Cases from My Referral Practice Teaching Files & Dermpathpro Spot Diagnosis

Theme : Adnexal Lesions Self-Assessment / Spot Diagnosis Challenge Cases 1 to 3

Benign v's Malignant

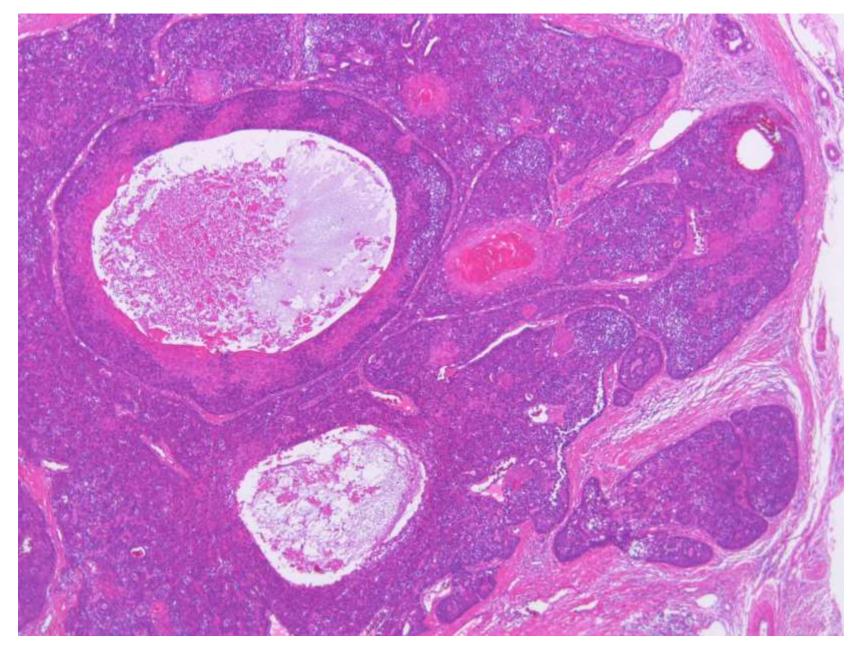
A. Adenoma (1 point)

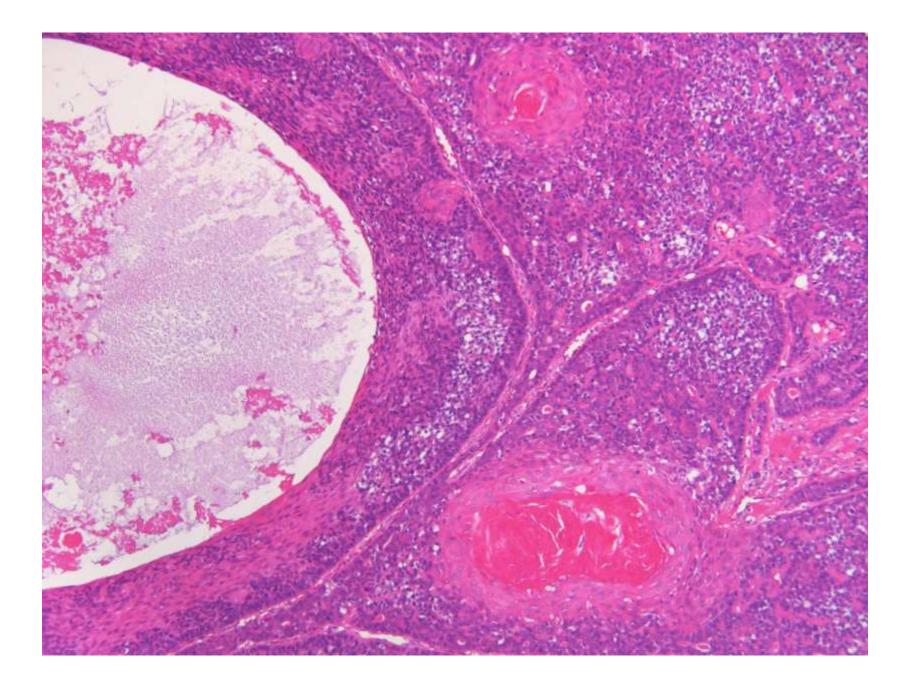
Subtype (bonus 1 point) Papillary adenoma Hidradenoma Spiradenoma Other

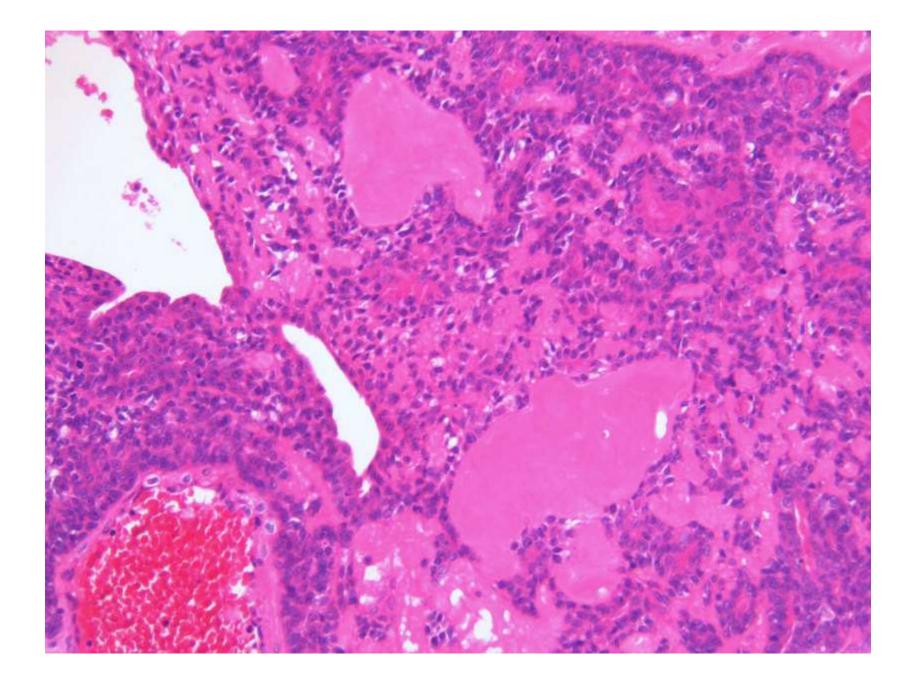
B. Adnexal Ca (1 point)

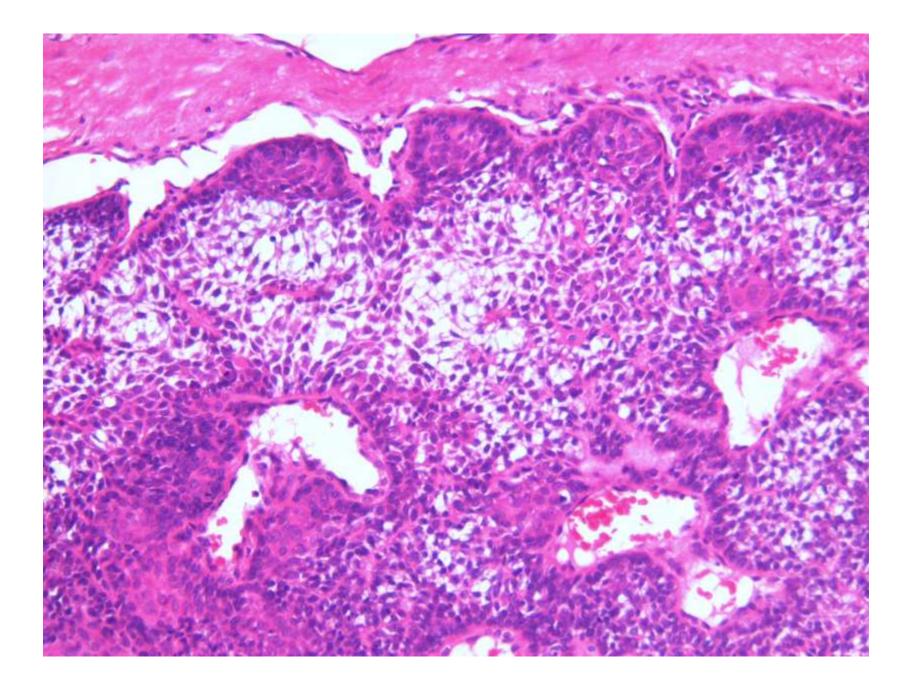
Digital papillary AdenoCa Spiradenocarcinoma Hidradenocarcinoma Adenoid cystic carcinoma Other

Spot Diagnosis: Case 1









Benign v's Malignant

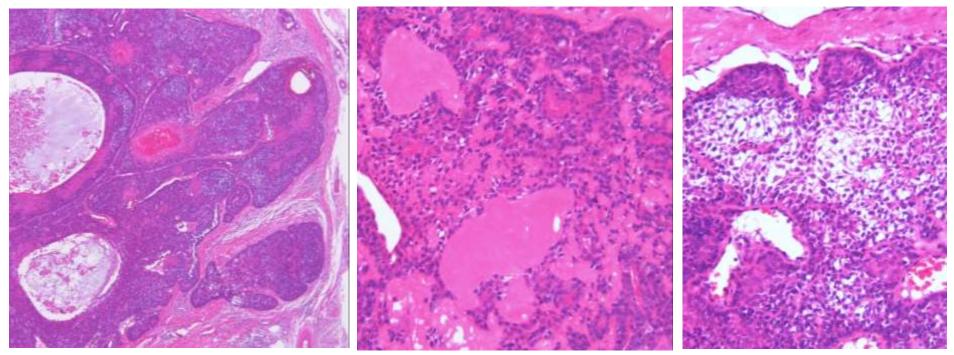
A. Adenoma (1 point)

B. Adnexal Ca (1 point)

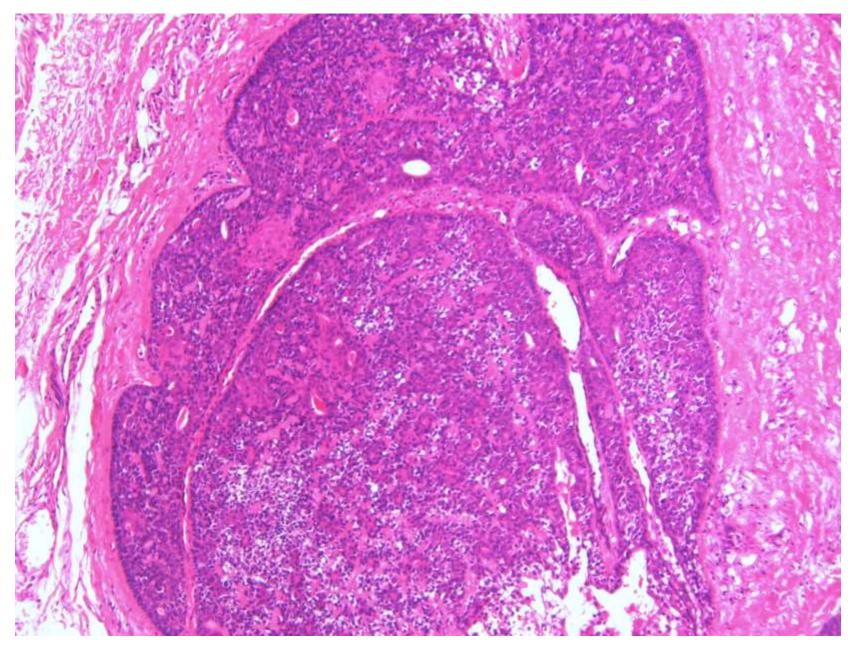
Subtype (bonus 1 point)

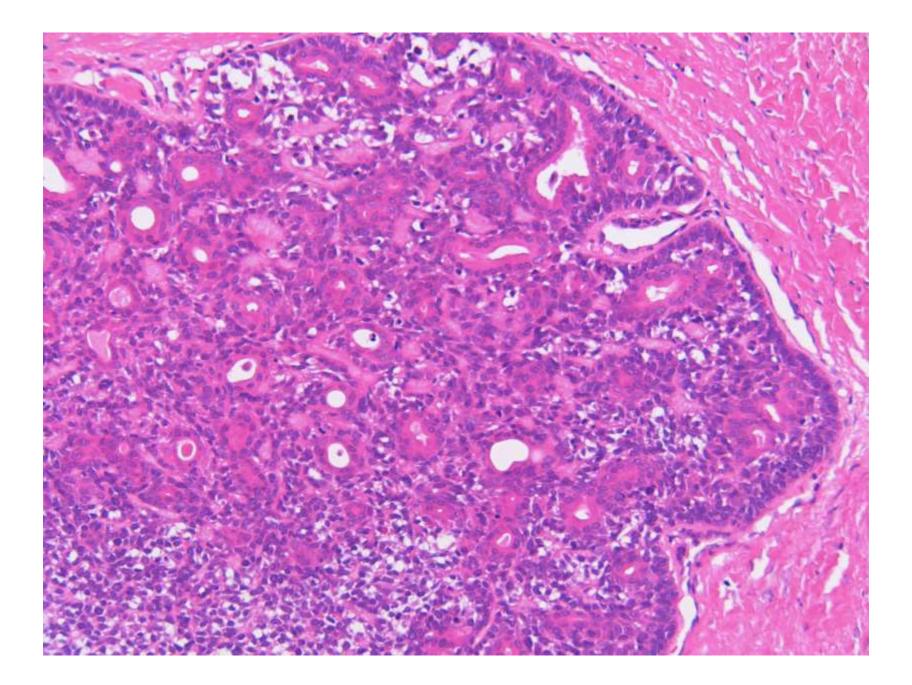
Papillary adenoma Hidradenoma Spiradenoma Other

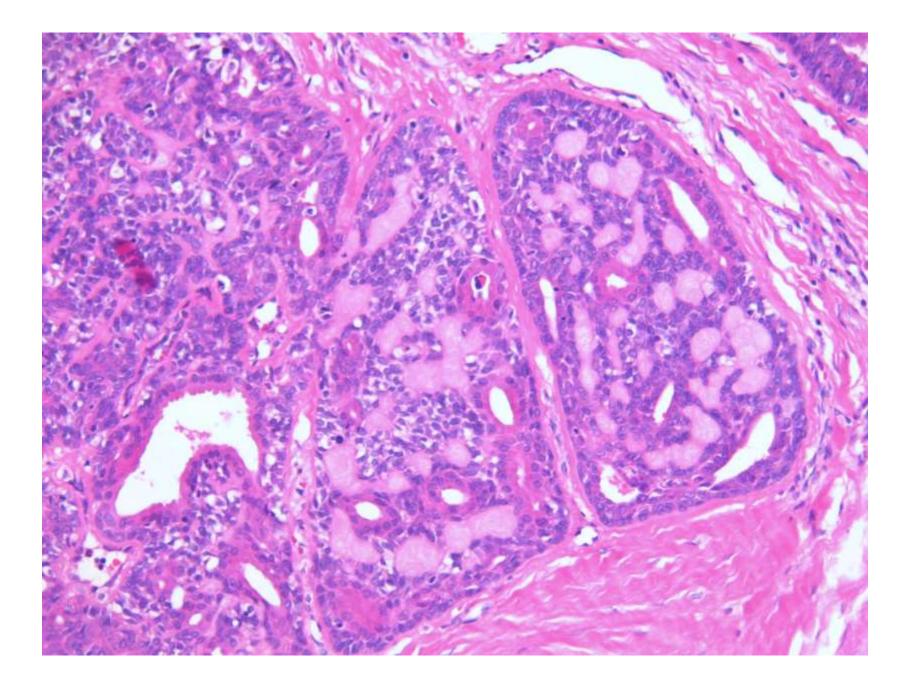
Digital papillary AdenoCa Spiradenocarcinoma Hidradenocarcinoma Adenoid cystic carcinoma Other



Spot Diagnosis: Case 2







Benign v's Malignant

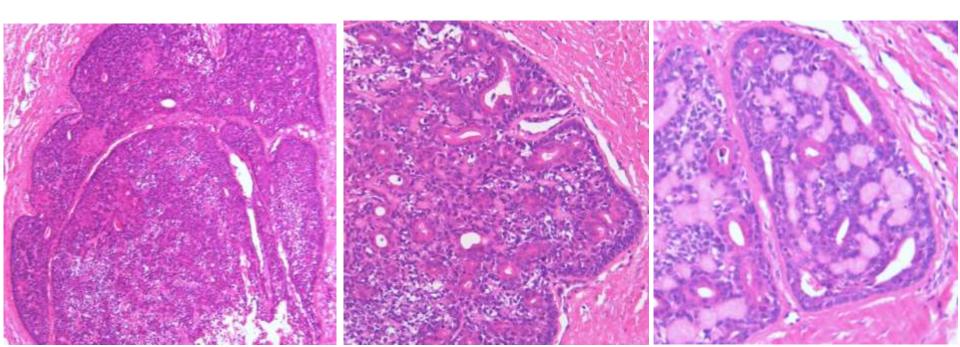
A. Adenoma (1 point)

B. Adnexal Ca (1 point)

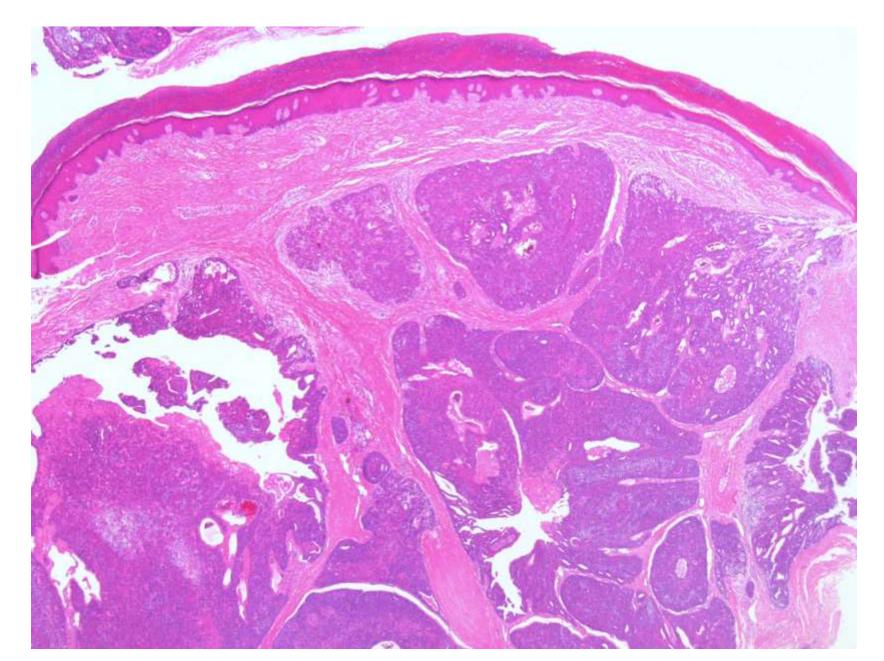
Subtype (bonus 1 point)

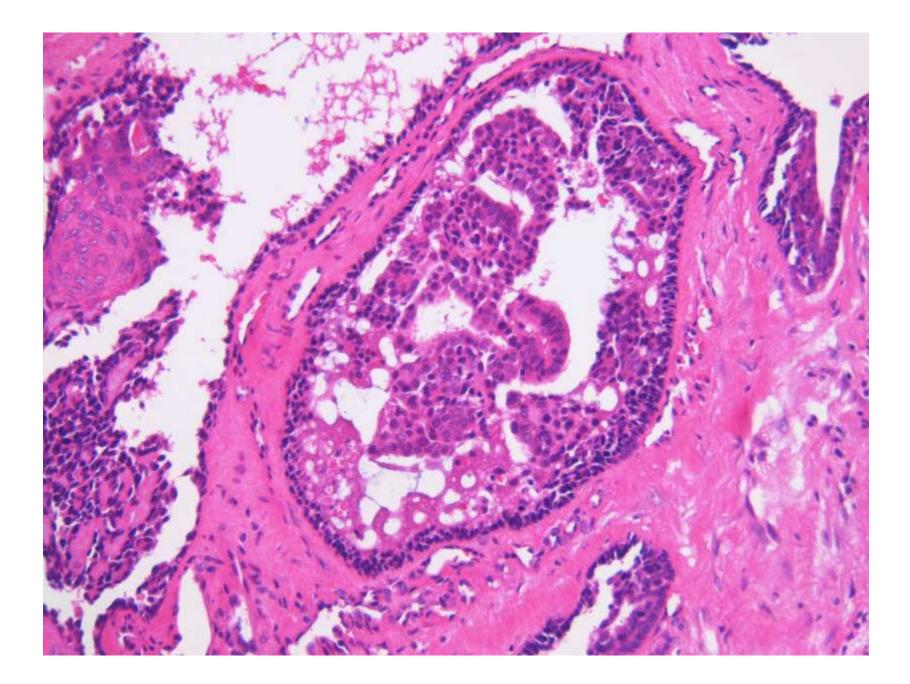
Papillary adenoma Hidradenoma Spiradenoma Other

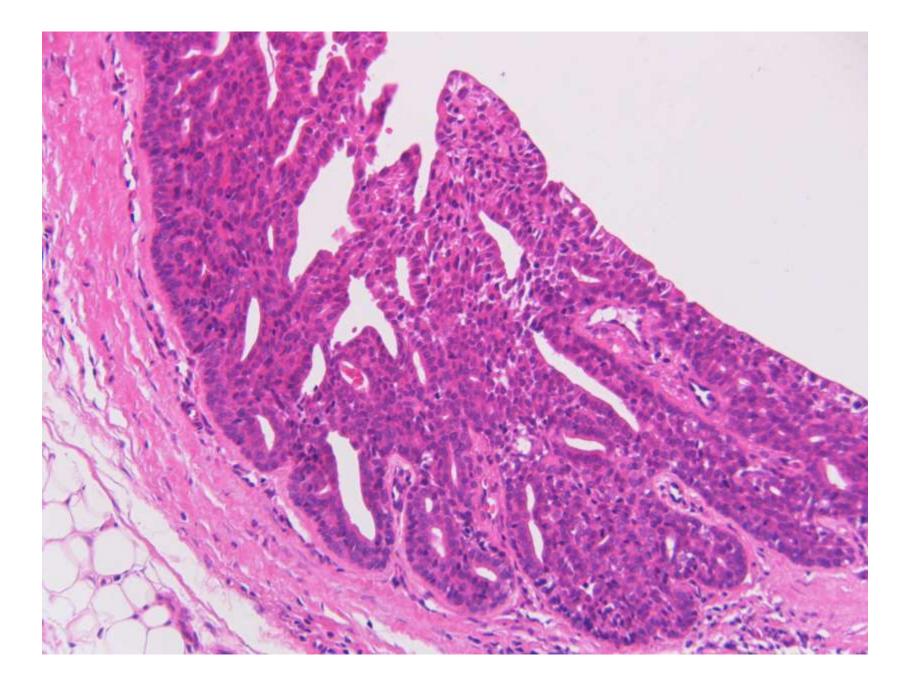
Digital papillary AdenoCa Spiradenocarcinoma Hidradenocarcinoma Adenoid cystic carcinoma Other

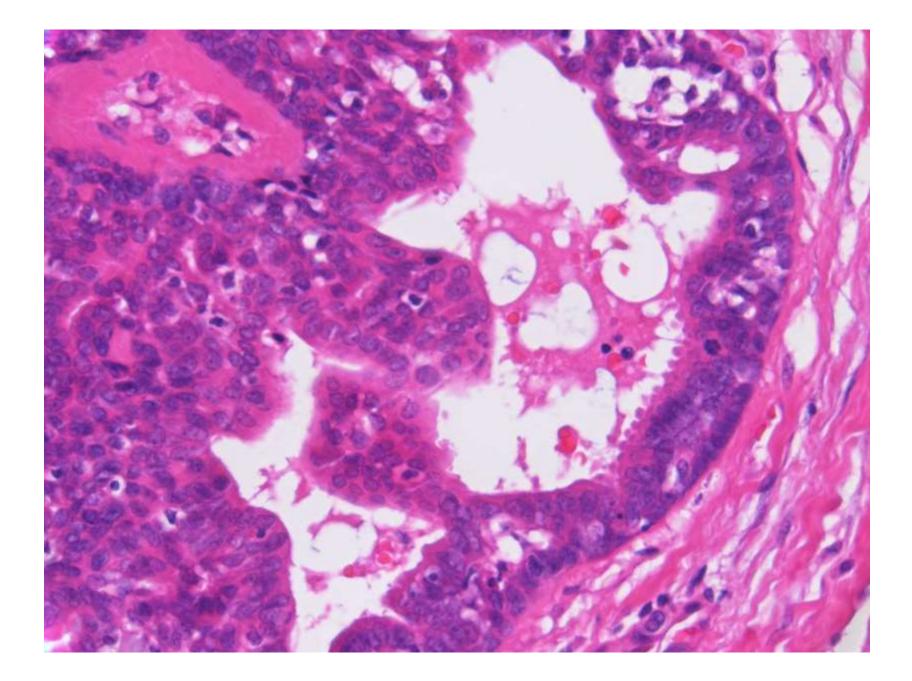


Spot Diagnosis: Case 3









Benign v's Malignant

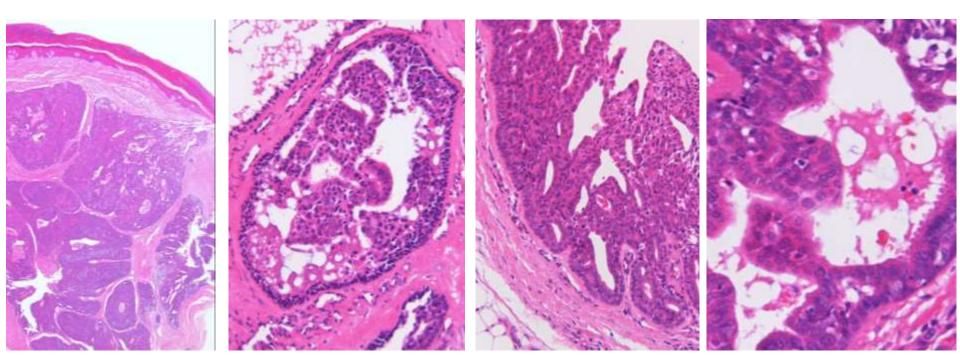
A. Adenoma (1 point)

B. Adnexal Ca (1 point)

Subtype (bonus 1 point)

Papillary adenoma Hidradenoma Spiradenoma Other

Digital papillary AdenoCa Spiradenocarcinoma Hidradenocarcinoma Adenoid cystic carcinoma Other



Theme : Adnexal Lesions Self-Assessment / Spot Diagnosis Challenge **Answers**

Cases 1 to 3

Benign v's Malignant

A. Adenoma (1 point)

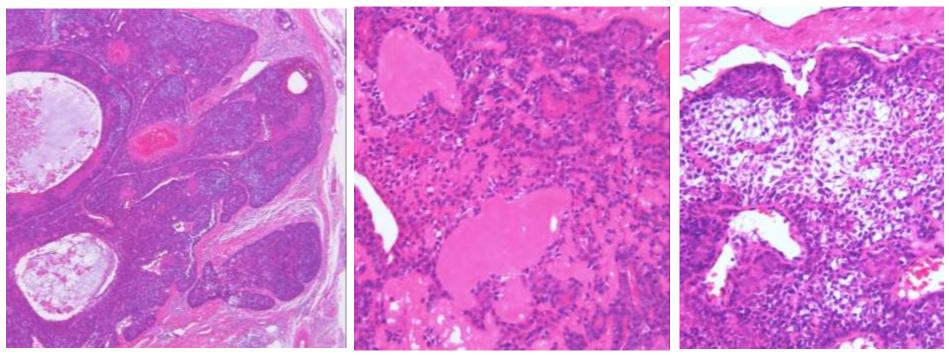
B. Adnexal Ca (1 point)

Subtype (bonus 1 point)

Answers

Papillary adenoma Hidradenoma Spiradenoma Other

Digital papillary AdenoCa Spiradenocarcinoma Hidradenocarcinoma Adenoid cystic carcinoma Other

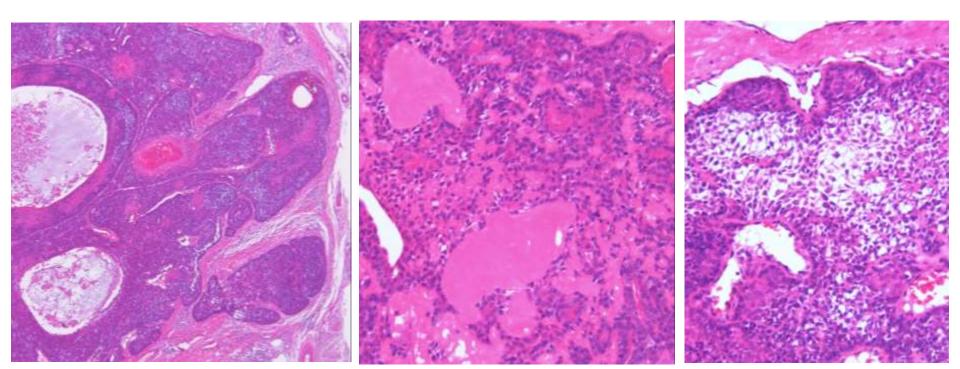


(1 point)

Answers

Benign v's Malignant Adnexal Carcinoma

Subtype Digital Papillary Adenocarcinoma (1 point)



(1 point)



Benign v's Malignant Adnexal Carcinoma

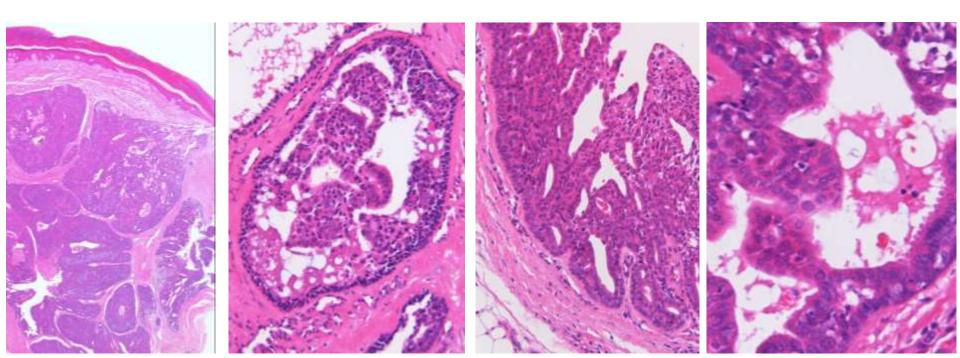
Subtype Digital Papillary Adenocarcinoma (1 point)

(1 point)

Answers

Benign v's Malignant Adnexal Carcinoma

Subtype Digital Papillary Adenocarcinoma (1 point)



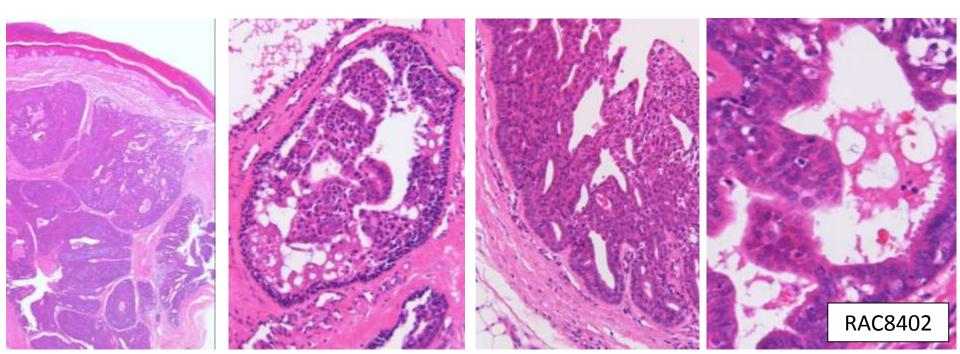
2005: M47. Right Thumb. "Lesion" excised by Orthopaedic surgeon

Macro: White fibrous nodule 15 x 14 x 10mm

Micro: "...consistent with a hidradenoma (acrospiroma), best considered atypical in view of mitotic activity. The lesion is incompletely excised...Suggest complete excision."

SUPPLEMENTARY REPORT

"I have discussed this case also with my colleagues. ...the behaviour is uncertain. Metastatic deposits may occur with atypical hidradenomas. This case should be discussed at MDM.

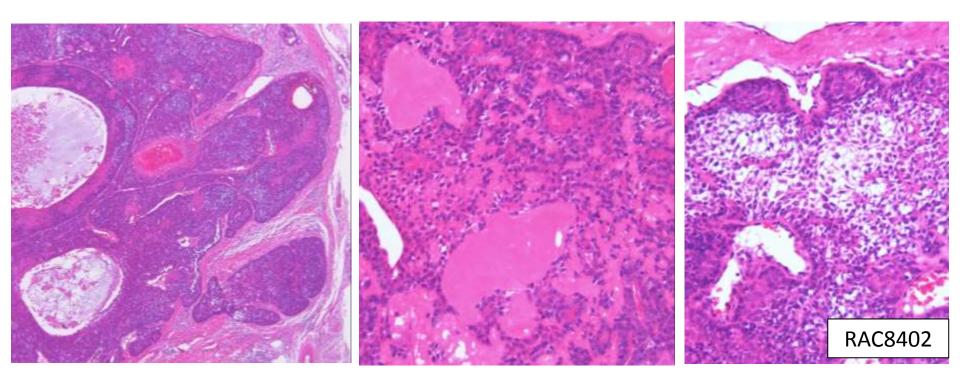


REVIEW AT EXTERNAL BONE / SOFT TISSUE CENTRE

"...eccrine differentiation...cystic spaces...tubular formation...clear cells...focal squamous differentiation...as small focus of increased mitotic activity (>10/10 hpf)...no necrosis...NPVI...

...features c/w atypical nodular hidradenoma.

...it should be noted the criteria for malignant nodular hidradenoma are not clearly defined"



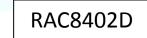
2019: M60. Known Stage 4 non small cell lung cancer Feb 2018.

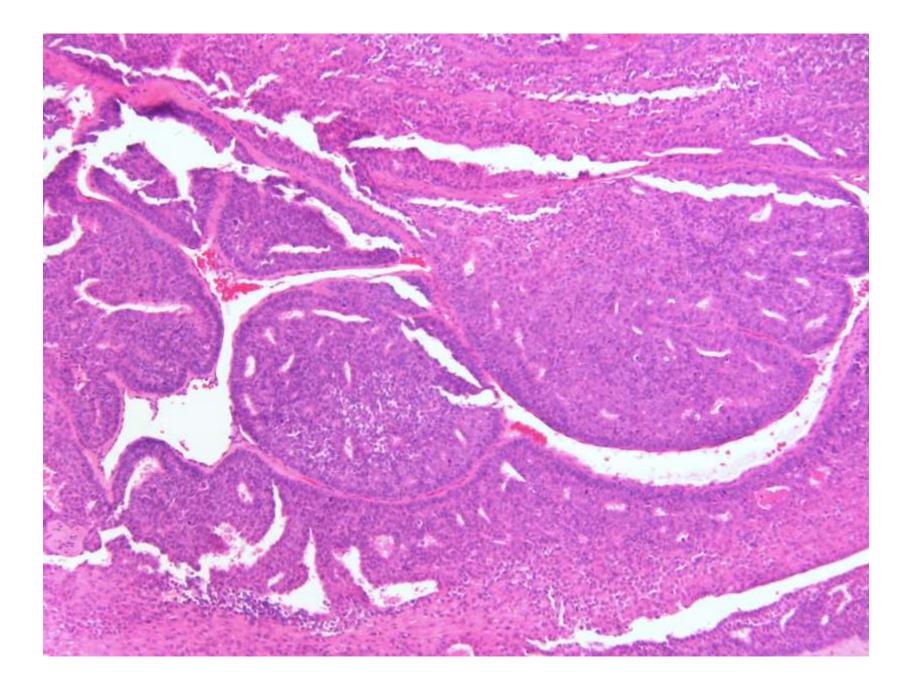
Cut toenail & inflamed right big toe developed growing vascular lesion, bleeding lesion. [No mention of "atypical hidradenoma Rt Thumb"]

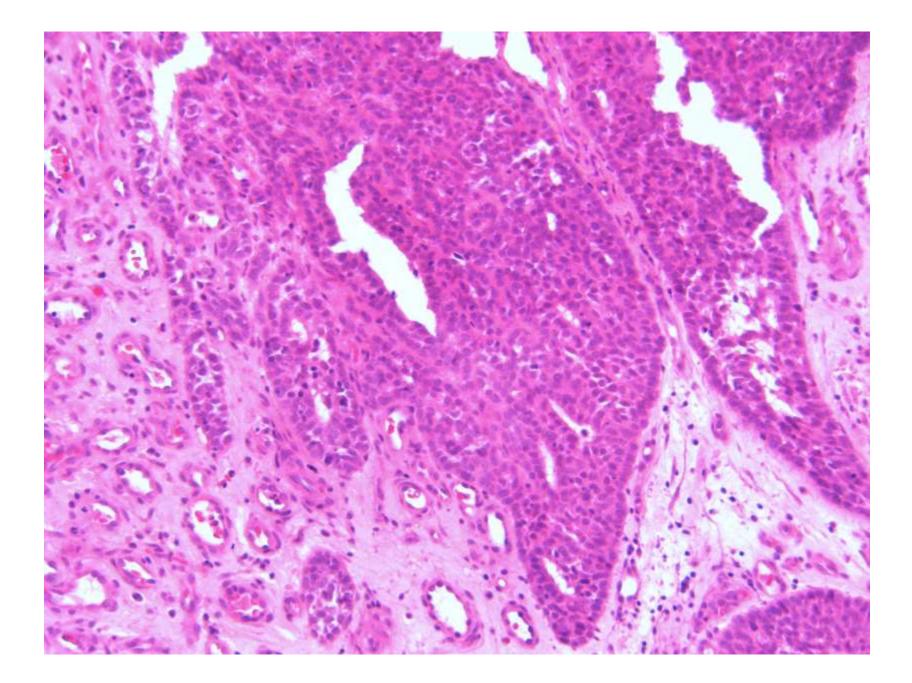
DDx:

?PG,

?amelanotic melanoma?granulation tissue?secondary metastasis





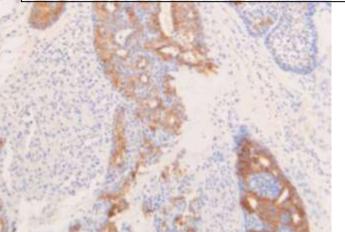


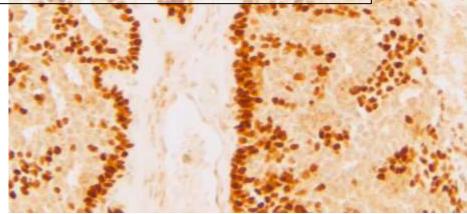


BerEP4

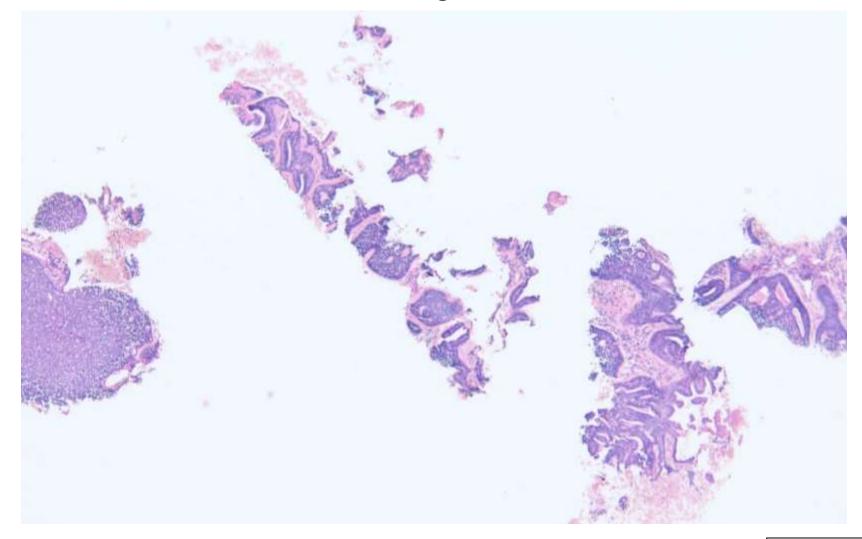
Case with colleague – shown to RAC ...in keeping with digital papillary adenocarcinoma. Excision recommended

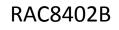
p63





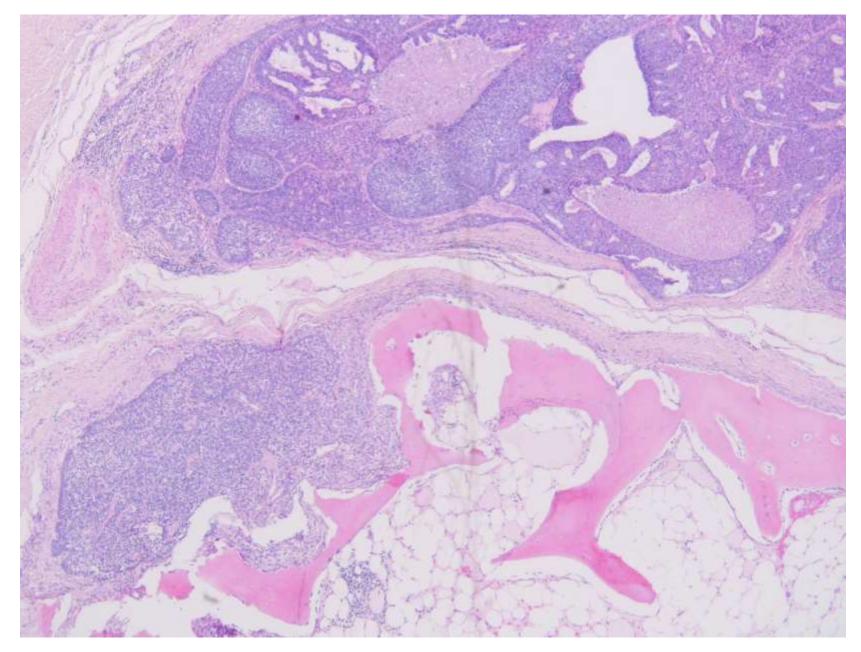
2019: MDM Discussion – Known stage 4 lung adenocarcinoma 2017: 4 "coin" lesions ?hamartomas of lung



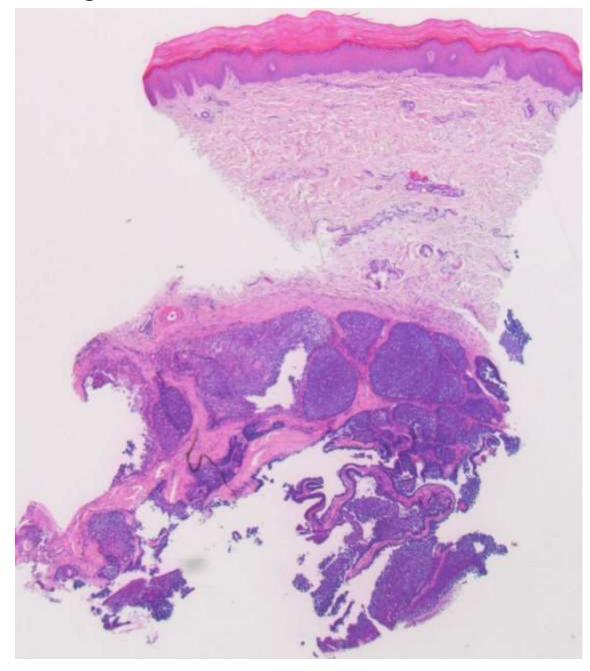


Case reported colleague ...Unusual adenoid cystic carcinomalike adenocarcinoma (TTF1 –ve)

2019: Metastatic DPA: Bone invasion right great toe



2019: Metastasis to right 2nd toe



2005: "Atypical Hidradenoma Rt Thumb"

2017: "... Unusual adenoid cystic carcinoma-like tumour lung

Treated for lung adenocarcinoma Stage 4

- 2019: Digital papillary adenocarcinoma Right big toe
- 2019: Digital papillary adenocarcinoma Right 2nd toe
- Review of the whole case: Digital papillary adenocarcinoma of the Right thumb (2005) with late lung (2017) and subsequent aggressive toe metastases (2019)
- 2020: 2005 & 2019 representative blocks sent to Thomas Weisner for HPV42 testing (pending)

Highly sensitive assay developed for virus detection in FFPE tissue

HPV42 contributes to pathogenesis of DPA and might be a therapeutic target

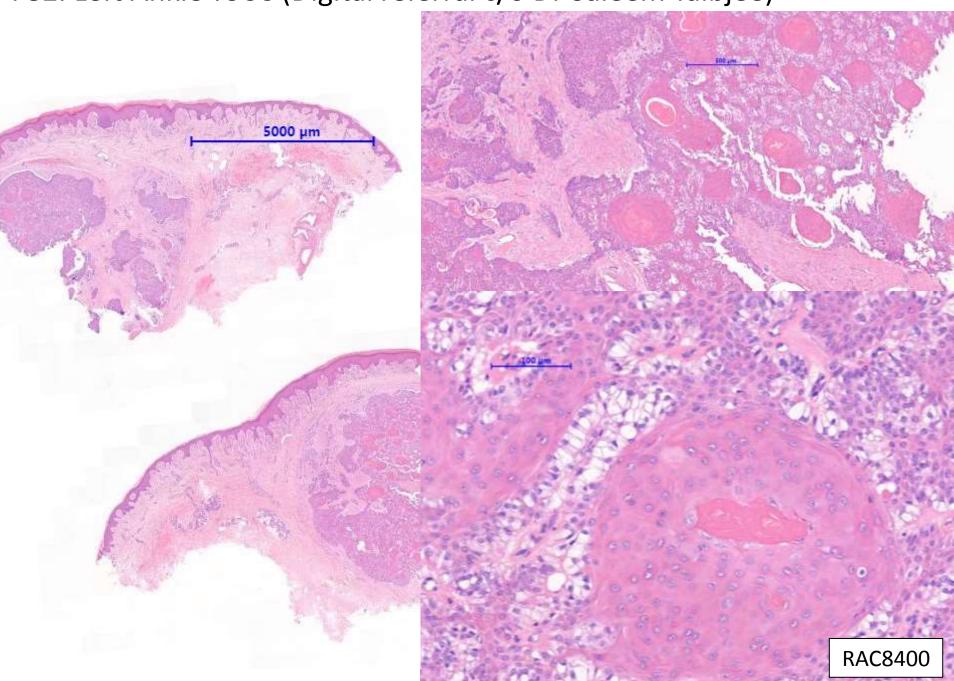
HPV42 can be re-classified as a high risk based on intergration of 7 crucial aminoacids of the E6 / E6AP / p53 complex

Learning Points

- 1. Beware the "adenoma" of the digit
- 2. Show case to dermatopathologist for second opinion
- 3. Actively ask about past medical history at MDM discussion and act on the findings
- 4. DPA have protean histological features perhaps better named "polymorphous" adenocarcinoma of the digit
- 5. These are generally "indolent" lesions and quite unpredictable but the term "aggressive" should not be applied
- 6. Recent finding: HPV42 (low risk in the setting of squamous epithelium) is high risk in the setting of the sweat duct/gland and may be specific for DPA

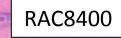
Next Case

F82. Left Ankle ?SCC (Digital referral c/o Dr Saleem Taibjee)

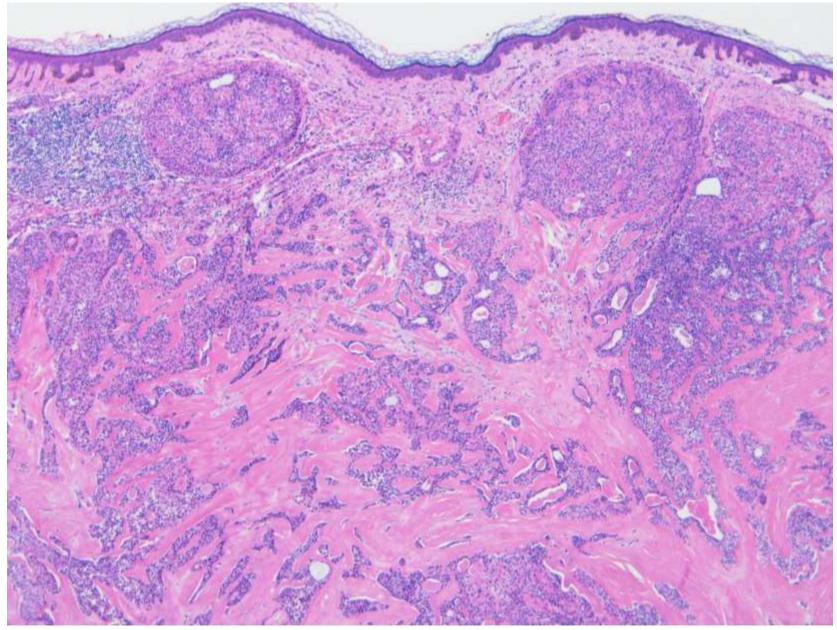


- My Diagnosis -Hidradenoma Pauciluminal, squamous morular Advice: Complete Excision

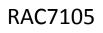
200 µm

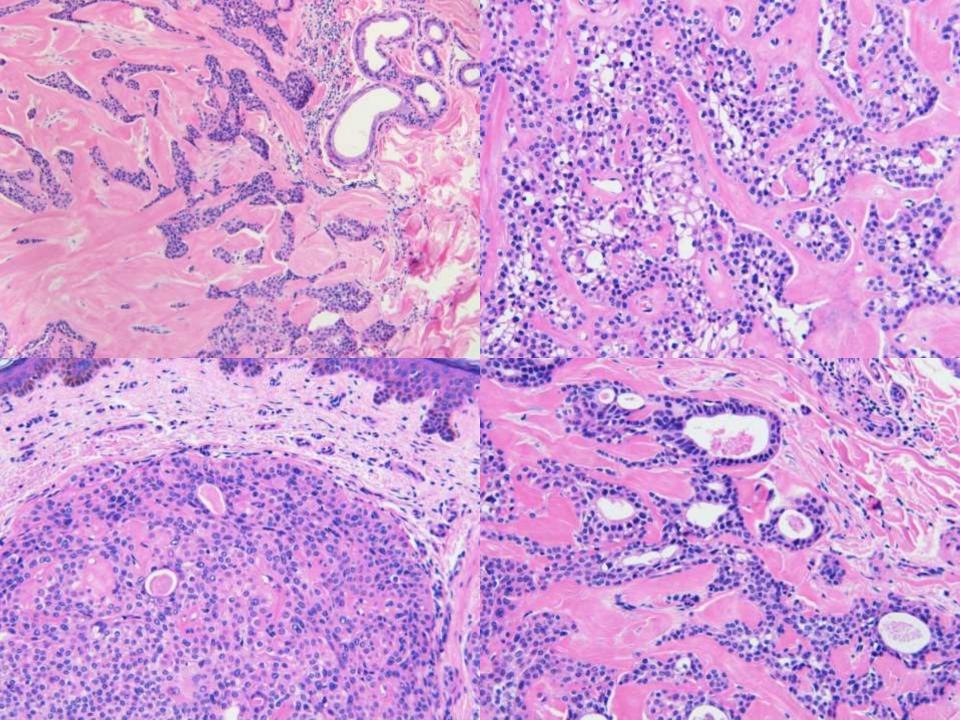


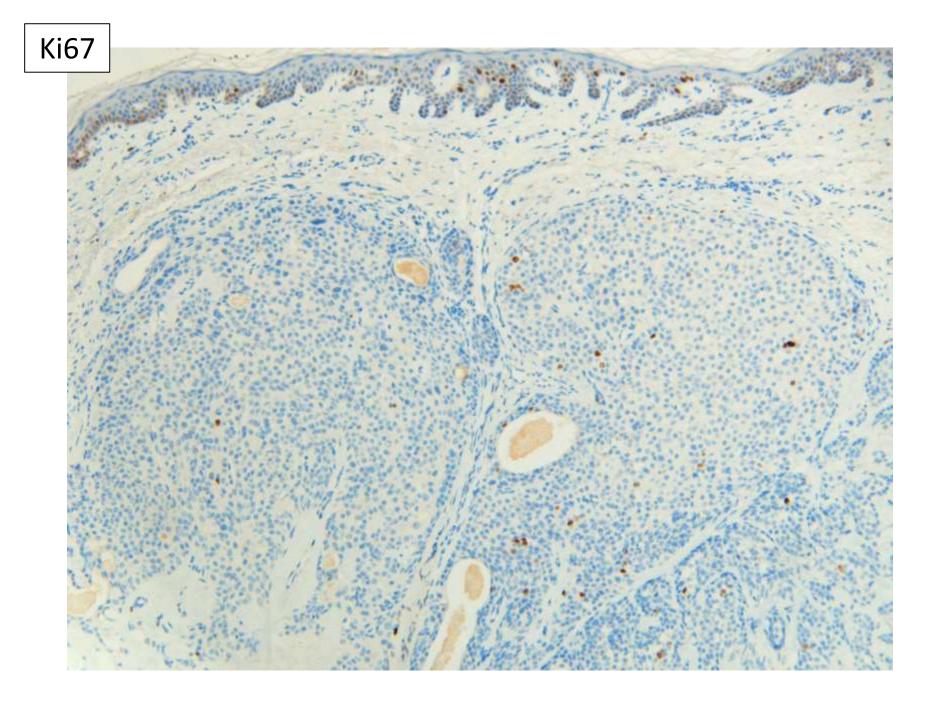
F67. Left foot. 6/12, increased in size



Referred Case c/o Saleem Taibjee







s/b National Expert: Hybrid follicular, glandular elements, very bland, concerning feature is the "infiltrative" growth pattern with extension on to margin. On this basis **low grade malignancy cannot entirely be excluded**, and despite the lack of likely metastatic potential, local recurrence is a possibility as indicated in the original report. Conservative re-excision may be advisable.

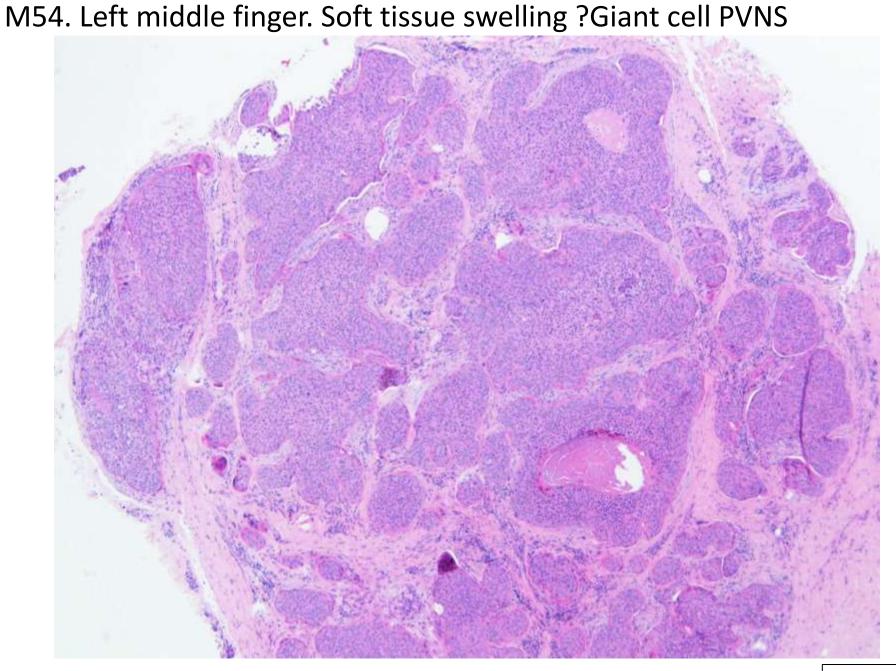
RAC: Rounded pushing overall profile. Rather infiltrative appearing pale and clear cells central squamous morular / squamous cuticular ductal differentiation but lumina sparse (strongly by CEA and to a lesser extent EMA) with amorphous secretions strongly +ve for PAS and EMA). BerEP4 patchy moderate ++50%, CK5 diffuse, Ki67 5-10%. Amorphous stroma typical of hidradenoma and lesion extensively sclerotic centrally. Sparse calcicification some rounded psammoma like but larger. Focally myofibroblastic spindle cells stroma slightly myxoid but not typically chondroid. In my opinion **a typical example of a sclerosing variant of hidradenoma**. No worrying features for malignancy but local recurrence is a possibility.

No mitoses. No cellular pleomorphism.

Dear Richard,

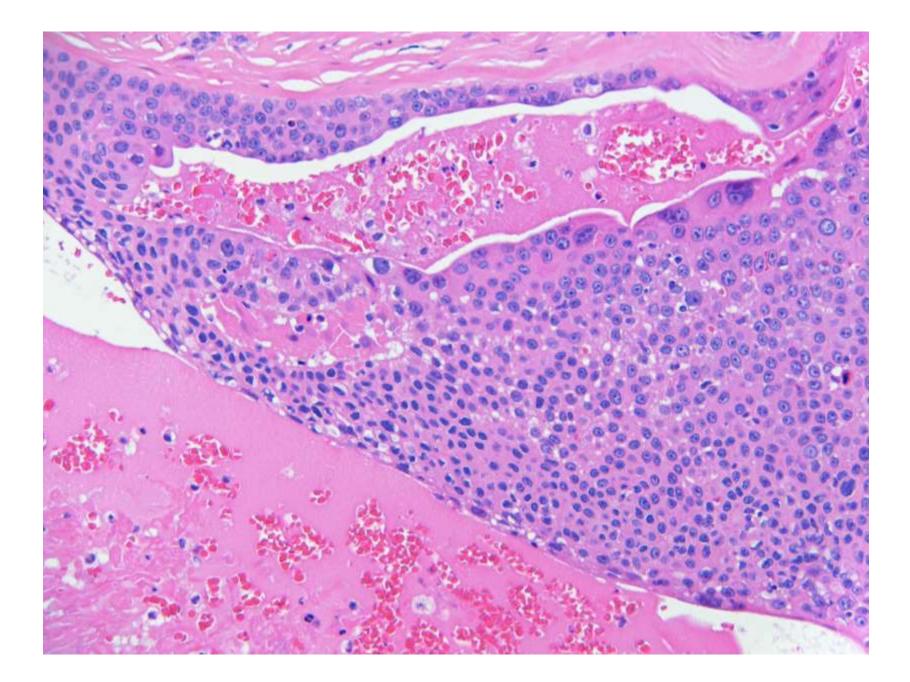
Thank you for sending me this interesting case. I completely agree with you that this is a **hidradenoma**. The sclerotic appearances are likely due to the location/ chronic repeated trauma. *I think it is a benign lesion but after having seen cases of benign metastatic hidradenoma, I would recommend complete excision.*

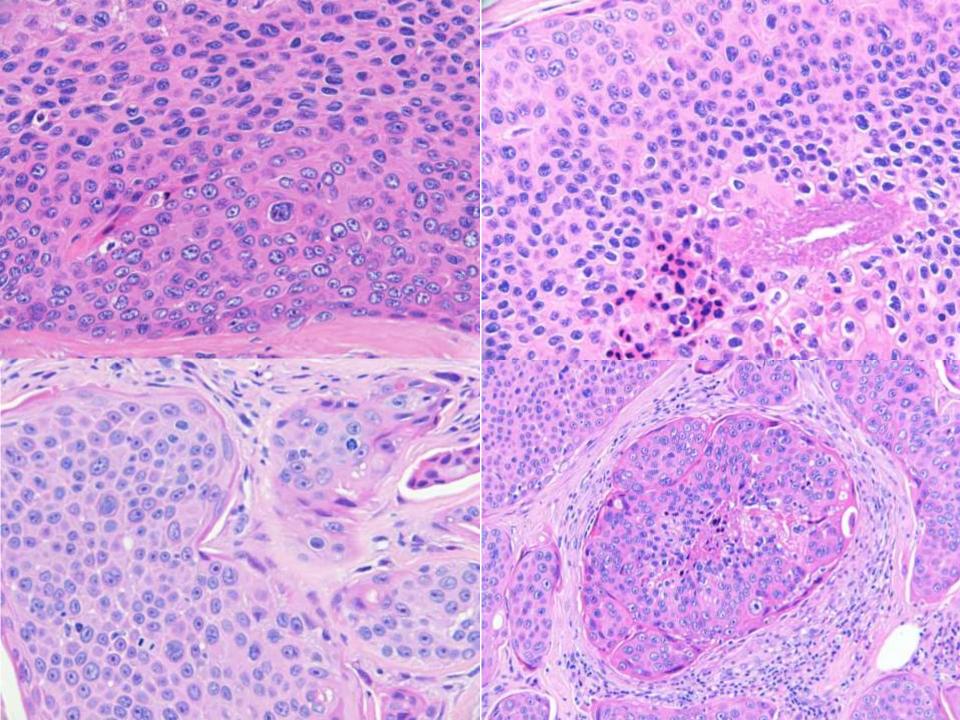
Best regards, Dmitry Kazakov



Referral Case c/o Dr Saleem Taibjee

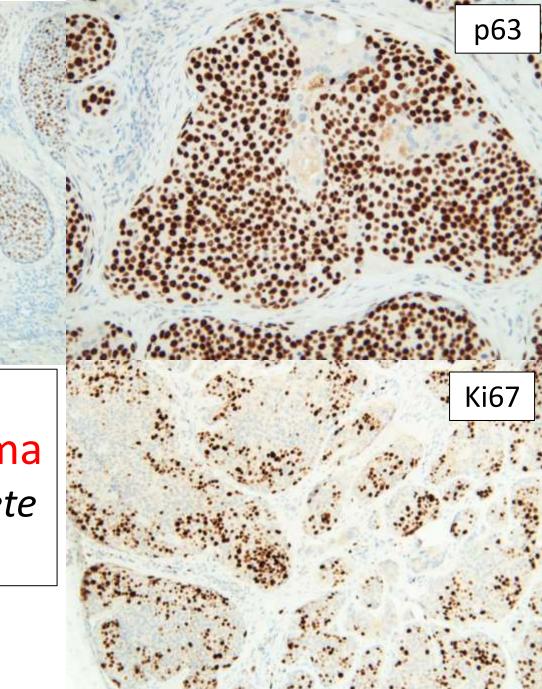






- My Diagnosis - **Atypical Hidradenoma** *Advice: Ensure complete excision*

p53



Atypical / Malignant Hidradenoma

[Nazarian RM et al Modern Pathology 2009; 22: 600-610]

Atypical

Frequent:

- Loss of circumscription
- Occasional:
- Infiltrative growth
- Necrosis (focal)
- Nuclear pleomorphism

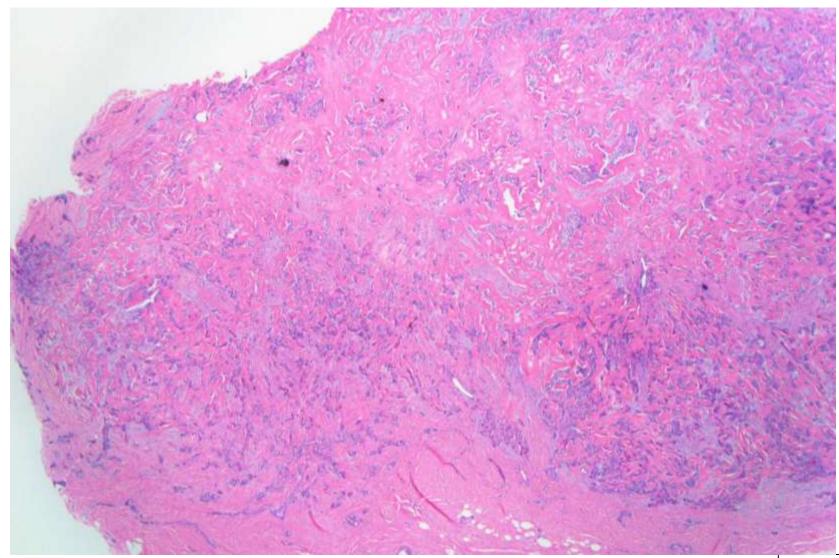
Malignant

Frequent:

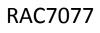
- Loss of circumscription
- Infiltrative growth
- Nuclear pleomorphism
- >4 mitoses/10HPF
- Necrosis (comedo)
- Deep extension

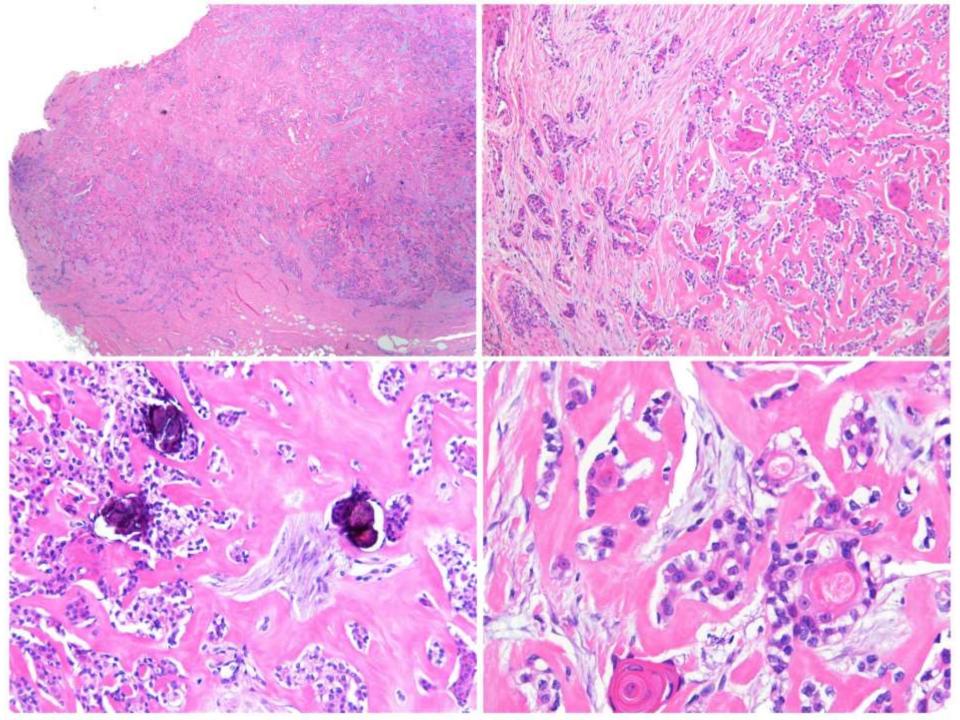
Occasional: PNI/LVI

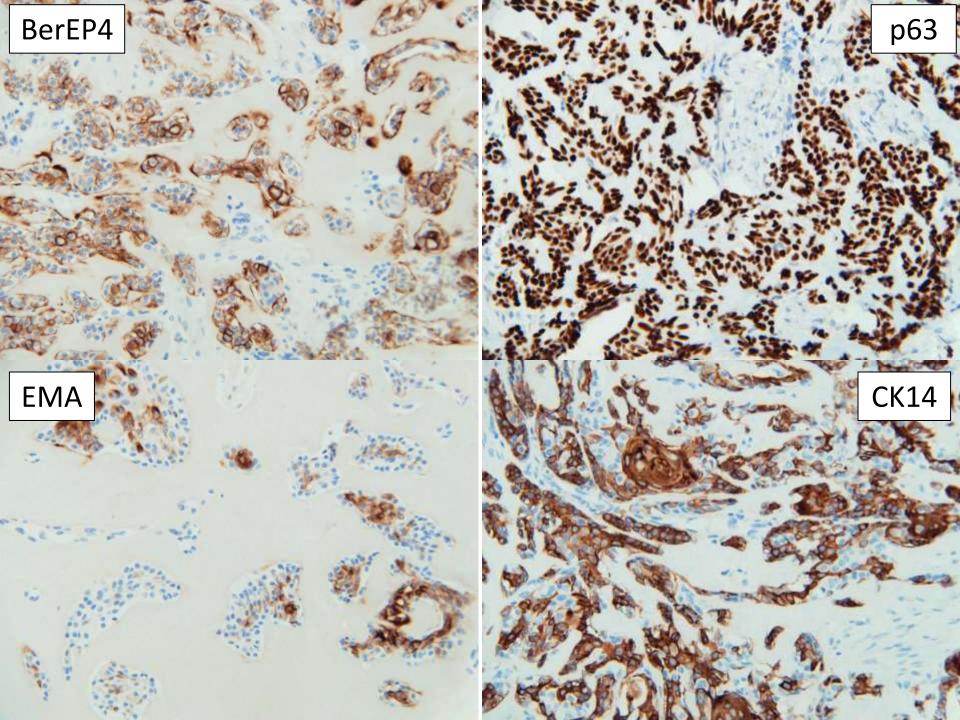
(2015) F63. Medial big toe (Rt). Previous cylindroma ear. "Benign" eccrine tumour left foot (2001) - Slides n/a. Recurrent swelling medial aspect Right big toe ? MTPJ area ? Nature of swelling.



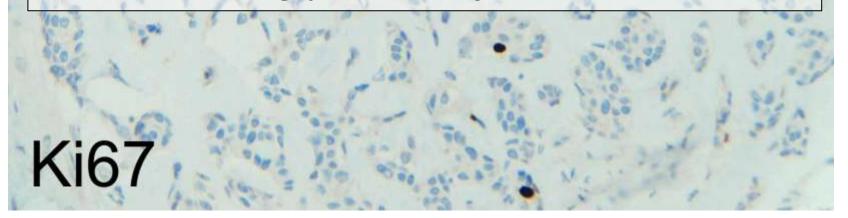
Referral Case c/o Rand Hawari



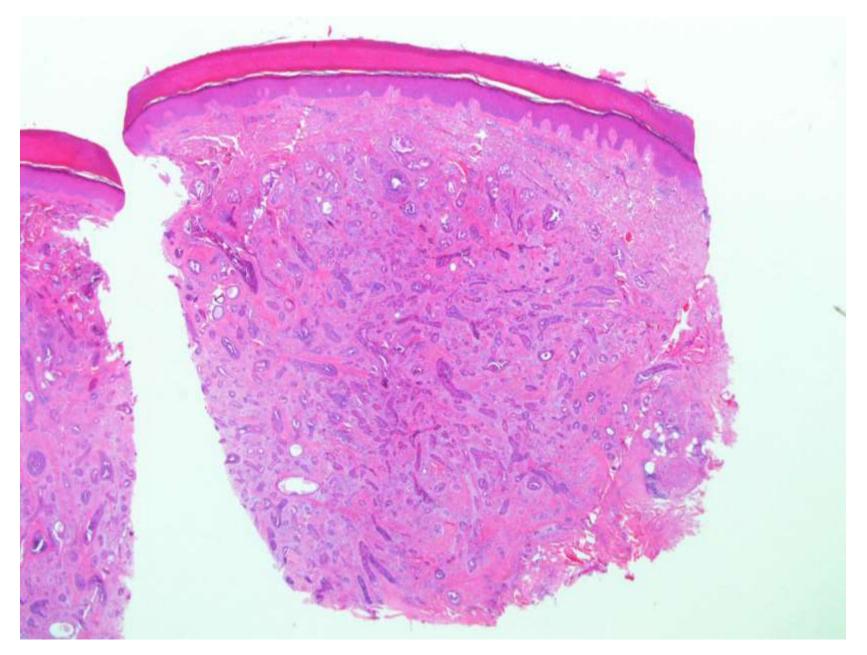


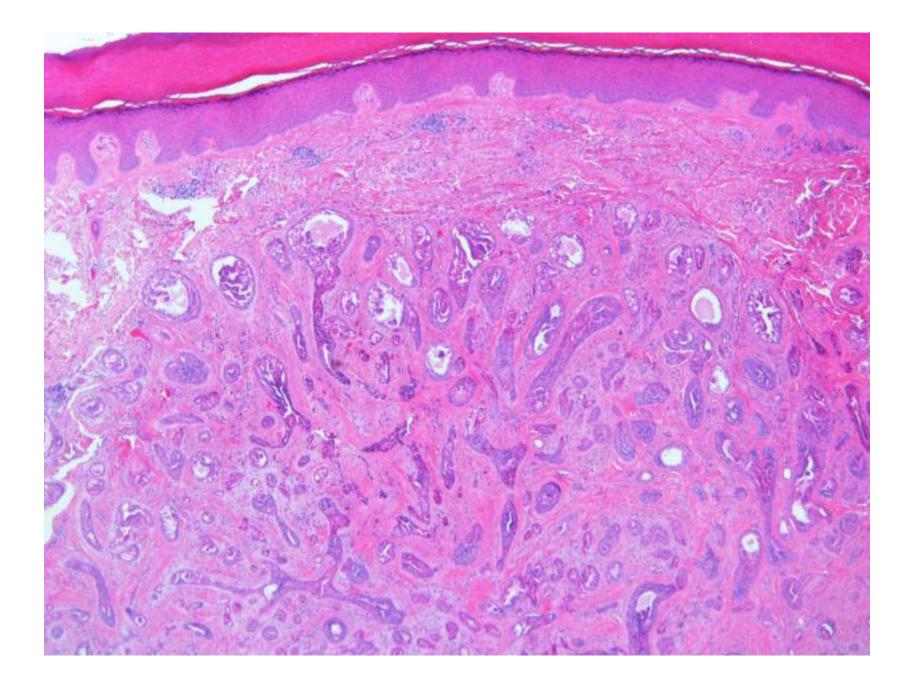


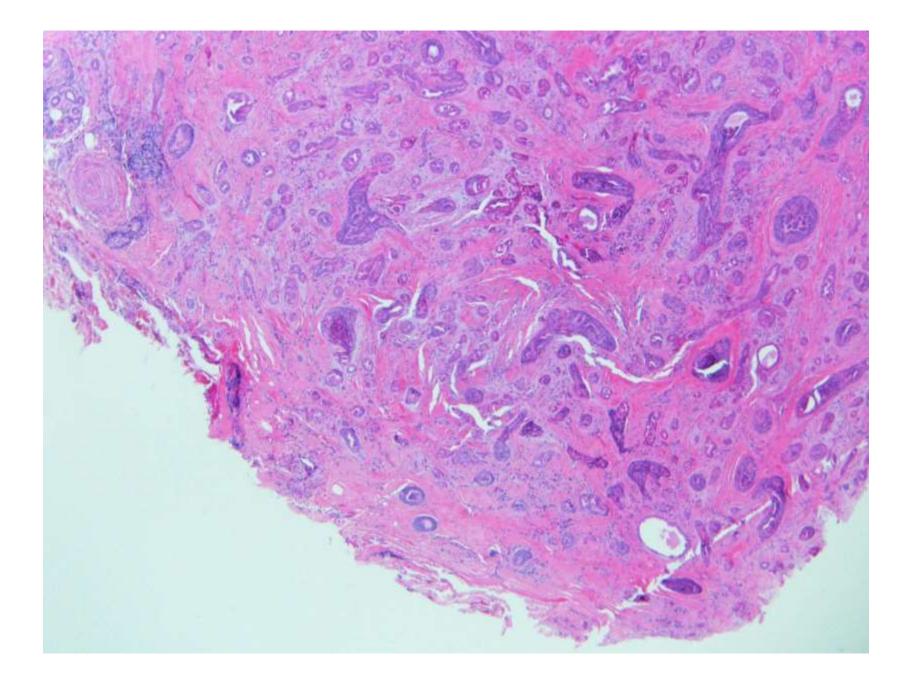
- My Diagnosis - **Hidradenoma, sclerosing, pauciluminal** *Advice: Local recurrence may occur, exceedingly low risk for metastasis*

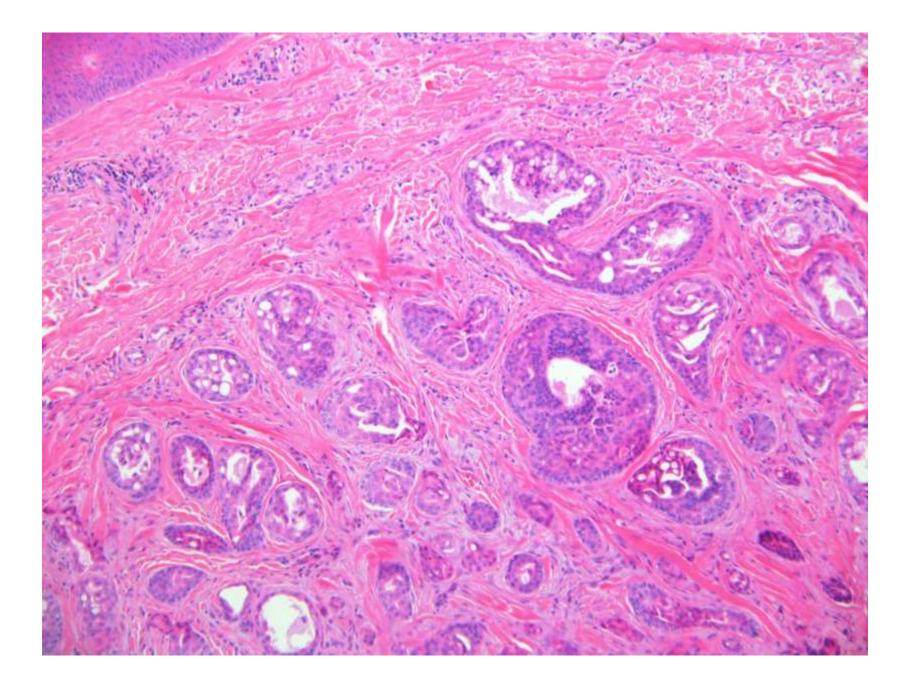


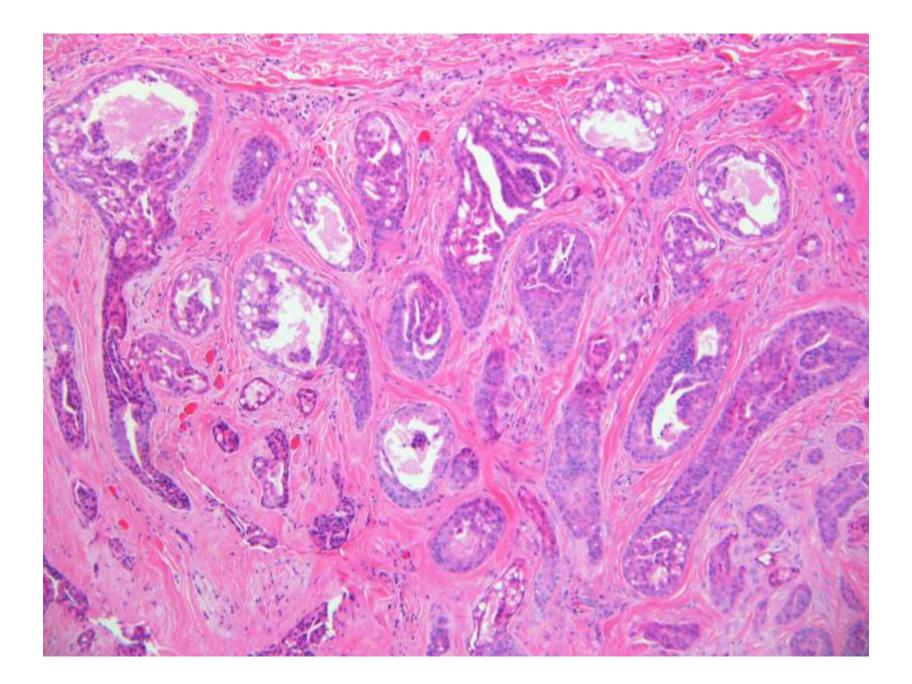
M59. 6/12 months, 13 x 11 pink nodule. ?Lymphoma. To exclude Merkel

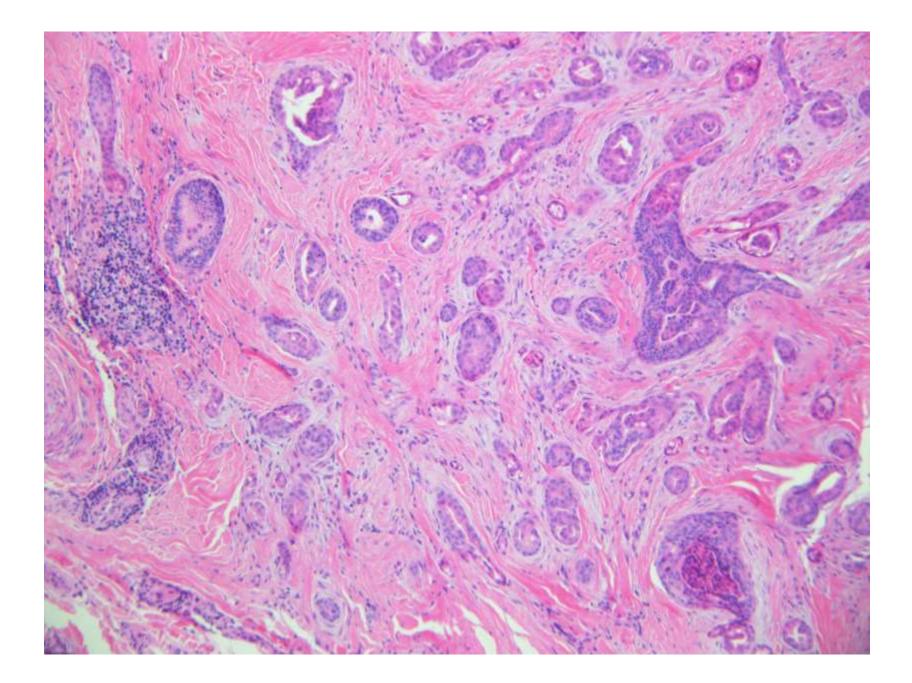


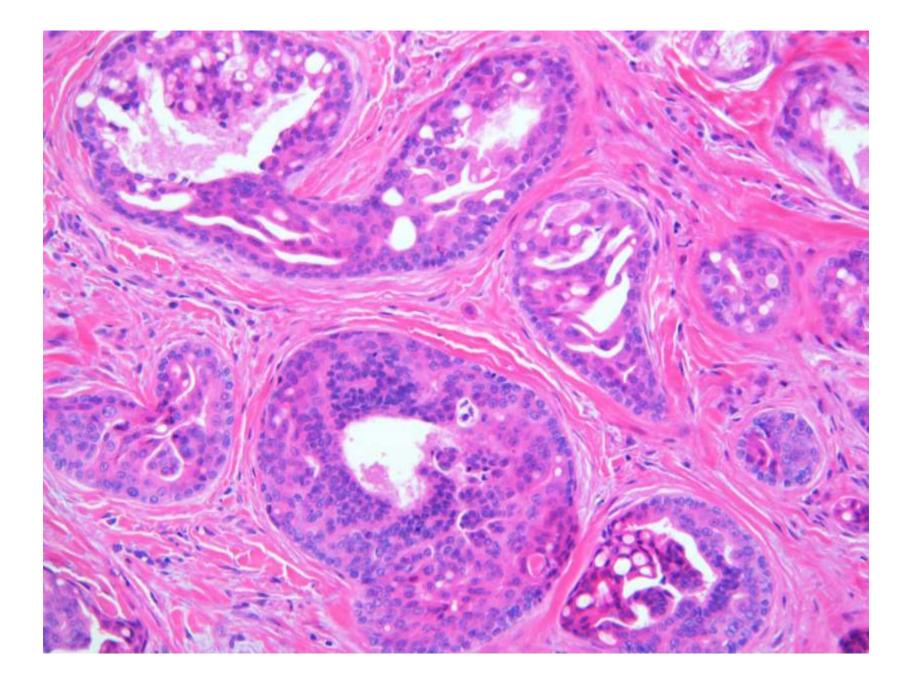


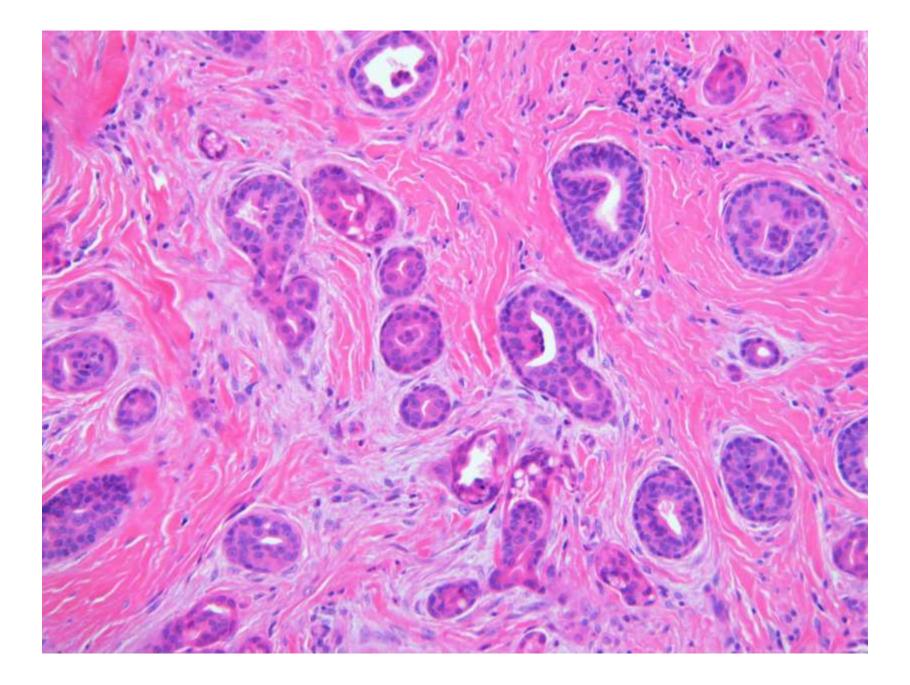


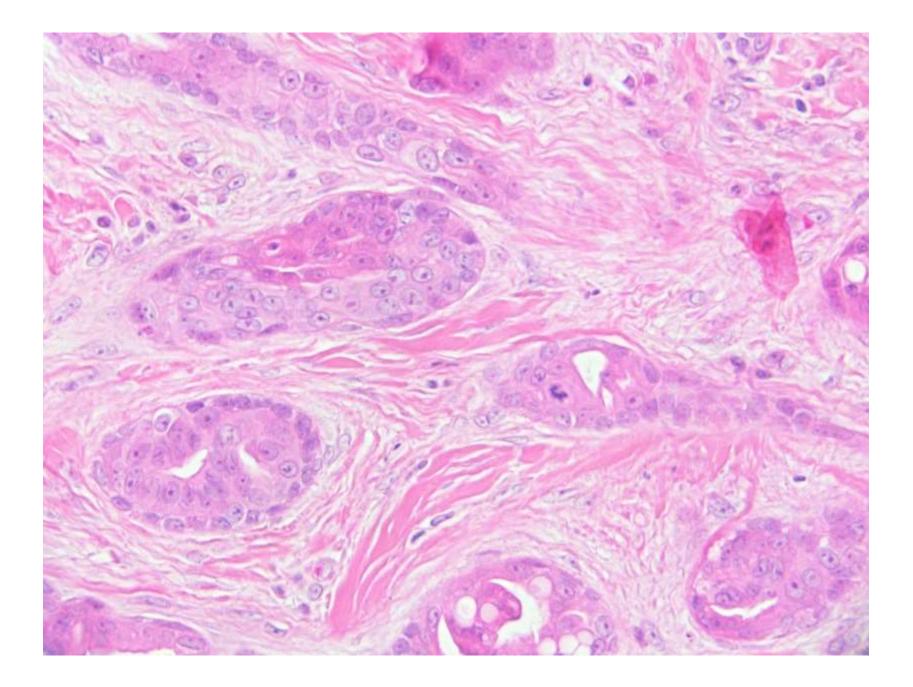


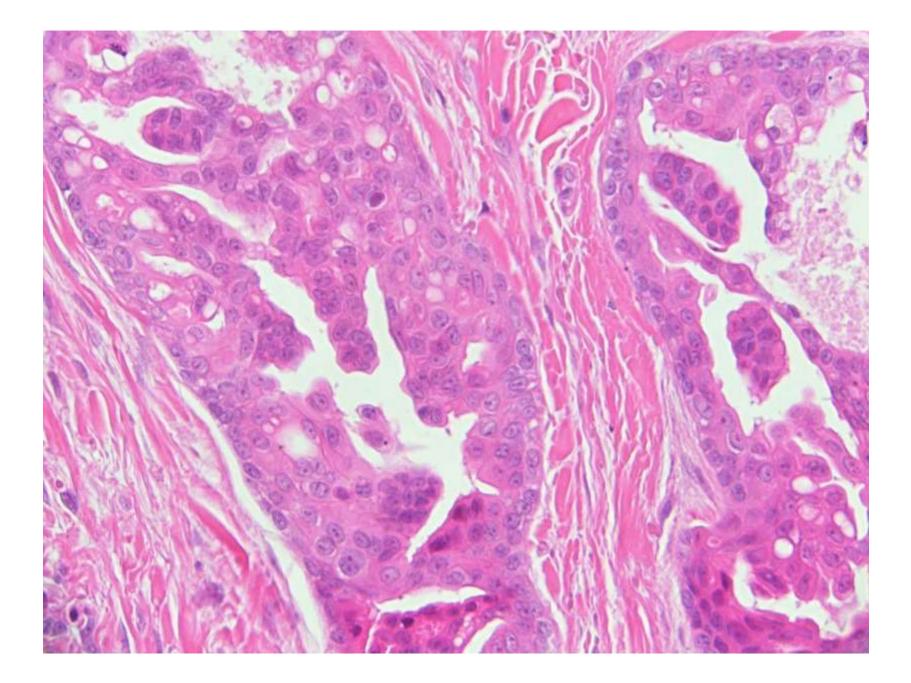


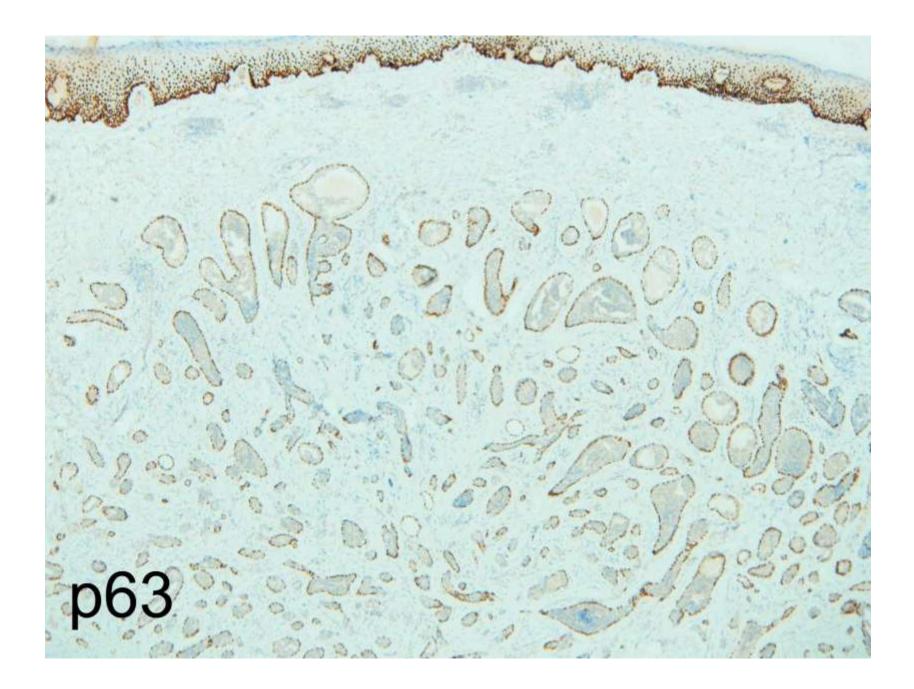


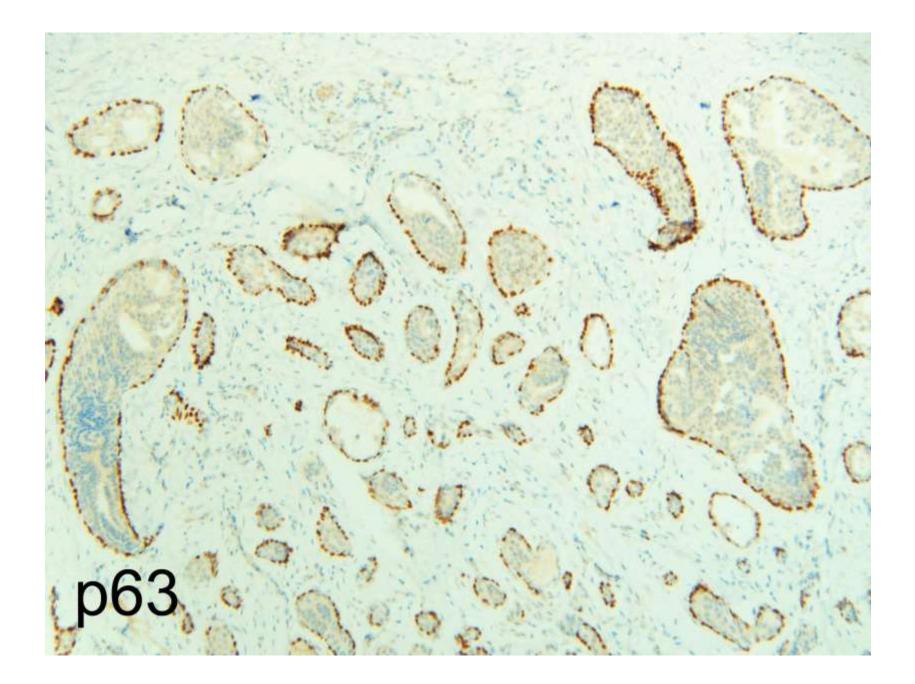


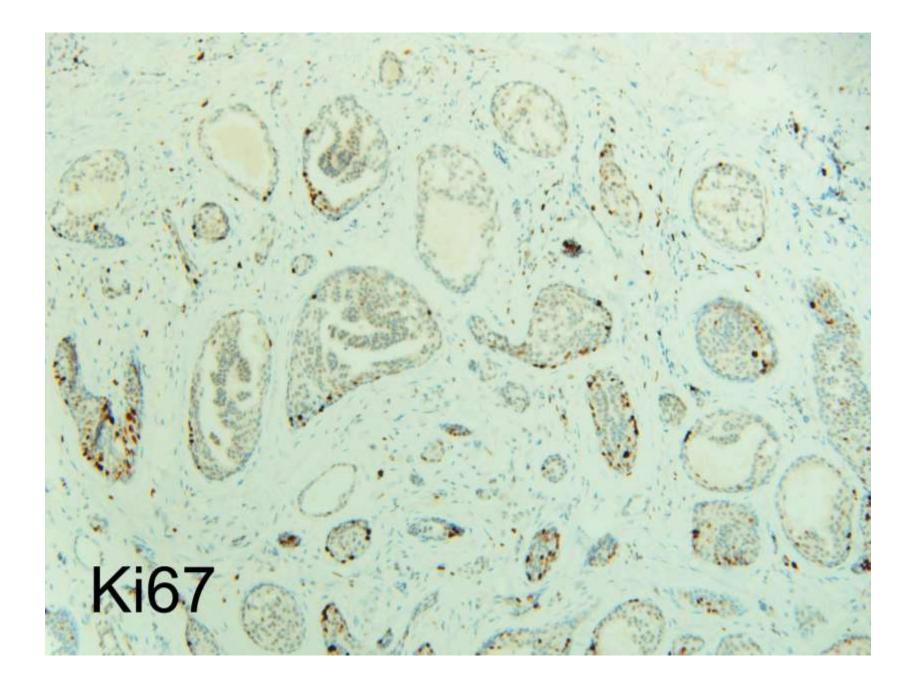








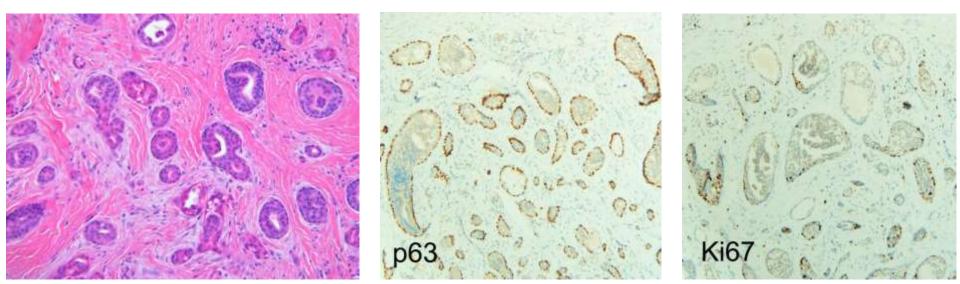




My report:

Part of a difficult low grade tubular adenomatous lesion with circumscript upper border (lower border slightly infiltrative but not fully sampled), sparse mitotic activity only and only mild cellular atypia Favouring tubular (papillary) adenoma

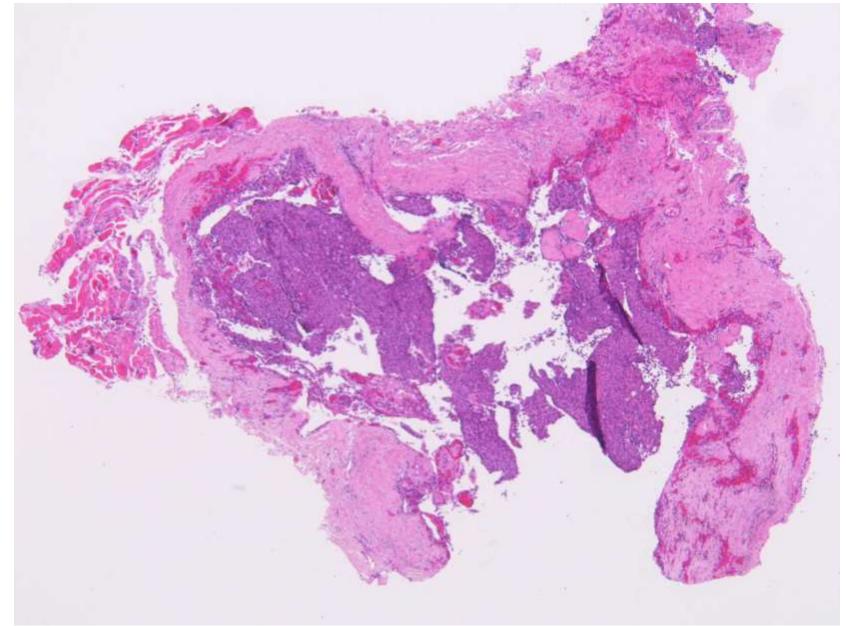
- Complete excision with clear margins is recommended.
- **Comments from my slide database**
- DDx: Digital papillary adenocarcinoma

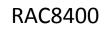


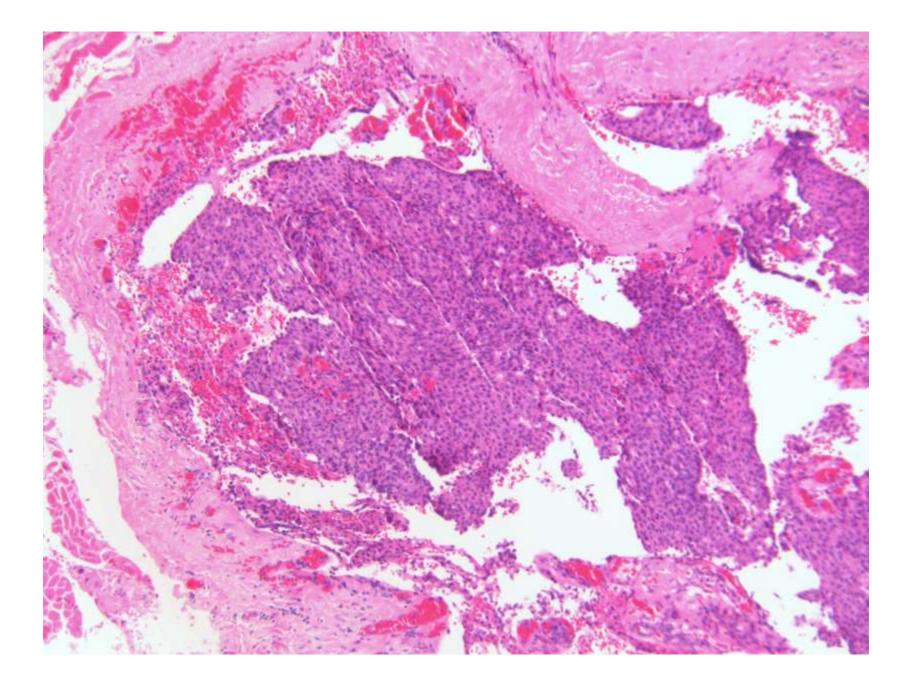
Kazakov's Book: Tubular apocrine adenoma (papillary eccrine adenoma)

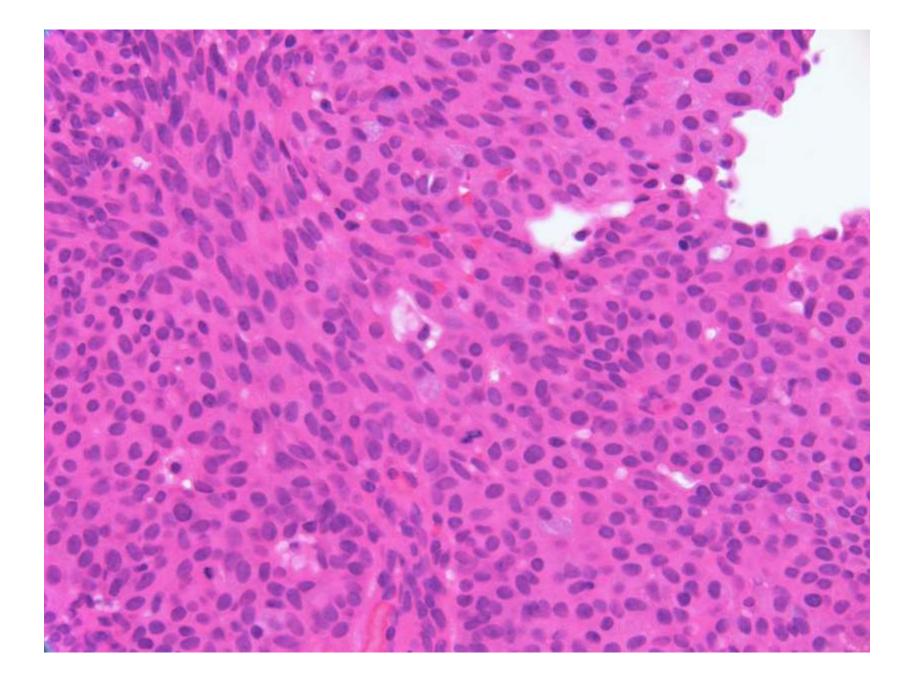
- Micropapillary or rarely true papillary projections
- Well circumscribed, and composed of ductal structures with a distinct two cell layer
- Solid areas and back-to-back glands not present.
- The cystic ductal structures in DPA are usually larger and more dilated than those in tubular adenoma
- Not so polymorphous
- **From Dermpathpro:** They all called it digital papillary adenocarcinoma!!

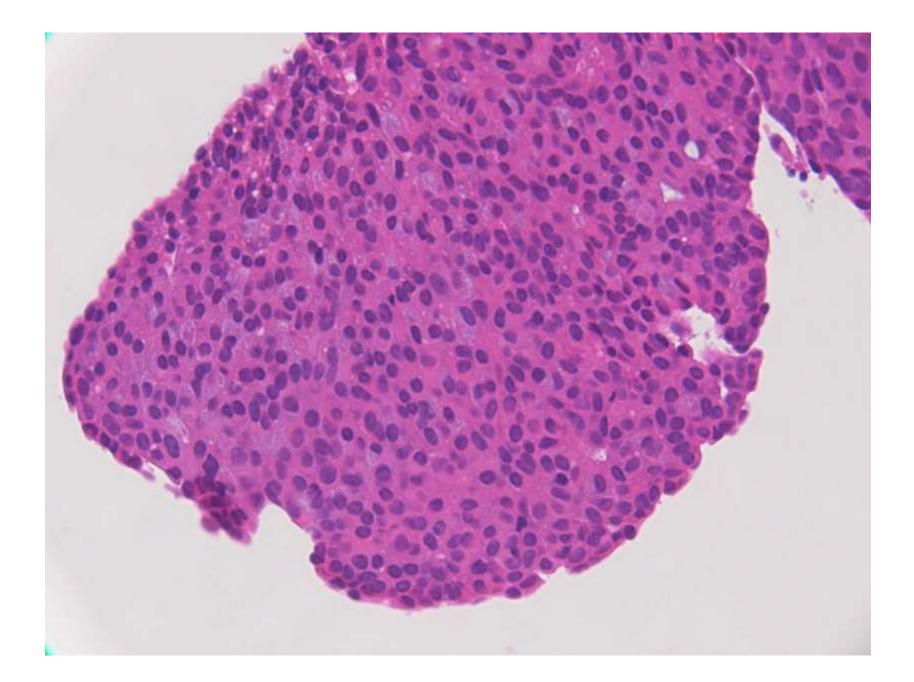
F69. Left upper lid. Cyst of Moll. Burst during last part of excision

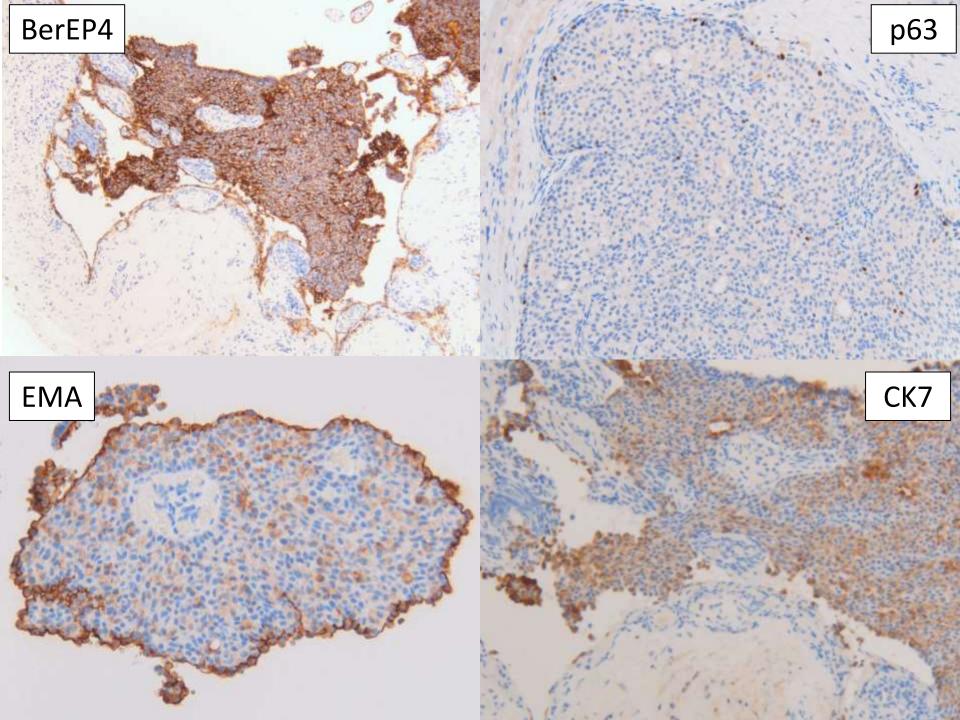


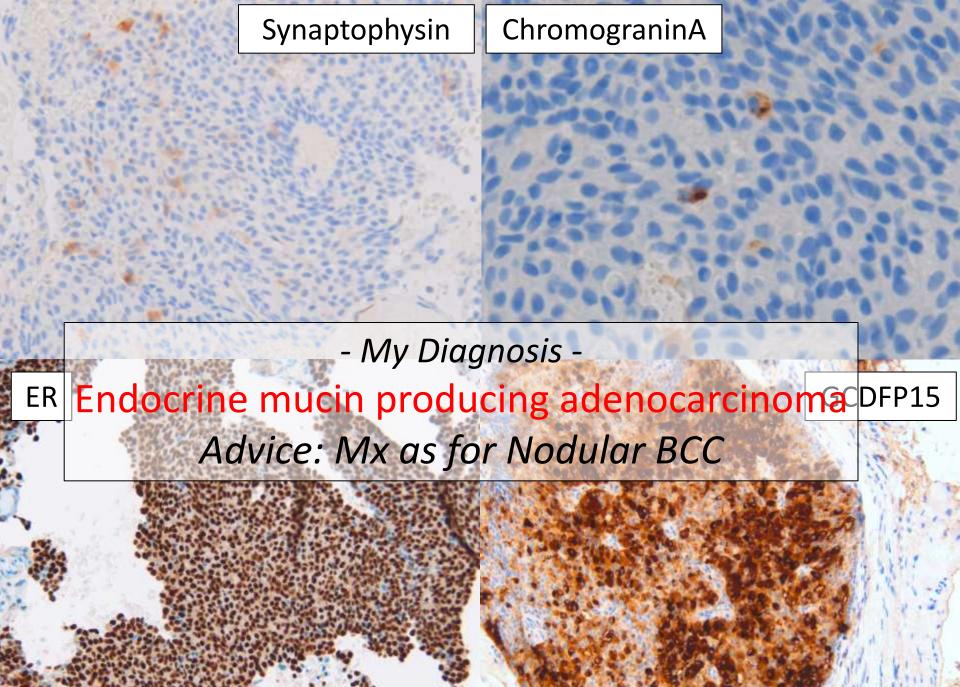






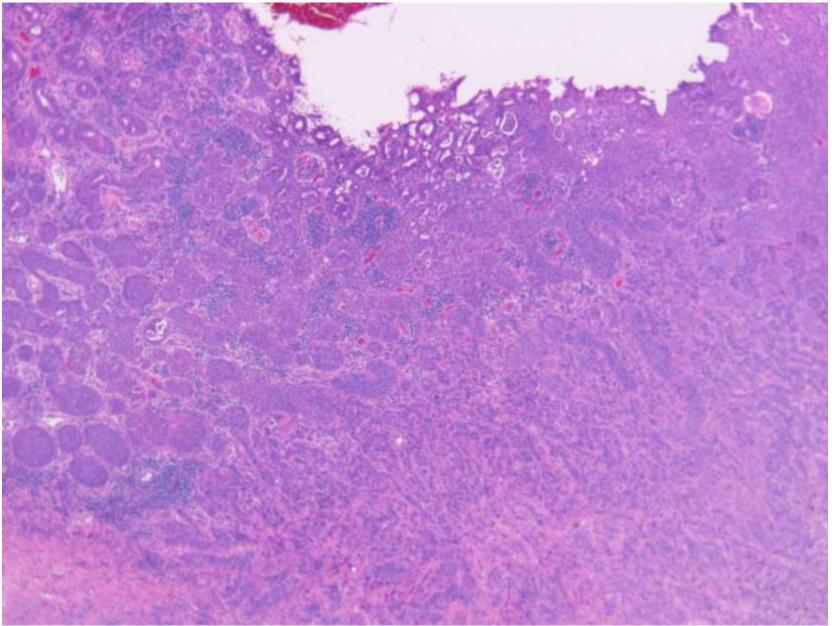




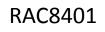


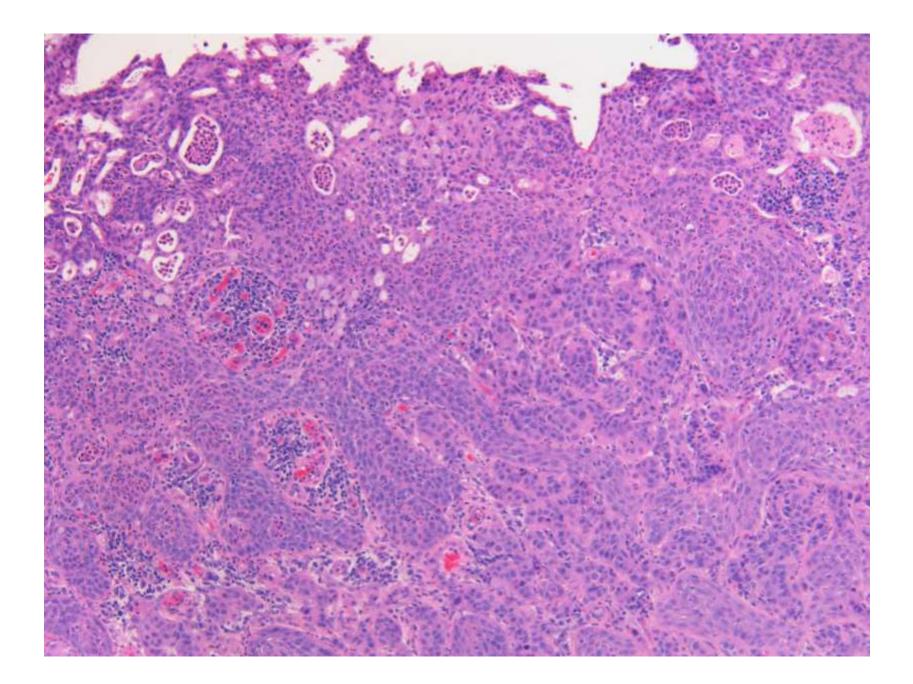
Next Case

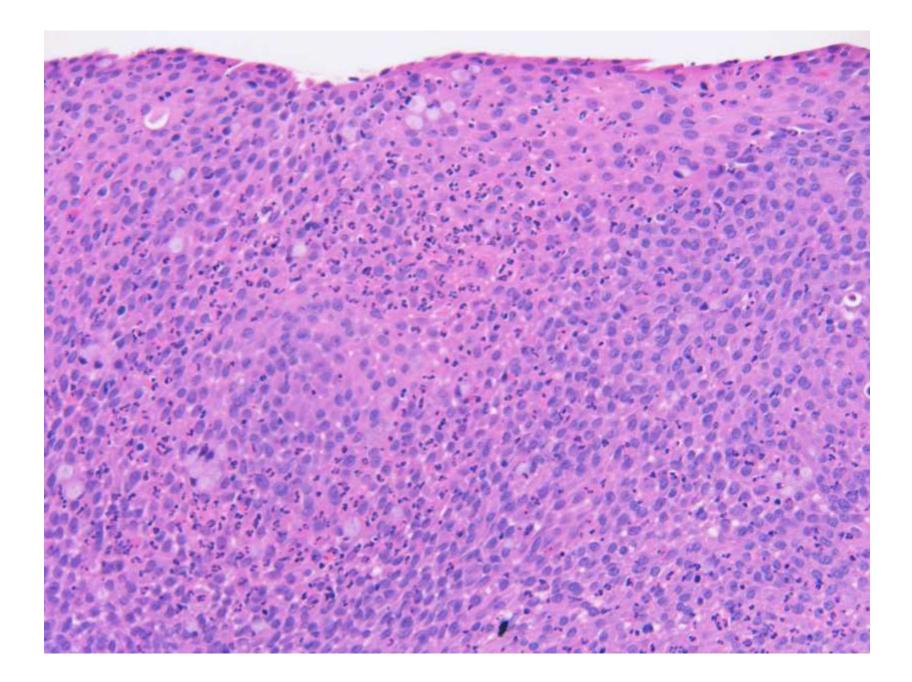
M83 Right Upper Eyelid. Bladder cancer 2 years ago. ?secondary

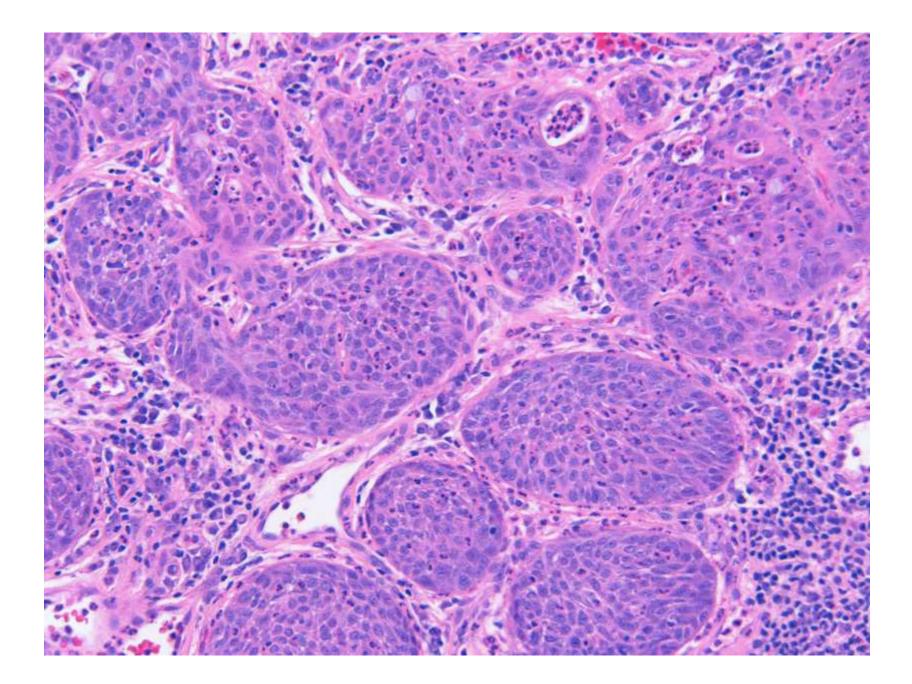


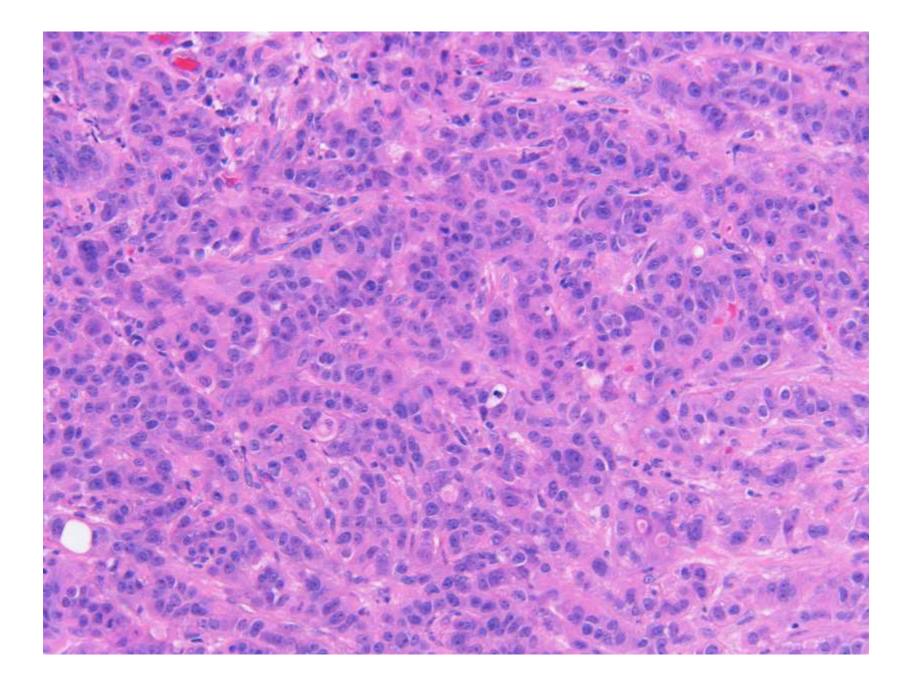
Case c/o Dr Sixto Batitang

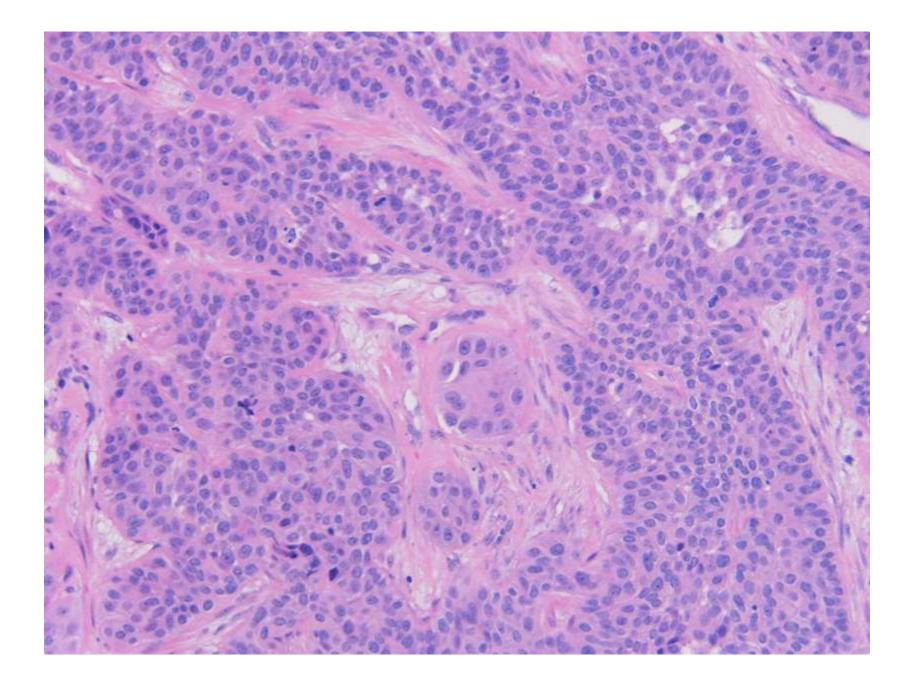














- My Diagnosis -Mucoepidermoid Carcinoma

p63

p53

p16

Learning Points:

Anatomic location can help make a diagnosis

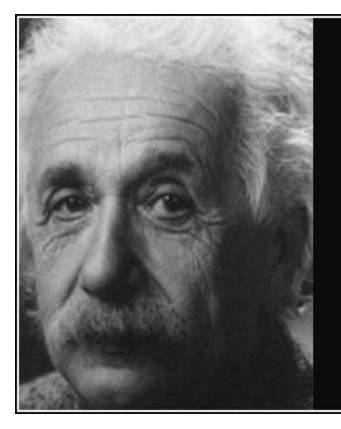
Completely circumscript tumours with malignant cytological features may be "in situ carcinoma"

Nearly all adnexal tumours that are mitotically active can grow large or undergo malignant transformation.

Most experts have seen cases of unexpected metastasis of apparently "benign" lesions

 In addition truly benign lesions e.g. hidradenomas may give rise to "benign" nodal metastases presumably due to implanation of tumour cells in to lymphatics at incomplete removal or biopsy

On this base I prefer to see adnexal tumours completely excised with clear margins.



I believe in intuitions and inspirations...I sometimes FEEL that I am right. I do not KNOW that I am.

— Albert Einstein —

AZQUOTES

Acknowledgements: Part 2 Ben Fletcher Bruce Gee Simon Tso **David Snead** Scott Sanders Sixto Batitang **Dimitry Kazakov** Vivek Mudaliar Veena Shinde Nitin Khirwadkar