lecture

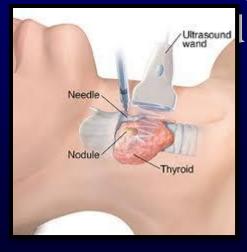
3

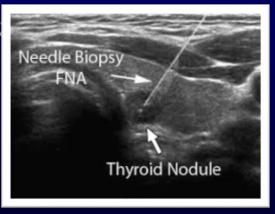
THYROID NEOPLASMS:

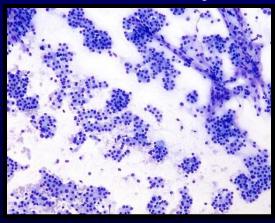
- Benign >>>>> malignant.
- Most are adenomas
- Risk increases when:
 - Solitary nodule > than multiple ones
 - Male nodules > than female ones
 - Age < than 20 or > than 70 year
 - Family Hx. And hx, of radiation
 - Cold nodule >>>> Hot nodules

FINE NEEDLE ASPIRATION (FNA):

- Simple and cost effective diagnostic approach
- It is now the standard for evaluation of thyroid nodules
- The accuracy is very good and currently it



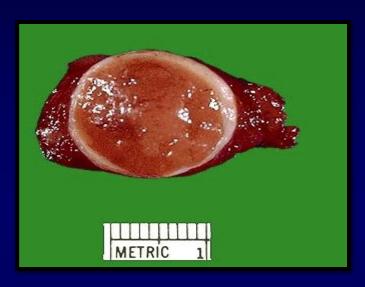


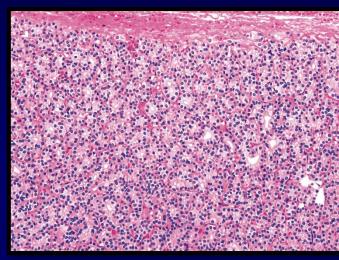


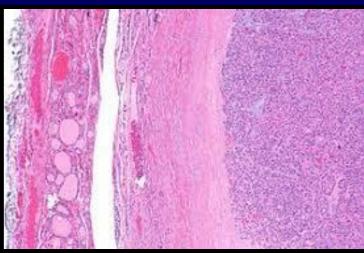
FOLLICULAR ADENOMAS:

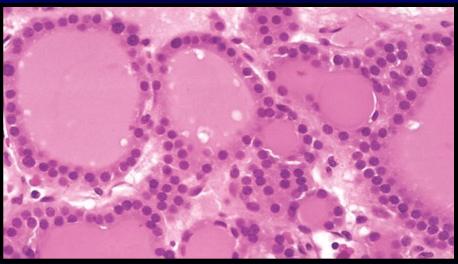
- Almost all adenomas are follicular
- Autonomous adenoma; driver mutations in TSH stimulation; rarely RAS mutations
- Solitary, well-circumscribed with intact thick capsule. Bland cells or Hurthle cell (Hurthle cell adenoma). Occasional atypia can be seen
- Intact capsule is the main distinguishing feature from follicular carcinoma

PATHOLOGIC FEATURES OF FA:

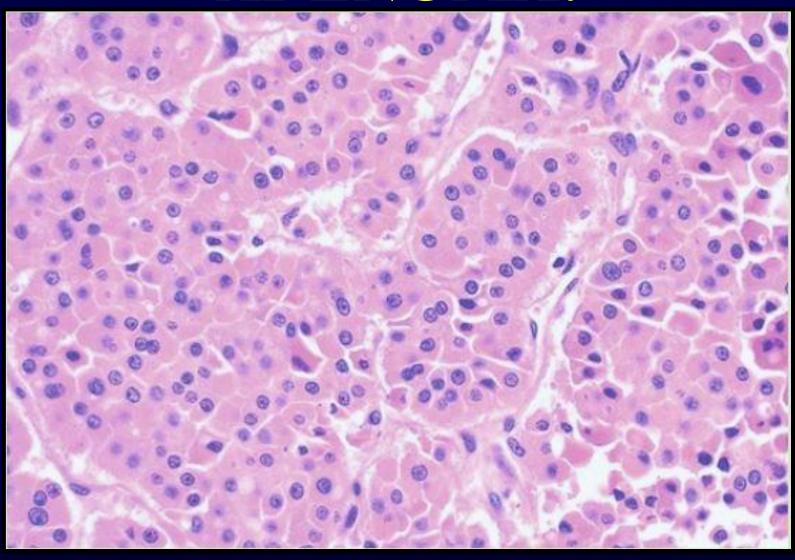








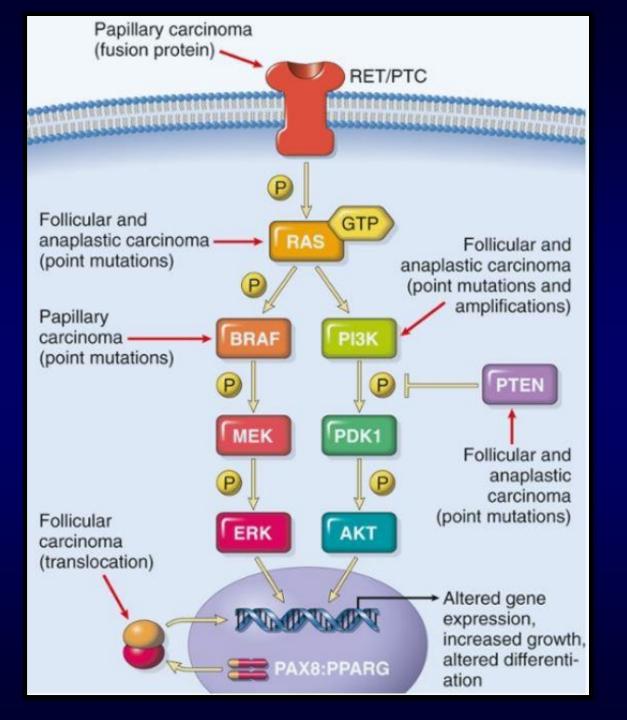
HURTHLE CELL ADENOMA:



THYROID MALIGNANCIES:

- Relatively common but not aggressive
- More common in females
- Risk factors: ionizing radiation (Chernobyl 1986) and iodine deficiency

PAPILLARY CARCINOMA	85% LYMPH NODE METASTASIS
FOLLICULAR CARCINOMA	5-15% HEMATOGENOUS SPREAD
ANAPLASTIC CARCINOMA	< 5%; VERY AGGRESSIVE
MEDULLARY CARCINOMA (C-CELLS)	5%, MAYBE PART OF MEN2 SYNDROMES
LYMPHOMA	1% B CELL NON HODGKIN



PAPILLARY THYROID CARCINOMA

- Most common
- Relatively indolent, 10 year survival > than 95%, even with lymph node metastasis
- Uni and multifocal
- Preoperative dx by FNA is accurate
- Nuclear features most important
- Features: papilae, nuclear grooves, pseudonuclear inclusions, psammoma bodies, Orphan Annie eye nuclei

