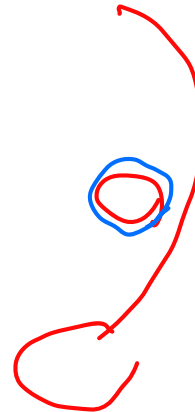


Endocrine system. THYROID NEOPLASMS

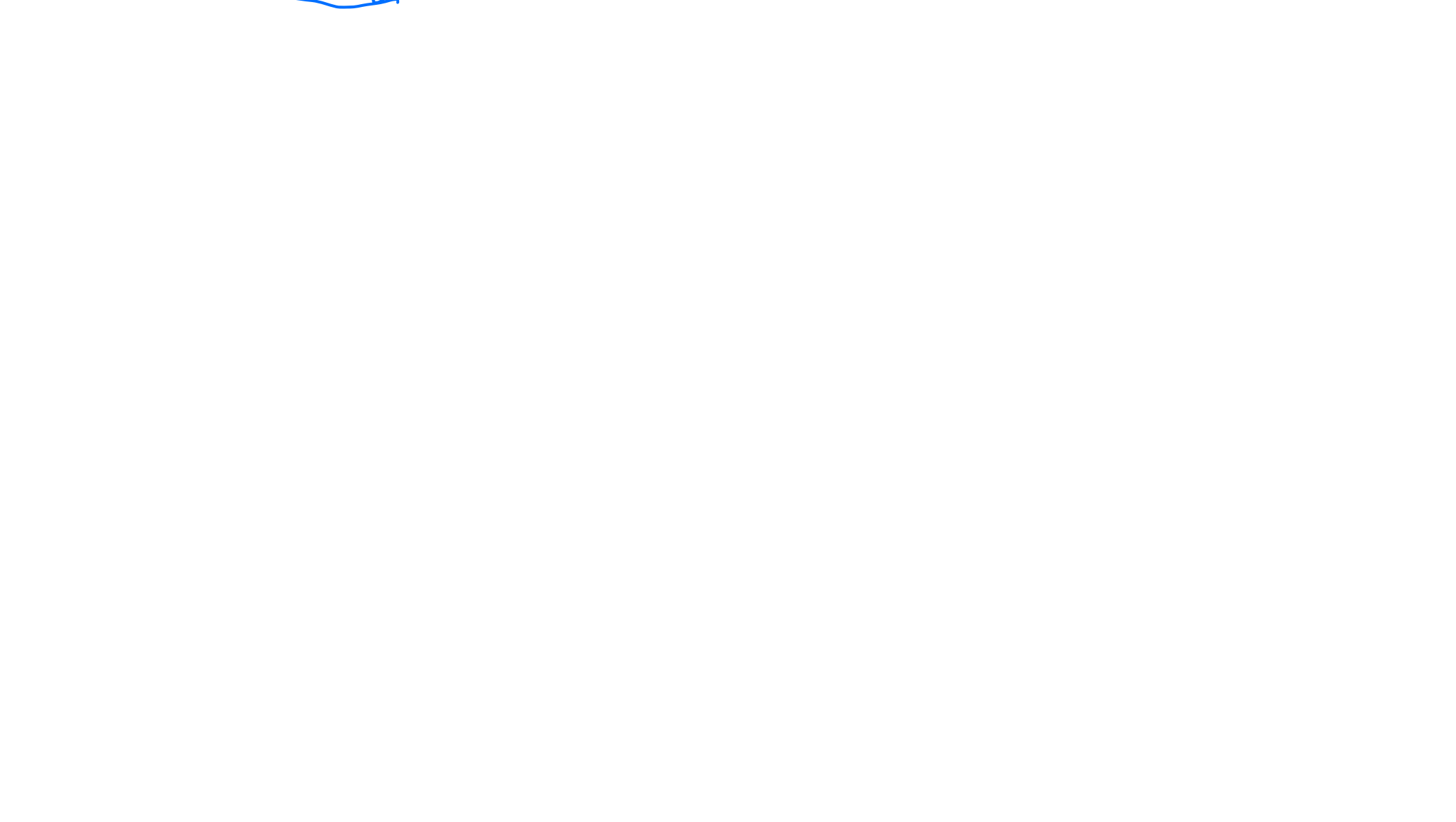
Dr.Eman Krieshan, M.D.

15-5-2024



beniden





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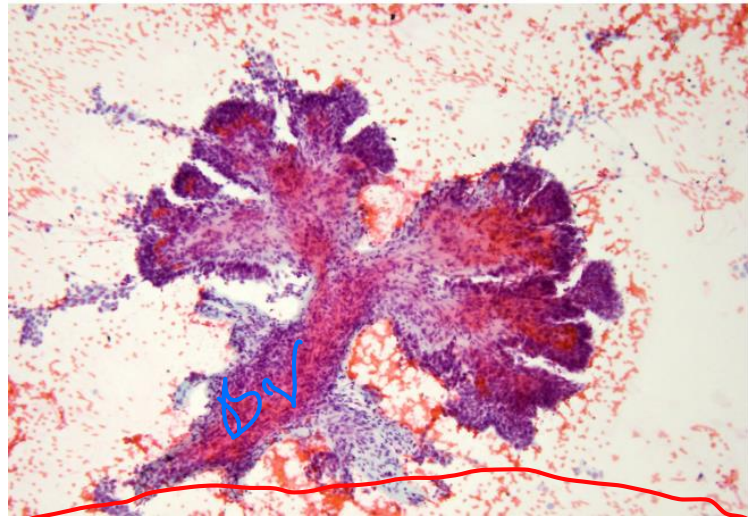
—

# ultrasound guided pre-operative fine needle aspiration cytology.

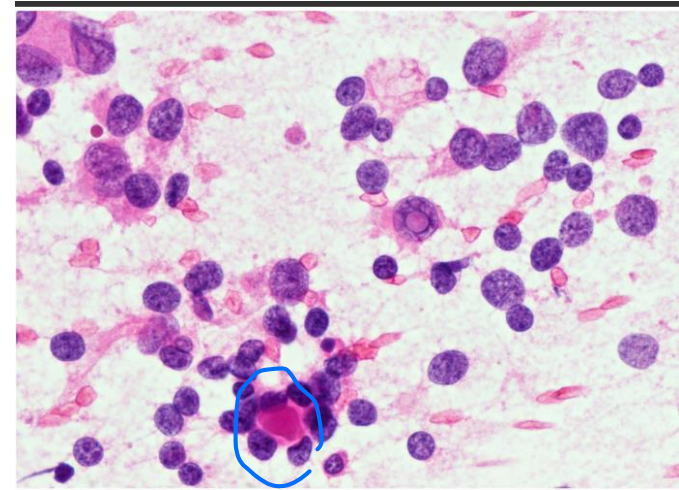
→ for thyroid and breast cancer

→ we don't use it for adenoma because the most important feature between adenoma and carcinoma is capsule.

\* رج، ٹیوف فقط cytology  
یعنی مثلاً ٹیوف stroma, parenchyma → نچر دھم سے  
لکون آنا بسحب cell



contain papillae which is blood vessel surrounded with tumor cells.



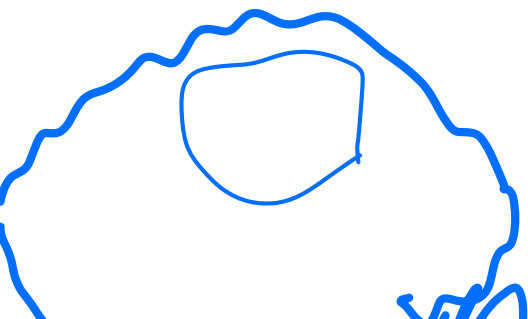
Contain certain nuclear features:

\* nuclear inclusions

which is central, circular and eosinophilic inclusion in the nucleus.

فہ کیوں

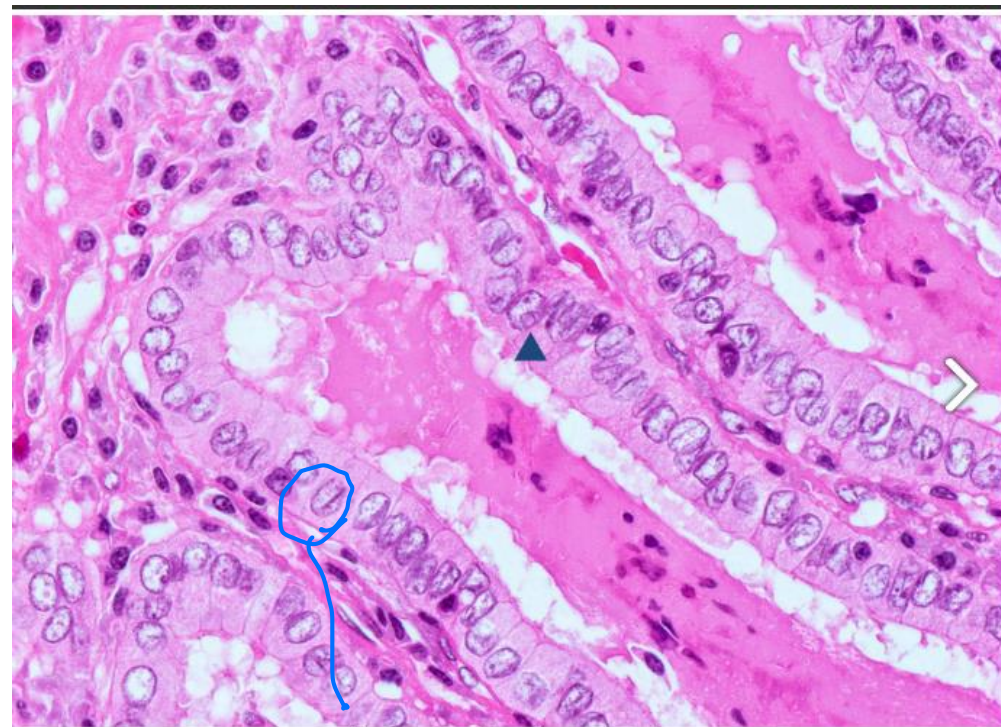
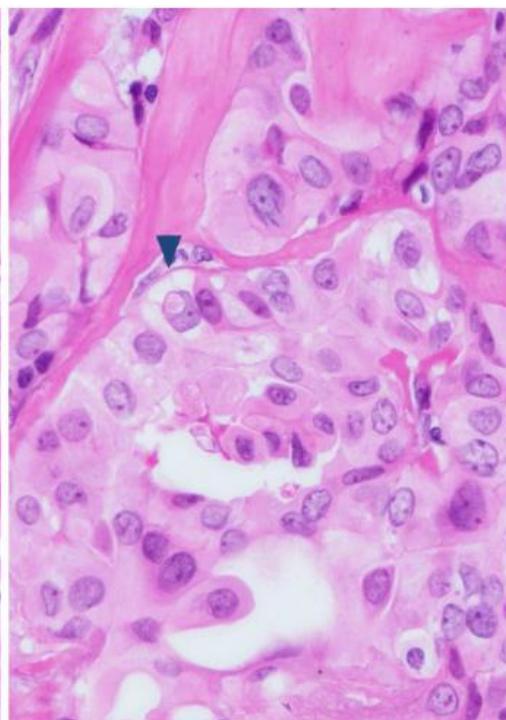








inclusion



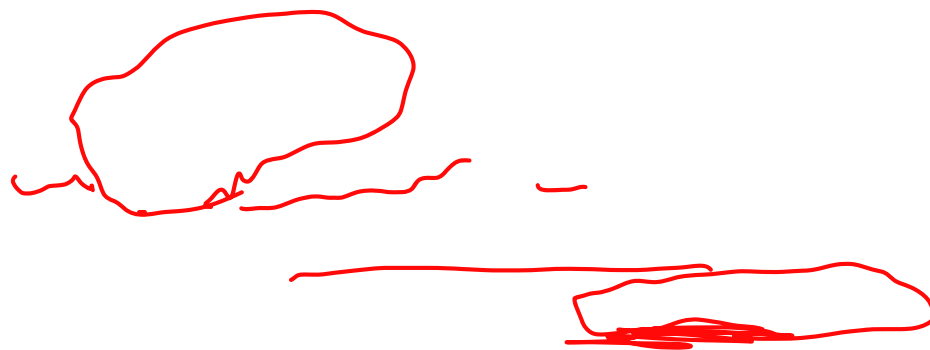
Papillary thyroid carcinoma nuclei:

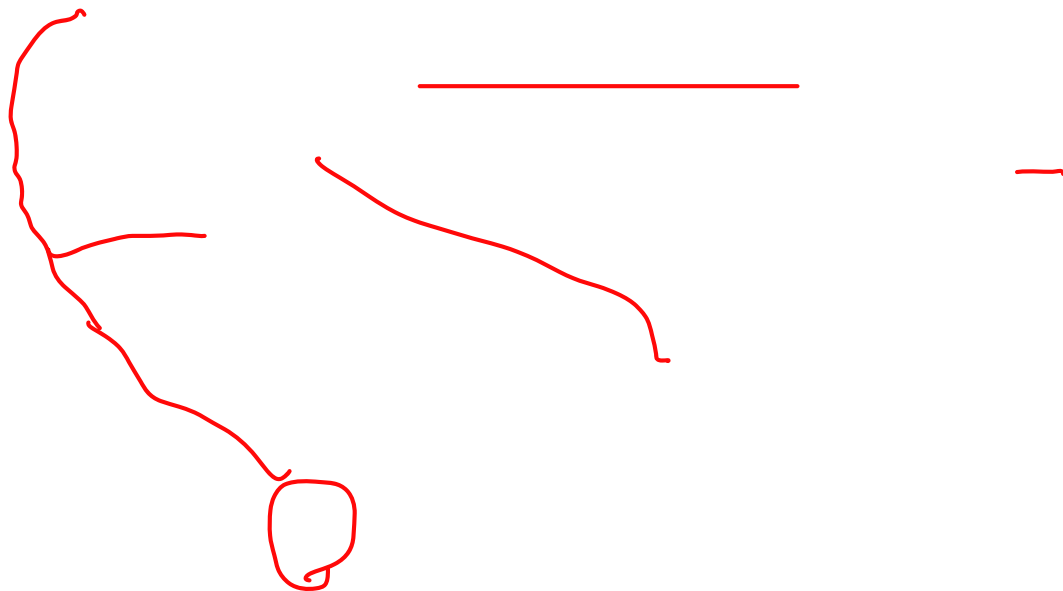
coffee bean





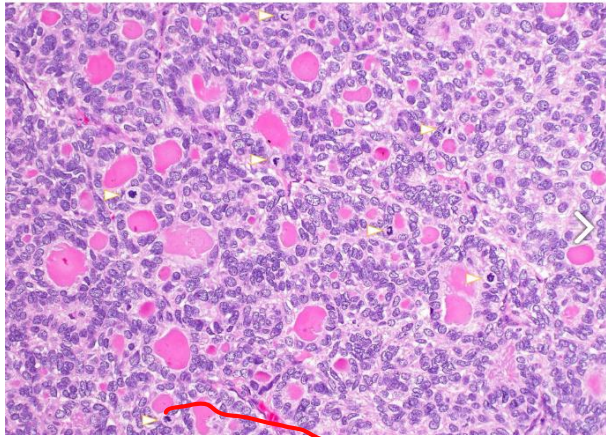




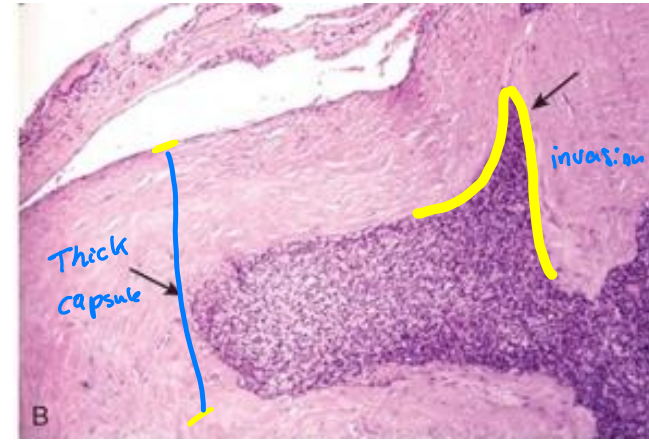
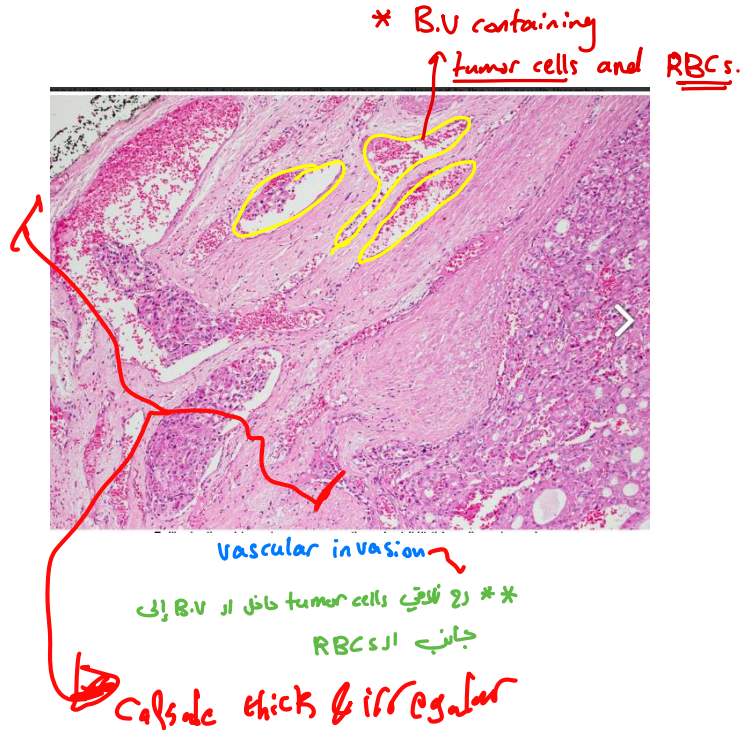


PTC



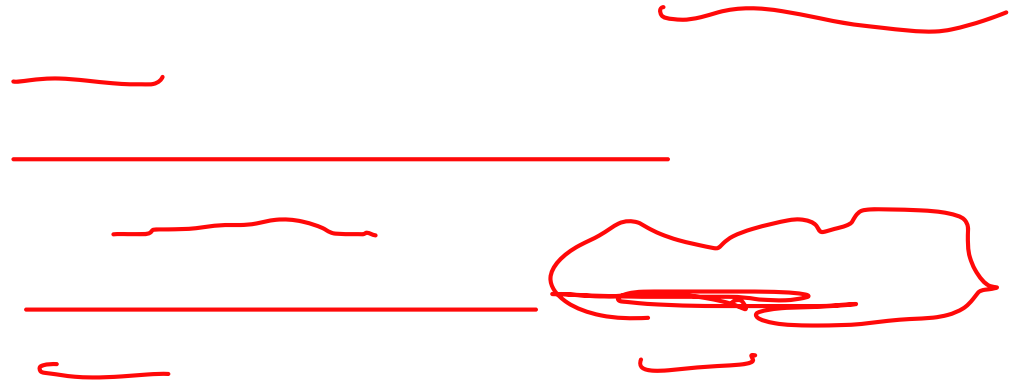


Follicular lesion



\* capsular invasion







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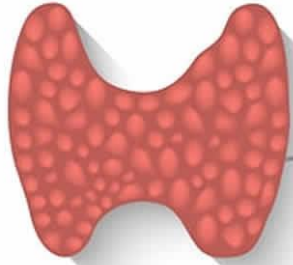


atypical mitotic figures. mitosis  
more than bilateral mitosis

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فیدی

Thyroid gland

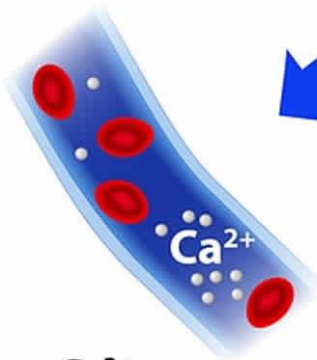


Calcitonin

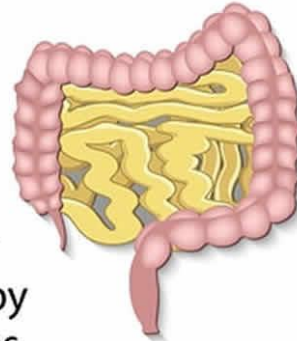
✓ Inhibits Ca^{2+} reabsorption in the kidney (excreted in the urine)



✓ Lowers Ca^{2+} levels in blood



✓ Inhibits Ca^{2+} absorption by the intestines



✓ Promotes deposition of Ca^{2+} into bones (inhibits osteoclasts and stimulates osteoblasts)



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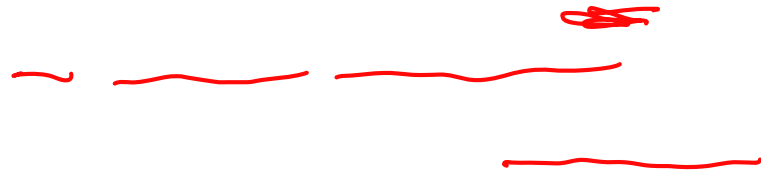
Fig

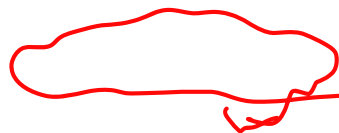
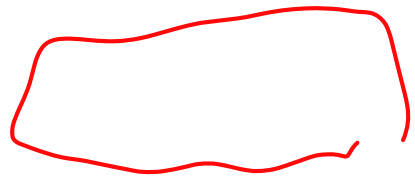
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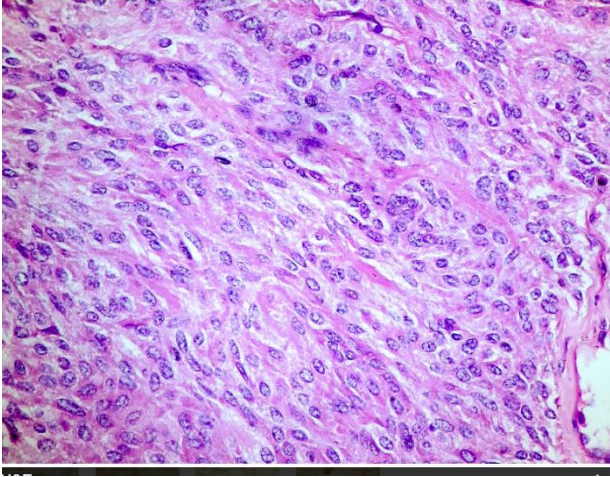
secretion marker
secretion marker

tumor go to the liver so it will cause effects
out of the thyroid



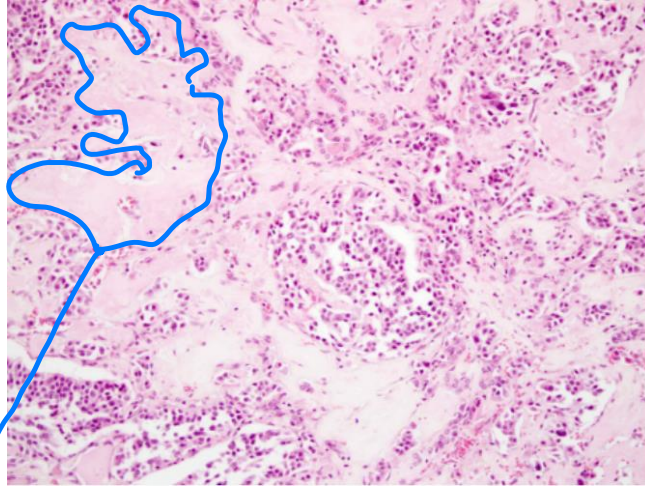


immunostatin stain.



Appear as
apple green

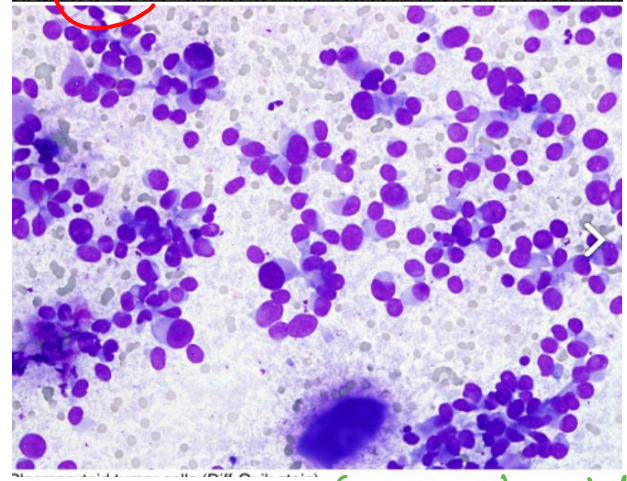
*can be stained with Congo red stain ↗



Amyloid depositions:

pale to eosinophilic depositions

*cytology



*eccentric nucleus (appearance plasmacytoid)

nucleus push in to the side of the
membrane

THANK
YOU