



Dr Ben Tallon

Dermatologist
Tauranga

Optimal Diagnosis of Epidermal Lesionsy - Concurrent Workshop Repeated

Saturday, 22 June 2013

Start 8:30am

Start 9:35am

Duration: 55mins

Duration: 55mins

Skellerup

Skellerup



  **Rotorua GP CME 2013**

General Practice Conference & Medical Exhibition

20-23 June 2013 | Energy Events Centre | Rotorua

OPTIMISING DIAGNOSIS OF EPIDERMAL LESIONS

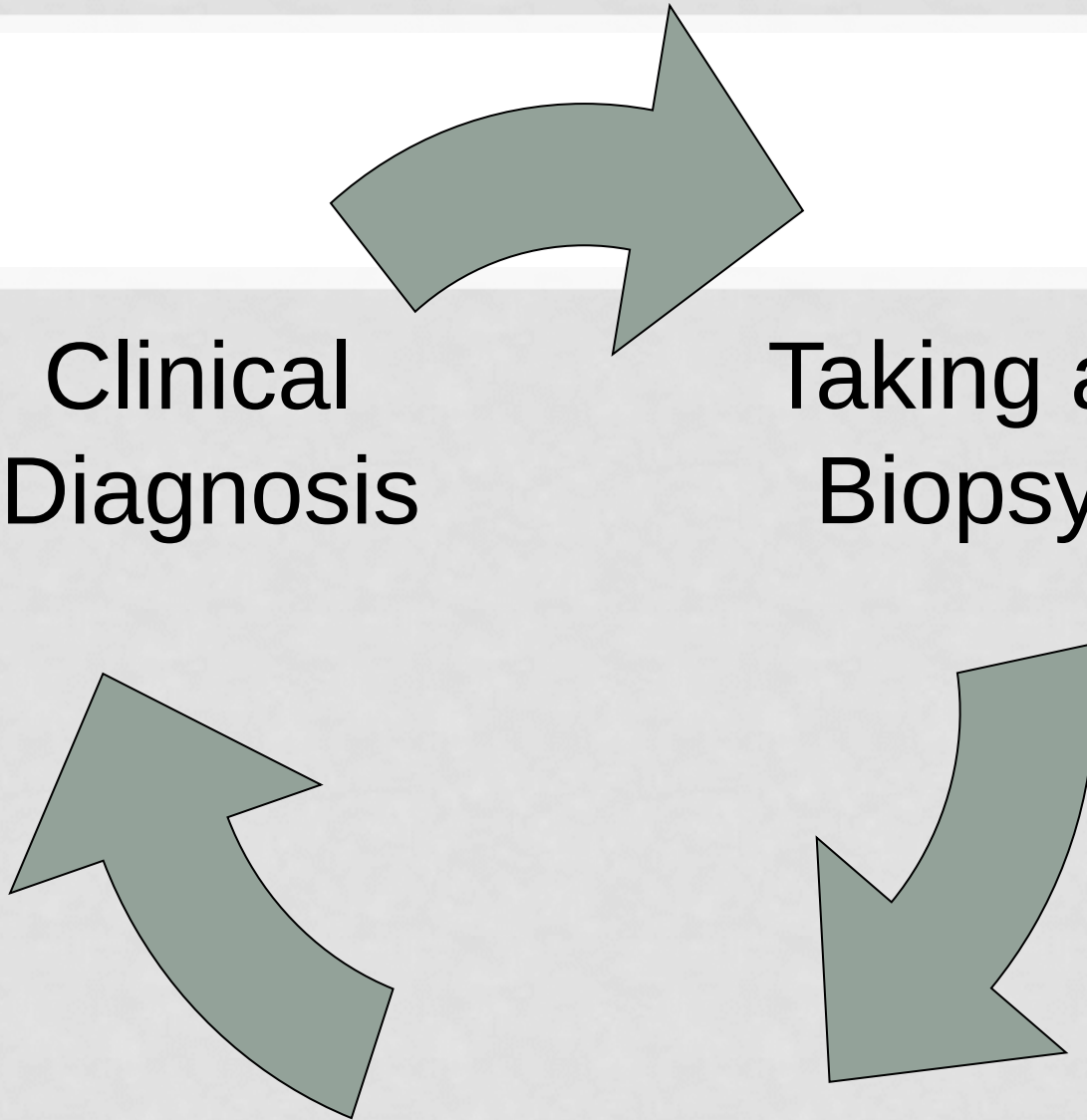
BEN TALLON



Clinical
Diagnosis

Taking a
Biopsy

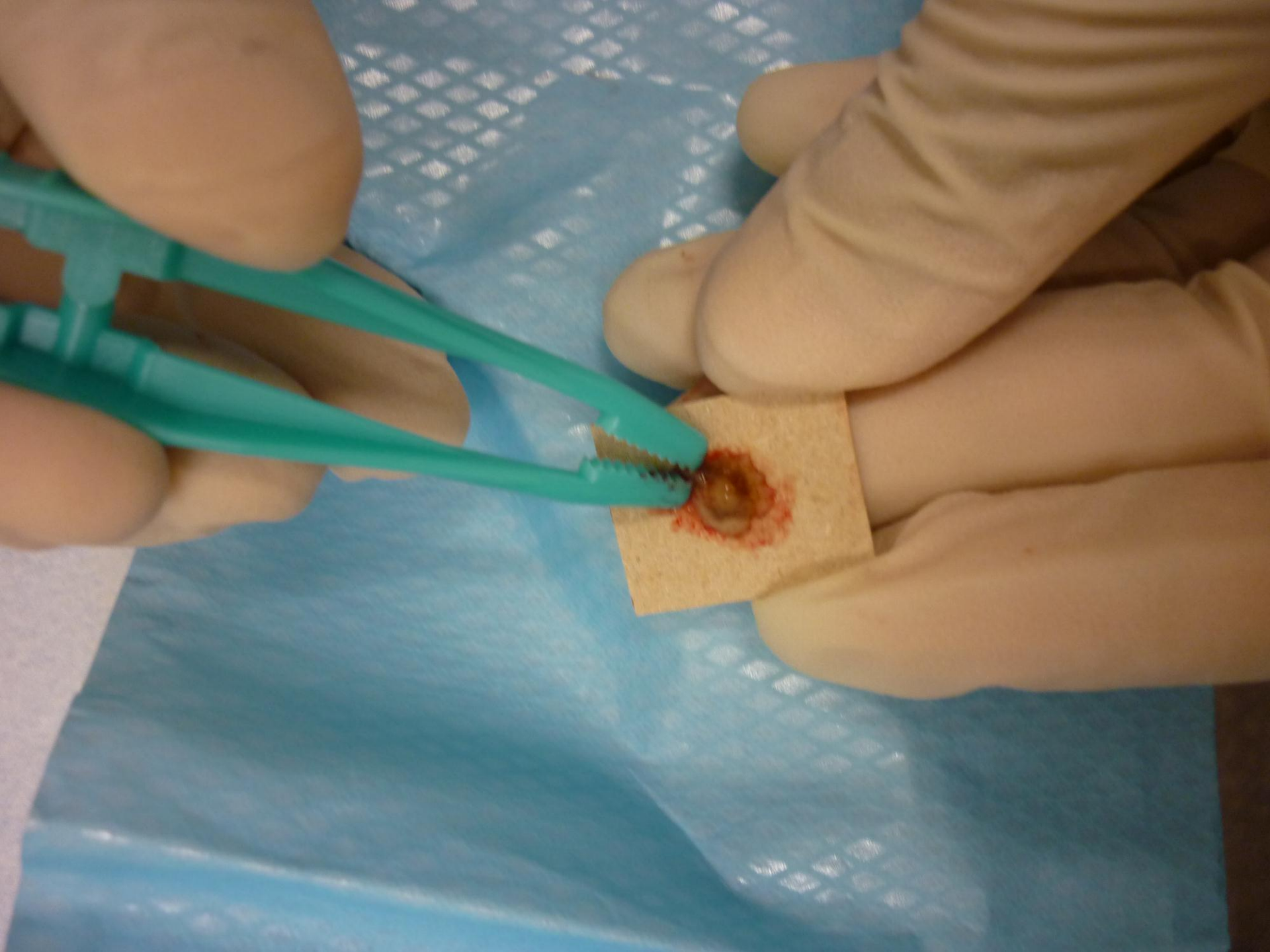
Dermatopathology

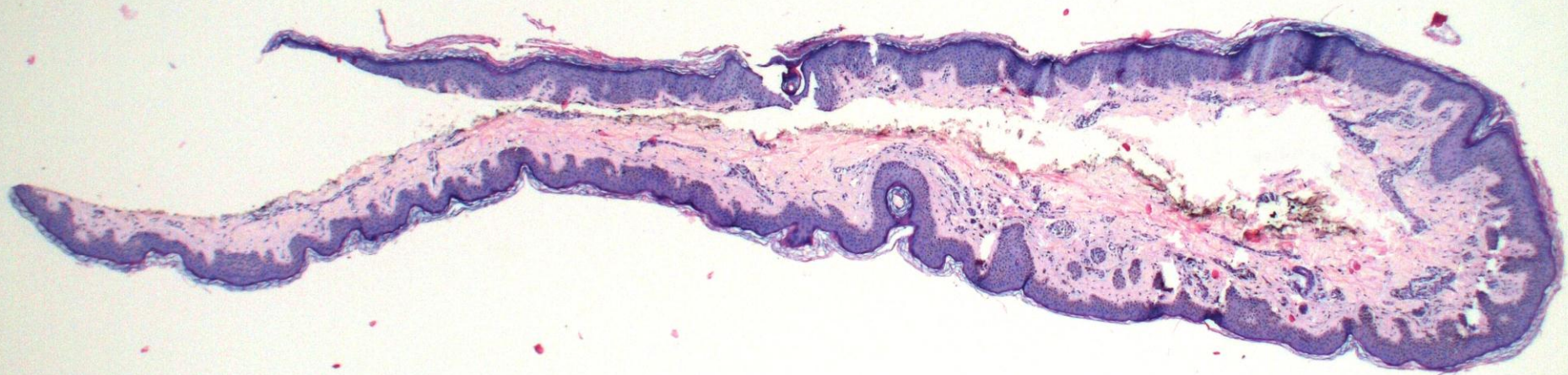


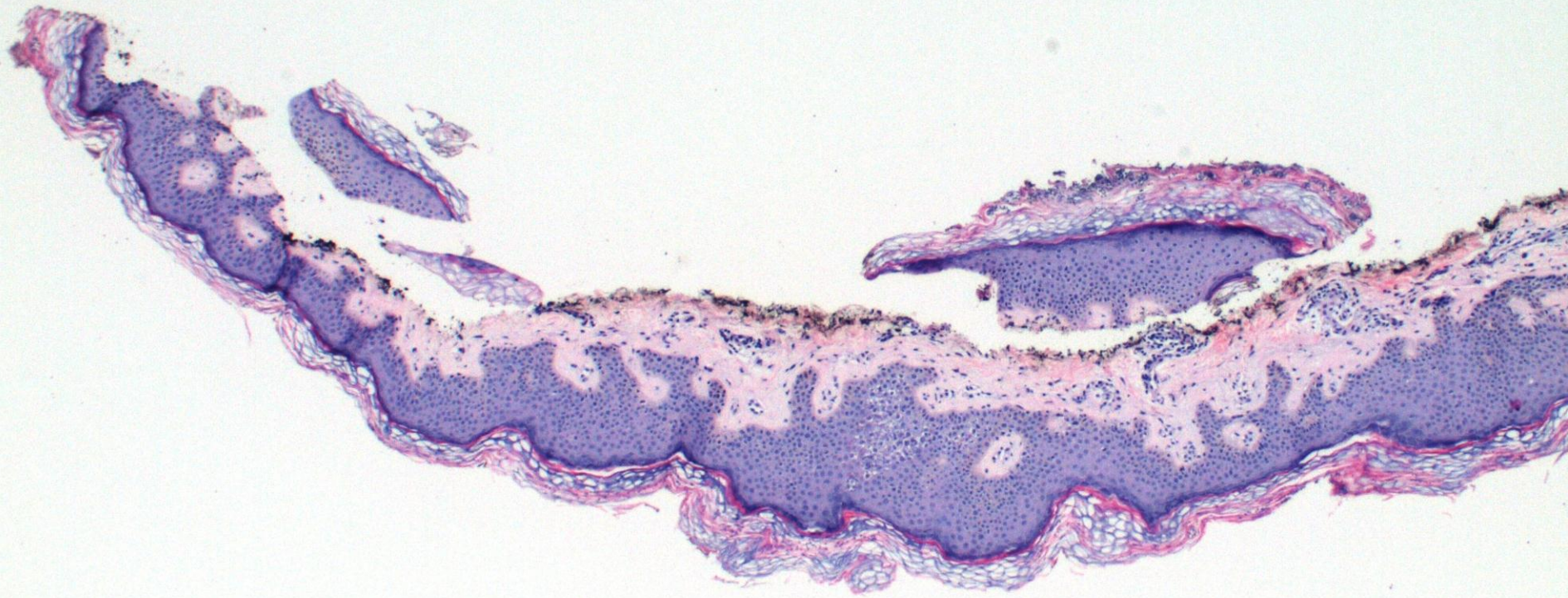
POINT 1

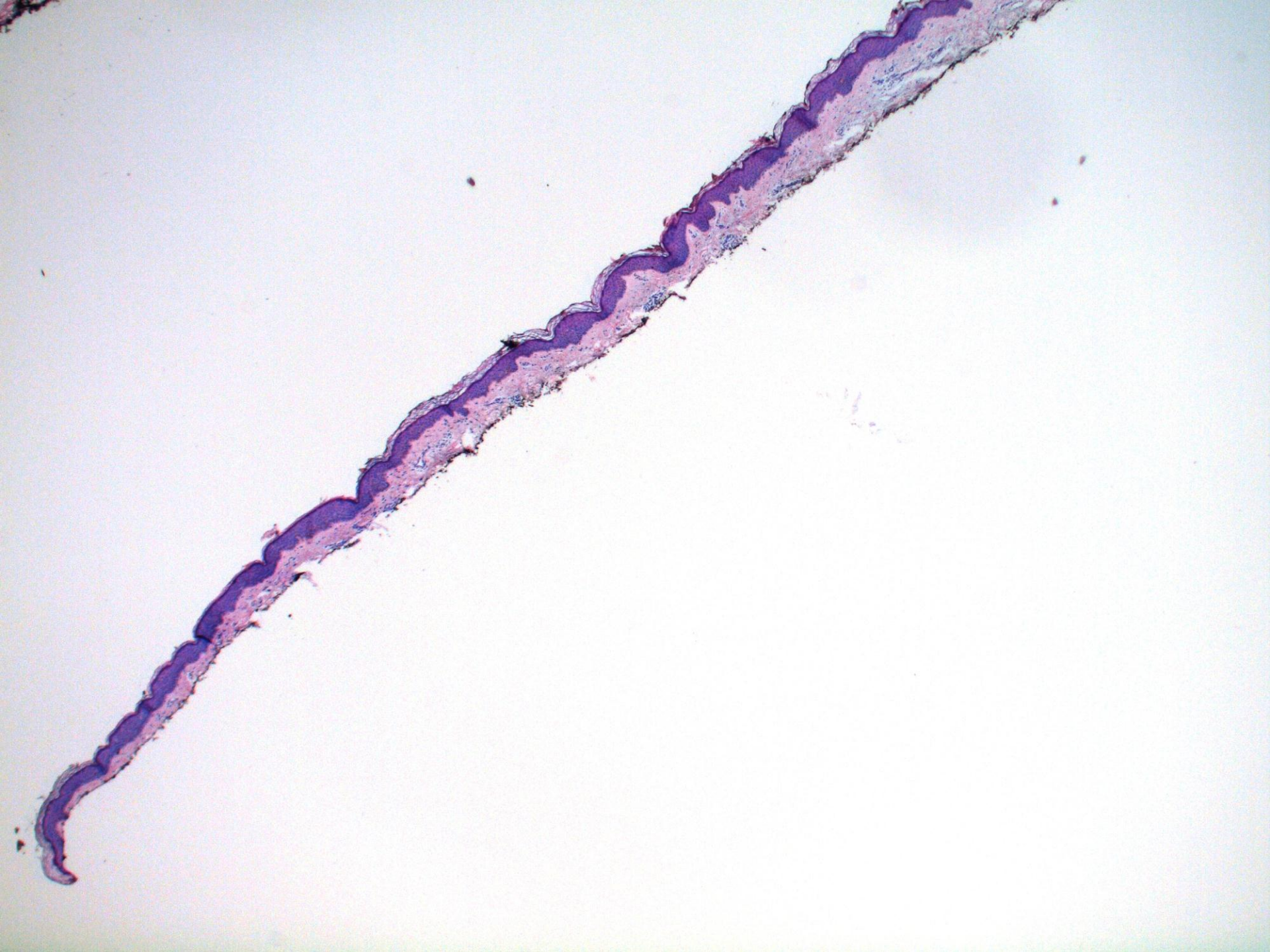
- Use cardboard for shave biopsies











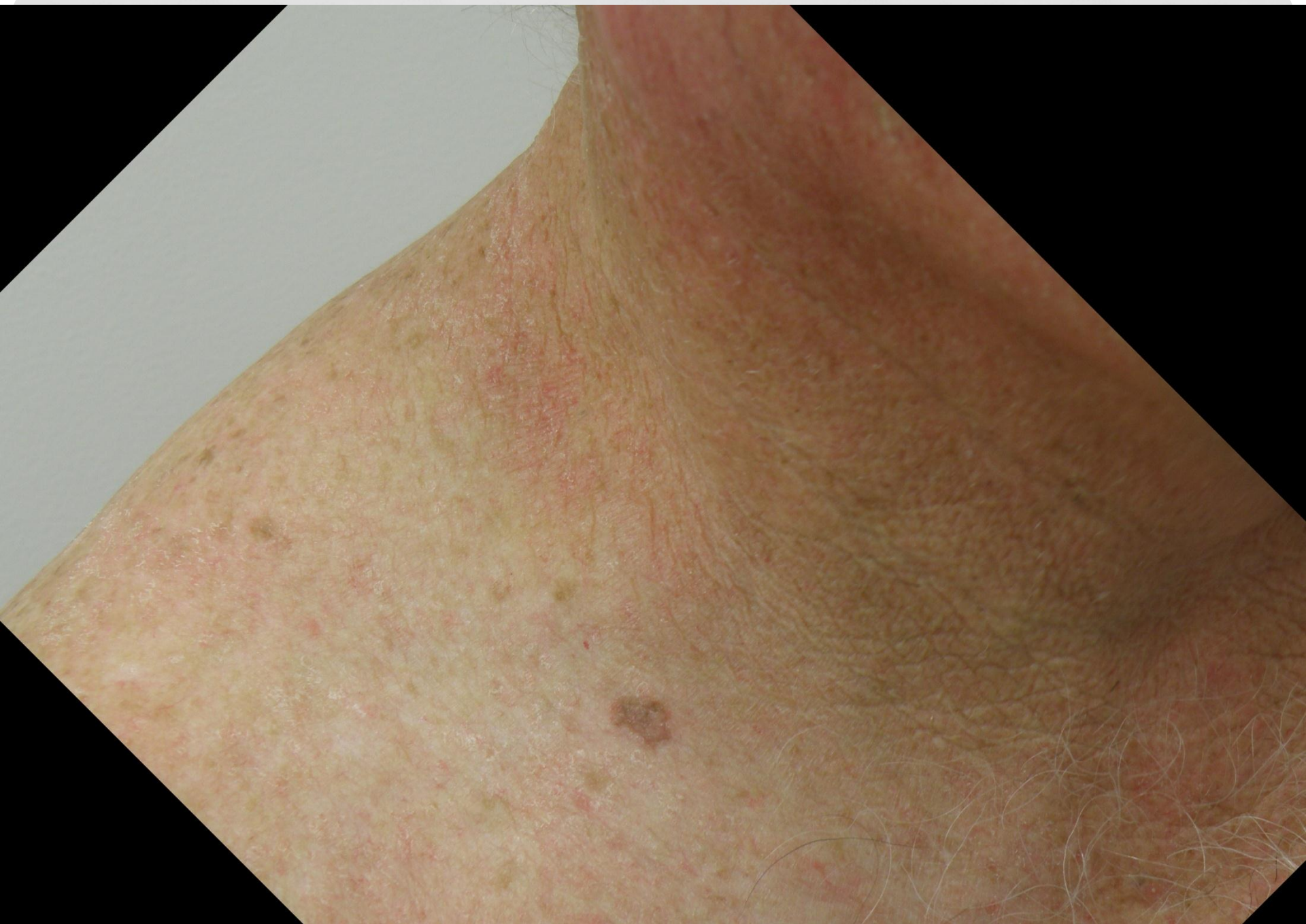
POINT 1

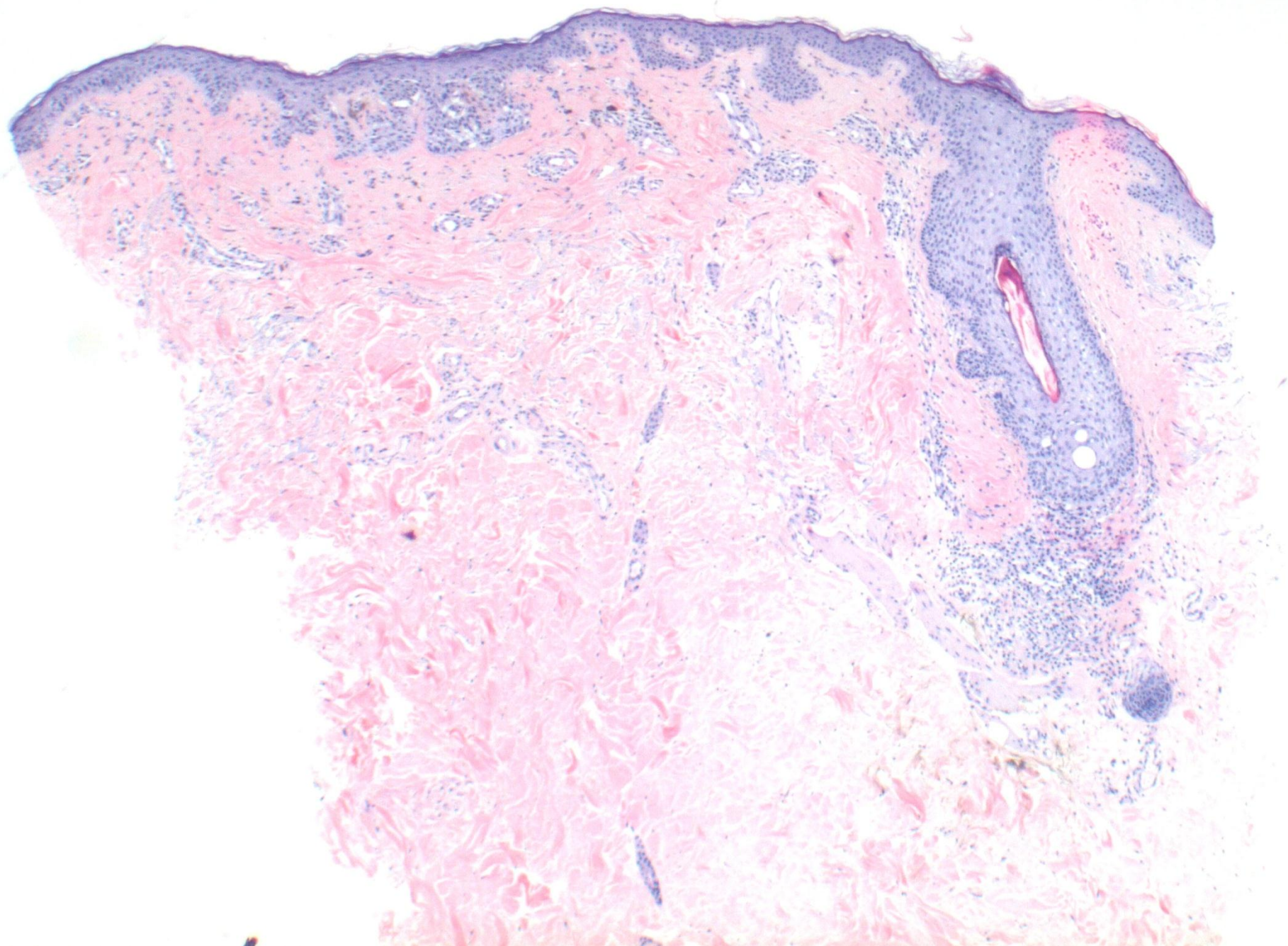
- Use cardboard for shave biopsies

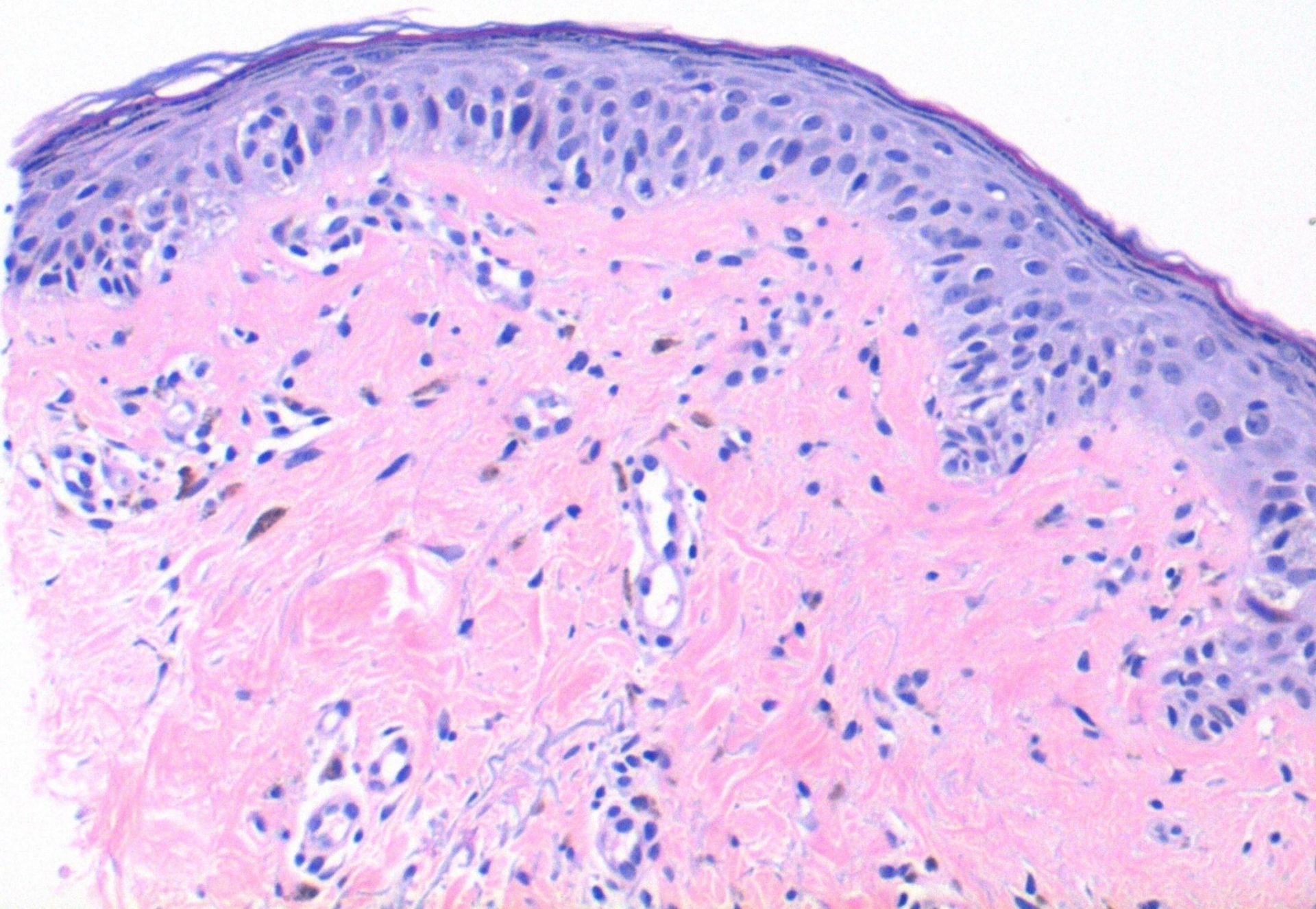


POINT 2

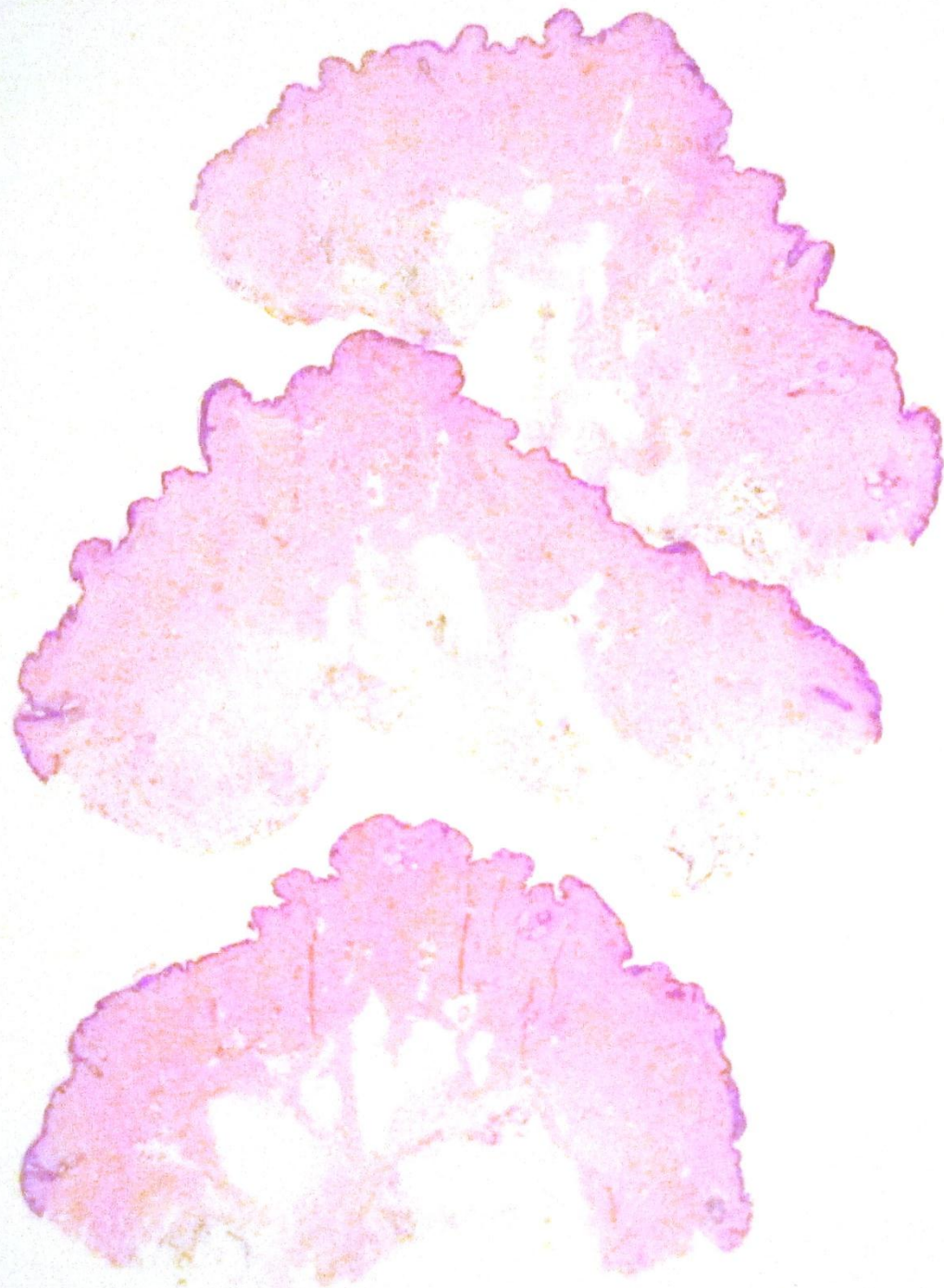
- Don't punch biopsy part of a melanocytic lesion

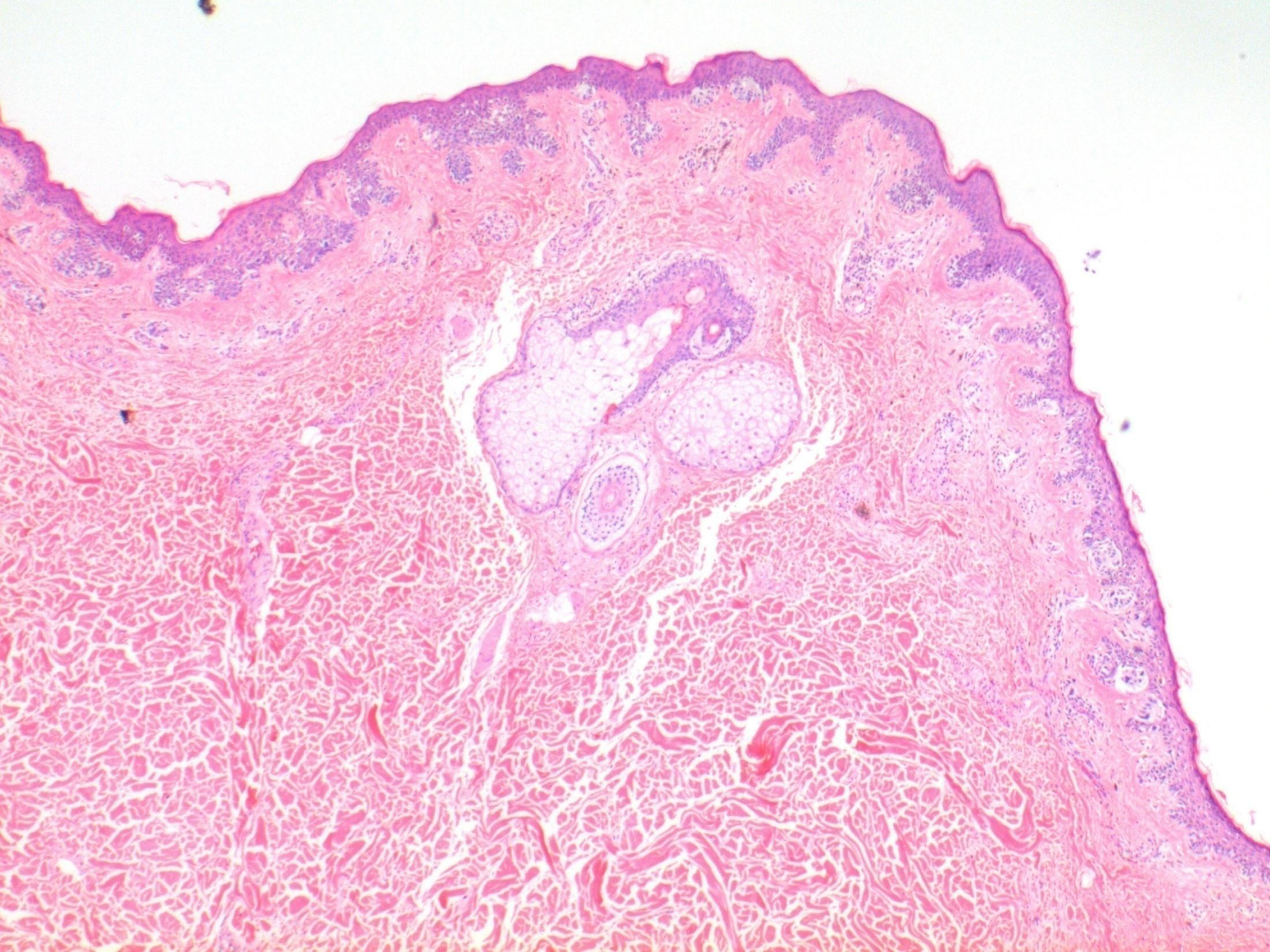


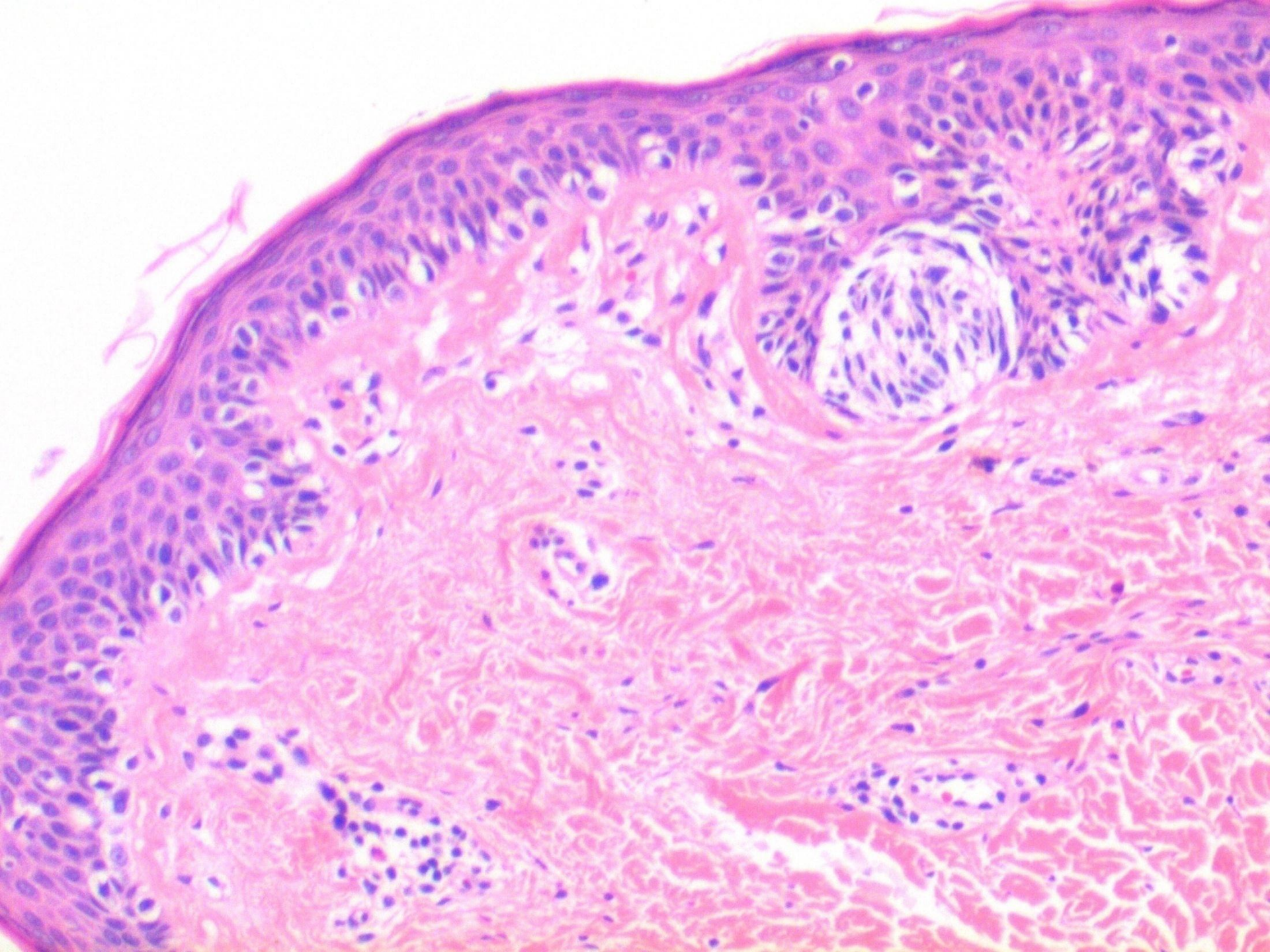












MELANOCYTIC LESIONS

- Australasian Melanoma Guidelines
 - Excisional biopsy 2mm margin

POINT 2

- Don't punch biopsy part of a melanocytic lesion



POINT 3

- Take incisional biopsy through area of highest yield









- If the report is not what you expect then take another biopsy

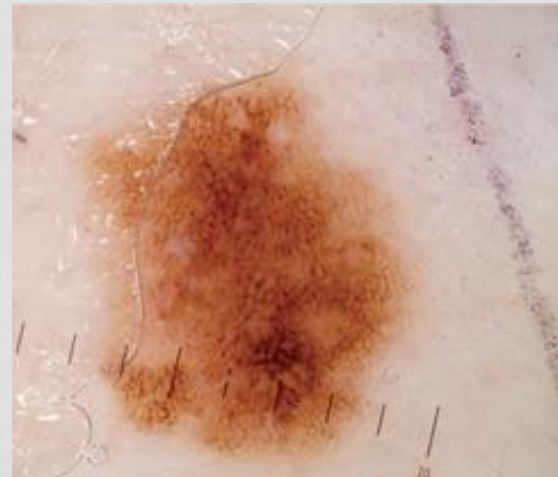
POINT 3

- Take incisional biopsy through area of highest yield



POINT 4

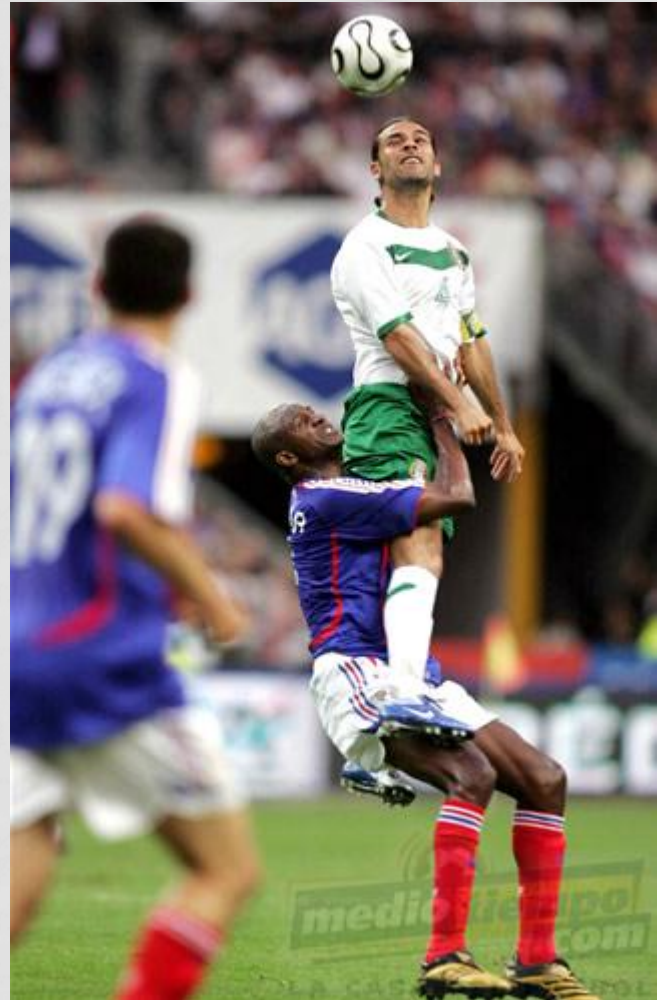
- Inspect the whole patient if atypical mole present





POINT 4

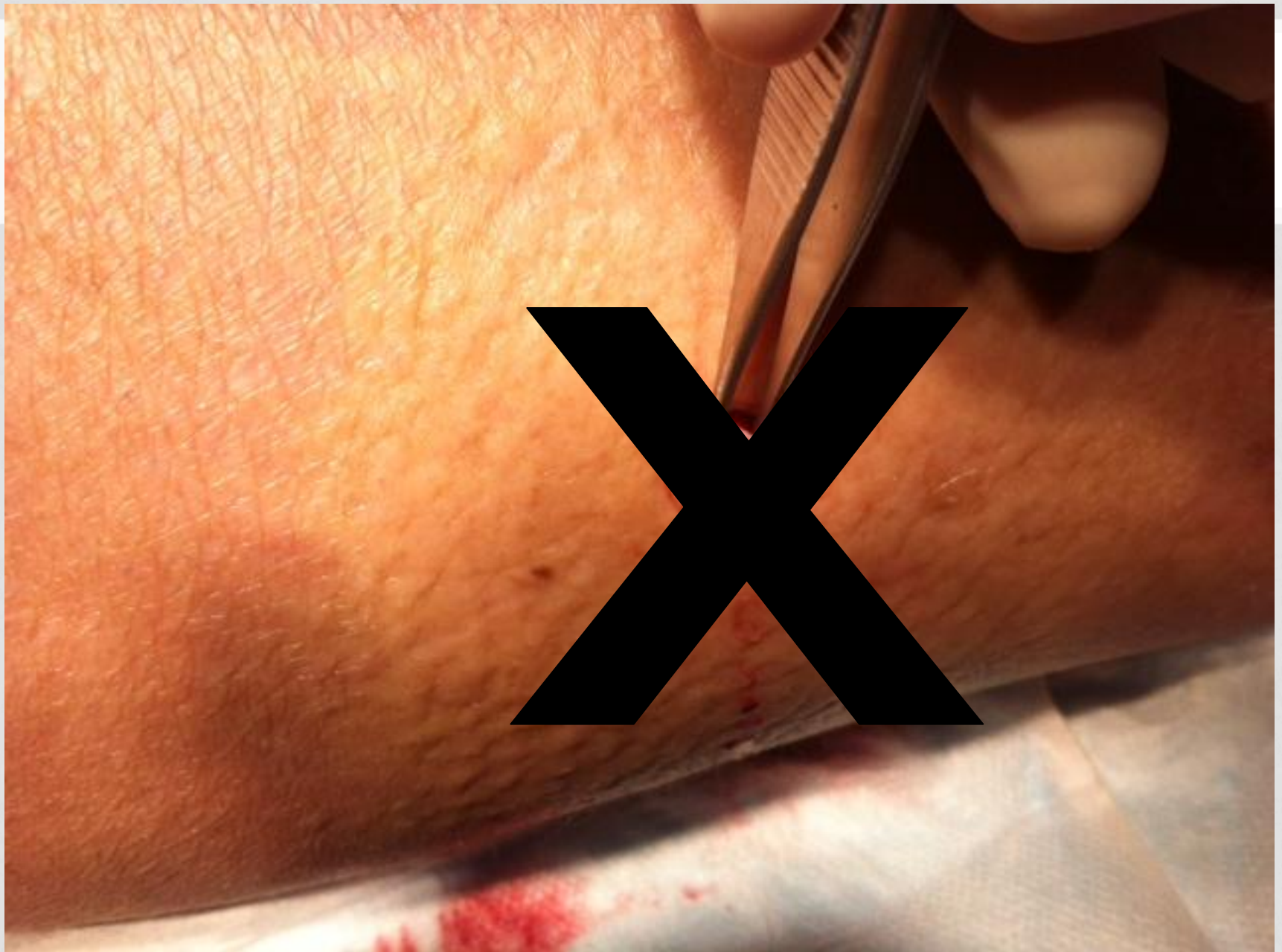
- Inspect the whole patient if atypical mole present

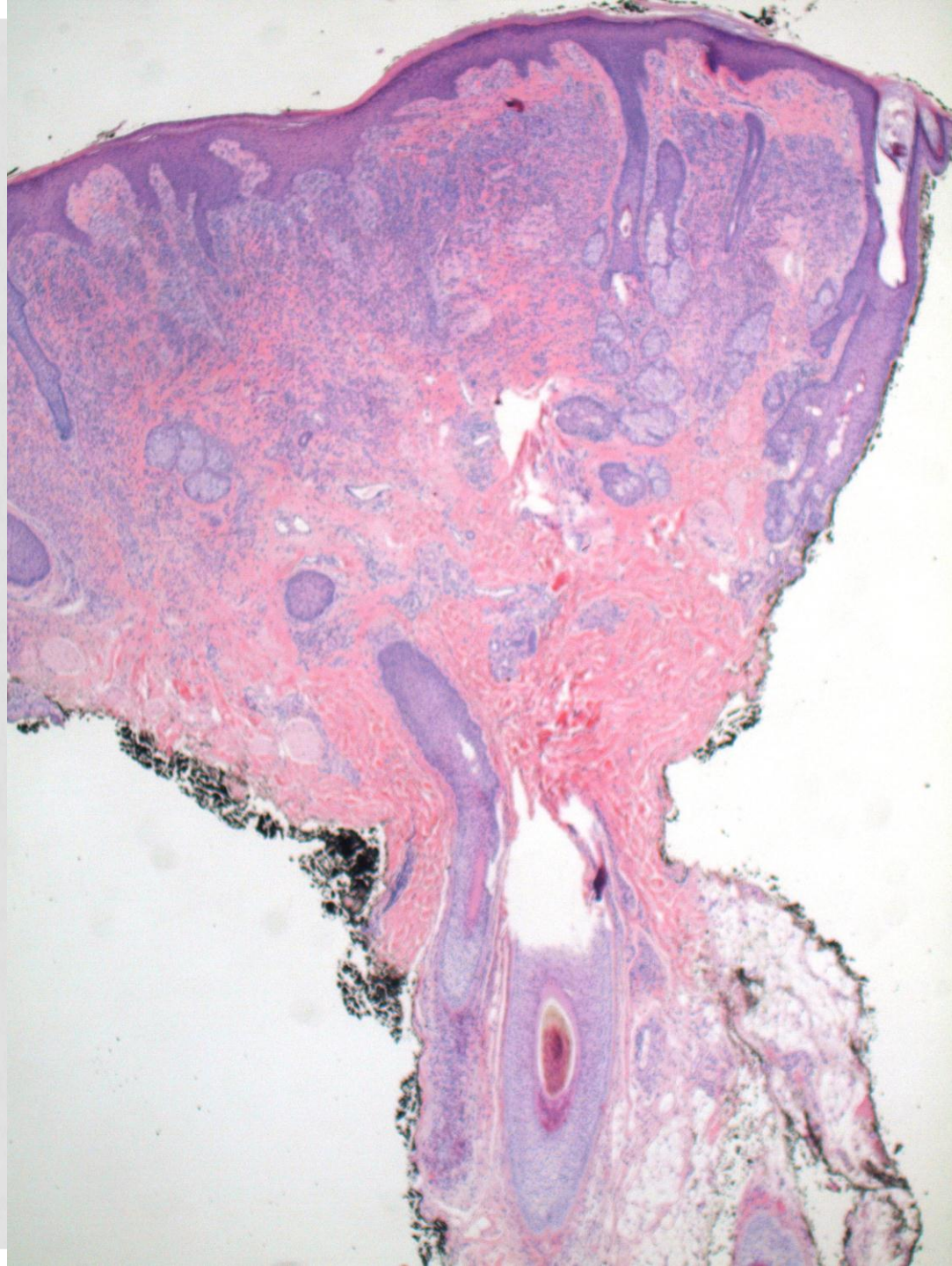


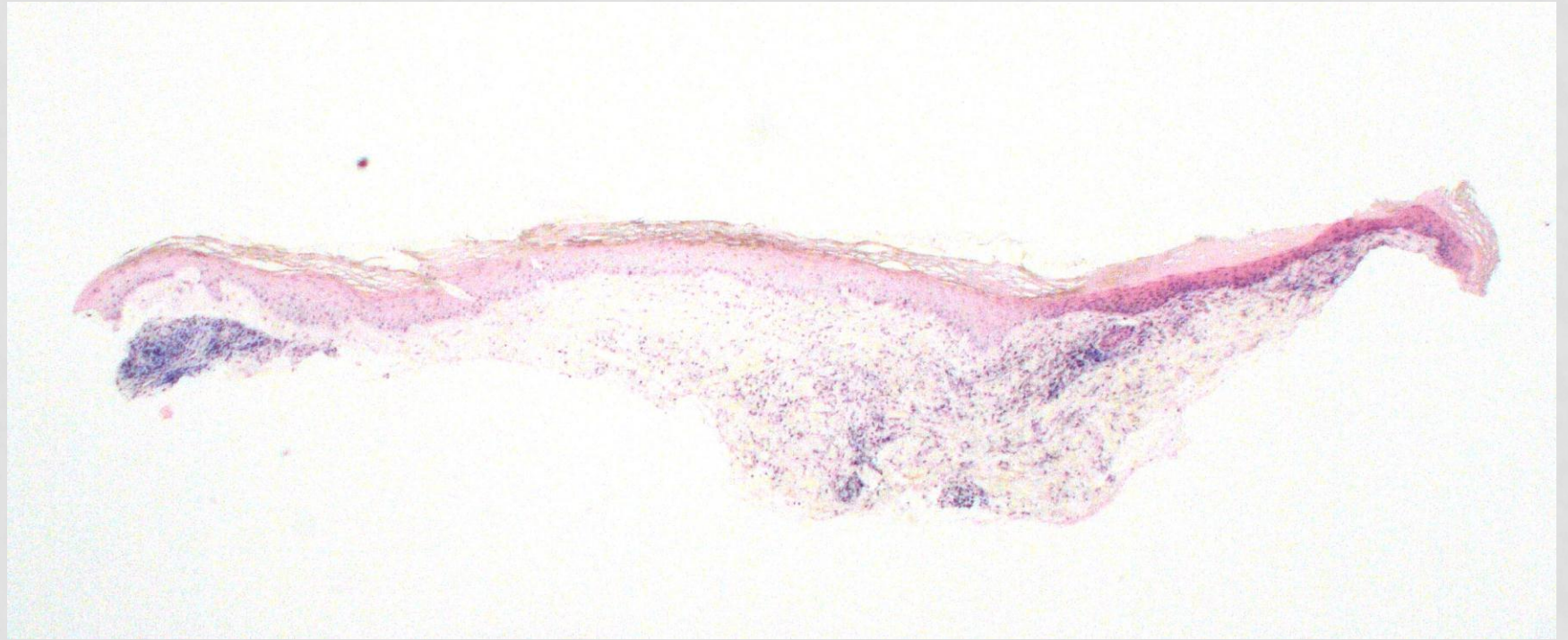
POINT 5

- Provide good material
- Do not use forceps when taking punch biopsy

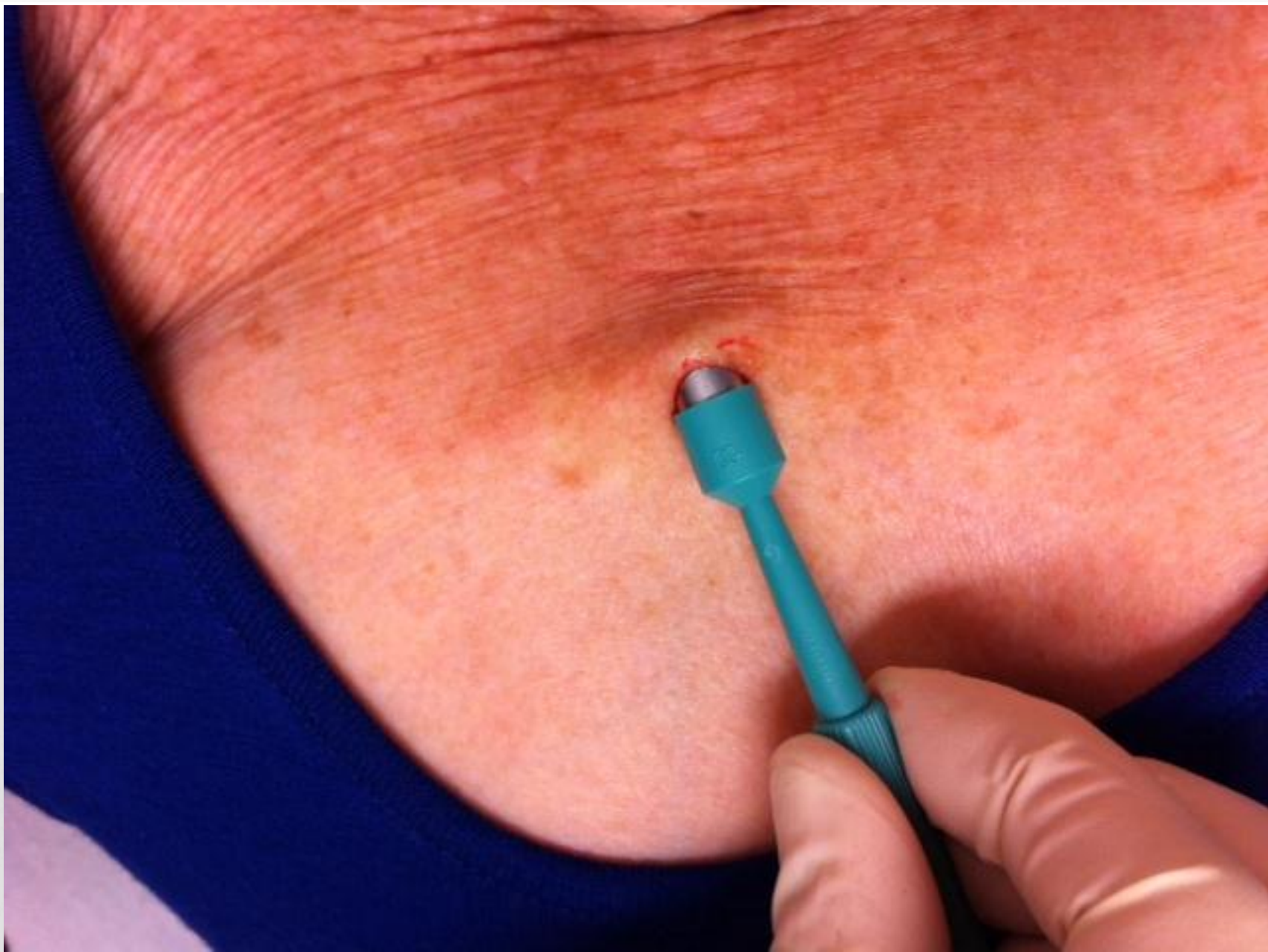














POINT 5

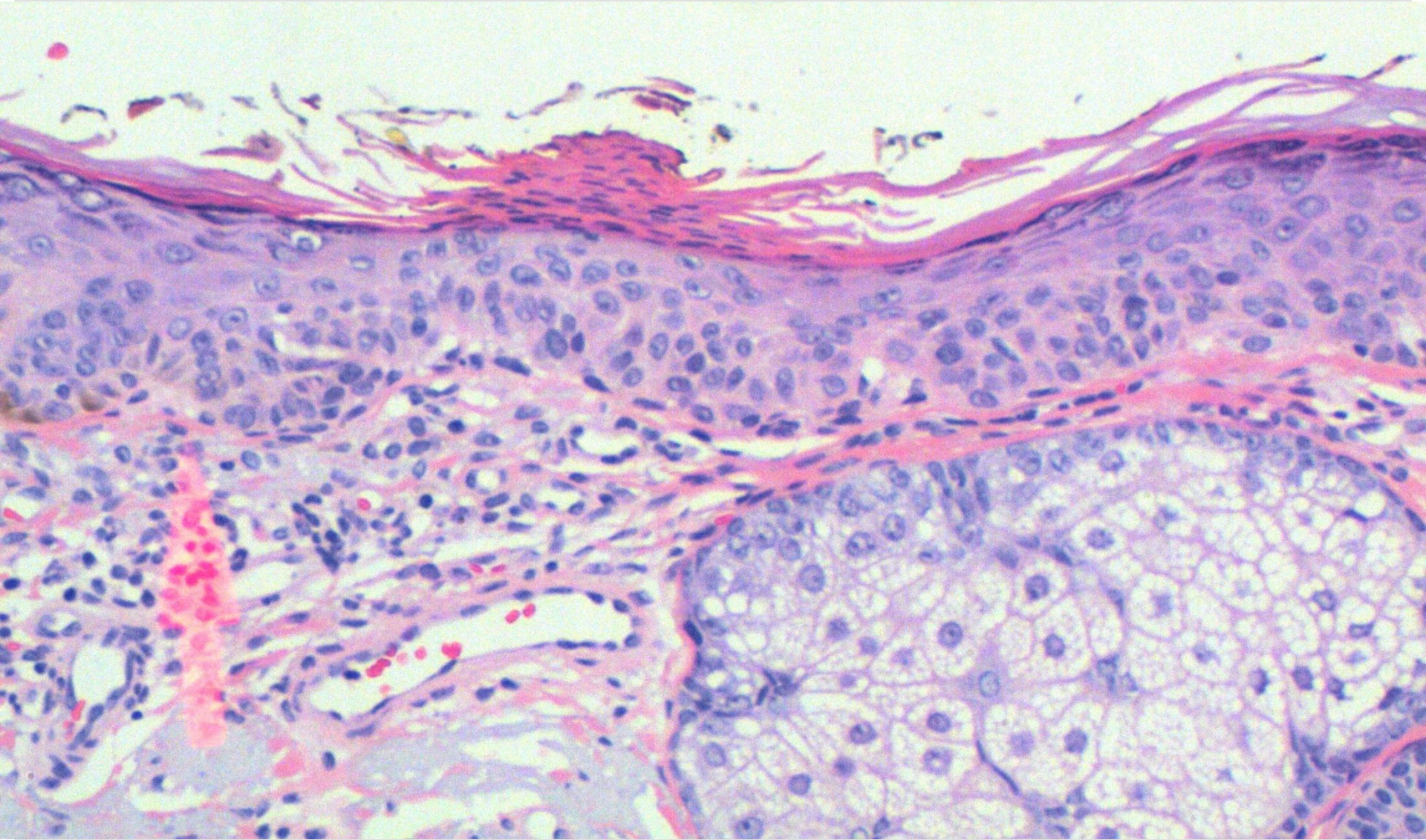
- Provide good material

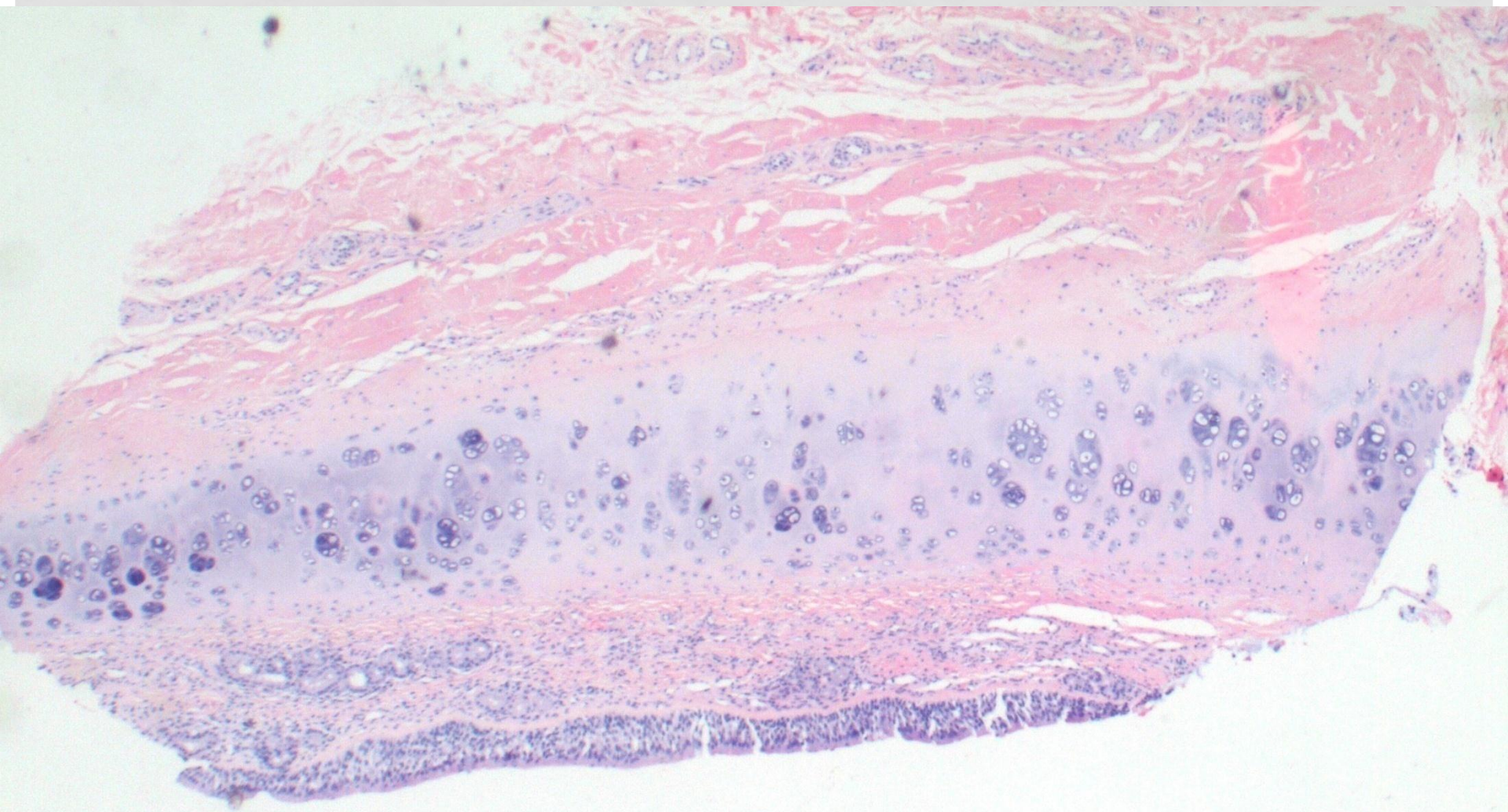


POINT 6

- Provide good material
- More generally better.....

- Punch biopsy of a nose
 - ? Solar Keratosis ? SCC





POINT 6

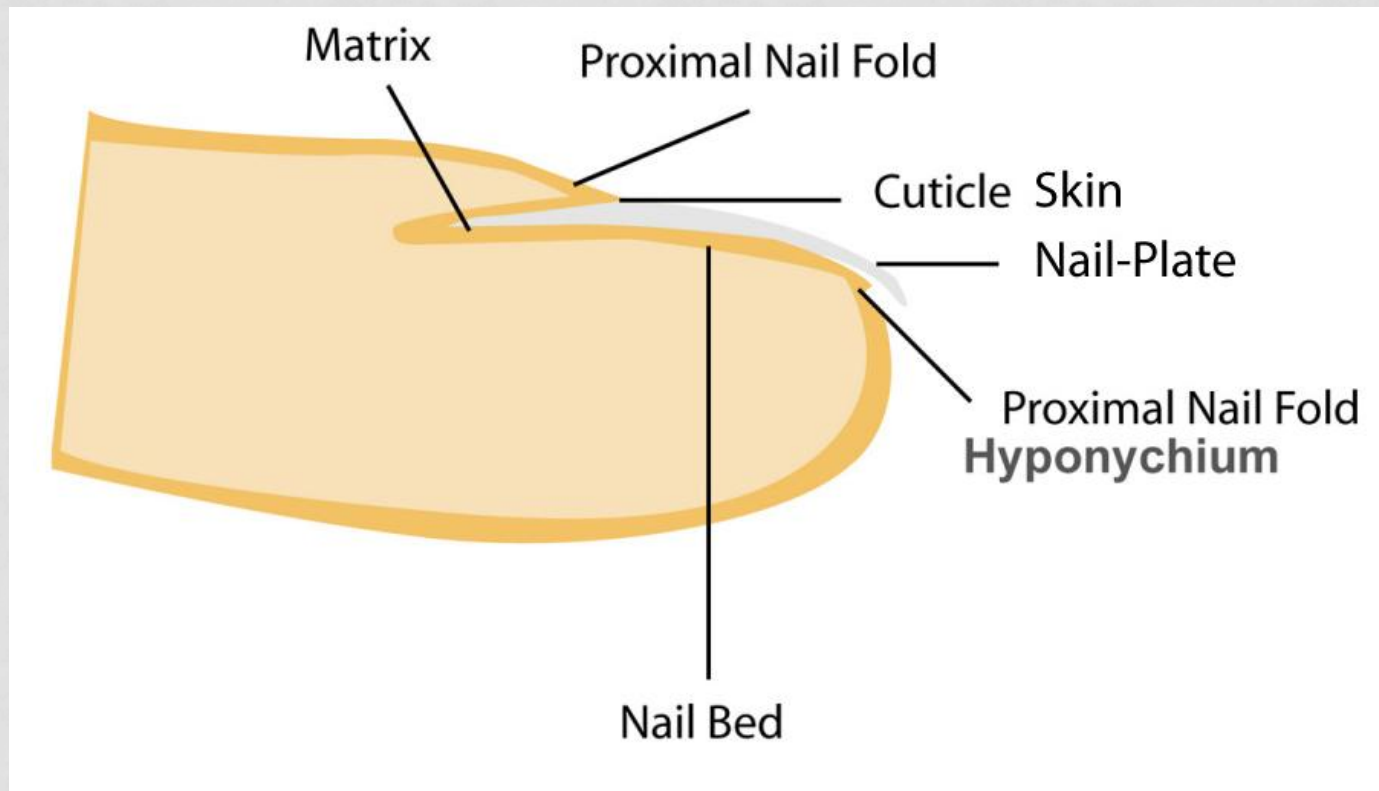
- Provide good material
- More generally better.....



POINT 7

- Sample the nail matrix for nail pigmentation







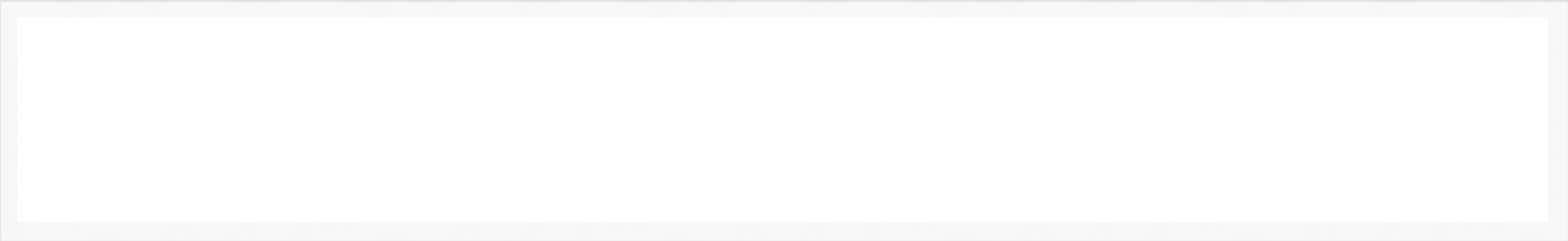
POINT 7

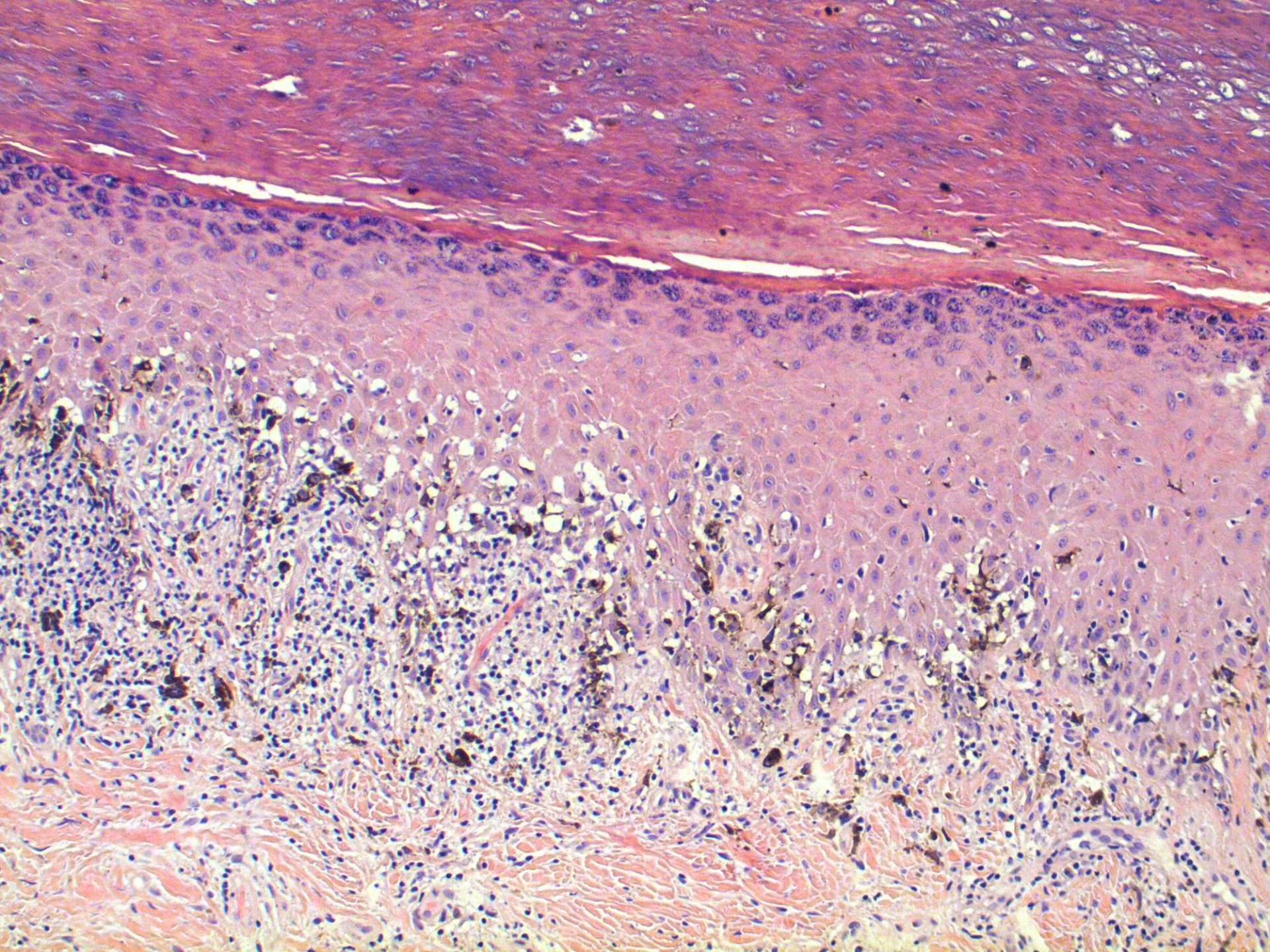
- Sample the nail matrix for nail pigmentation



POINT 8

- Provide clinical information
 - Include pictures / dermoscopy

- 
- 77 year old male
 - Pigmented lesion
 - Subungual Left Big Toe







POINT 8

- Provide clinical information
 - Include pictures / dermoscopy

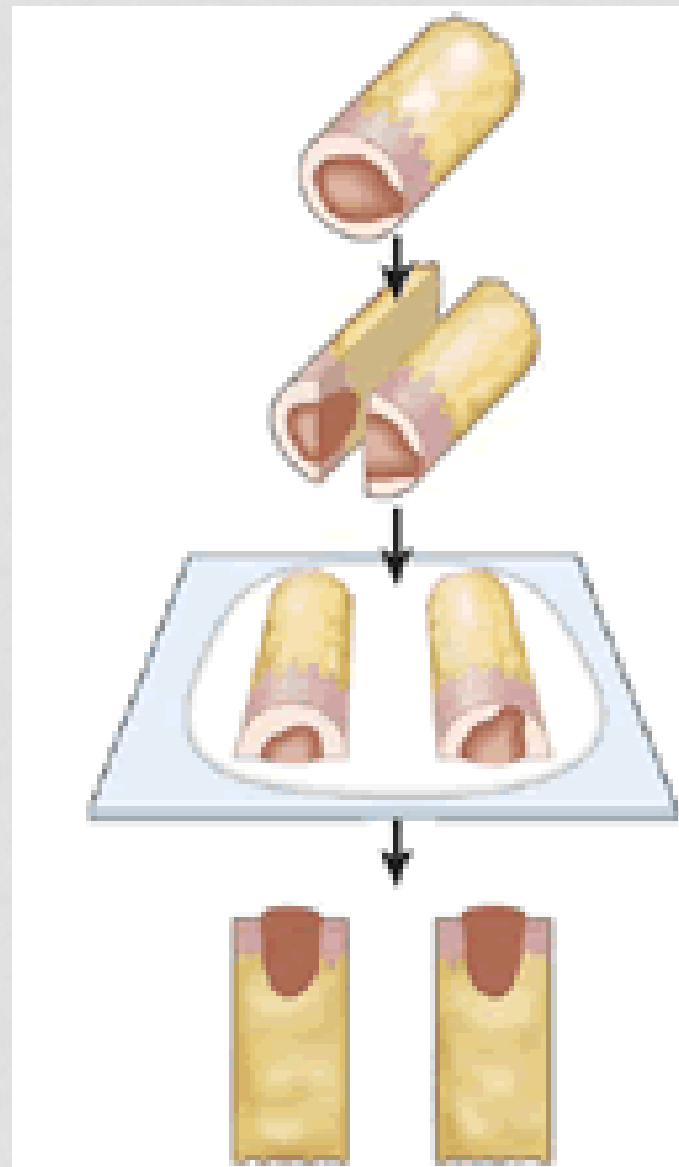


POINT 9

- Don't trust punch excision margins

- Re-evaluation of punch biopsies with further levels

- **30%** had positive margins



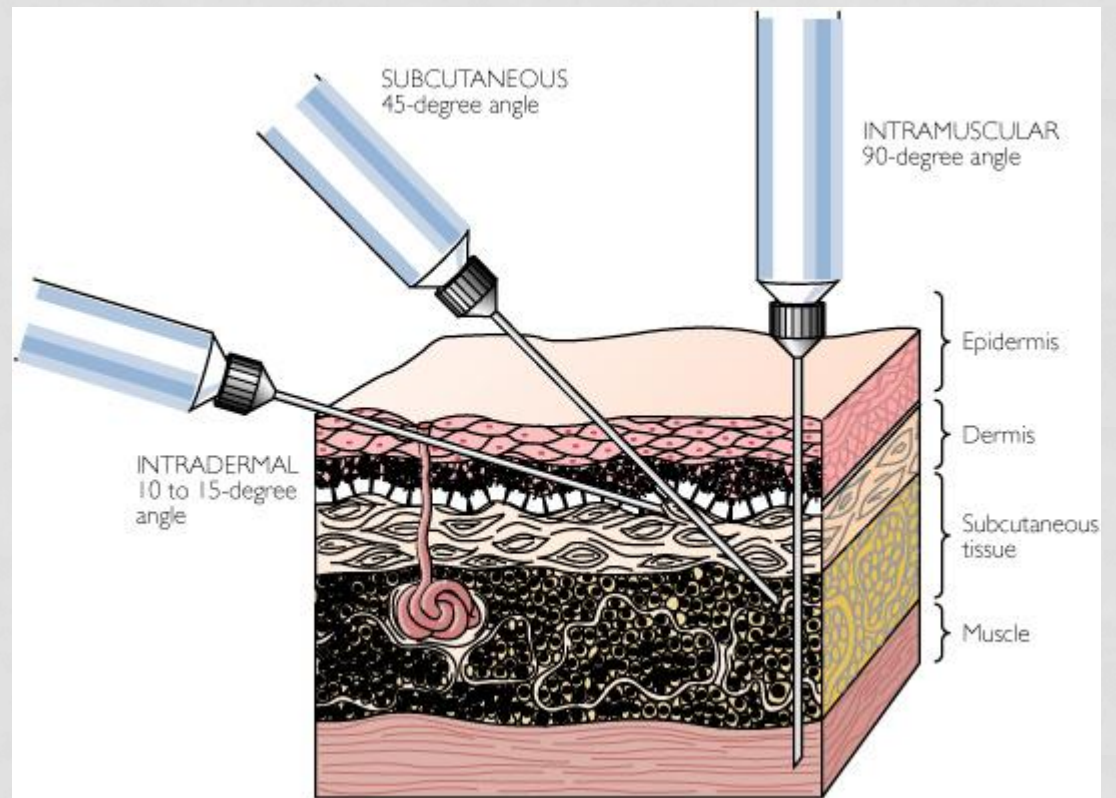
POINT 9

- Don't trust punch excision margins



POINT 10

- Infiltrate local anaesthetic deep first



• Other helpful techniques

- Vibrating device
- Squeeze ball
- Gate theory / tapping
- LA Mix with buffering
- Warm local
- Regional nerve block

POINT 10

- Infiltrate local anaesthetic deep first



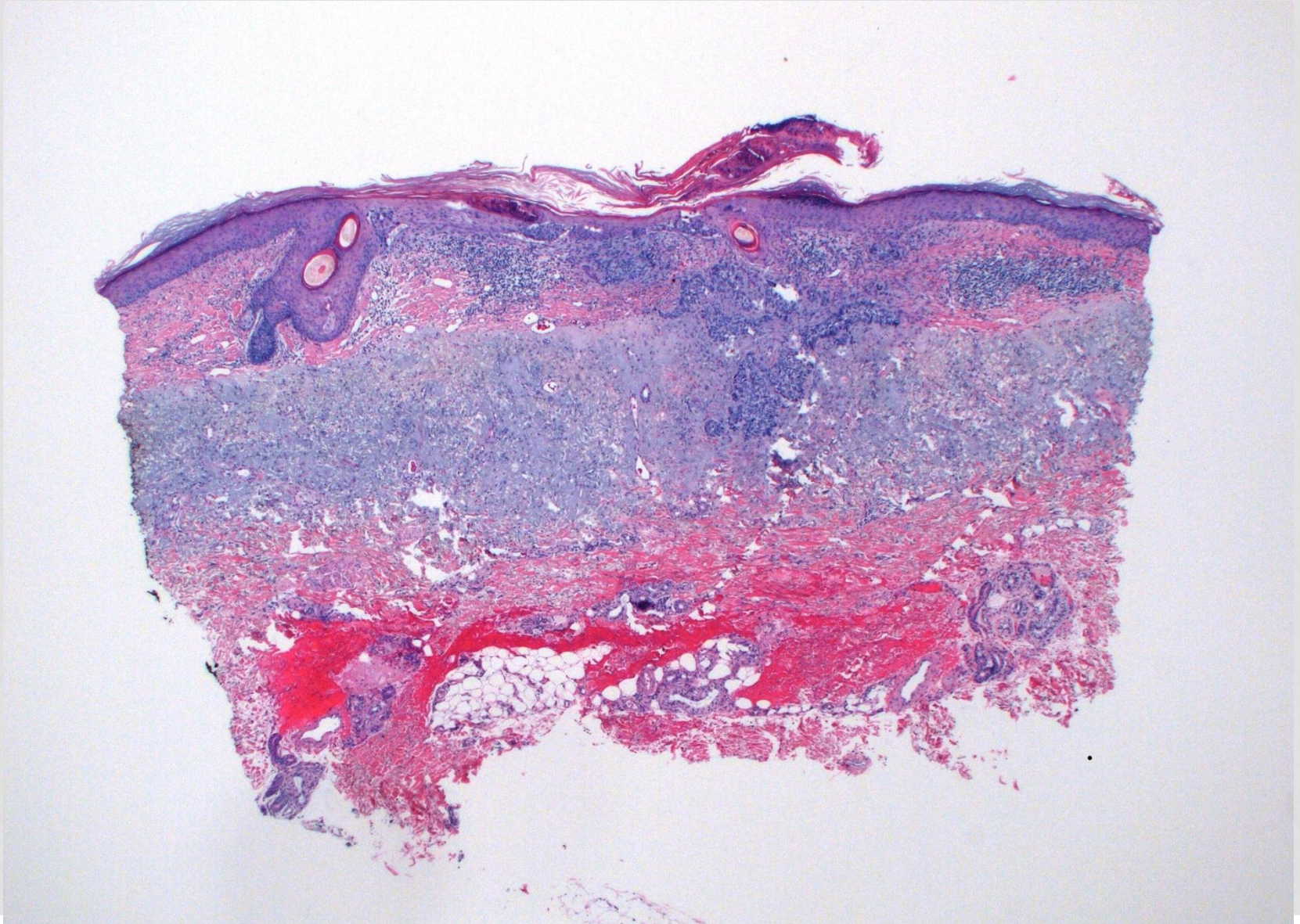
POINT 11

- Always correlate pathology report to clinical impression

SUPERFICIAL VS NODULAR BASAL CELL CARCINOMA



SUPERFICIAL VS NODULAR BCC



TIPS

- Sometimes overlap between superficial and nodular BCC
 - Clinical correlation
 - Tell pathologist what you are thinking

POINT 11

- Always correlate pathology report to clinical impression

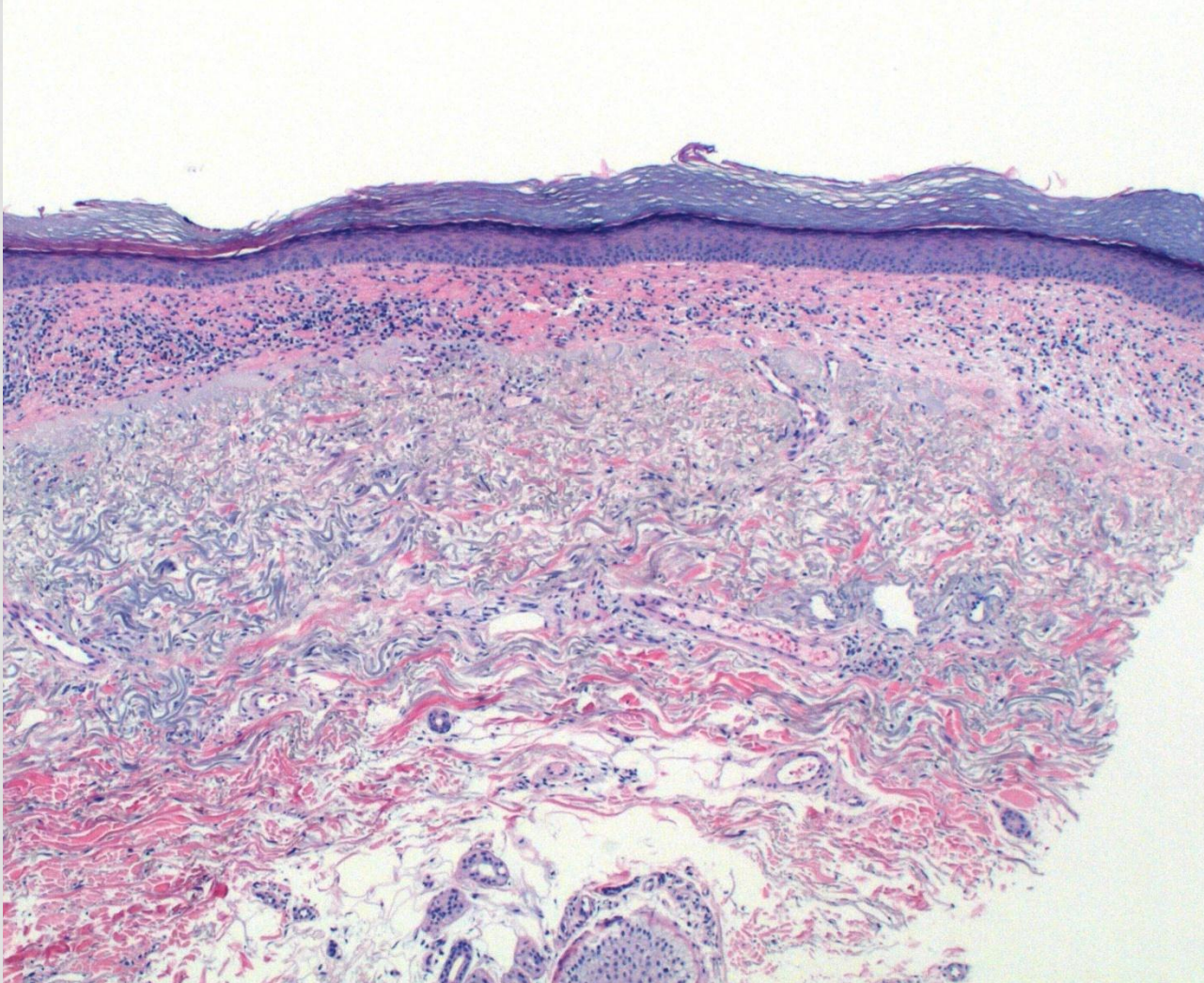


POINT 12

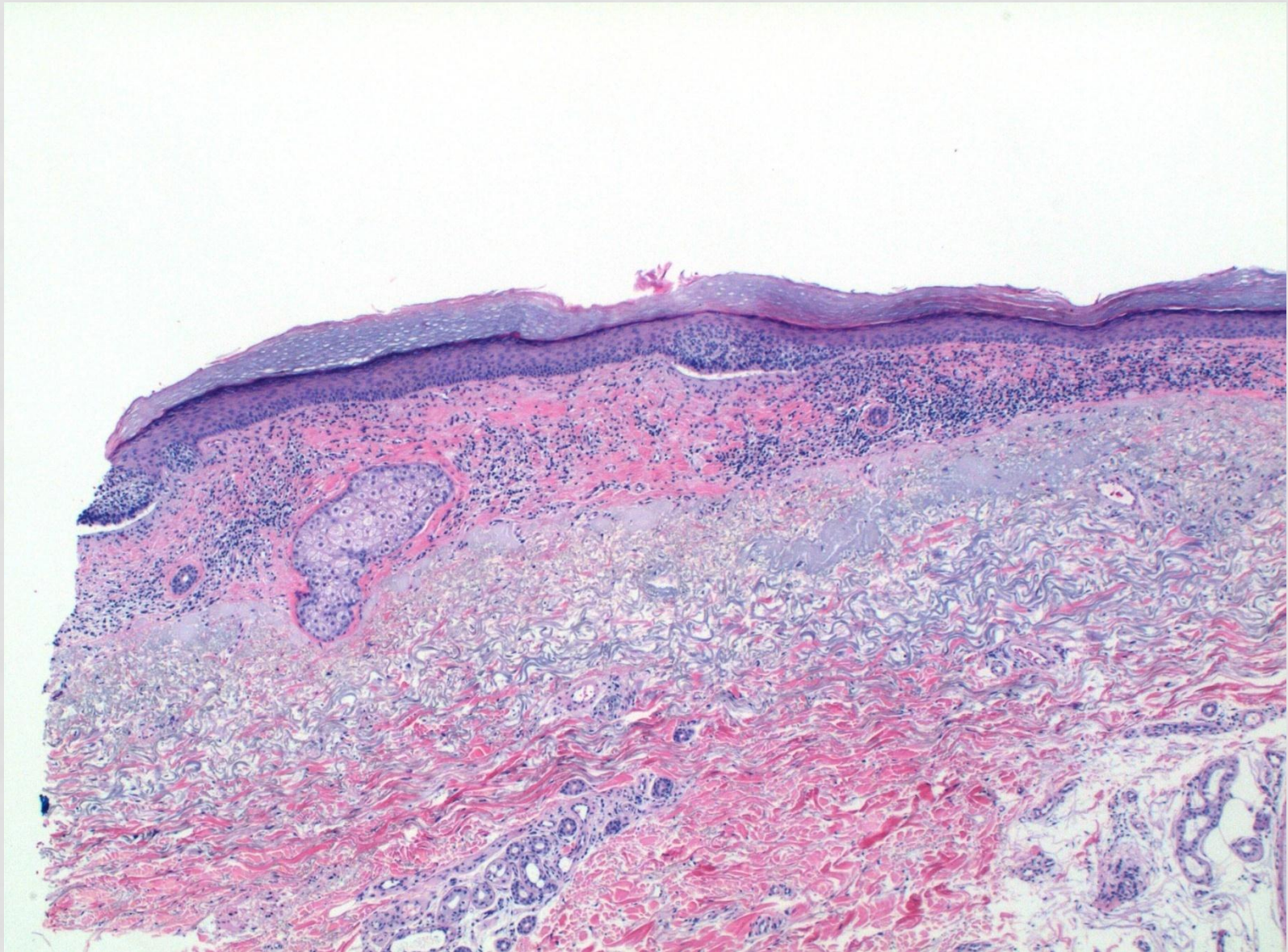
- Question your pathologist if report doesn't add up



? BCC



LEVELS PERFORMED



POINT 12

- Question your pathologist if report doesn't add up



POINT 13

- Report assessment – know your pathologist

DYSPLASTIC NAEVUS

- Regular dysplastic naevus
 - Observe
- Severe atypia = unsure/borderline
 - Treat as worst case scenario
- Know your pathologist
 - When to re-excise

POINT 13

- Report assessment – know your pathologist



POINT 14

- Use sponge roll to fill necrotic punch holes





POINT 14

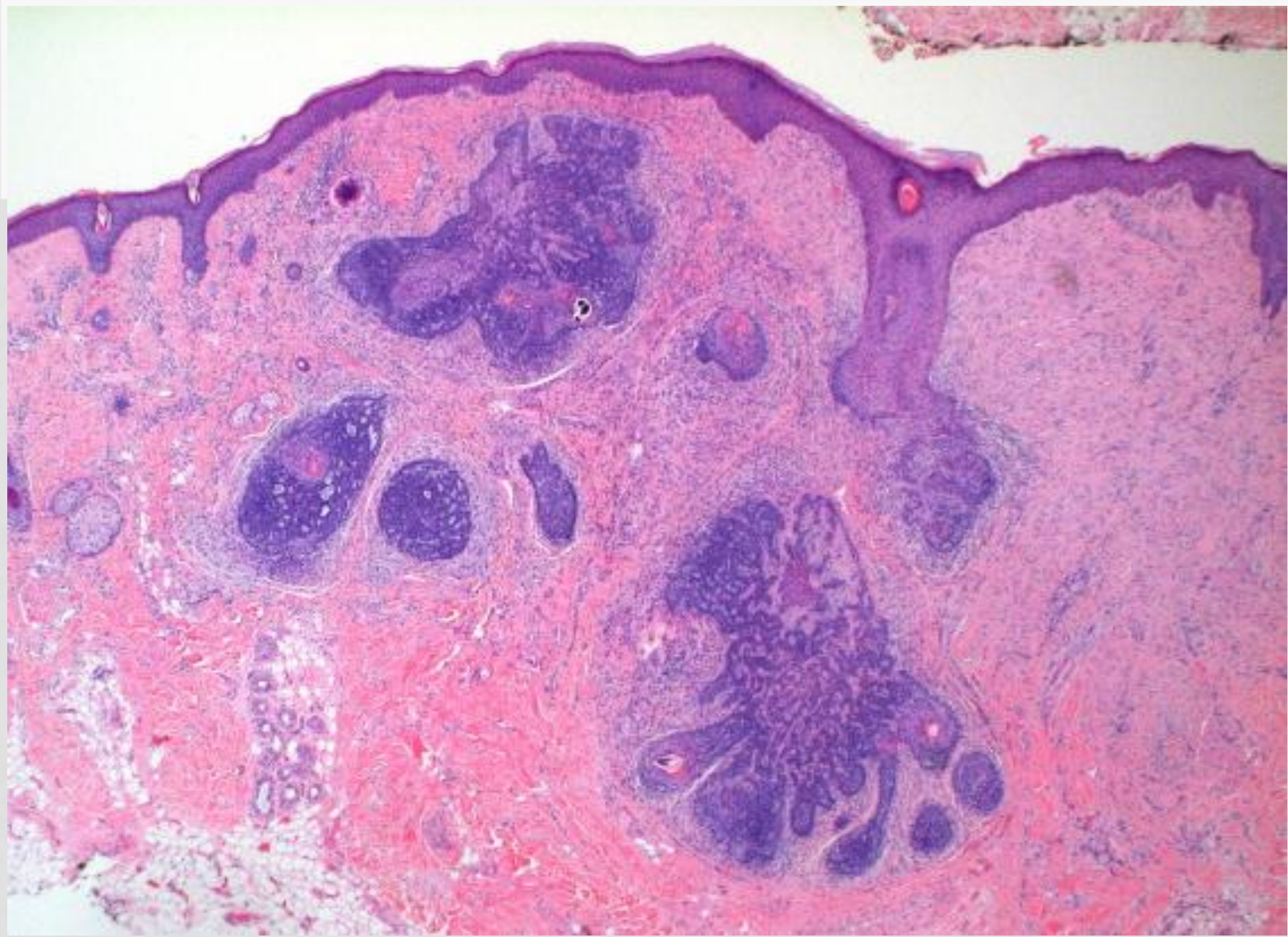
- Use sponge roll to fill necrotic punch holes

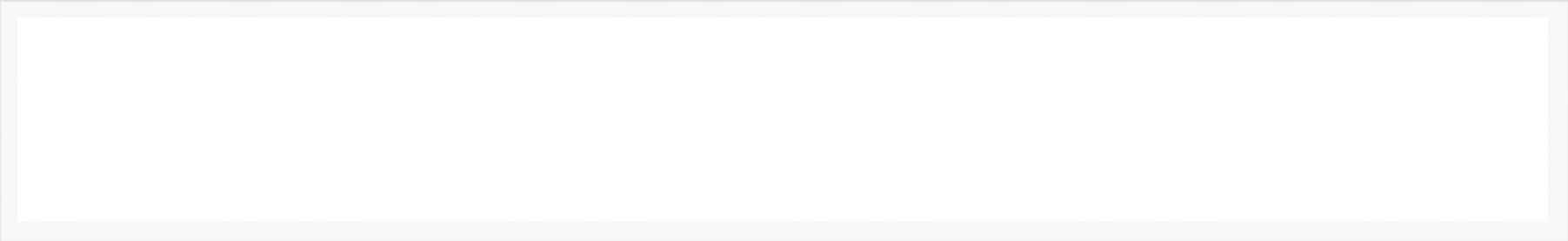


POINT 15

- Pay attention to demographics





- 
- 14 year old



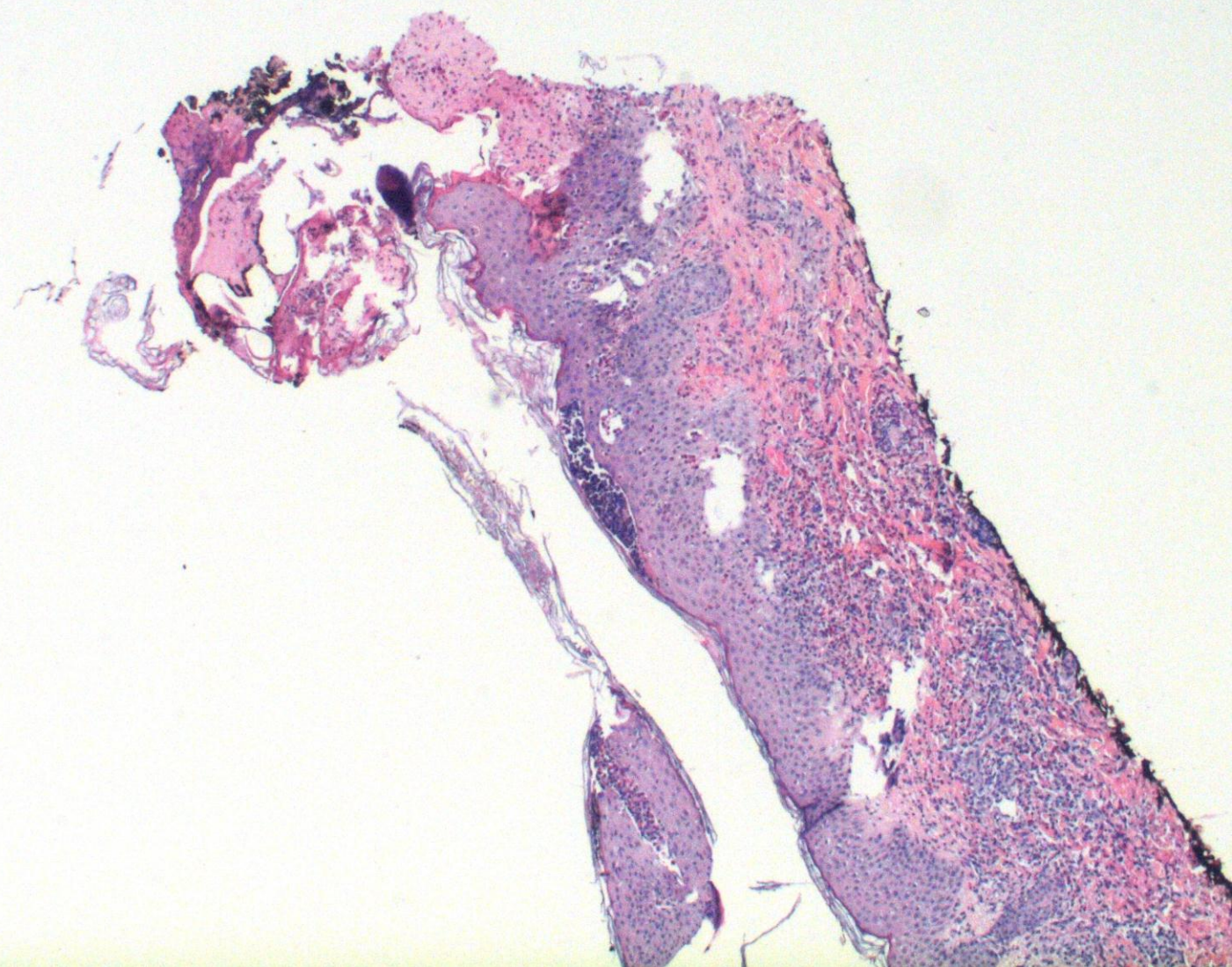
POINT 15

- Pay attention to demographics



POINT 16

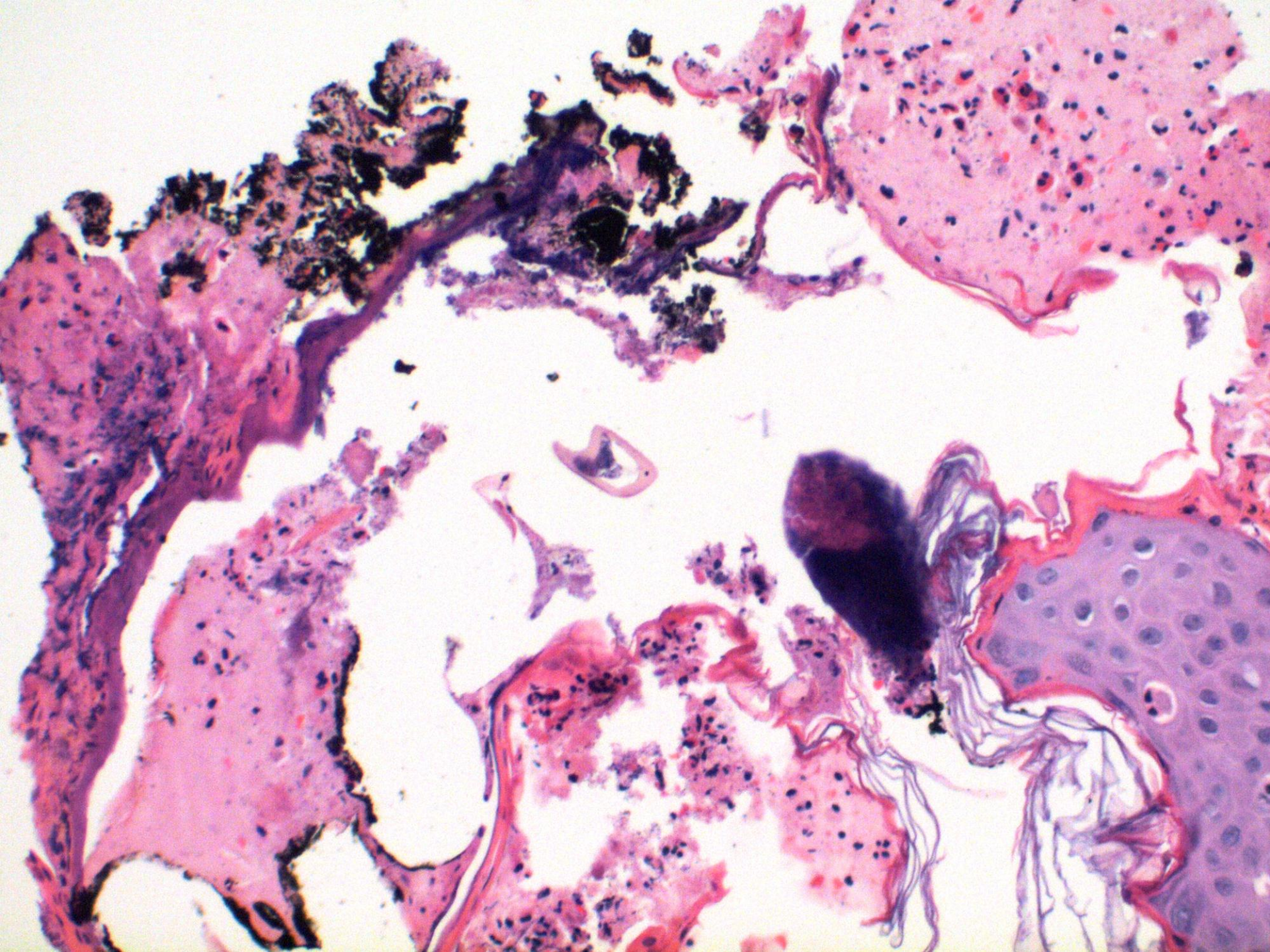
- Provide clinical information



CLINICAL INFO

- 6 week old
- Scattered truncal blisters
 - ? Scabies





POINT 16

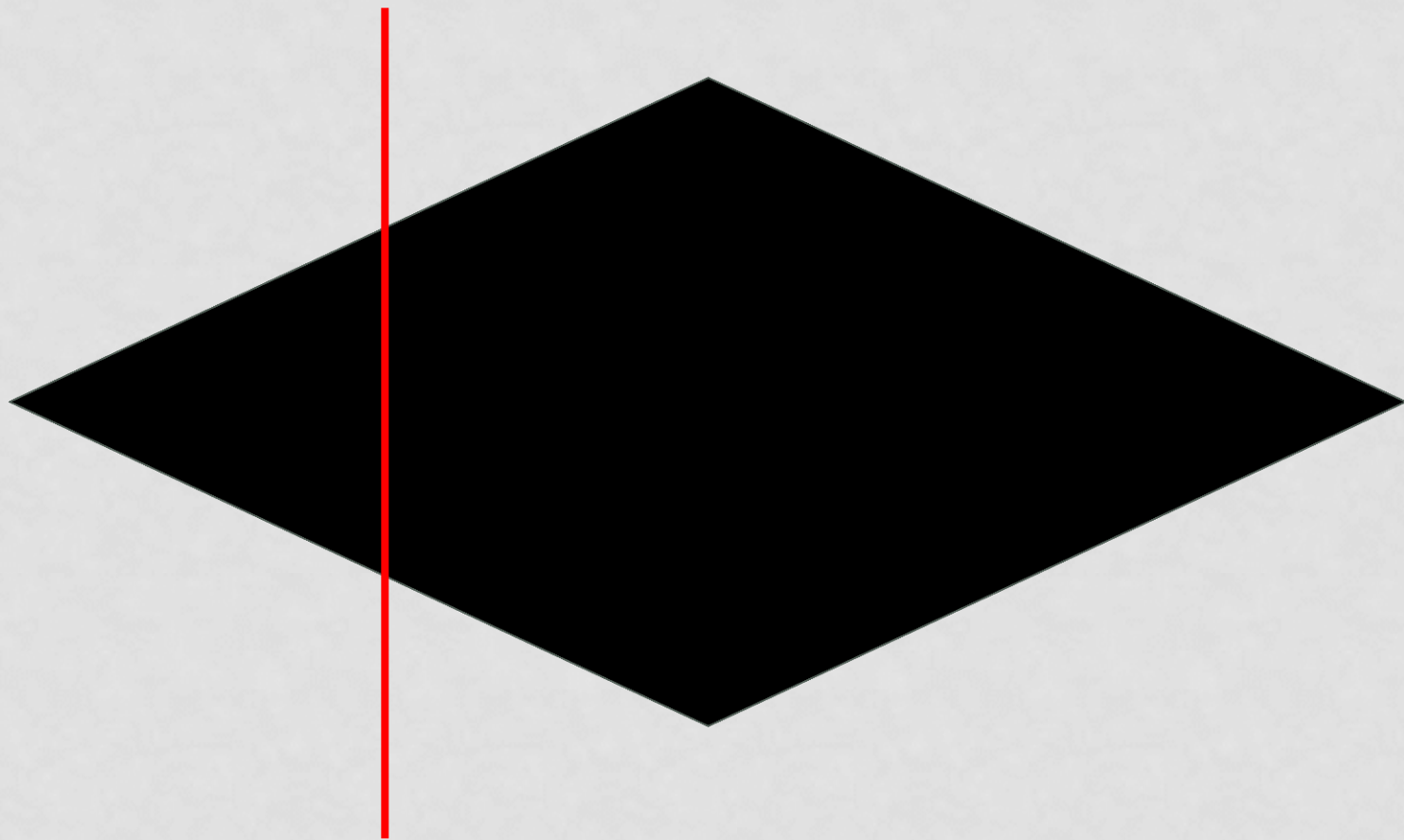
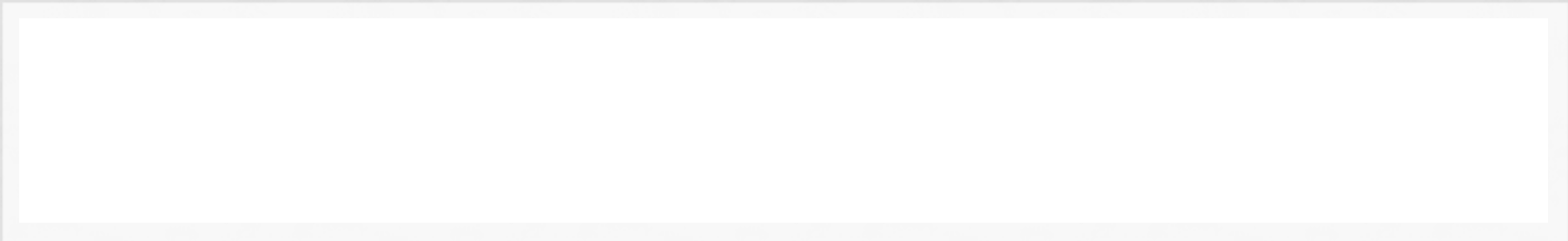
- Provide clinical information

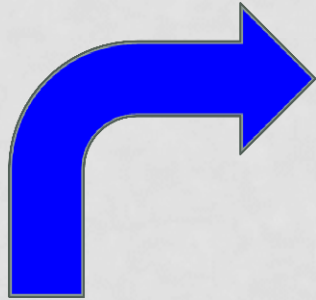


POINT 17

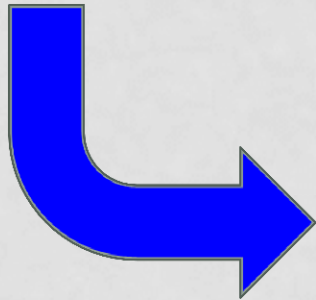
- Cut the end off an incisional biopsy for culture







HISTOLOGY



CULTURE



POINT 17

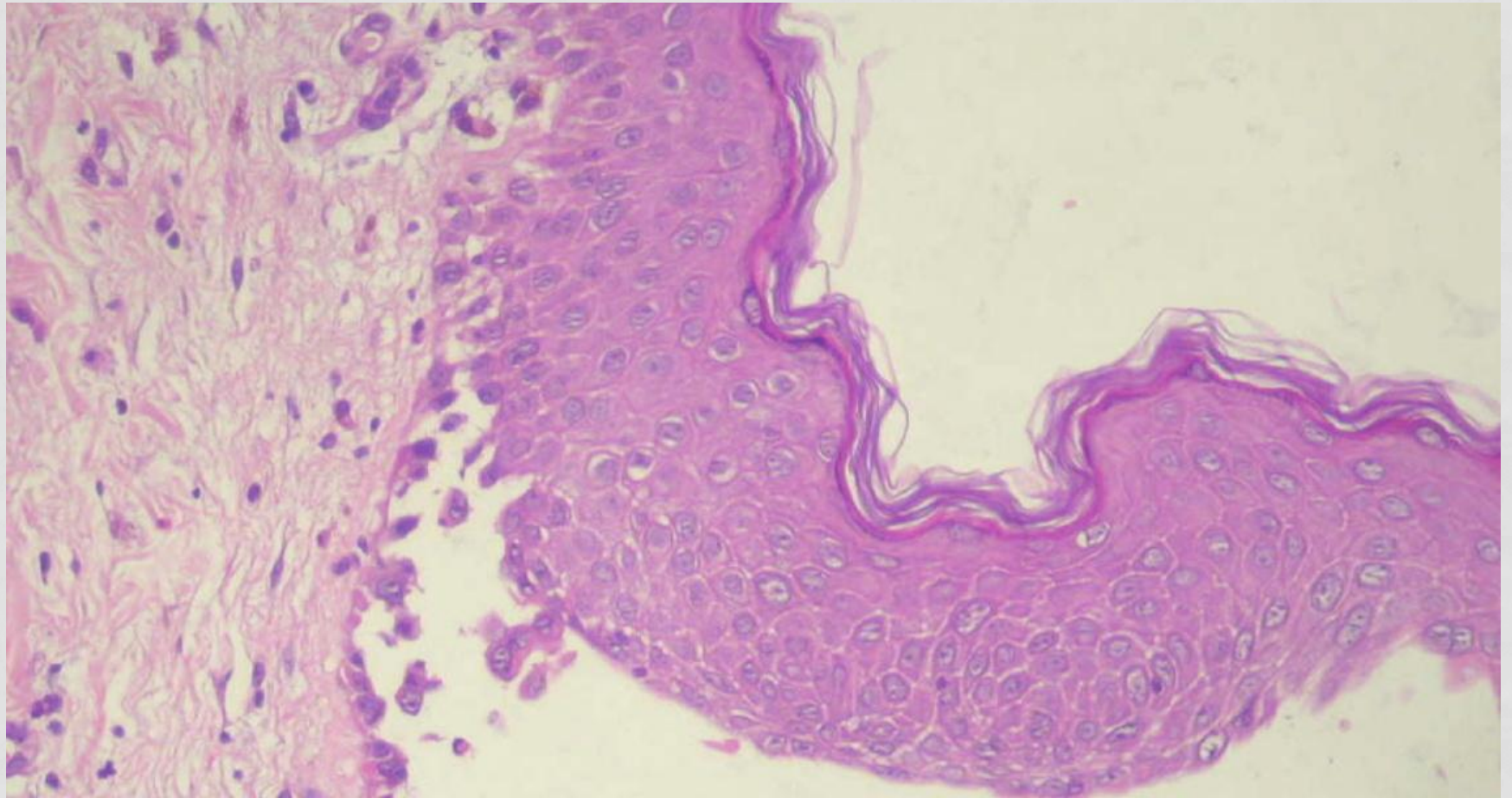
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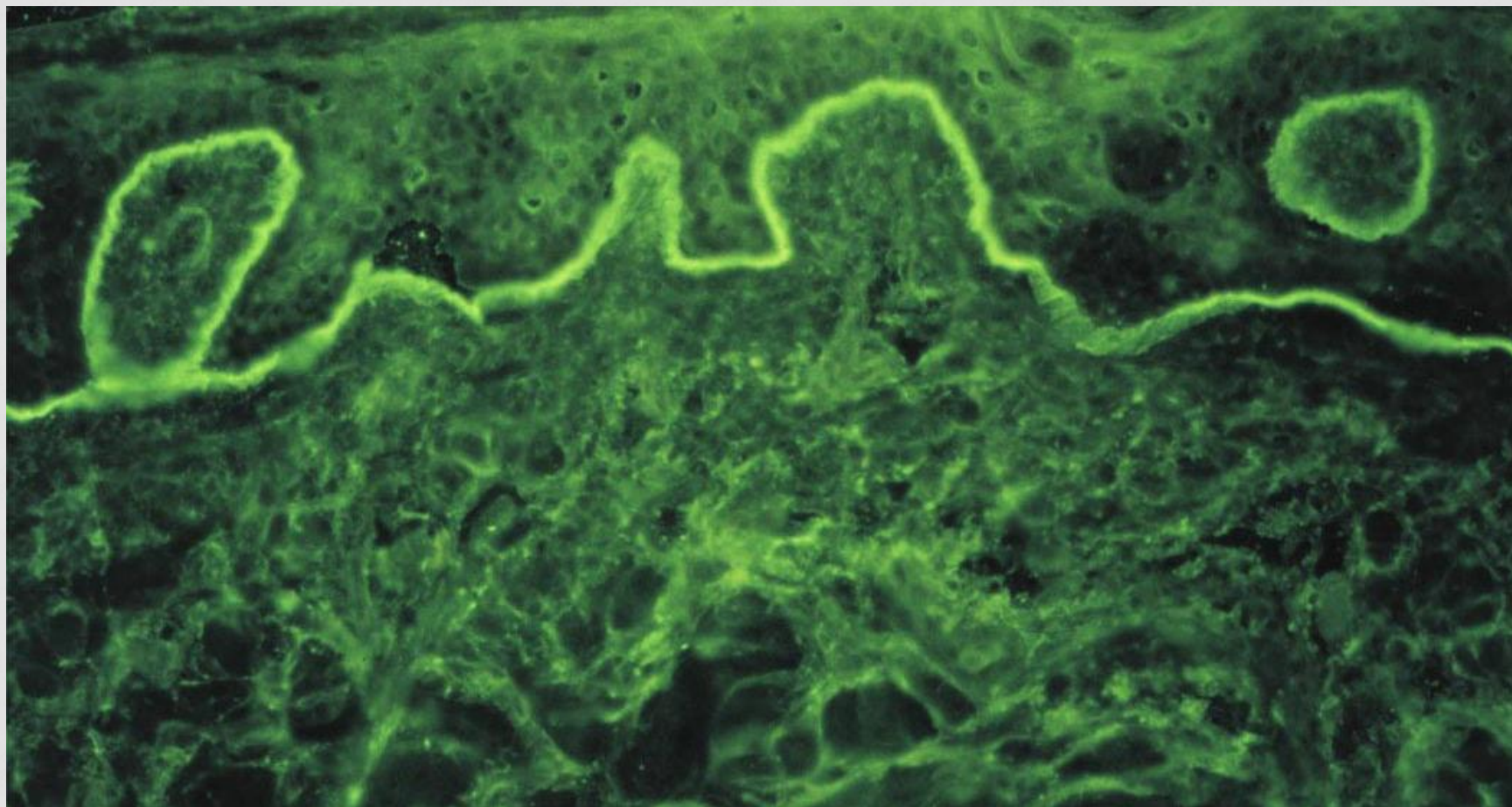


POINT 18

- Take two biopsies for blistering conditions

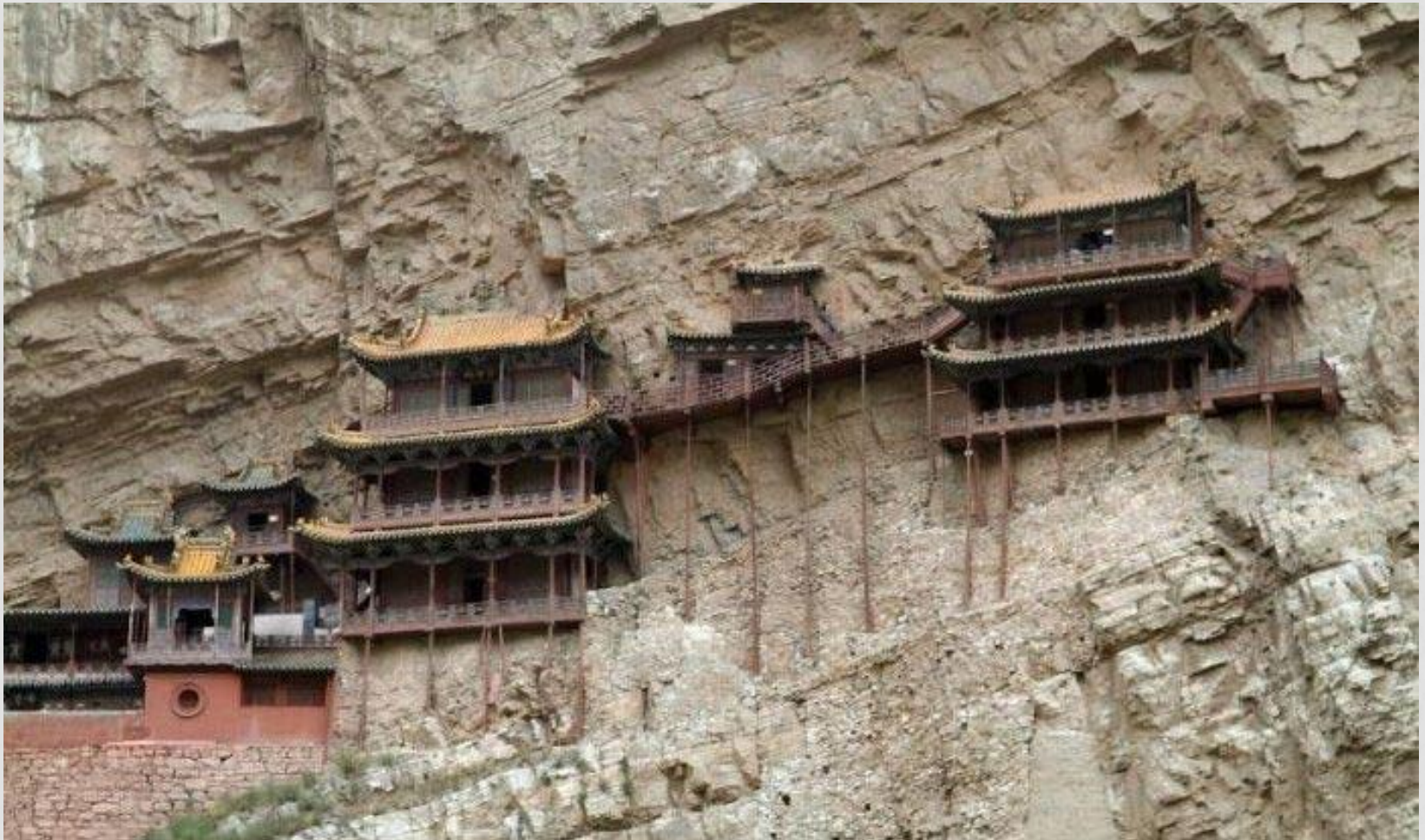






POINT 18

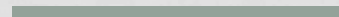
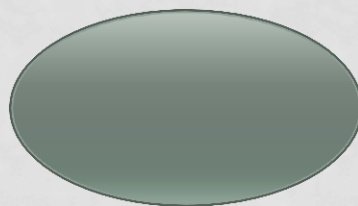
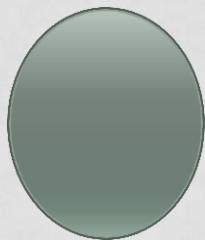
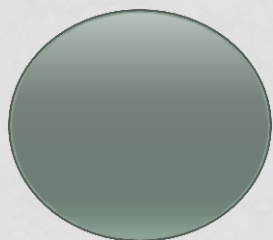
- Take two biopsies for blistering conditions



POINT 19

- Stretch the skin when taking punch biopsy





POINT 19

- Stretch the skin when taking punch biopsy



POINT 20

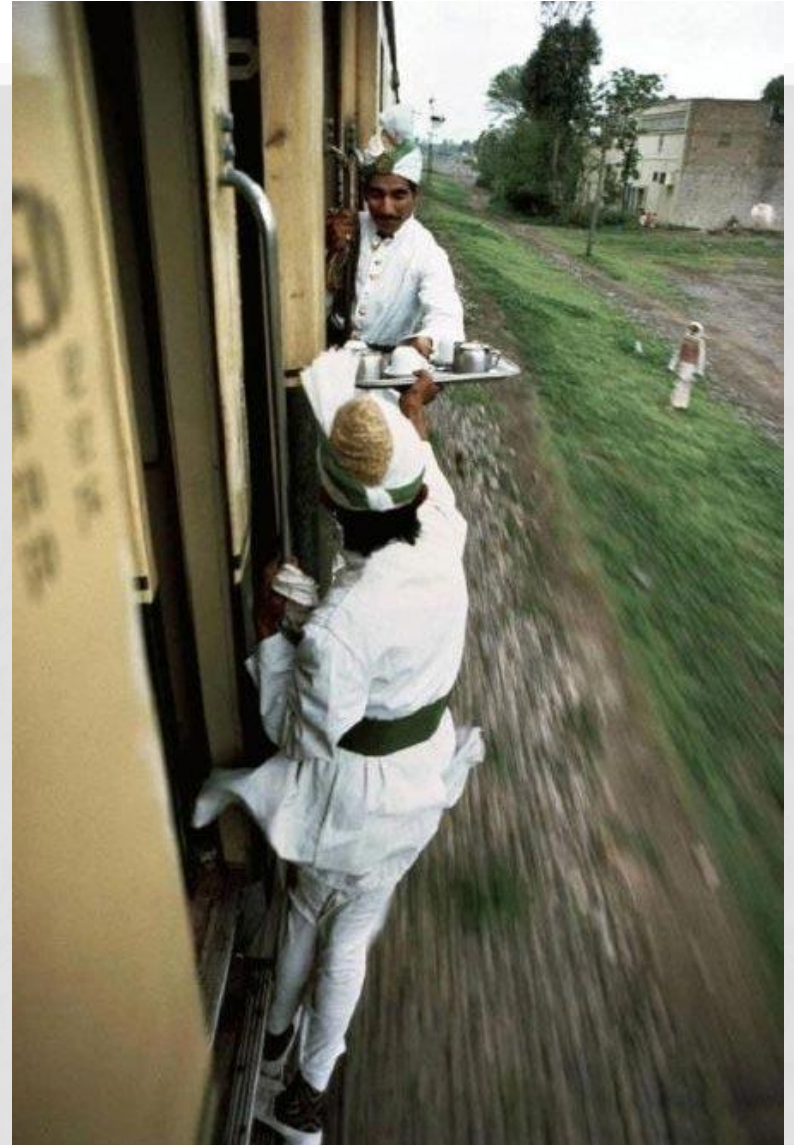
- Biopsy the base if large cutaneous horn



- Hypertrophic solar keratosis vs squamous cell carcinoma

POINT 20

- Biopsy the base if large cutaneous horn



POINT 21

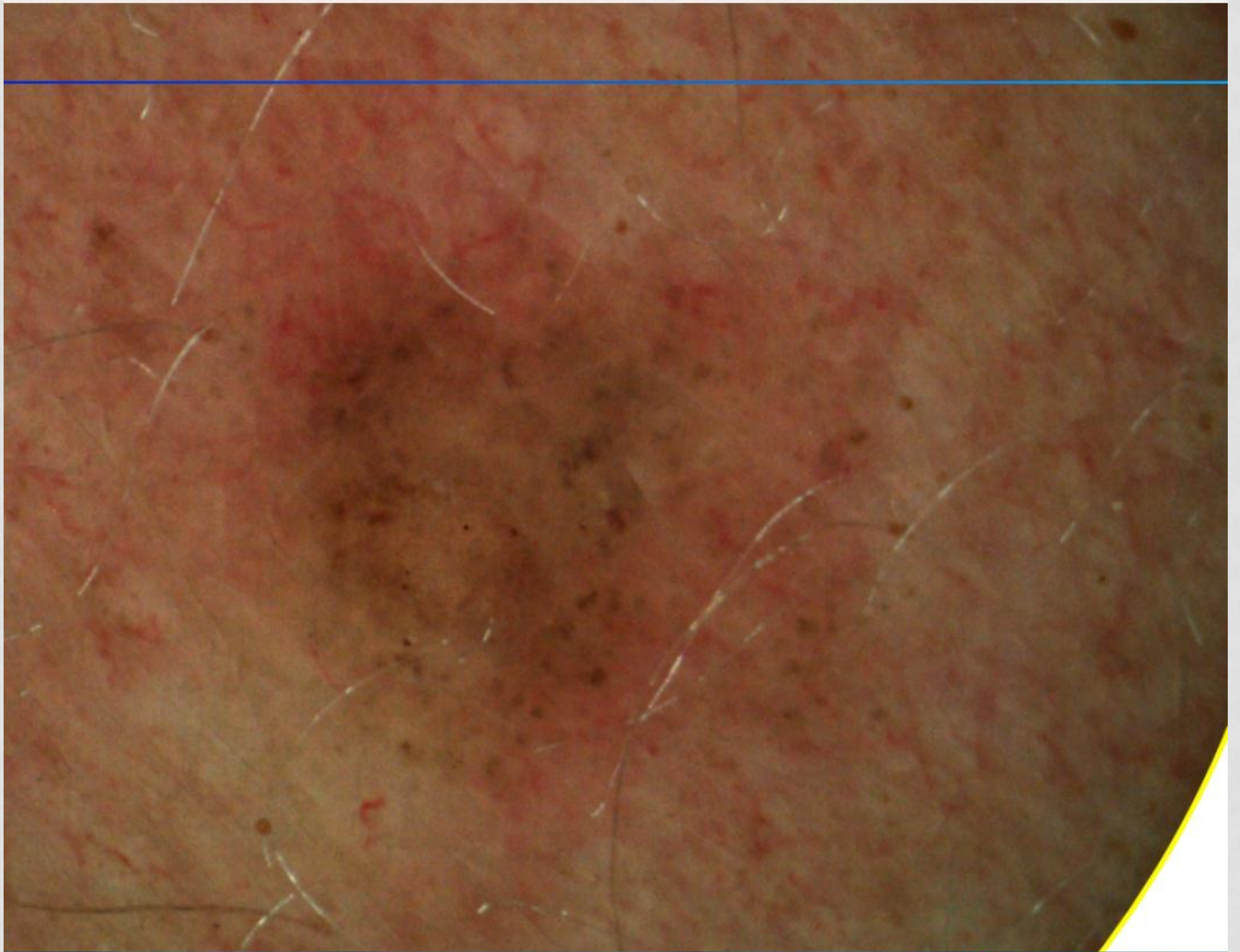
- Request adjunctive genetic tests for difficult melanocytic lesions

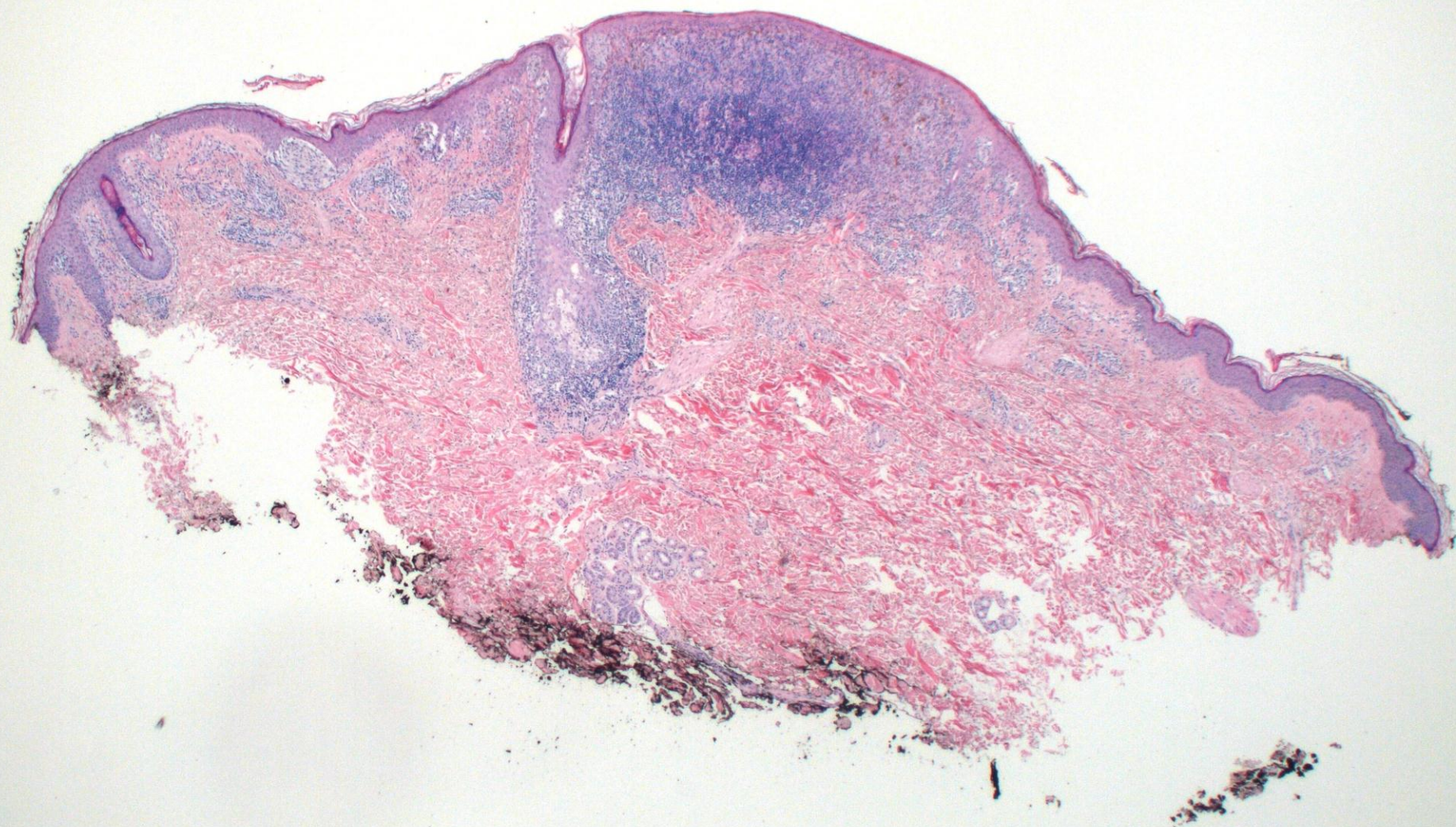
MOLECULAR TESTS IN HISTOLOGY

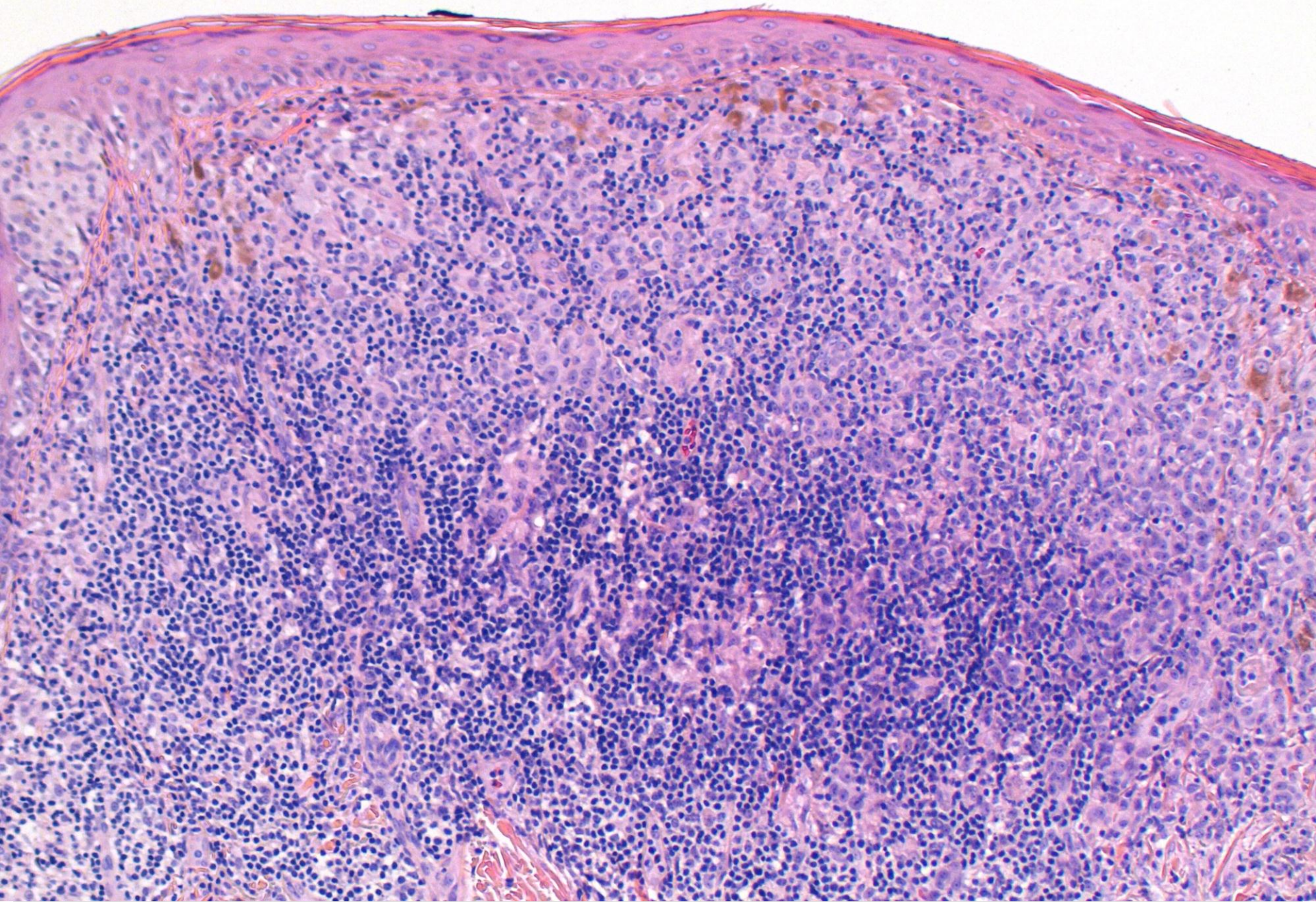
- Diagnostically ambiguous lesions
 - eg Atypical Spitz Naevi
- FISH
- Array Comparative Genomic Hybridisation
- Histology adjunct

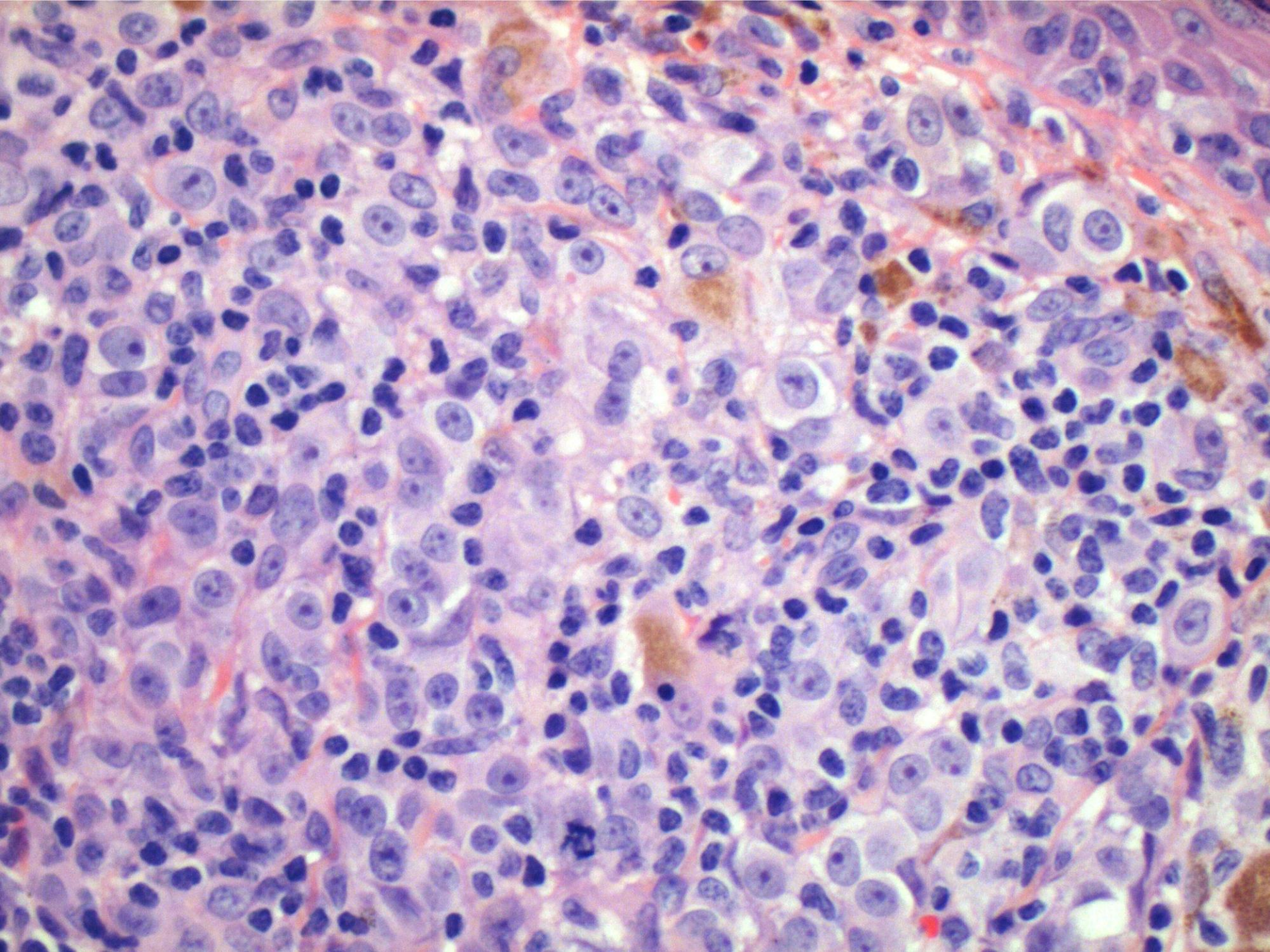
CASE EXAMPLE

- Mrs TW
- 35 y/o
- Changing mole L upper arm

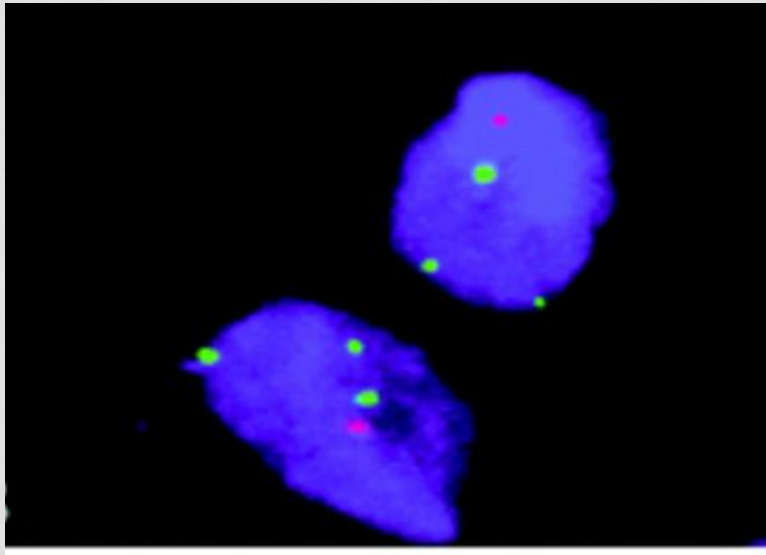




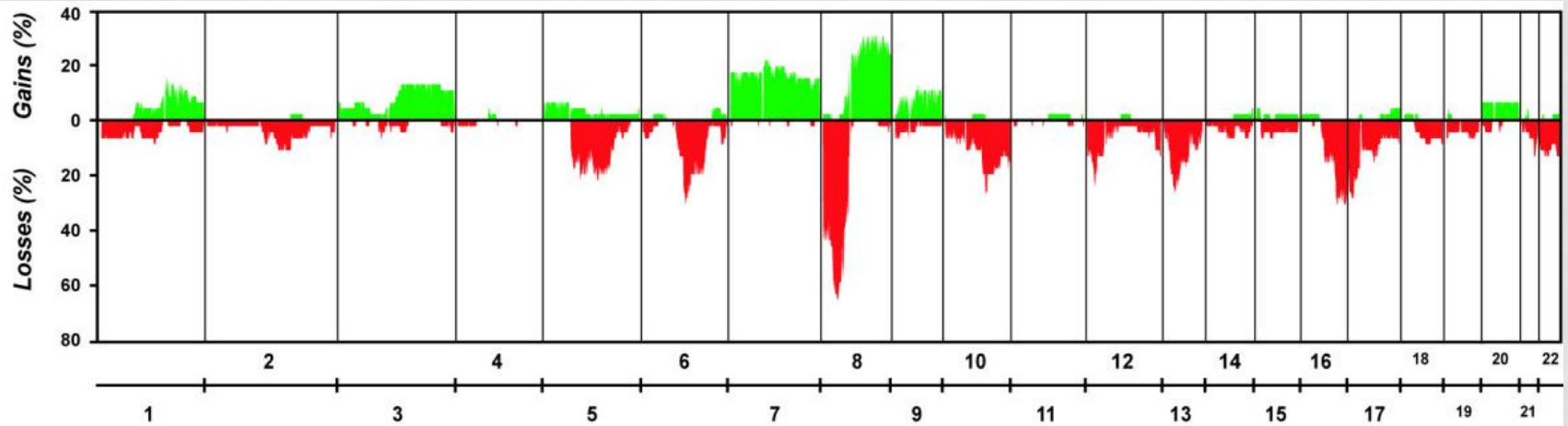




FISH



ARRAY CGH



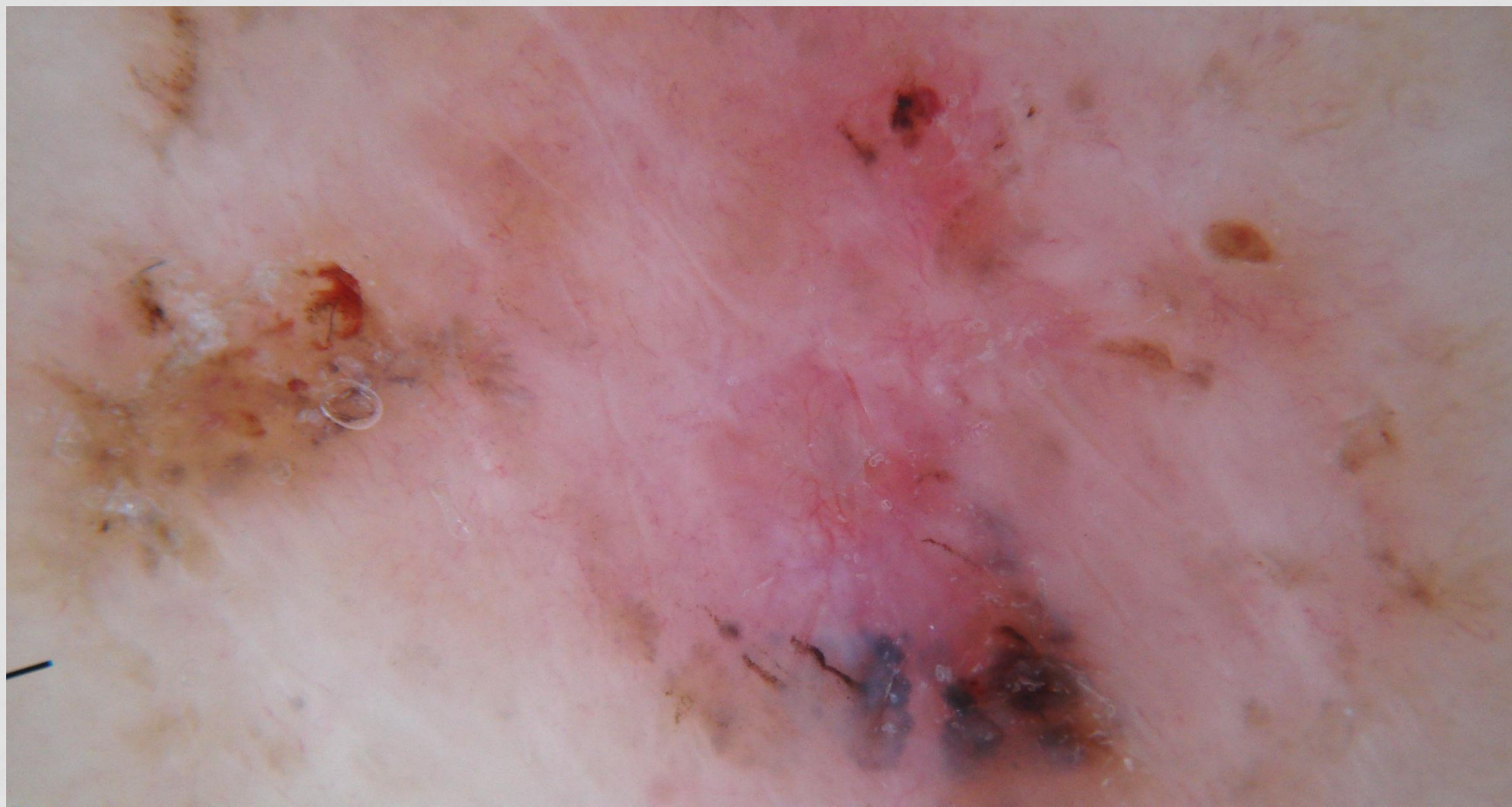
POINT 21

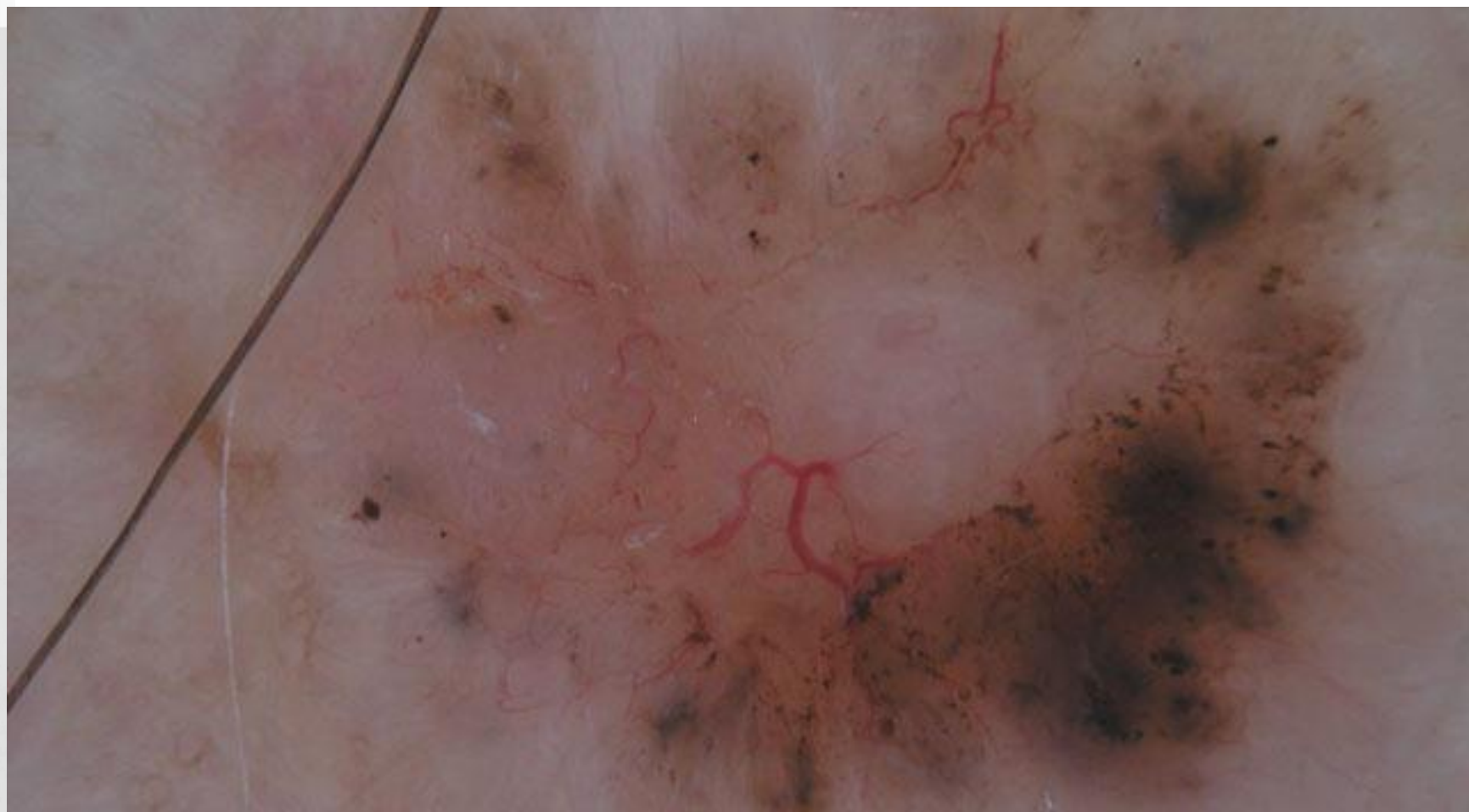
- Request adjunctive genetic tests for difficult melanocytic lesions



POINT 22

- Look for pigmentation in subtle basal cell carcinomas





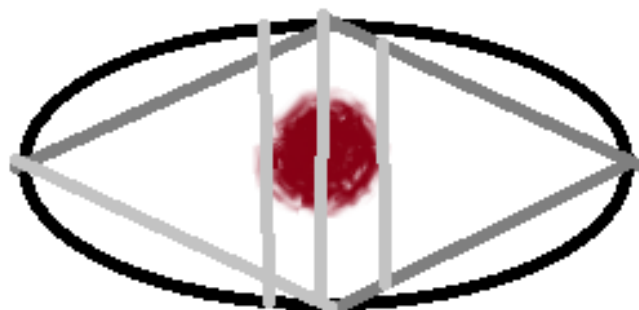
POINT 22

Look for pigmentation in subtle basal cell carcinomas



POINT 23

- Excise facial melanoma in situ with staged margin assessment
 - Staged excision
 - Paraffin



- 5mm frequently inadequate
- Complete excision
 - 6mm 86%
 - **9mm** 99%

POINT 23

- Excise facial melanoma in situ with staged margin assessment
 - Staged excision
 - Paraffin



END