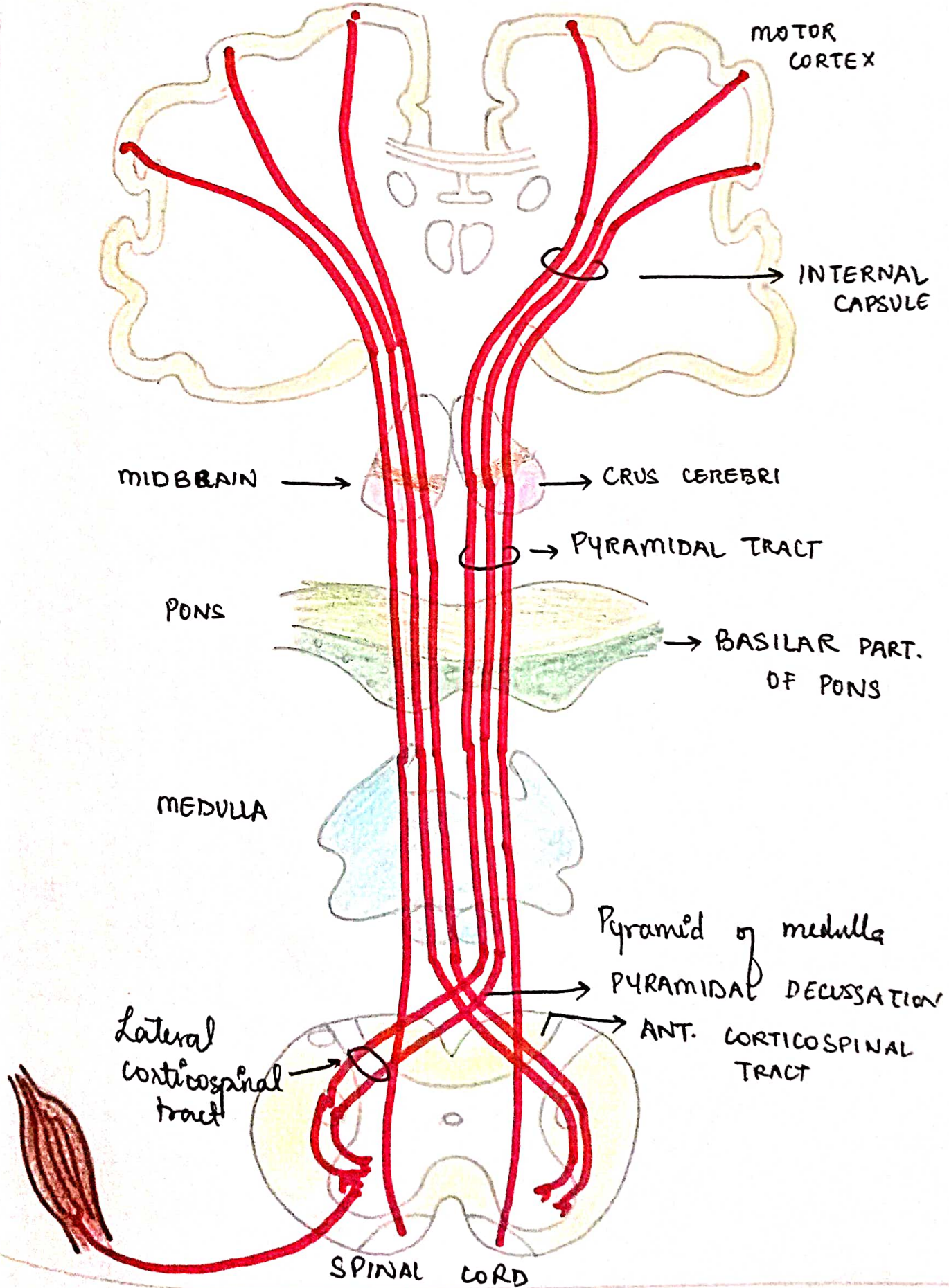
Lateral Spinothalamic Tract



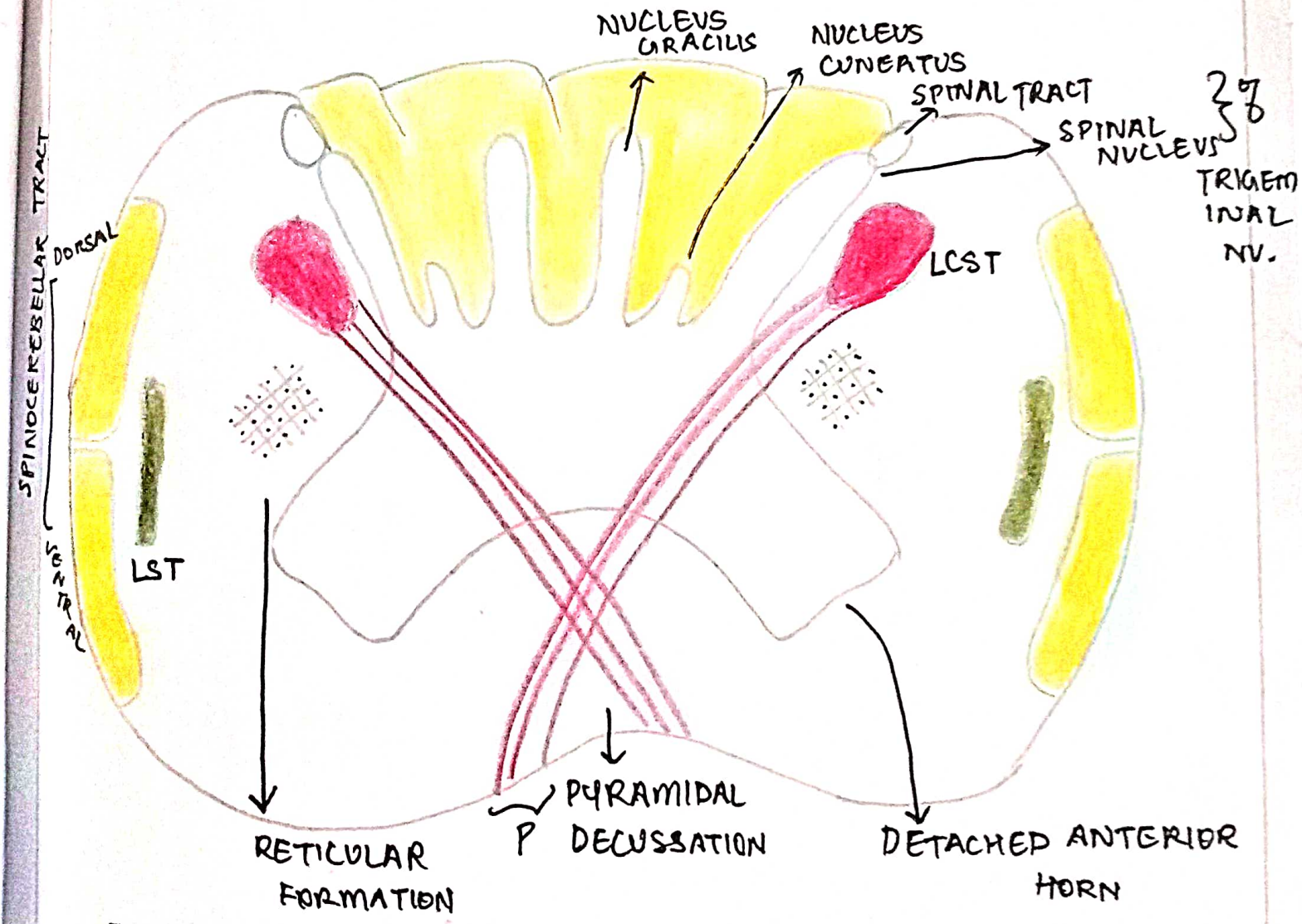
Posterior Column Tract and Lemniscusi



Pyramidal Tract And Pyramidal Decussation



CROSS-SECTION OF MEDULLA AT THE LEVEL OF PYRAMIDAL DECUSSATION



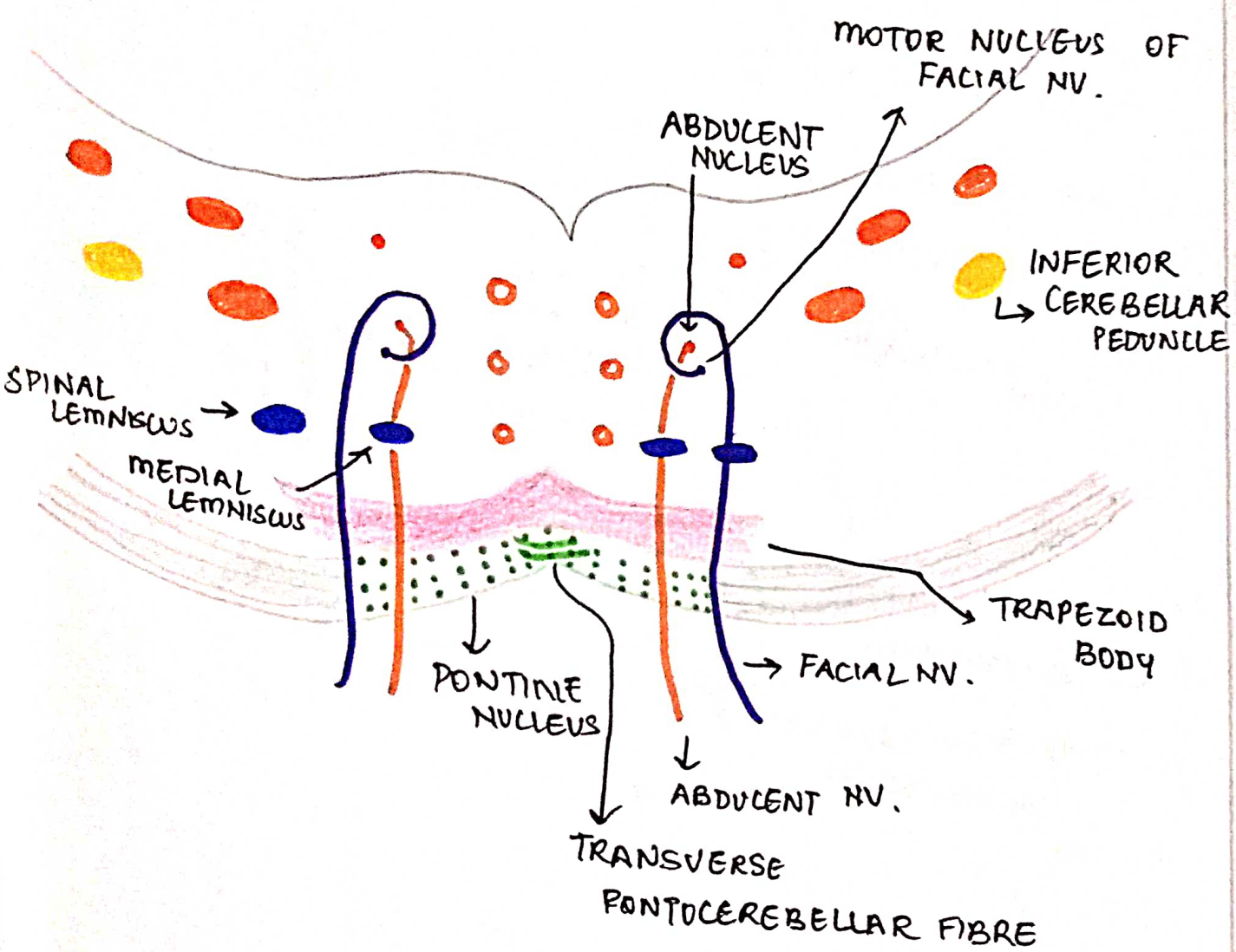
P. Pyramid

LST - Lateral Spinothalamic Tract

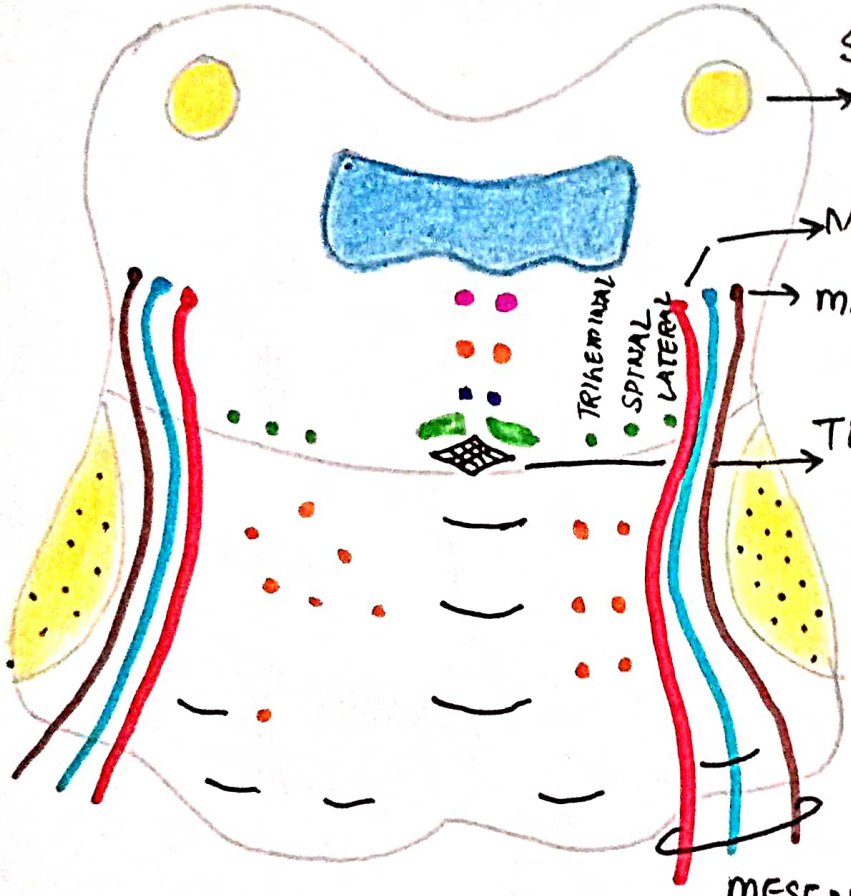
LCST - Lateral Corticospinal Tract

TN - Trigeminal Nv.

CROSS - SECTION OF LOWER PART OF PONS



CROSS - SECTION OF UPPER PONS



SUPERIOR MEDULLARY PEDUNCLE

MOTOR NUCLEUS

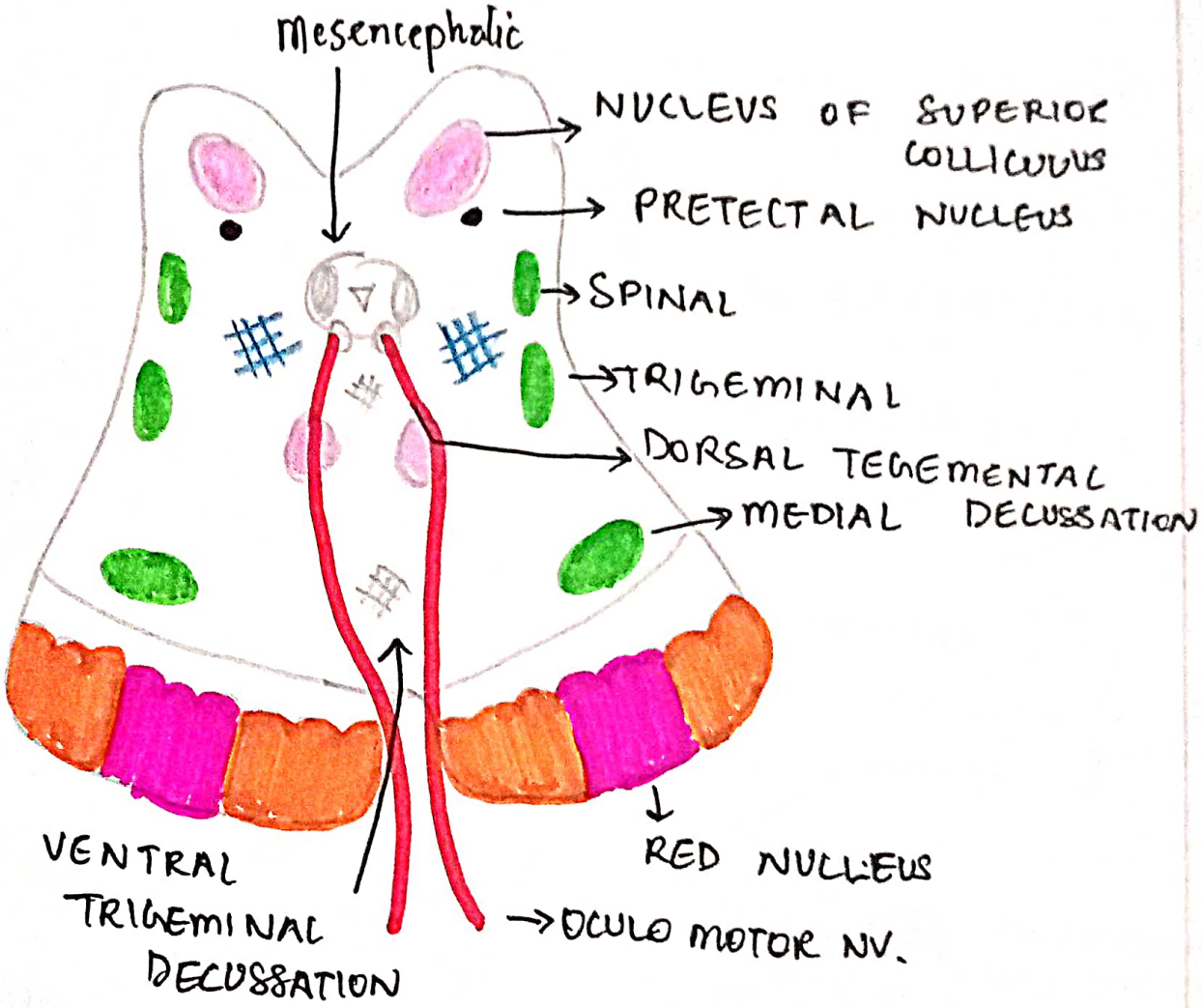
MAIN SENSORY NUCLEUS

TRAPEZOID BODY

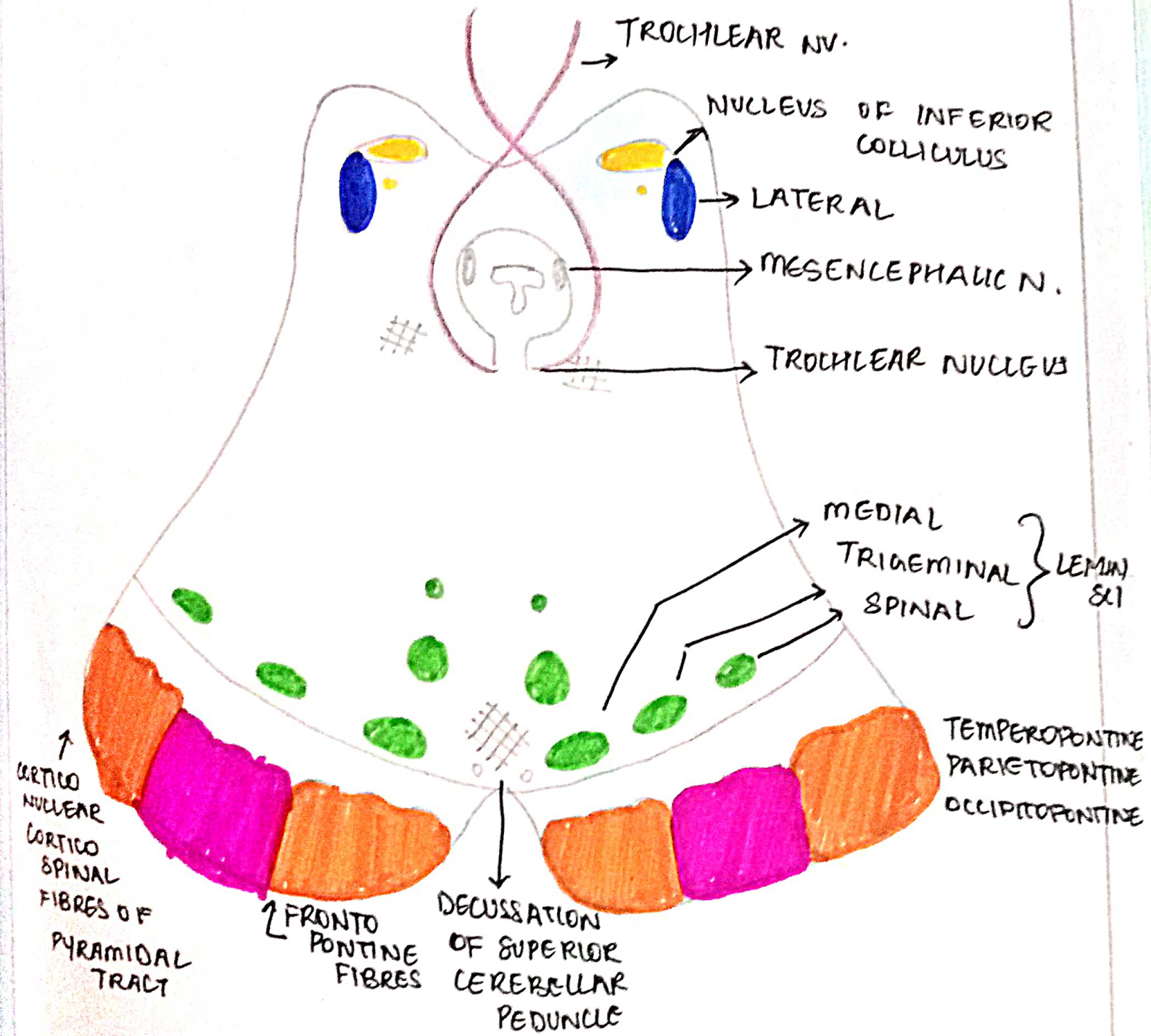
TRIGEMINAL NV.

MESENCEPHALIC TRACT OF TRIGEMINAL NUCLEUS

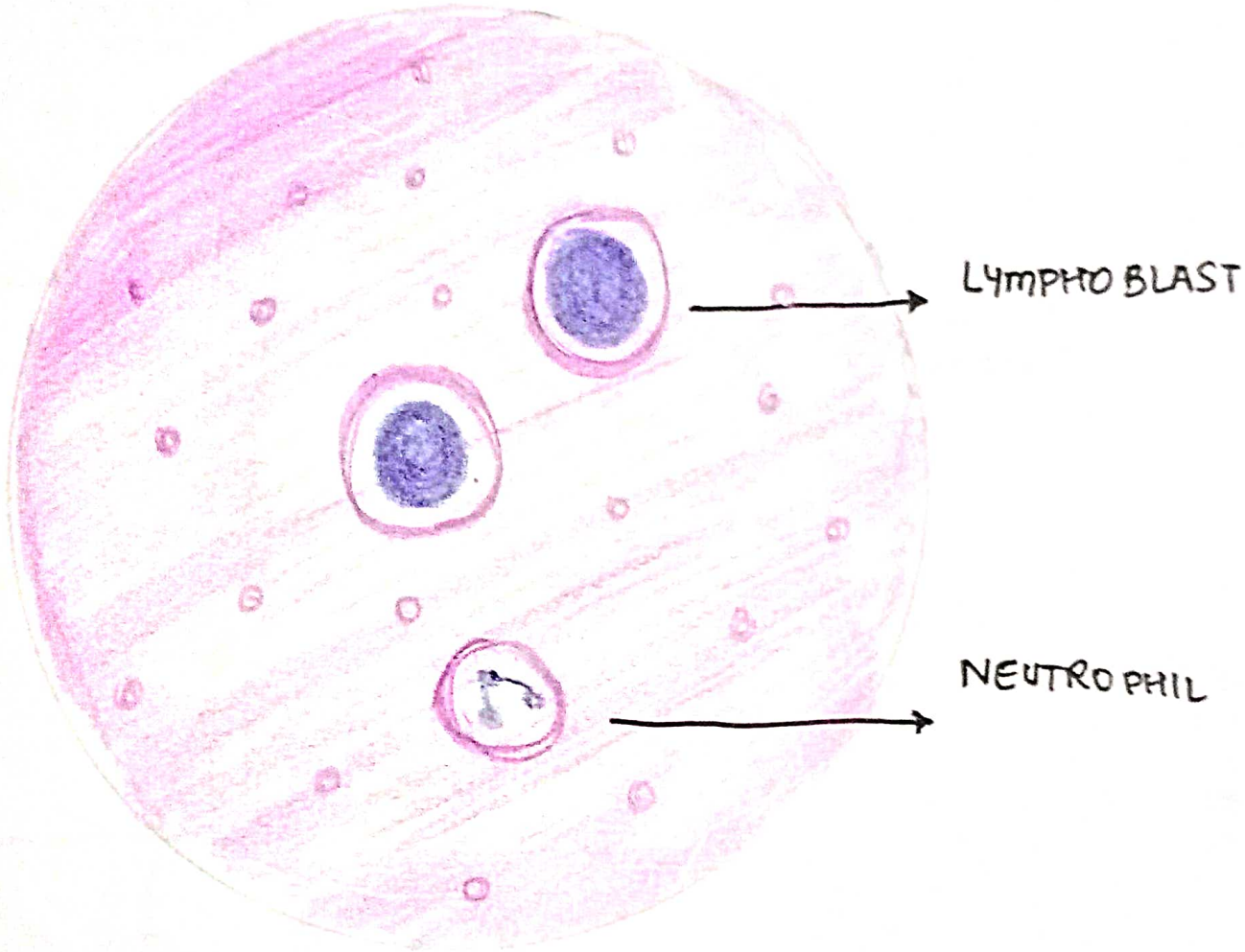
CROSS-SECTION OF MIDBRAIN OF SUPERIOR COLLICULUS



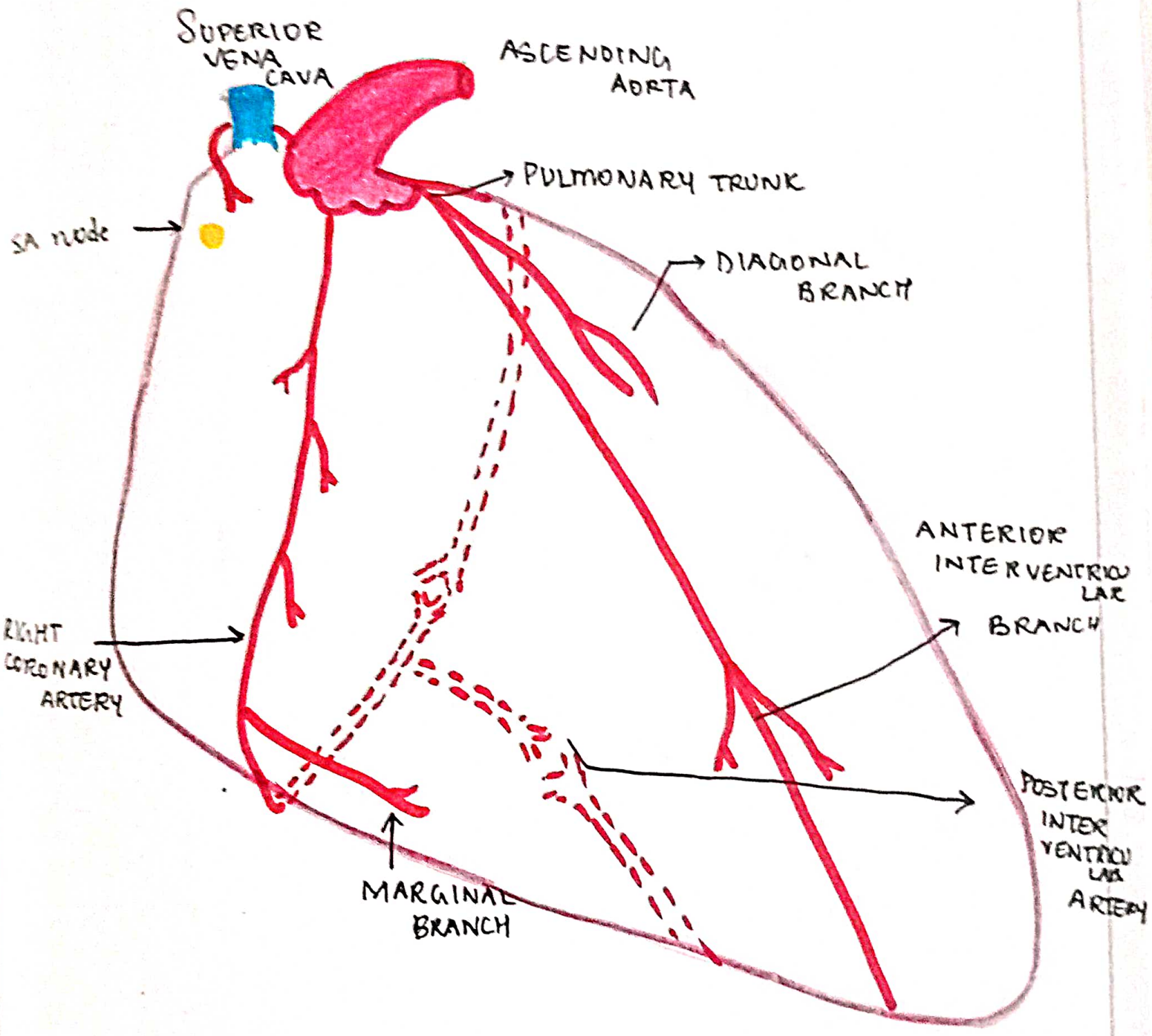
AT THE LEVEL OF INFERIOR COLLICULUS



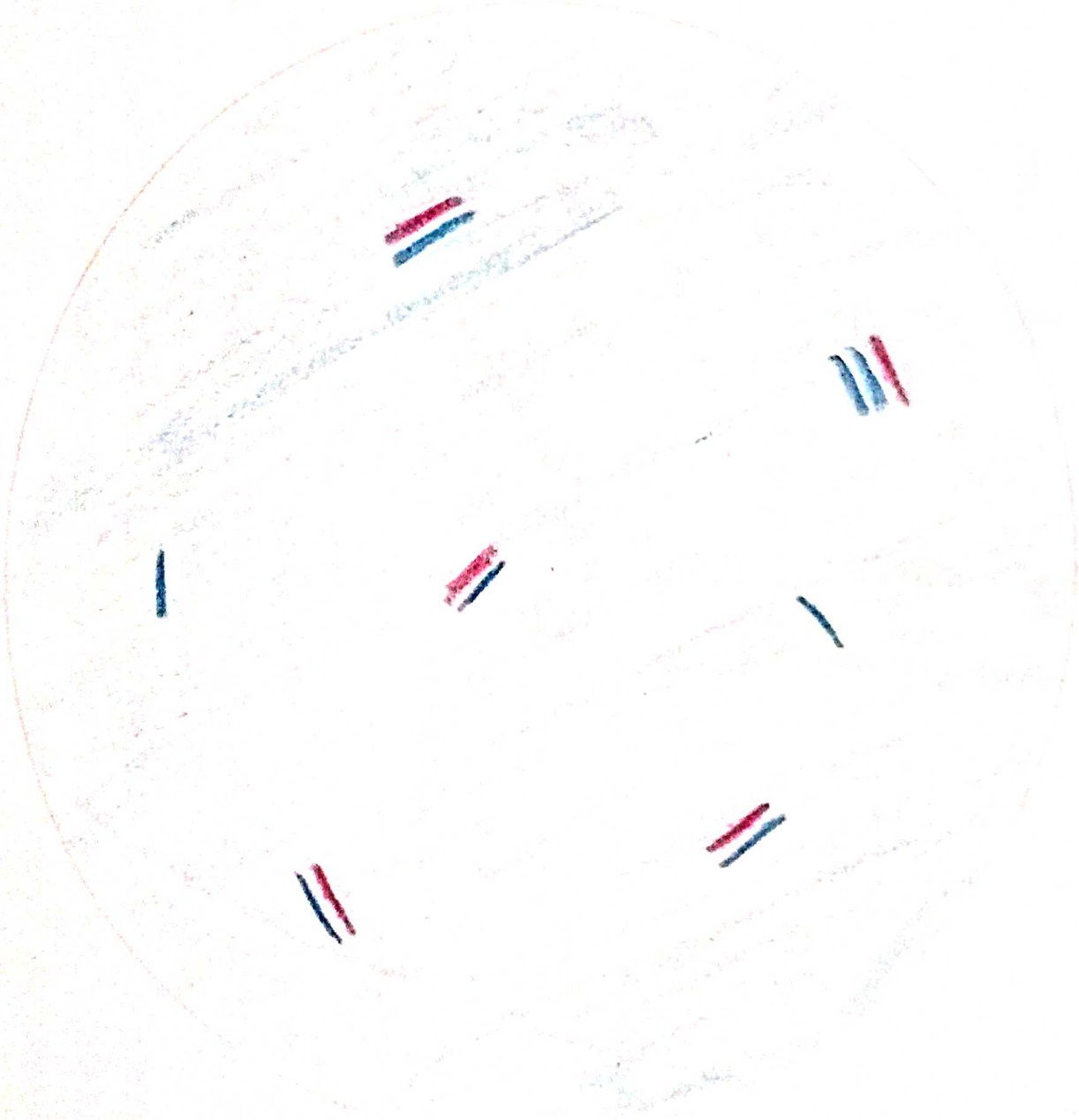
CHRONIC LYMPHOCYTIC LEUKEMIA



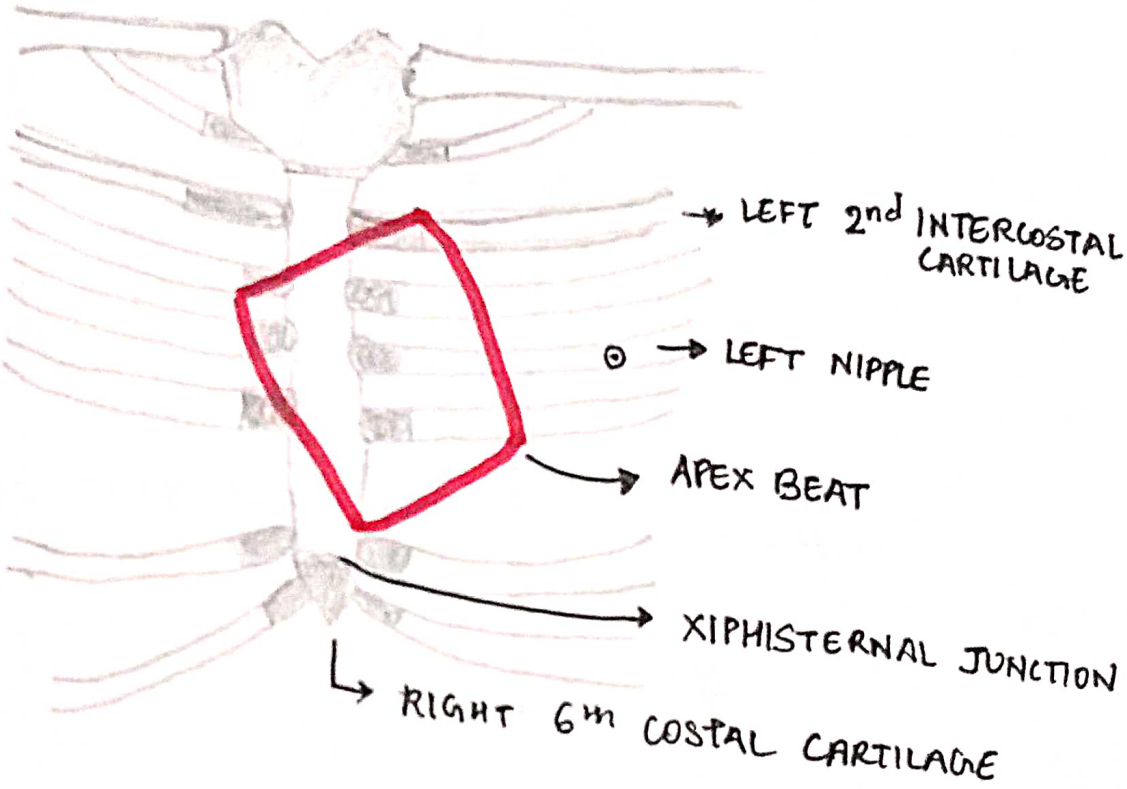
Coronary Circulation



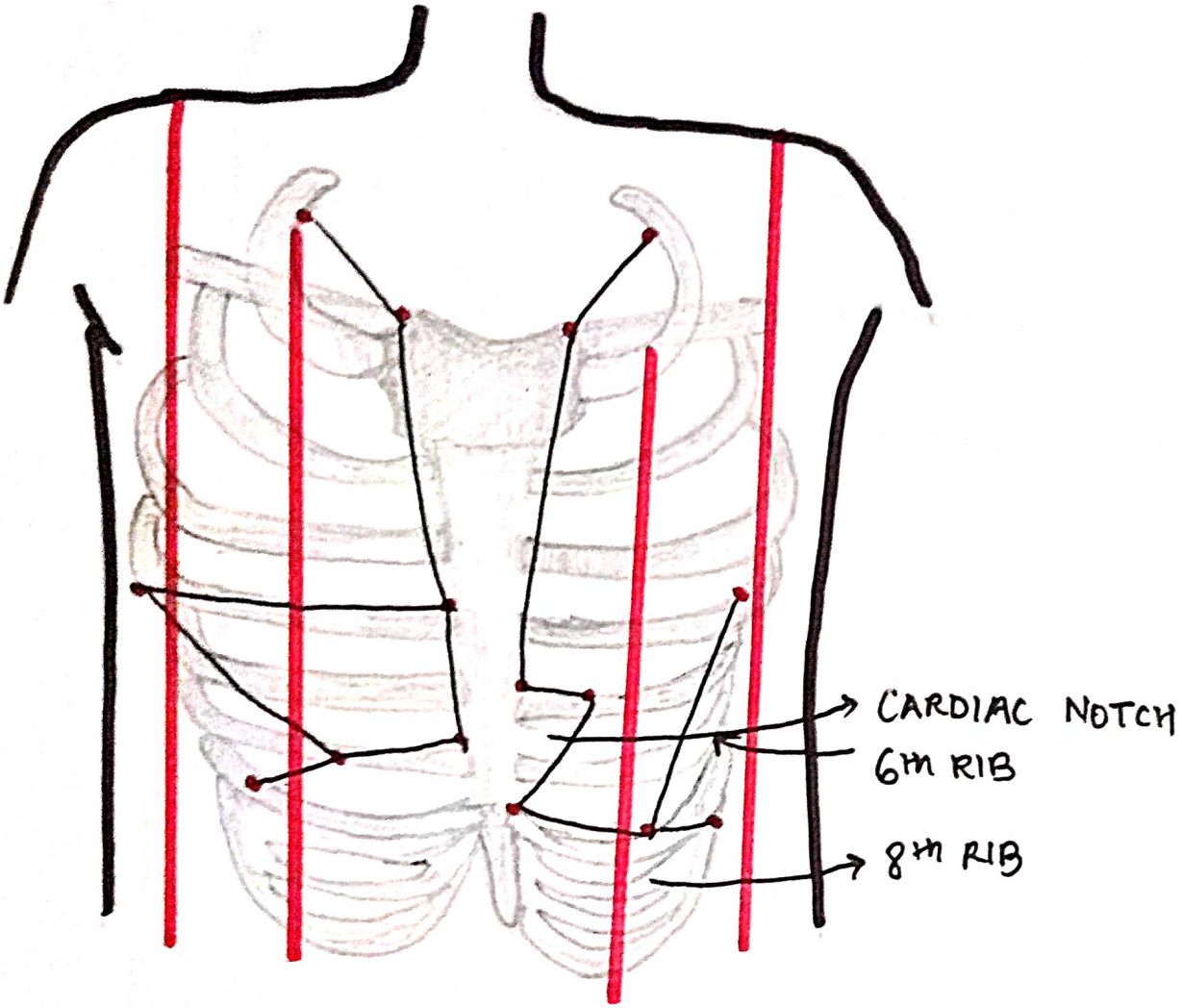
SPUTUM SMEAR OF ACID FAST STAIN SHOWING MYCOBACTERIUM TUBERCULOSIS



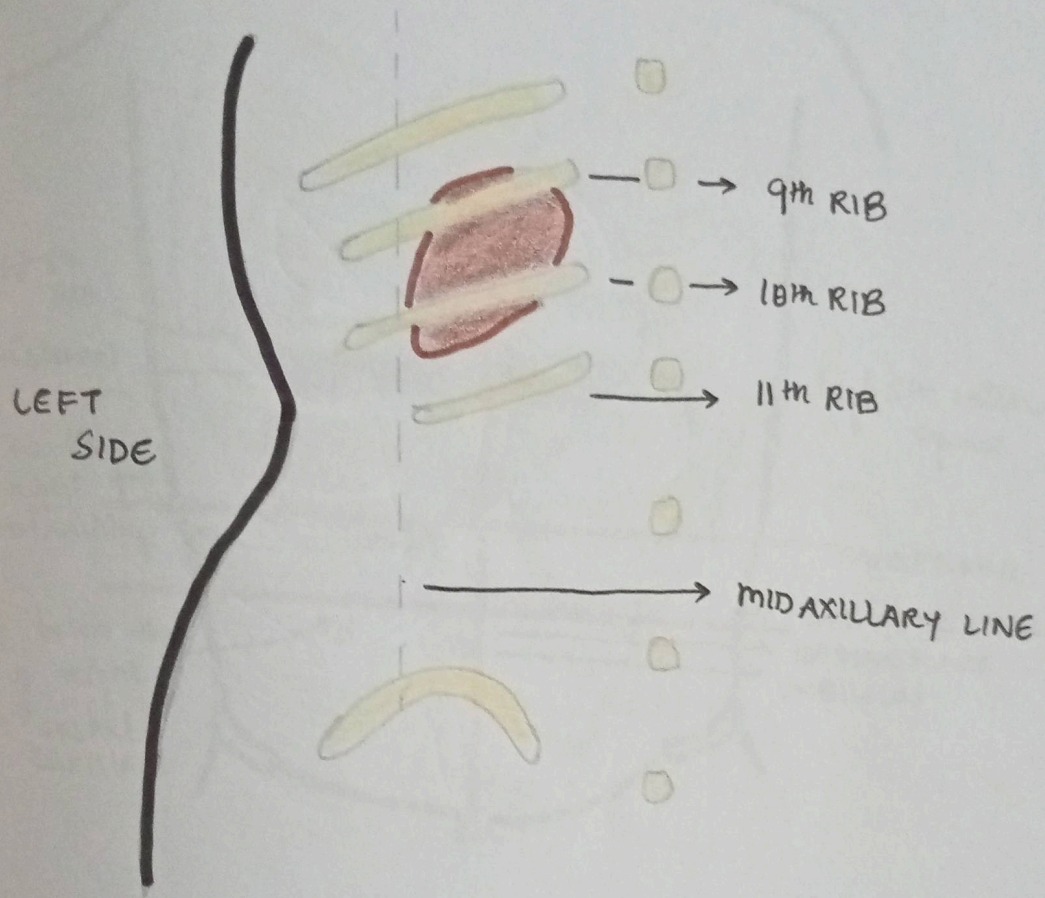
Surface Marking Of Heart



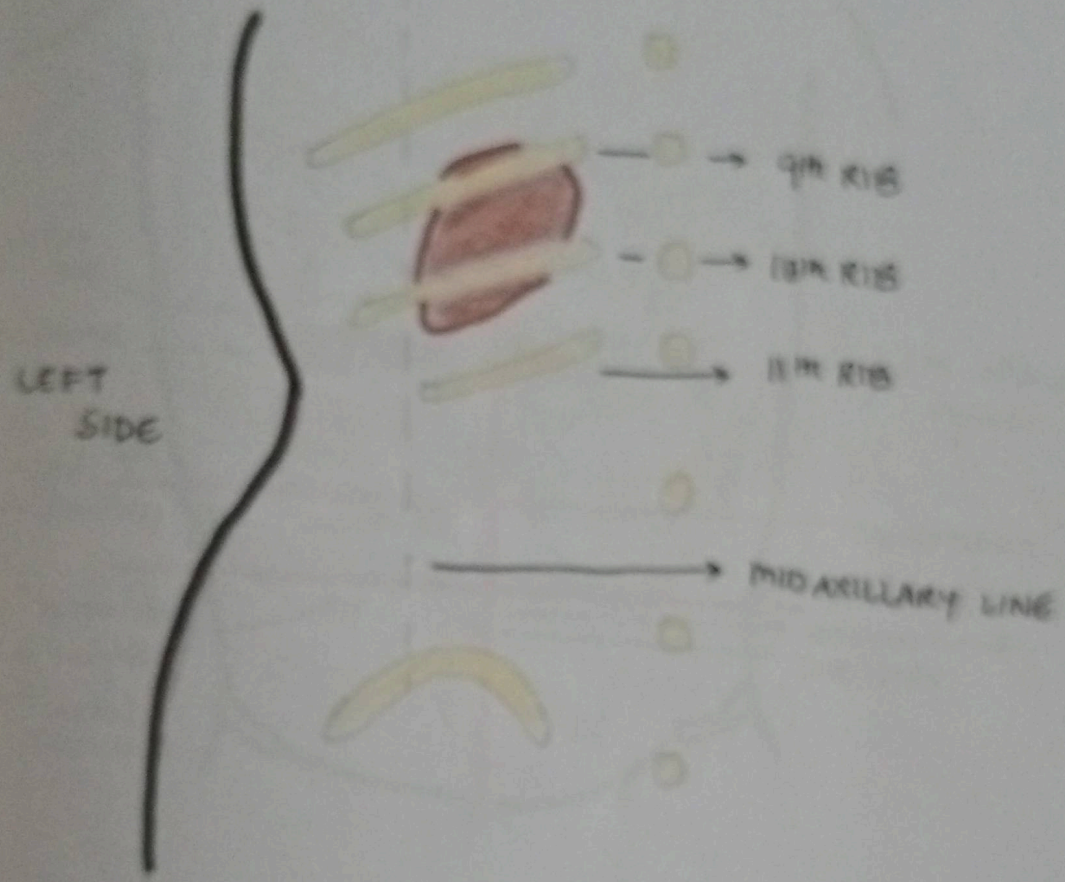
Surface Marking Of Lungs



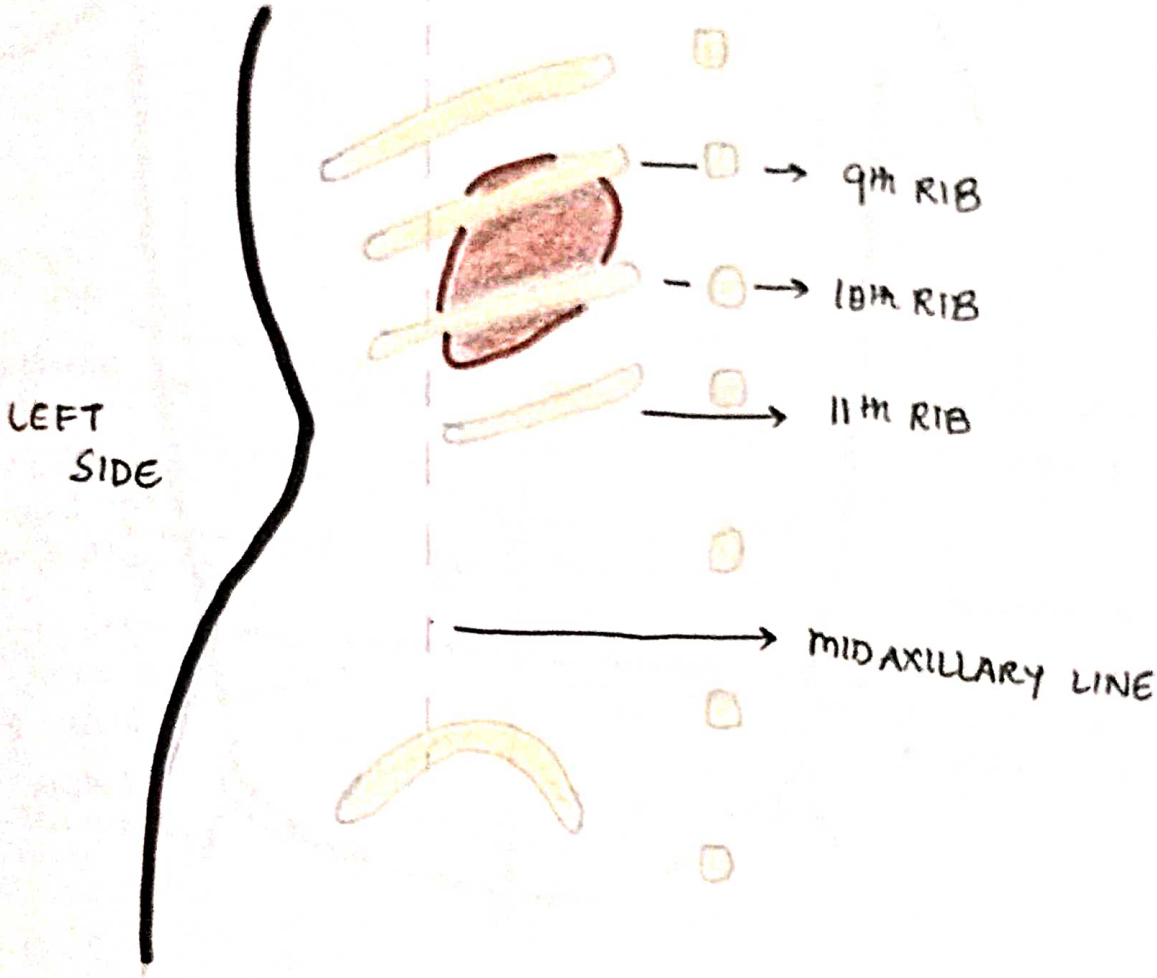
Surface Marking of Spleen



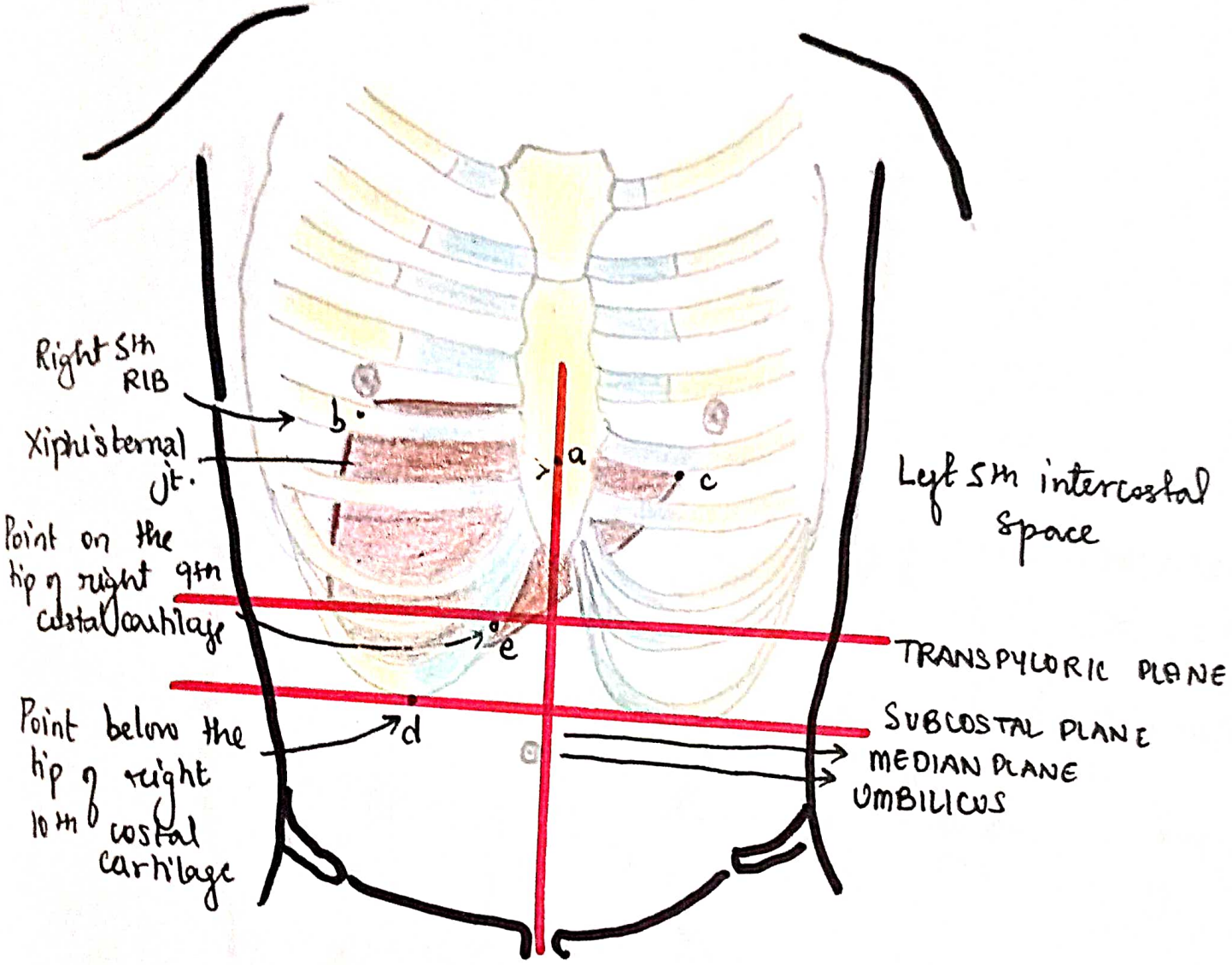
Surface Marking of Spleen



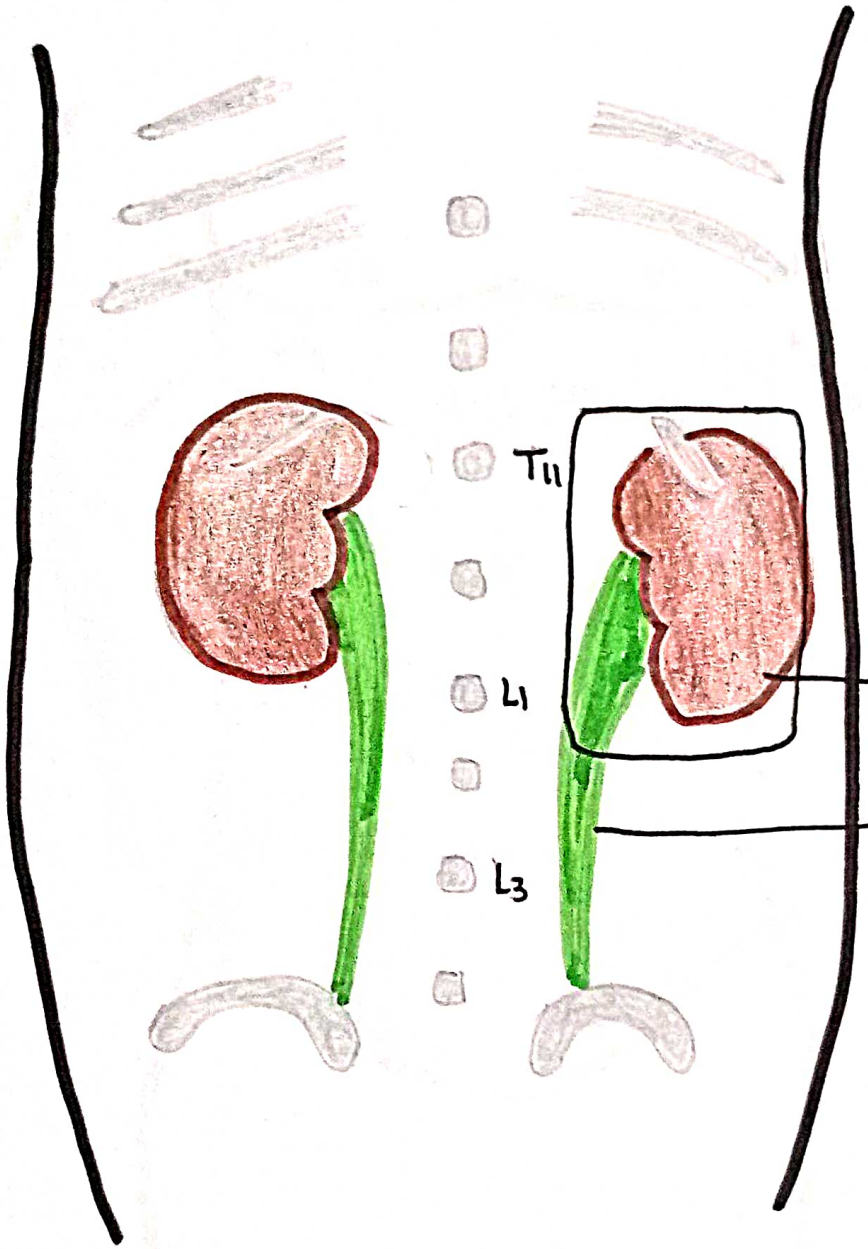
Surface Marking Of Spleen



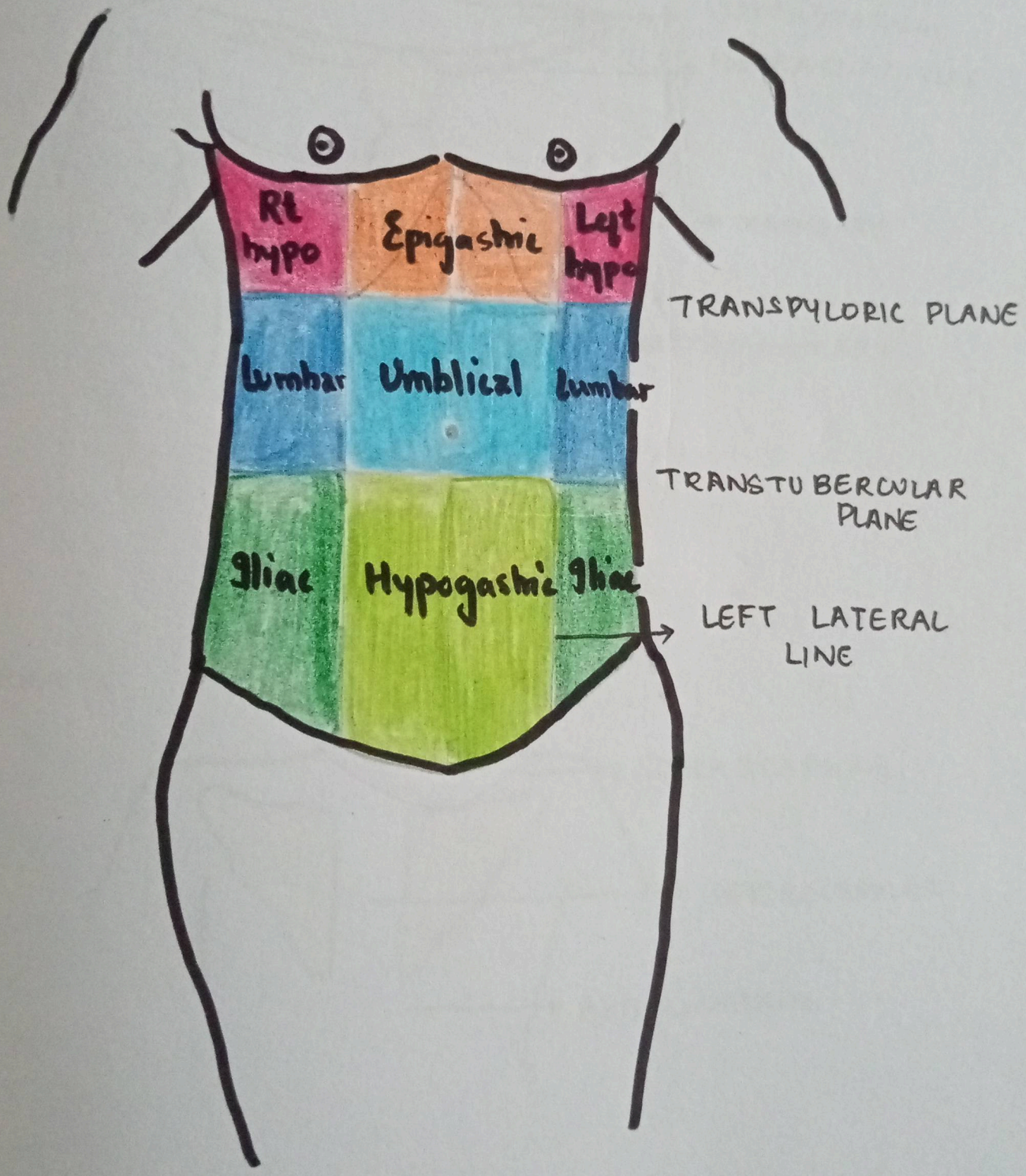
SURFACE MARKING OF LIVER



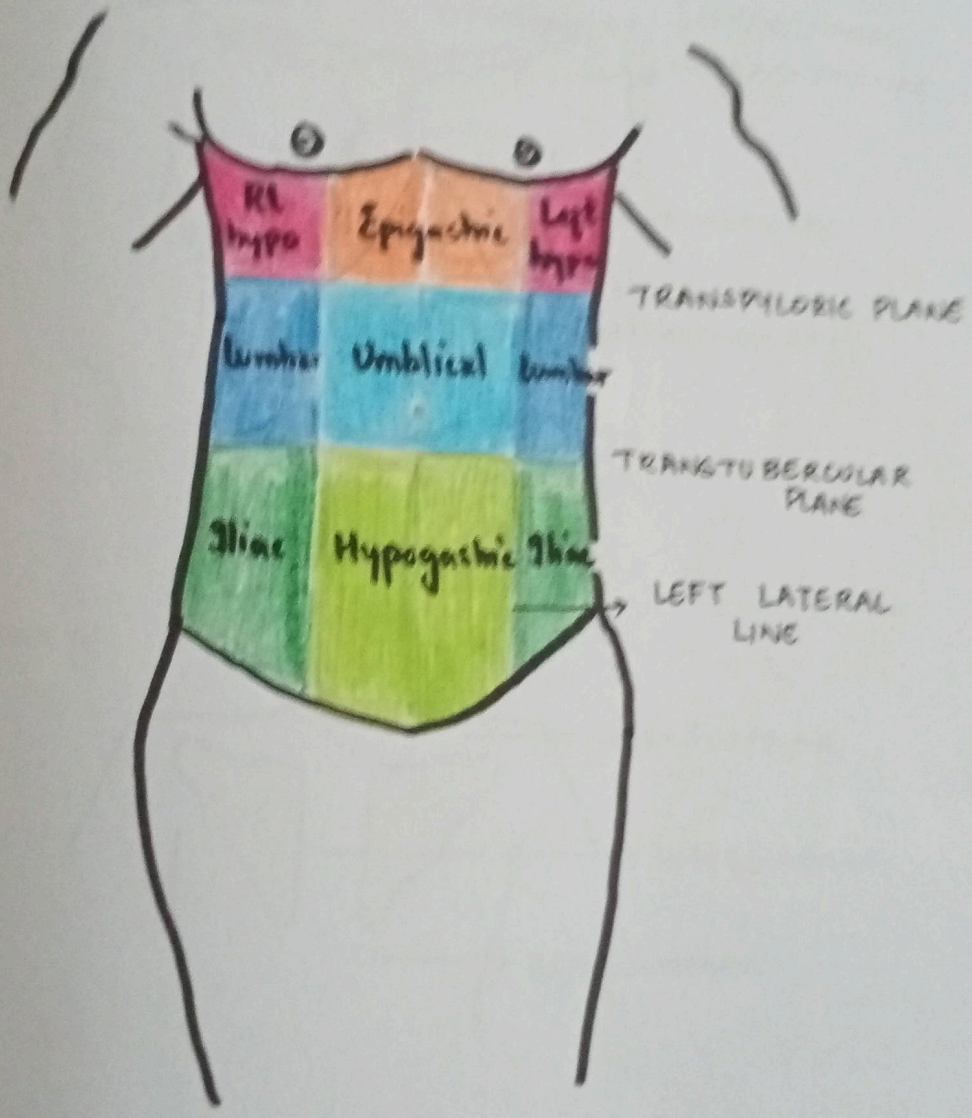
Surface Marking Of Kidney



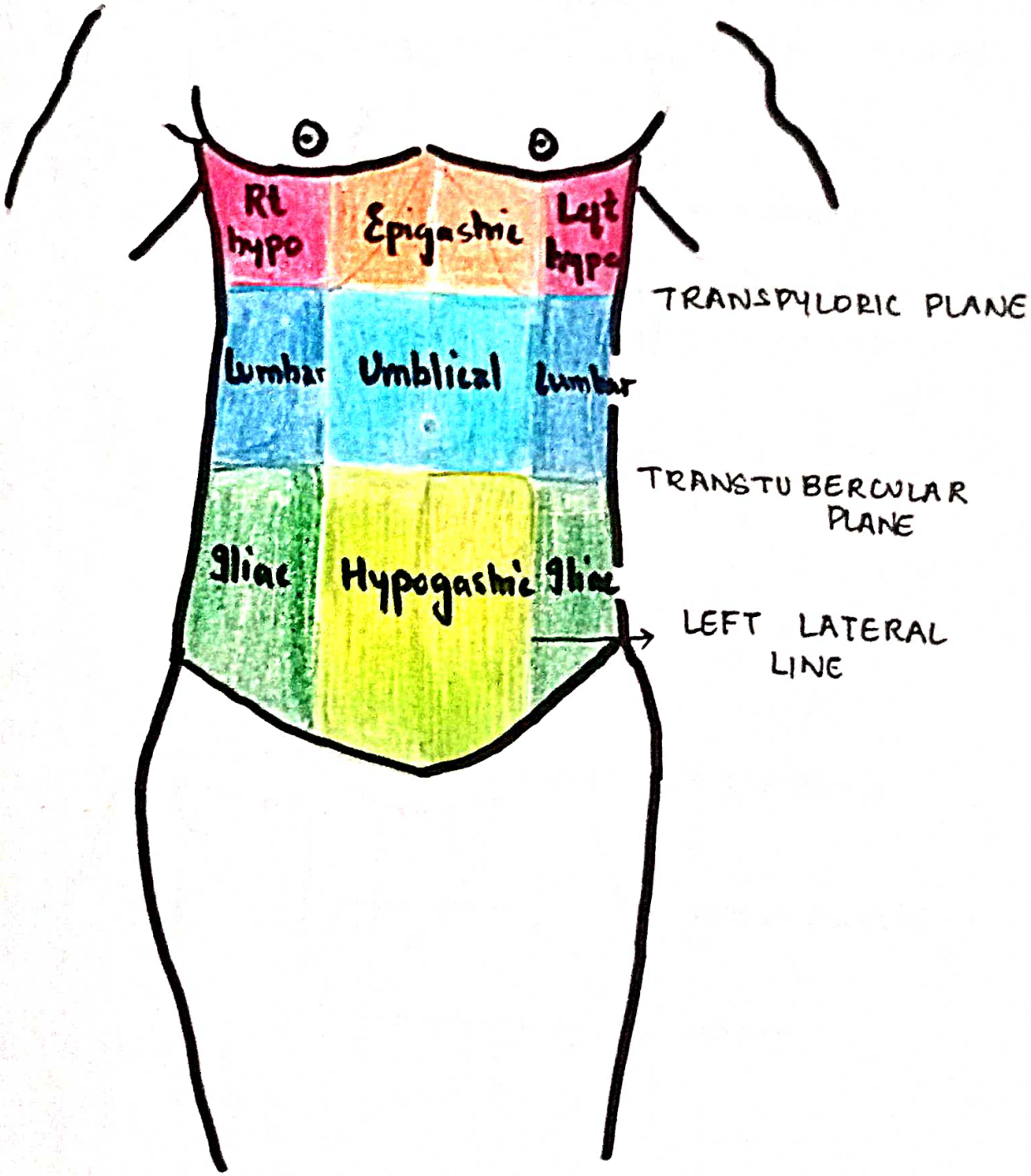
ZONES OF ABDOMEN



Zones Of Abdomen

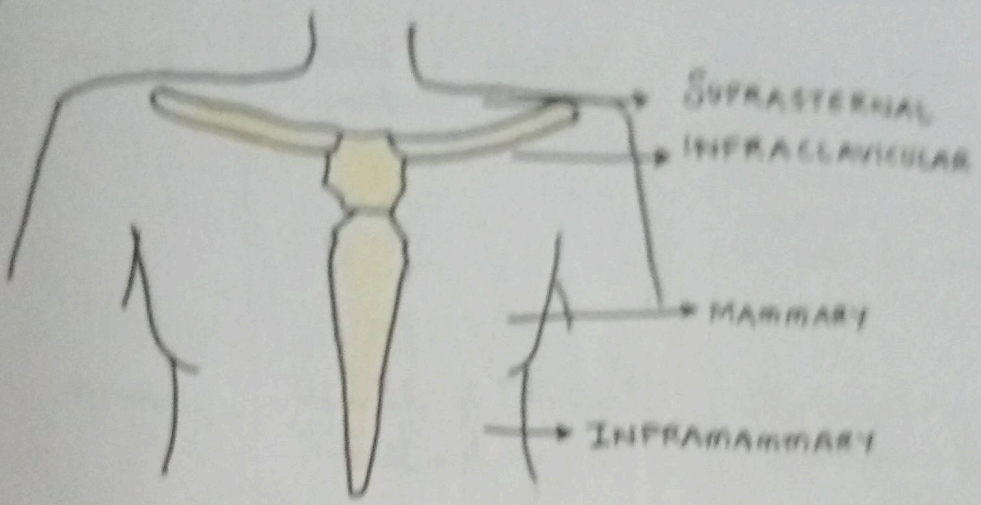


ZONES OF ABDOMEN

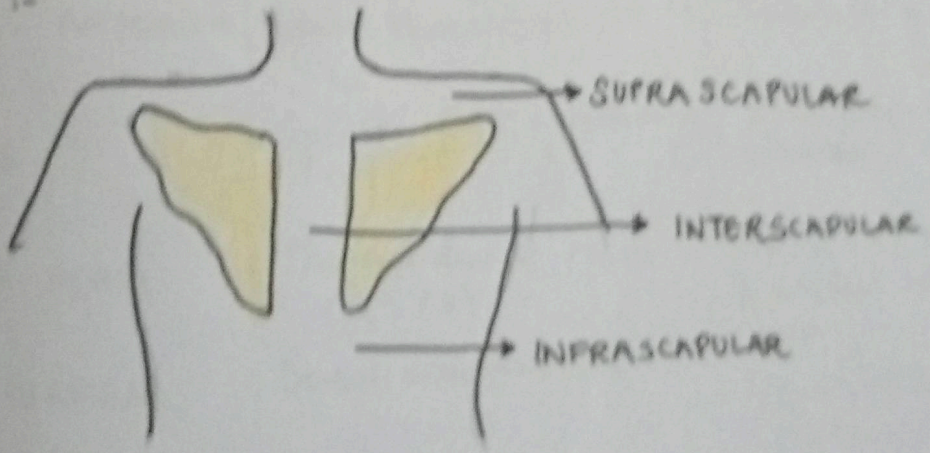


Areas Of Chest

ANTERIOR -

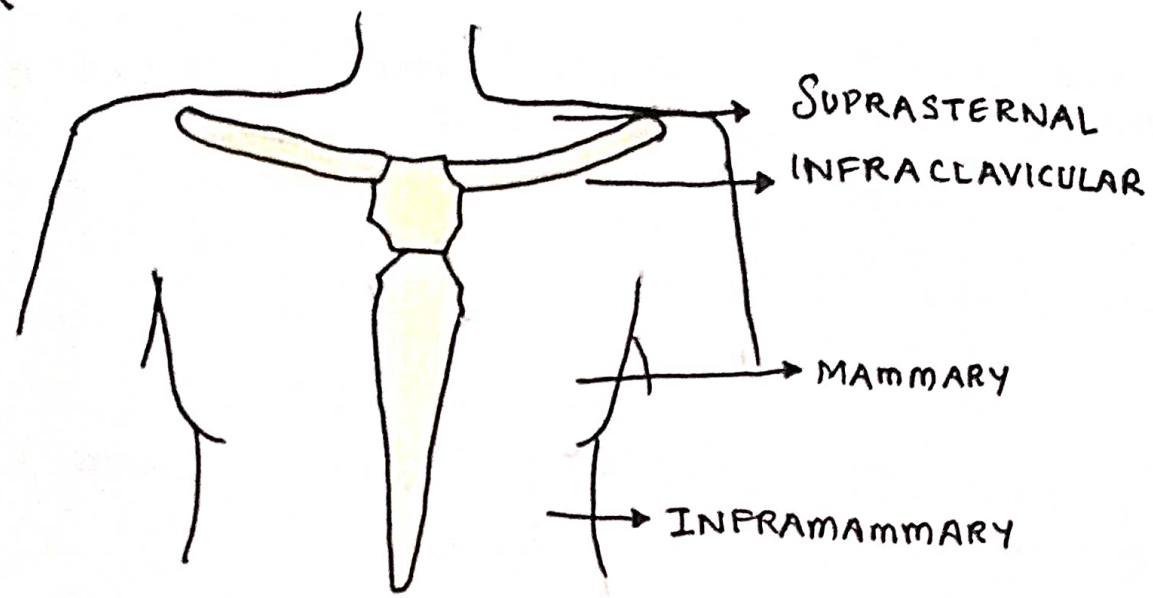


POSTERIOR :-

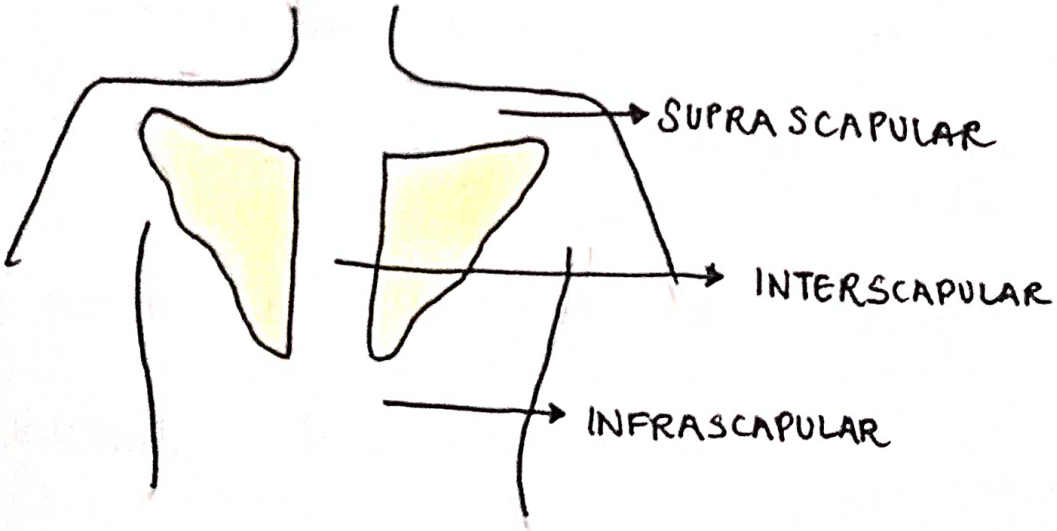


Areas Of Chest

ANTERIOR -



POSTERIOR :-



MUSCLES, NERVE SUPPLY AND ACTION

MUSCLE	NERVE SUPPLY	ACTION
1. PECTORALIS MAJOR	Lateral & medial pectoral nerve	Clavicular head - flexes the arm Sterno costal head - adducts & medially rotates the arm
2. PECTORALIS MINOR	Medial & lateral pectoral nv.	Protraction of scapula Depression of shoulder
3. SUBCLAVIUS	Nv. to subclavius	Stabilizes the clavicle by pulling it inferiorly and medially
4. SERRATUS ANTERIOR	Long thoracic nv. (C_5-C_7)	Protractor of scapula
5. TRAPEZIUS	Spinal part of accessory nv.	Shrugging the shoulder
6. LATISSIMUS DORSI	Thoracodorsal nerve (C_6 - C_8)	• Adduction, extension & medial rotation of arm
7. LEVATOR SCAPULAE	Dorsal scapular nv. (C_5)	• Elevation & medial rotation of scapula
8. RHOMBOIDEUS MAJOR	Dorsal scapular nv. (C_5)	Retraction, medial rotation & elevation of scapula

MUSCLE	NERVE SUPPLY	ACTION
9. RHOMBOIDEUS MINOR	Dorsal scapular nv.	Retraction & elevation of Scapula
10. DELTOID	Axillary nv. ($C_5 C_6$)	Flexion, medial rotation, abduction (15-90°), extension & Lateral rotation
11. SUPRASPINATUS	Suprascapular nv. ($C_5 C_6$)	Abduction (upto 15°)
12. INFRASPINATUS	Suprascapular nv ($C_5 C_6$)	Lateral rotation of arm
13. TERES MINOR	Axillary nv. ($C_5 C_6$)	Lateral rotation of arm
14. T. MAJOR	Lower subscapular nv.	Adduction & medial rotation of arm
15. SUBSCAPULARIS	Upper & lower subscapular nv.	Adduction & medial rotation of arm
16. BICEPS BRACHII	Musculocutaneous nv.	Supination of forearm Flexion of forearm
17. CORACOBRACHIUS	Musculocutaneous nv.	Flexion & adduction of arm
18. BRACHIALIS	Musculocutaneous nv. Radial nv.	Flexion of forearm
19. BRACHIORADIALIS	Radial nv.	Flexion of elbow Pronates the supinated forearm to midprone position

MUSCLE	NERVE SUPPLY	ACTION
20) ECRL	PIN - Post- Interosseus Nv.	~~Extends medial 4 digits~~ Extends the medial 4 finger + Extension of wrist
21) Extensor digitorum	PIN	
22. Ext. Carpi Ulnaris	PIN	Acts with ECR Acts with FCU
23. Anconeus	Nv. to anconeus	Weak extensor of wrist jt
24 Extensor digiti minimi	PIN	Extends little finger Helps in extension of wrist
25. SUPINATOR	PIN	Supinatn of forearm
26. ABDUCTOR POLLICIS LONGUS (APL)	PIN	Abducts the thumb
27. EXTENSOR POLLICIS BREVIS (EPB)	PIN	Extends the thumb
EXTENSOR POLLICIS LONGUS (EPL)	PIN	Extends the joints in thumb + wrist extension
29. EXTENSOR INDICIS	PIN	Extension of index finger + Extension of wrist

MUSCLE	NV. SUPPLY	ACTION
30. Abductor Pollicis Brevis	Recurrent br. of median nv.	Abduction of Thumb
31. Flexor Pollicis Brevis		Flexion of thumb
32. Opponens pollicis		Opposition of thumb
33. Abductor digiti minimi	Deep branch of ulnar nv.	Abductn of little finger
34. Flexor digiti minimi		Flexion of little finger
35. Opponens digiti minimi		Opposition of tip of little finger
36. Adductor Pollicis	Deep br. of ulnar nv.	Adduction of thumb
37. Lumbricals	1st & 2nd – median 3rd & 4th – deep br. of ulnar nv.	Flexion of MP & extension of proximal & distal interphalangeal joints.
38. Palnar Interossei	Deep br. of ulnar nv.	PAD - Adduction
39. Dorsal Interossei		DAB - Abduction
40. TRICEPS Brachii	Nv. to long head – radial nv. Nv to lateral head – radial nv. Nv to medial head – radial nv.	Powerful Extensor
41. Pronator teres	Median Nv.	Pronator of arm

MUSCLE	NV. SUPPLY	ACTION
44. Flexor Carpi Radialis	Median Nv.	flexes the wrist abducts the wrist.
45. Flexor Carpi Ulnaris	Ulnar Nv.	adducts & flexes the wrist
44. Flexor digitorum Superficialis	Median Nv.	Flexes the interphalangeal joints.
45. Flexor Pollicis Longus		flexes the distal phalanx of thumb
46. Flexor digitorum profundus	medial 1/2 – ulnar nv. lateral 1/2 – Ant. Interosseus Nv - median nv.	
47. PRONATOR QUADRATUS	AIN	pronator of forearm
48. INTERCOSTAL MUSCLES – i. Ext. intercostal muscle ii) Int. intercostal muscle (iii) Innermost intercostal muscle	Intercostal nv.	Supporter of RIBS Elevator of RIBS
49. Ext. Oblique	Lower six thoracic spinal nv. T7 – T12	Compresses and supports abdominal viscera
50. INT. OBLIQUE	//	//
51 TRANSVERSE ABDOMINIS	T7 - T12 + L1	//

MUSCLE	NV. SUPPLY	ACTION
12. Flexor Carpi Radialis	Median Nv.	flexes the wrist abducts the wrist.
13. Flexor Carpi Ulnaris	Ulnar Nv.	• adducts & flexes the wrist
44. Flexor digitorum Superficialis	Median Nv.	Flexes the interphalangeal joint.
45. Flexor Pollicis Longus		flexes the distal phalanx of thumb
46. Flexor digitorum profundus	medial 1/2 – ulnar nv. lateral 1/2 – Ant. Interosseus Nv – median nv.	
47. PRONATOR QUADRATUS	AIN	pronator of forearm
8. INTERCOSTAL MUSCLES – i. Ext. intercostal muscle ii) Int. intercostal muscle iii) Innermost intercostal muscle	Intercostal nv.	Supporters of RIBs Elevators of RIBs
19. Ext. Oblique	Lower six thoracic spinal nv. $T_7 - T_{12}$	Compresses and supports abdominal viscera
INT. OBLIQUE	〃	〃
TRANSVERSE ABDOMINIS	$T_7 - T_{12} + L_1$	〃

MUSCLE	NERVE SUPPLY	ACTION
52. Rectus Abdominis	$T_7 - T_{12}$	Flexes the trunk
53. Pyramidalis	Subcostal nv. (T_{12})	Tenses the linea alba
54. QUADRATUS LUMBORUM	$T_{12} - L_4$ - ventral rami	Extends & laterally flexes the vertebral column.
55. PSOAS MAJOR	Ventral rami of L1 - L3	Flexes the thigh at the hip joint
56. ILIACUS	femoral nerve	"
57. Diaphragm	Phrenic nv.	Main muscle of respiration
58. Psoas Minor	Ventral rami of L1	flexion of trunk
59. Obturator Externus	Nv. to obturator Externus (L_3, S_1)	Laterally rotates the thigh
60. Obturator Externus	Obturator Nv. (L_3, L_4)	Laterally rotates the thigh

MUSCLE	NERVE SUPPLY	ACTION
52. Rectus Abdominis	$T_7 - T_{12}$	Flexes the trunk
53. Pyramidalis	Subcostal nv. (T_{12})	Tenses the linea alba
54. QUADRATUS LUMBORUM	$T_{12} - L_4$ - ventral rami	Extends & laterally flexes the vertebral column.
55. PSOAS MAJOR	Ventral rami of $L_1 - L_3$	Flexes the thigh at the hip joint
56. ILIACUS	femoral nerve	"
57. Diaphragm	Phrenic nv.	Main muscle of respiration
58. Psoas Minor	Ventral rami of L_1	flexion of trunk
59. Obturator Internus	Nv. to obturator internus (L_5, S_1)	laterally rotates the thigh
60. Obturator Externus	Obturator Nv. (L_3, L_4)	Laterally rotates the thigh

MUSCLE	NERVE SUPPLY	ACTION
61. PIRIFORMIS	Nv. to piriformis (S_1, S_2)	Laterally rotates & abducts the thigh
62. Cremaster (males)	Genitofemoral nv. (L_1, L_2)	Raises & lowers the testes
63. Levator Ani (group of fibers rectalis, pubococcygeus, iliococcygeus)	Nv. to levator ani (S_3, S_4) & Pudendal Nv (S_2-S_4)	Supports pelvic viscera
64. Ischiococcygeus	Ventral rami of S_4 & S_5	"
65. Erector Spinae - Iliocostalis Longissimus Spinalis	Dorsal rami of spinal nv	Extends & laterally flexes the vertebral column
66. Multifidus	Dorsal rami of spinal nv.	Stabilizes the vertebrae
67. Serratus Post-Inferior	Ventral rami of $T_9 - T_{12}$	Depresses the lower ribs

MUSCLES	NV. SUPPLY	ACTION
68. Bulbospongiosus	Pudendal nv.	Assists in erection of penis / clitoris
69. Ischiocavernous	Pudendal nv.	"
70. Superficial Transverse Perineal	"	Supports pelvic organs.
71. Deep Transverse Perineal	"	"
72. Gluteus maximus	Inf. gluteal nv.	Extends & laterally rotates thigh
73. Gluteus medius	Sup. gluteal nv.	Abducts & medially rotates thigh
74. Quadriceps femoris	femoral nv.	extends knee, flex hip
75. Hamstring muscles- Biceps femoris Semitendinosus Semimembranosus	Sciatic nv	"

MUSCLES	NV. SUPPLY	ACTION
76. Gastrocnemius	Tibial Nv.	Plantarflex foot, flexes knee
77. Soleus	"	Plantarflex foot
78. Tibialis Ant.	Deep fibular nv.	Dorsiflexes & invert foot
79. Iliopsoas	femoral nv. (L_2-L_4) ventral rami of L1-L3	flexes the thigh at hip joint
80. SARTORIUS	femoral nv.	flexes, adducts & laterally rotates thigh
81. Rectus femoris	femoral nv. (L_2-L_4)	Extends the knee, flexes the thigh at the hip.
82. Vastus lateralis	femoral nv.	Extends the knee
83. Vastus Medialis	"	"
84. Vastus Intermedi	"	"
85. Adductor longus	Obturator NV (L_2-L_4)	Adducts & medially rotate the thigh
86. Adductor Brevis	"	"

MUSCLE	NV. SUPPLY	ACTION
87. Adductor Magnus	Adductor pt - Obturator Nv. Hamstring pt - Tibial of Sciatic nv.	Adducts flexes & extends the thigh
88. Gracilis	Obturator N.	Adducts the thigh flexion & medial rotation
89. Pectineus	Femoral Nv.	Adducts & flexes the thigh
90. Gluteus minimus	Sup. gluteal nv ($L_4 - S_1$)	Abducts & medially rotate the thigh
91. Tensor fasciae latae	Sup. gluteal nv.	"
92. Piriformis	Nv. to piriformis ($S_1 S_2$)	Laterally rotates & abducts the thigh
93. ~~Ob~~ Sup. Gemellus	Nv. to Obturator Internus ($L_5 - S_1$)	Laterally rotates the thigh
94. Inf. gemellus	Nv. to quadratus femoris	"

MUSCLE	NW. SUPPLY	ACTION
87. Adductor Magnus	Adductor pt - Obturator Nv. Hamstring - Tibial pt of Sciatic nv.	Adducts flexes & extends the thigh
88. Gracilis	Obturator N.	Adducts the thigh flexion & medial rotation
89. Pectineus	Femoral Nv.	Adducts & flexes the thigh
90. Gluteus minimus	Sup. glutcal nv ($L_4 - S_1$)	Abducts & medially rotate the thigh
91. Tensor fasciae latae	Sup. glutcal nv.	"
92. Piriformis	Nv. to piriformis ($S_1 S_2$)	Laterally rotates & abducts the thigh
93. ~~Ob~~ Sup. Gemellus	Nv. to Obturator Internus ($L_5 - S_1$)	Laterally rotates the thigh
94. Inf. gemellus	Nv. to quadratus femoris	"