Papillary Problems
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Frequent consultation
• Is it ‘atypical’?
• Is it ‘papillary carcinoma’?
• Is it invasive?

Epithelial proliferation in papilloma
• None
• Usual hyperplasia
• Apocrine change
• Atypical ductal hyperplasia
• Atypical lobular hyperplasia (rare)
• Ductal carcinoma in situ
Relative Risk for Developing Cancer After Benign Biopsy

- **No increased risk**
  - cysts
  - duct ectasia
  - adenosis
  - hyperplasia, mild

- **Slightly increased risk**
  - hyperplasia, moderate or florid, no atypia
  - sclerosing adenosis
  - solitary papilloma

- **Moderately increased risk**
  - Atypical ductal hyperplasia
  - Atypical lobular hyperplasia

Intraductal Papilloma detected on core biopsy

- usually excised
- upgrade rate up to 16% - no information on imaging concordance
- selection bias
- may be symptomatic

Management of benign intraductal solitary papillomas diagnosed on core biopsy

- 224 cases
- 77 had excision, no upgrades
- 147 did not have excision
  - 100 had stable imaging follow up
  - 47 lost to follow up

Swapp R et al (Mayo Clinic); Ann Surg Oncol 2013
?Atypical Papilloma?

DCIS vs ADH vs FHWA: cytology and histology

UH vs ADH/LG DCIS
Same rules apply as outside the papilloma setting

- Cellular streaming
- Overlapping
- Cellular heterogeneity
- Even cell placement
- Uniform population
- Rigid architecture
ADH in papilloma
DCIS INVOLVING INTRADUCTAL PAPILLOMA AND ADJACENT DUCTS
LOW GRADE DCIS INVOLVING PAPILLOMA AND ADJACENT DUCTS

“Papillary DCIS”
DCIS involving micropapillomas
LOW GRADE DCIS INVOLVING MICROPAPILLOMAS
LOW GRADE DCIS IN MICROPAPILLOMAS

? Is it invasive?

[Image of histological section]
Low grade DCIS in sclerosed papilloma

Sclerosed Papilloma

Infiltrative pattern
Sclerosed papilloma with osseous metaplasia
Low grade adenosquamous carcinoma arising in setting of sclerosed papilloma
TERMINOLOGY?
WHAT'S IN A NAME?

• Encapsulated papillary carcinoma

• Intracystic papillary carcinoma

• Or........

WHAT'S IN A NAME?

• Encapsulated papillary carcinoma

• Intracystic papillary carcinoma

• DCIS INVOLVING AN INTRADUCTAL PAPILLOMA
Diagnosis

- Invasive mammary carcinoma, 5.0 mm in greatest extent, adjacent to DCIS in intraductal papilloma
- pT1a
Diagnosis

• Invasive mammary carcinoma, 1.5 mm in greatest extent, adjacent to DCIS in intraductal papilloma

• pT1a
WHAT'S IN A NAME?

• Solid papillary carcinoma

DCIS in an intraductal papilloma
INVASIVE PAPILLARY CARCINOMA
Thank you!