"Parathyroid Glands"

- >> General Structure:
- Four ovoid bodies, approximately 6 mm in length.
- Located near the posterior border of the thyroid gland, within its fascial capsule.

» Position:

- > Superior Parathyroid Glands:
- Consistent position at the middle of the posterior border of the thyroid.
 - > Inferior Parathyroid Glands:
 - Near the inferior poles of the thyroid.

· May lie:

- Within the fascial sheath or embedded in thyroid tissue.

- Outside the fascial sheath, near inferior thyroid veins.
 - Occasionally, located in the superior mediastinum within the thorax.

» Blood Supply

- Arteries: Supplied by the superior and inferior thyroid arteries.
- Venous Drainage: Drains into superior, middle, and inferior thyroid veins.

» Lymph Drainage

- Drains to deep cervical and paratracheal lymph nodes.
 - » Nerve Supply
 - Supplied by superior or middle cervical sympathetic ganglia.
 - » Functions of Parathyroid Glands
- Parathyroid Hormone (PTH) by Chief Cells:

· Bone:

- Stimulates osteoclasts, releasing calcium from bones, increasing blood calcium levels.

· Small Intestine:

- Enhances calcium absorption from diet.

· Kidneys:

- Increases calcium reabsorption in proximal convoluted tubules.
- Reduces phosphate reabsorption in proximal convoluted tubules.

· Regulation:

- Blood calcium levels control PTH secretion.