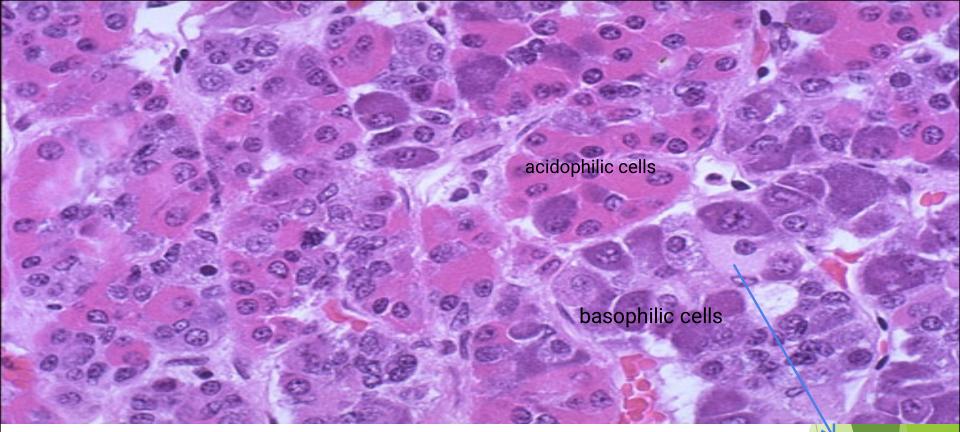
PATHOLOGY OF ENDOCRINE SYSTEM PITUITARY GLAND

DR Sura Al Rawabdeh MD 15-5-2023



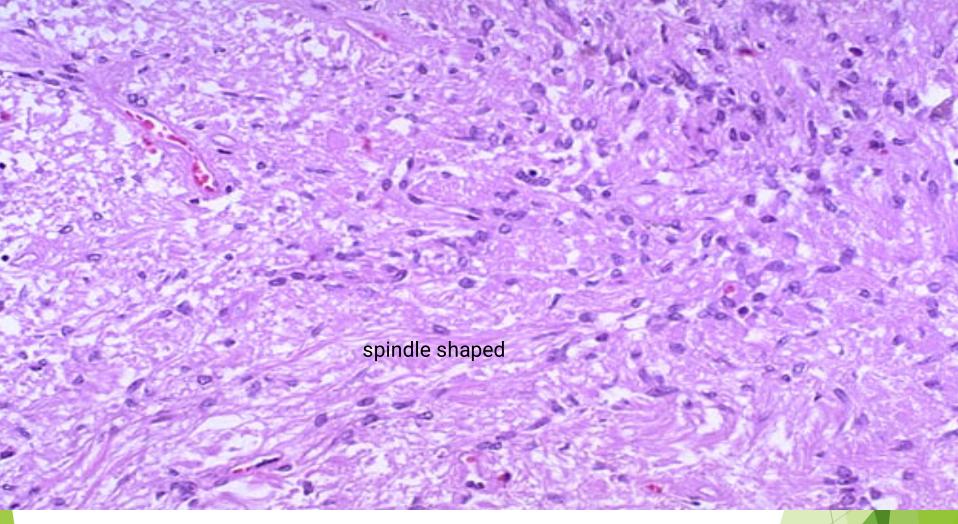


The pink acidophils secrete growth hormone (GH) and prolactin (PRL) chromophobes

The **dark purple basophils** secrete corticotrophin (ACTH), thyroid stimulating hormone (TSH), and gonadotrophins follicle stimulating hormone (FSH and LH).

The **pale staining chromophobes** have few cytoplasmic granules, but may have secretory activity.

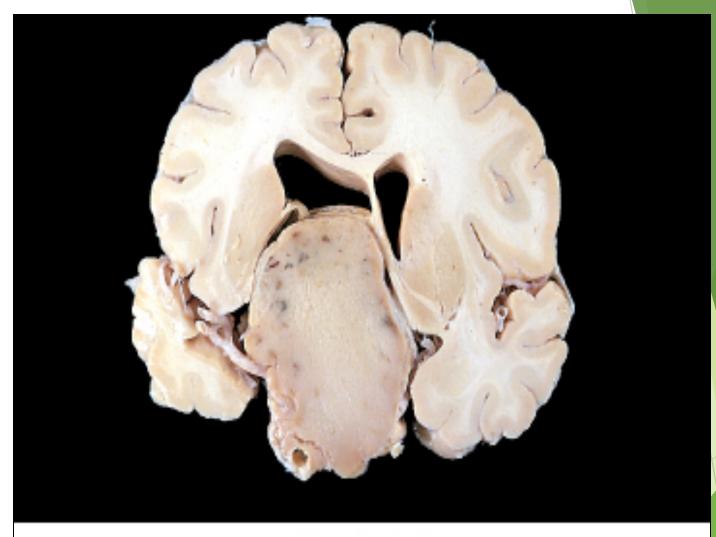
normal Anterior pituitary



The neurohypophysis shown here resembles neural tissue, with glial cells, nerve fibers, nerve endings, and intra-axonal neurosecretory granules.

The hormones vasopressin (antidiuretic hormone, or ADH) and oxytocin made in the hypothalamus (supraoptic and paraventricular nuclei) are transported into the intra-axonal neurosecretory granules where they are released.

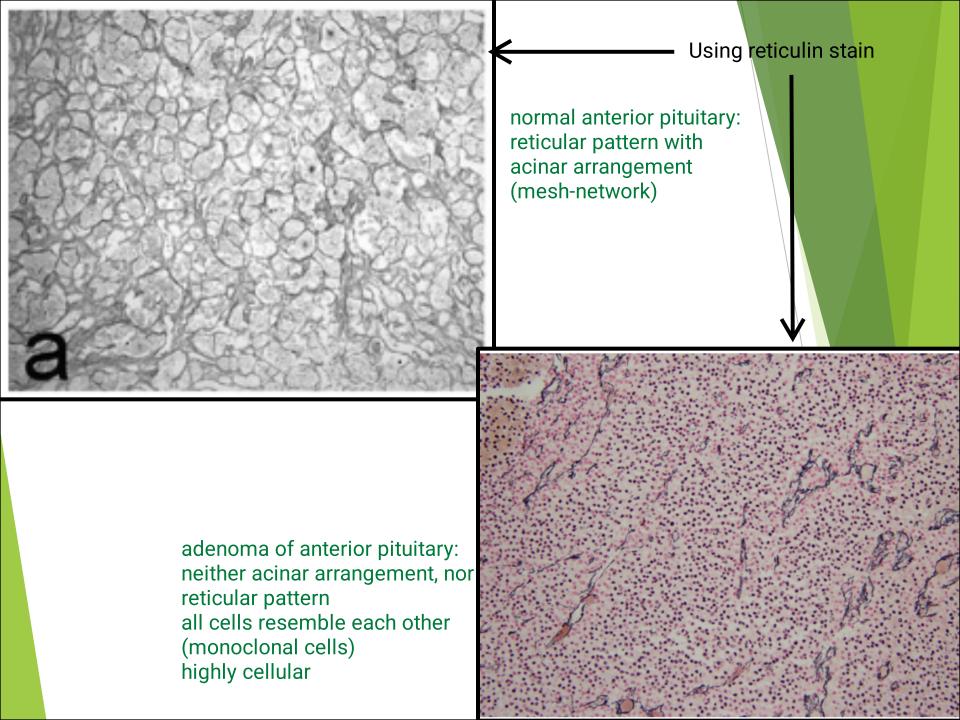
normal posterior pituitary

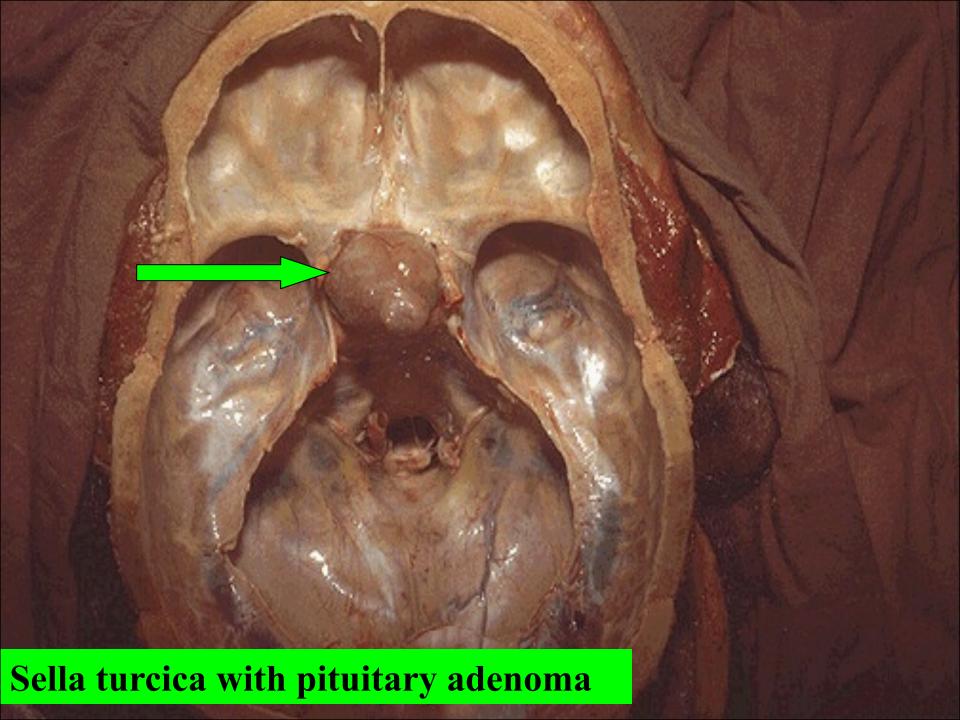


macroadenoma with gross appearance © Elsevier 2005

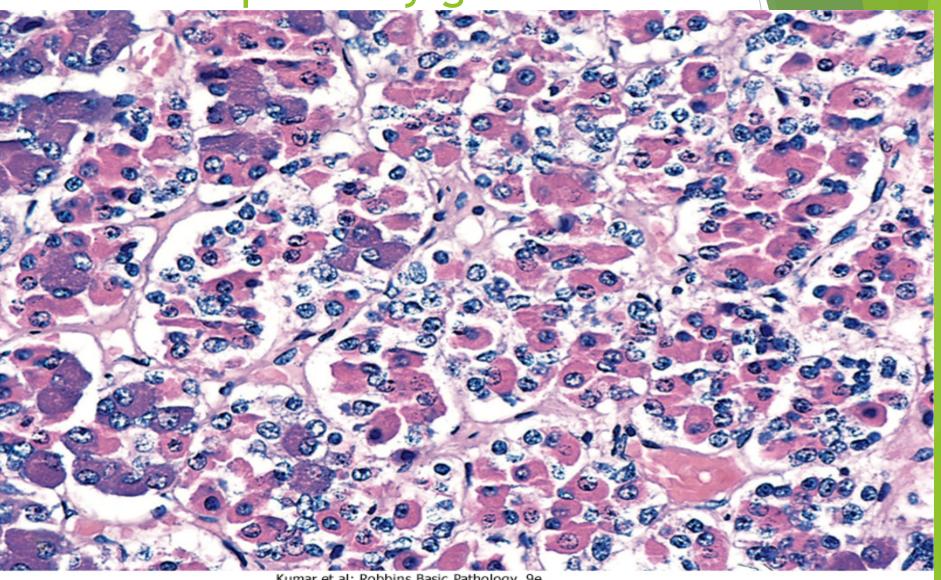
Mass effect of pituitary adenoma

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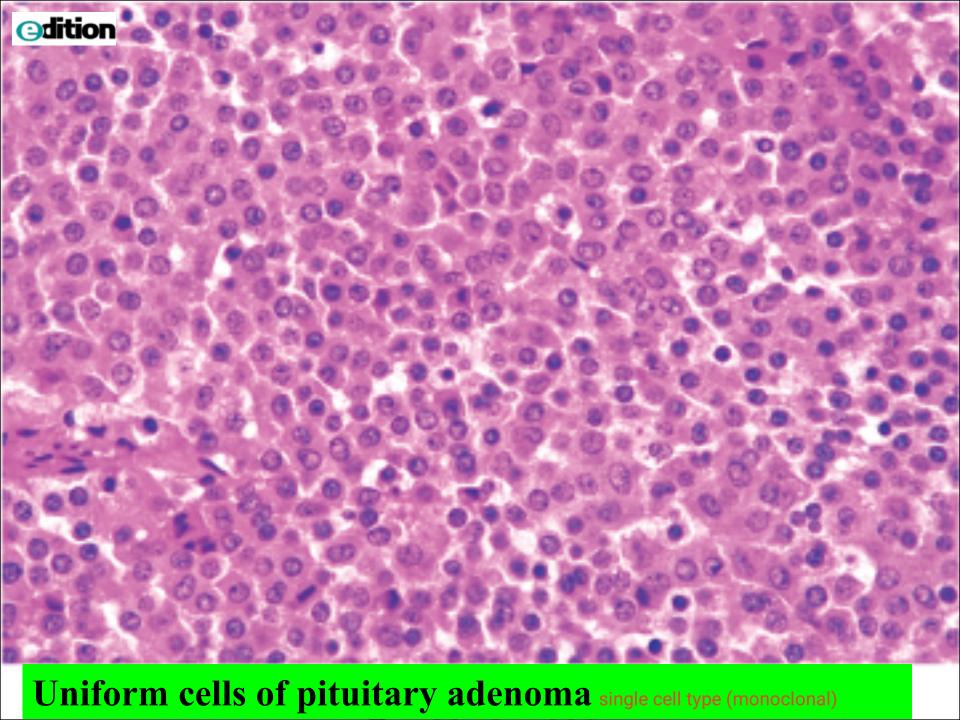


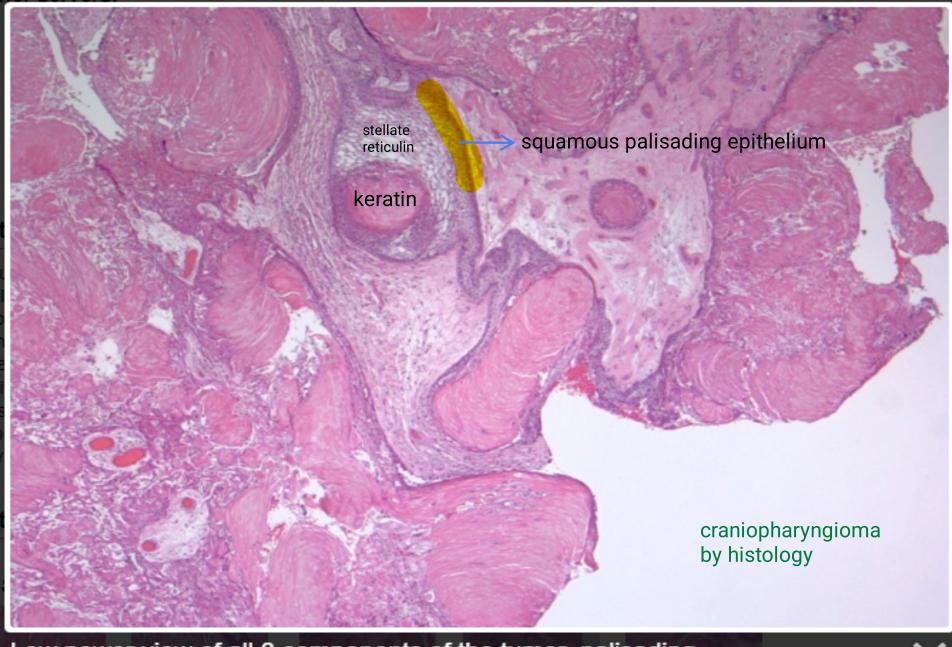


Normal pituitary gland



Kumar et al: Robbins Basic Pathology, 9e. Copyright © 2013 by Saunders, an imprint of Elsevier Inc.

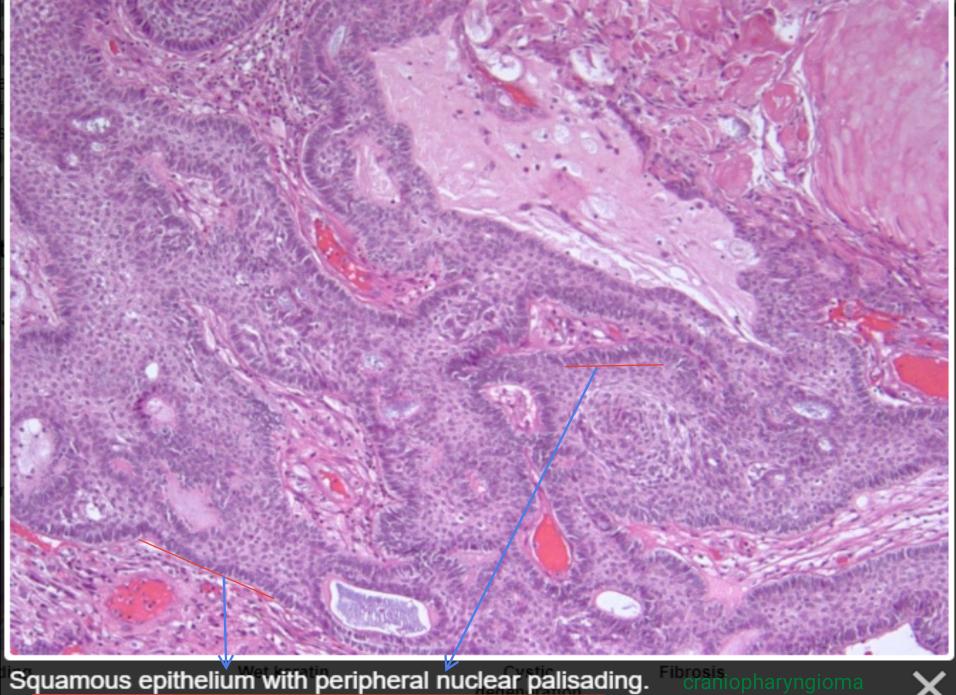




Low power view of all 3 components of the tumor: palisading epithelium, stellate reticulum and wet keratin.

Contributed by Nelli S. Lakis M.D., M.Sc.





craniopharyngioma Contributed by Nelli S. Lakis M.D.