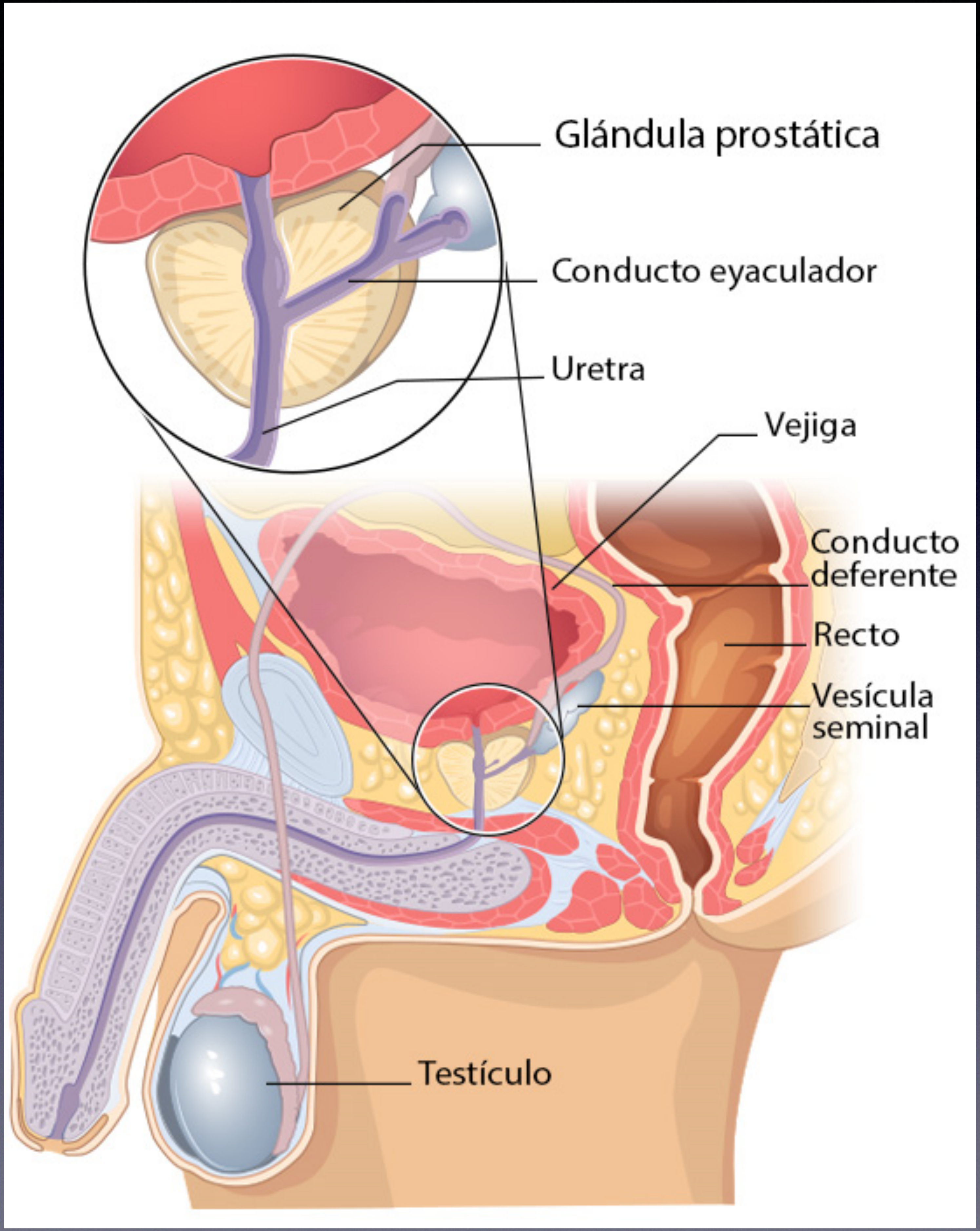
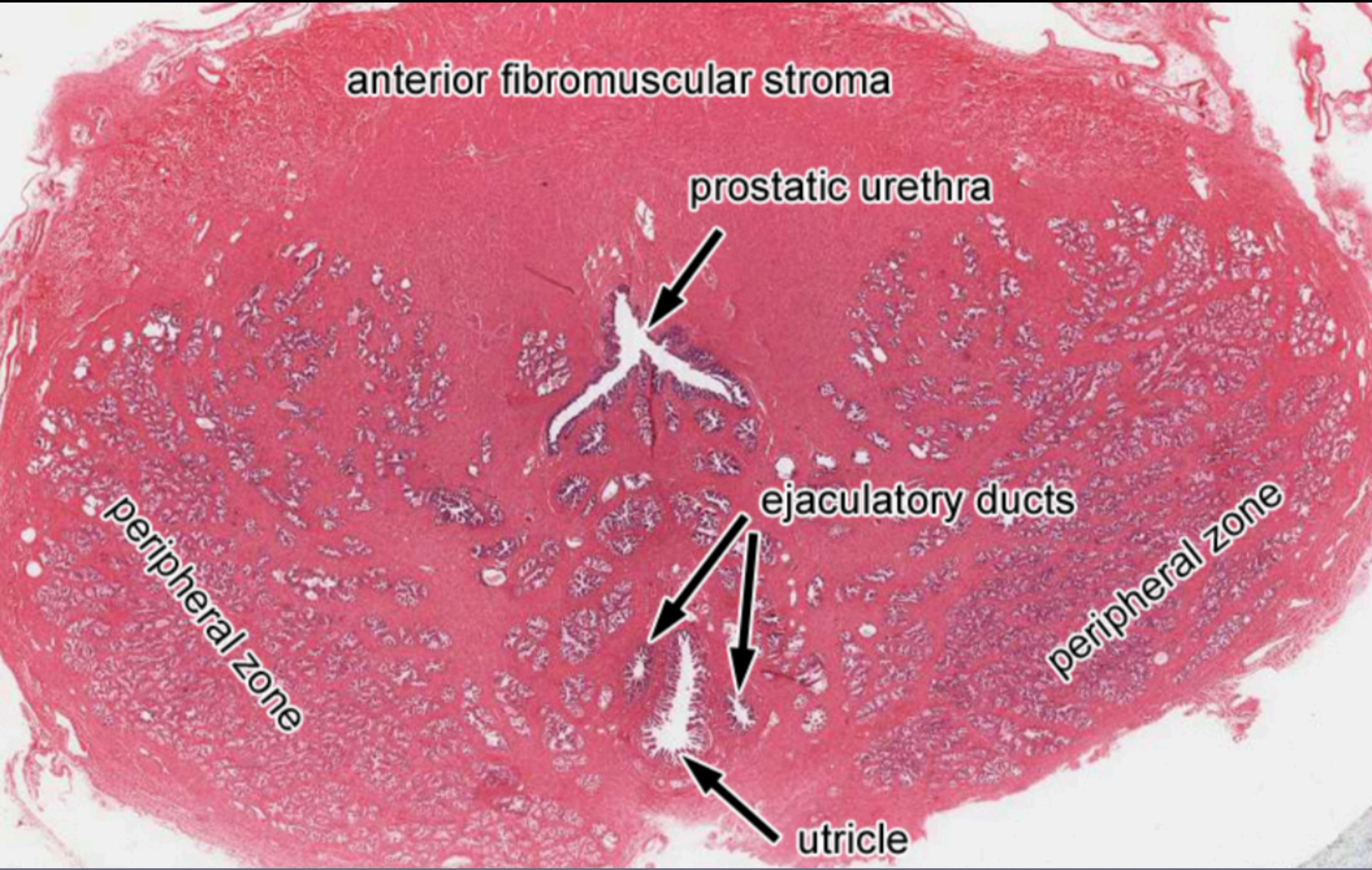
PATOLOGIA DE LA PRÓSTATA

Dra. Monica A. Carrera Álvarez

Prostatitis

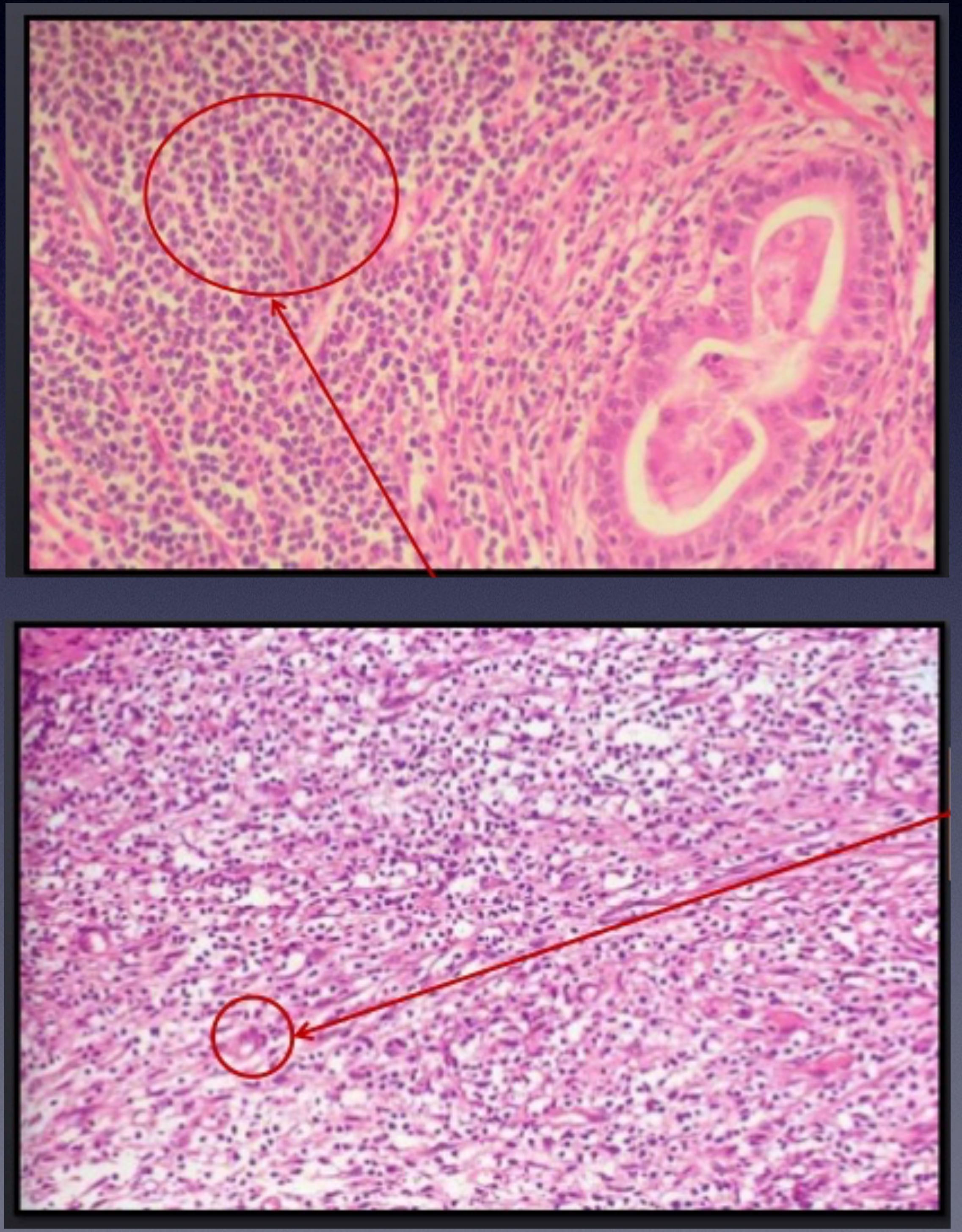
- PROSTATITS
- HIPERPLSIA
- CARCINOMA
- OTROS TUMORES


Glándula prostática
Conducto eyaculador
Uretra
Vejiga
Conducto deferente
Recto
Vesícula seminal
Testículo


anterior fibromuscular stroma
prostatic urethra
ejaculatory ducts
peripheral zone
peripheral zone
utricle

Prostatitis

- Prostatitis aguda
- Prostatitis crónica bacteriana
- Prostatitis crónica no bacteriana
- Prostatitis granulomatosa

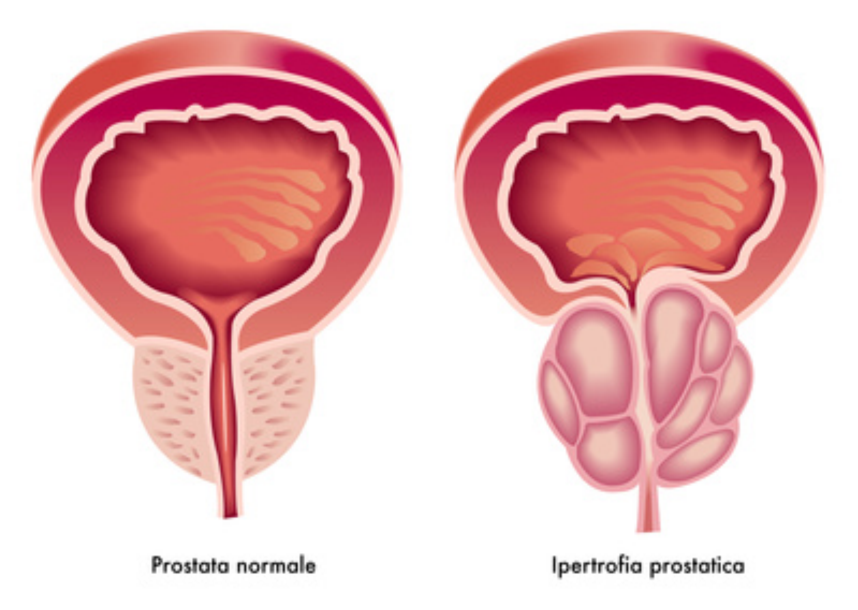


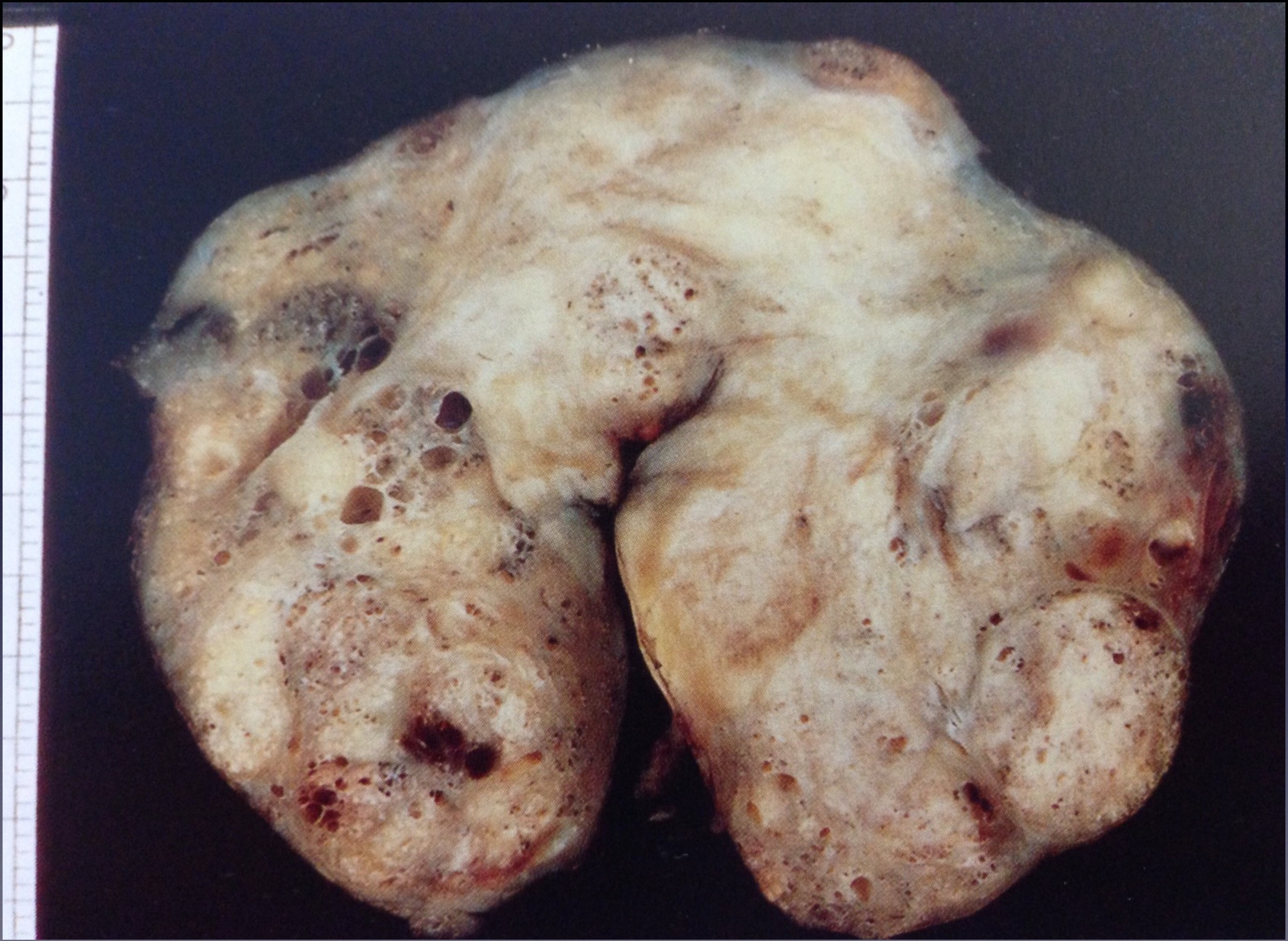
Hiperplasia nodular

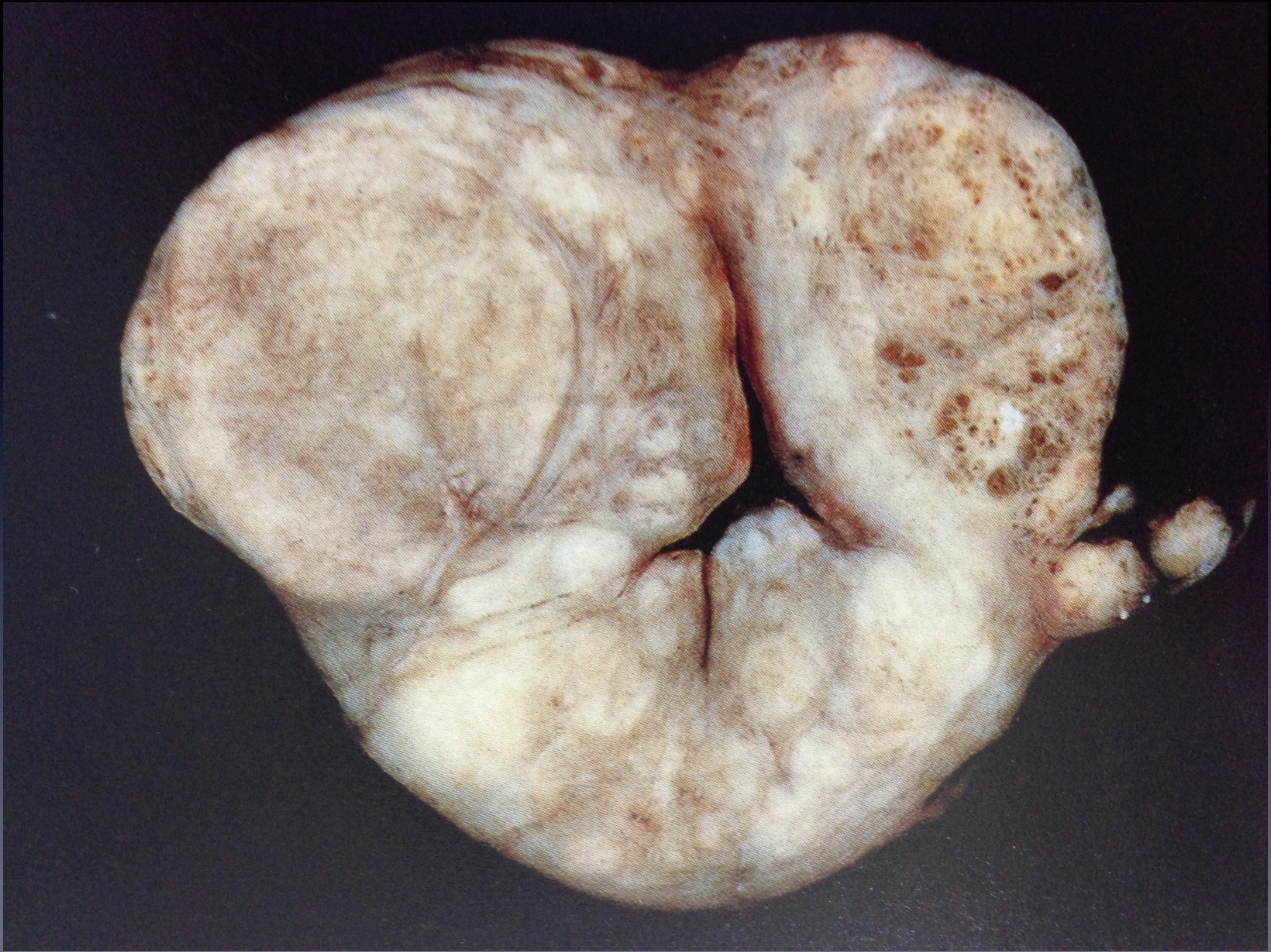
- Benigna
- Incidencia 70% a los 60 años, inicio después de los 30 años
- Sin correlación entre morfología y clínica
- No hay factores predisponentes
- No se socia a desarrollo de adenocarcioma

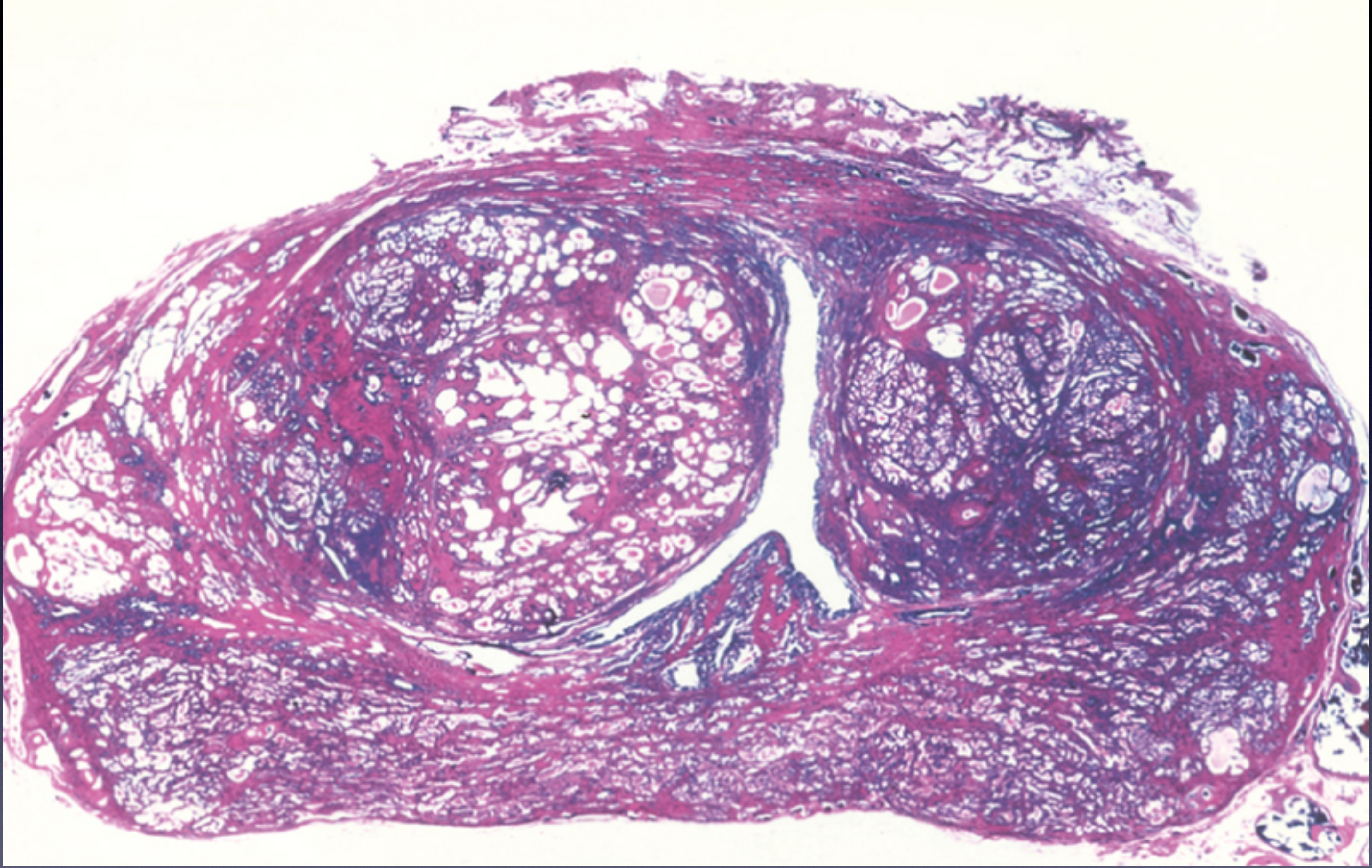
Hiperplasia nodular

- Aumento en el número de células y/o disminución de apoptosis
- dependiente de andrógenos.- Estímulo de la deshidrotestosterona - en estroma, efecto parácrino
- Aumento 60-100g, zona transicional
- No es lesión premaligna


Prostata normale
Ipertrofia prostatica

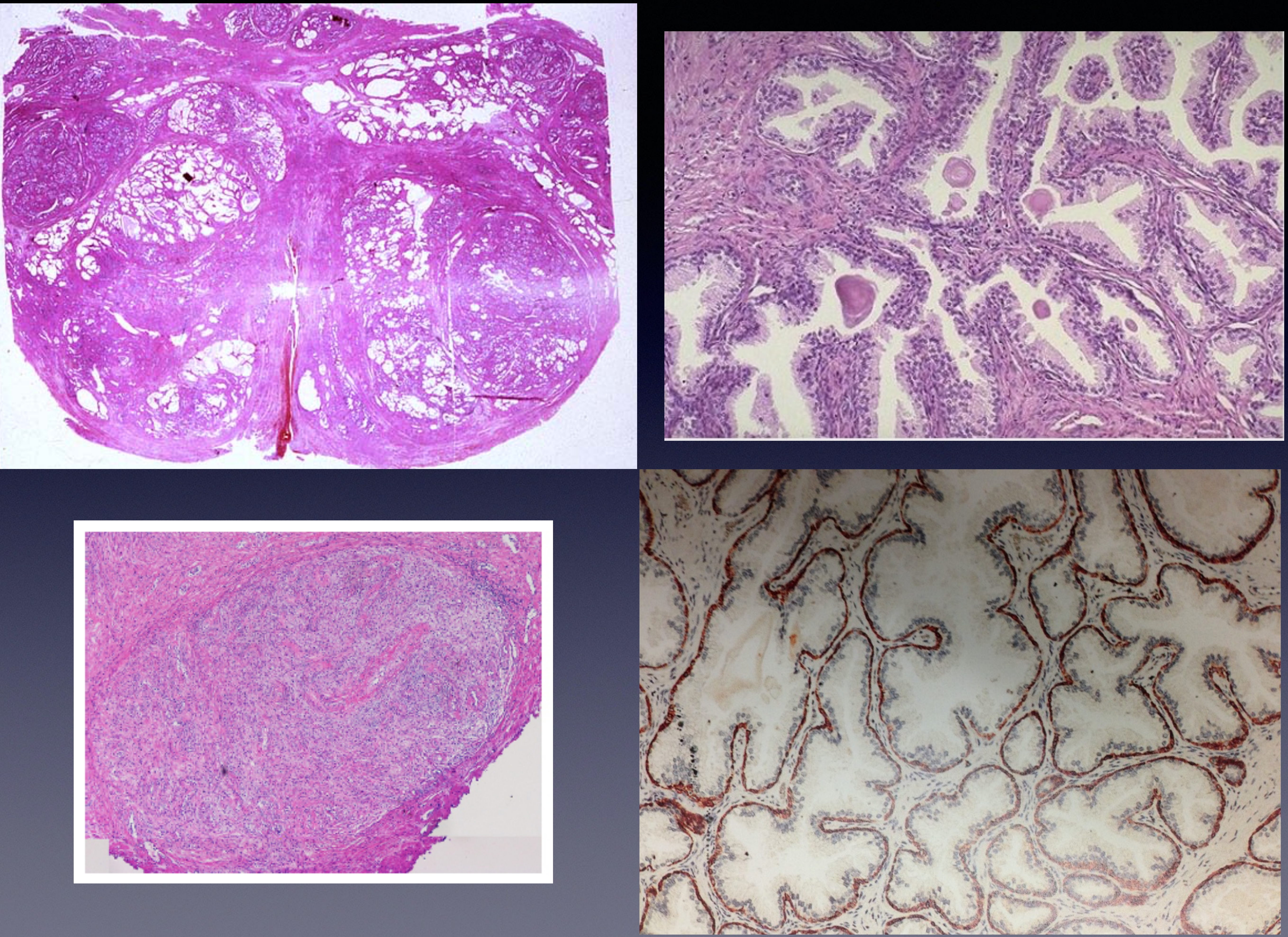


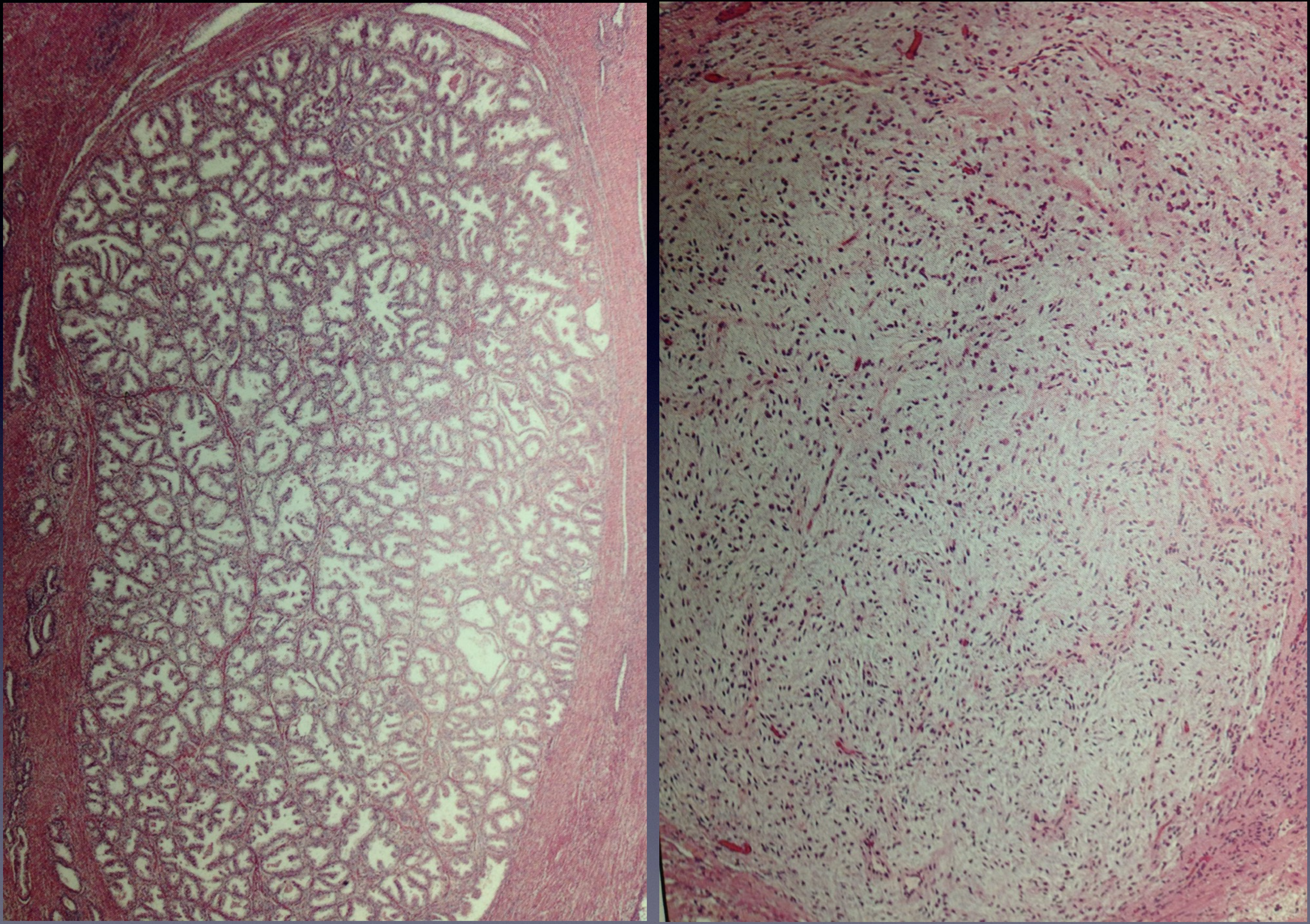


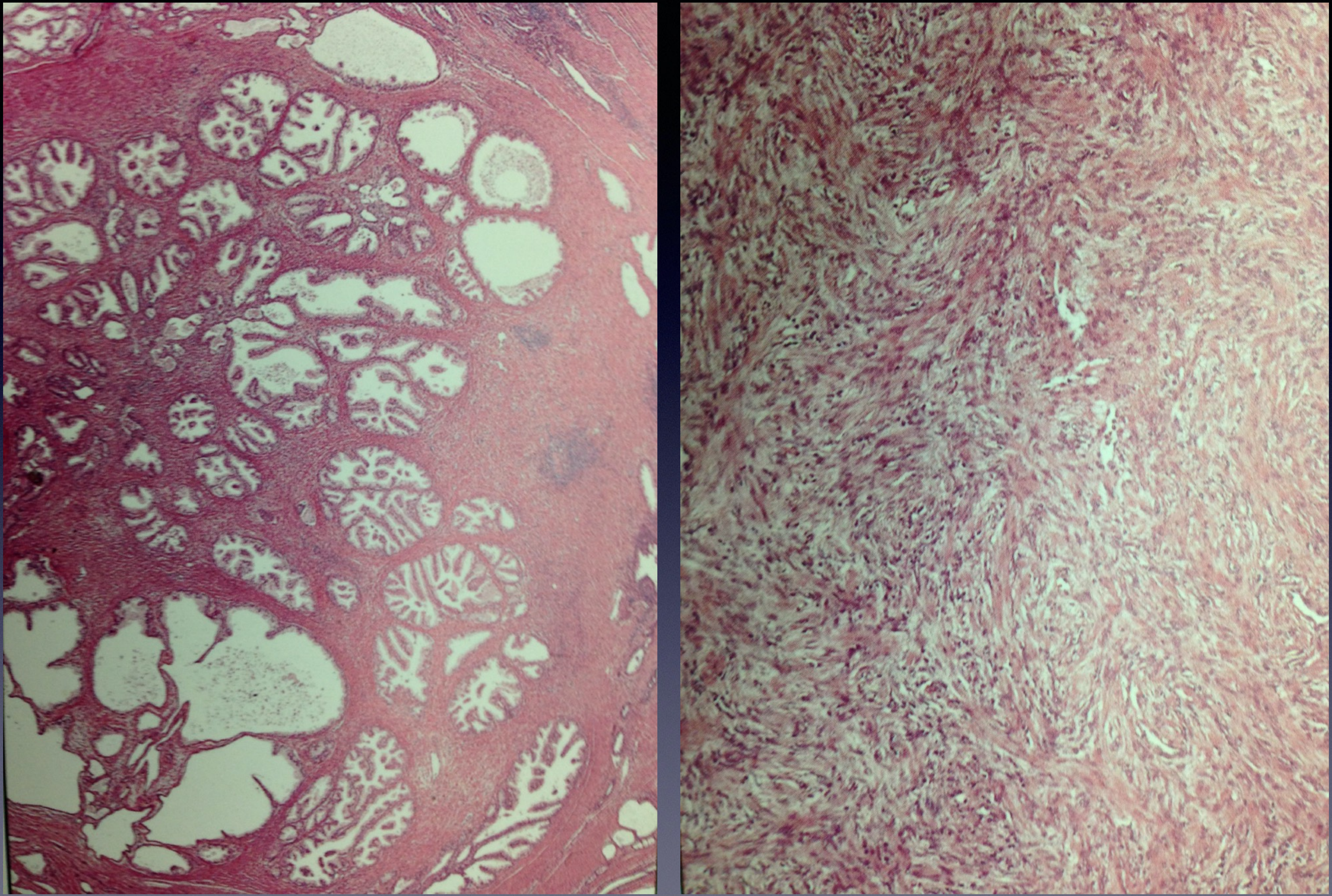


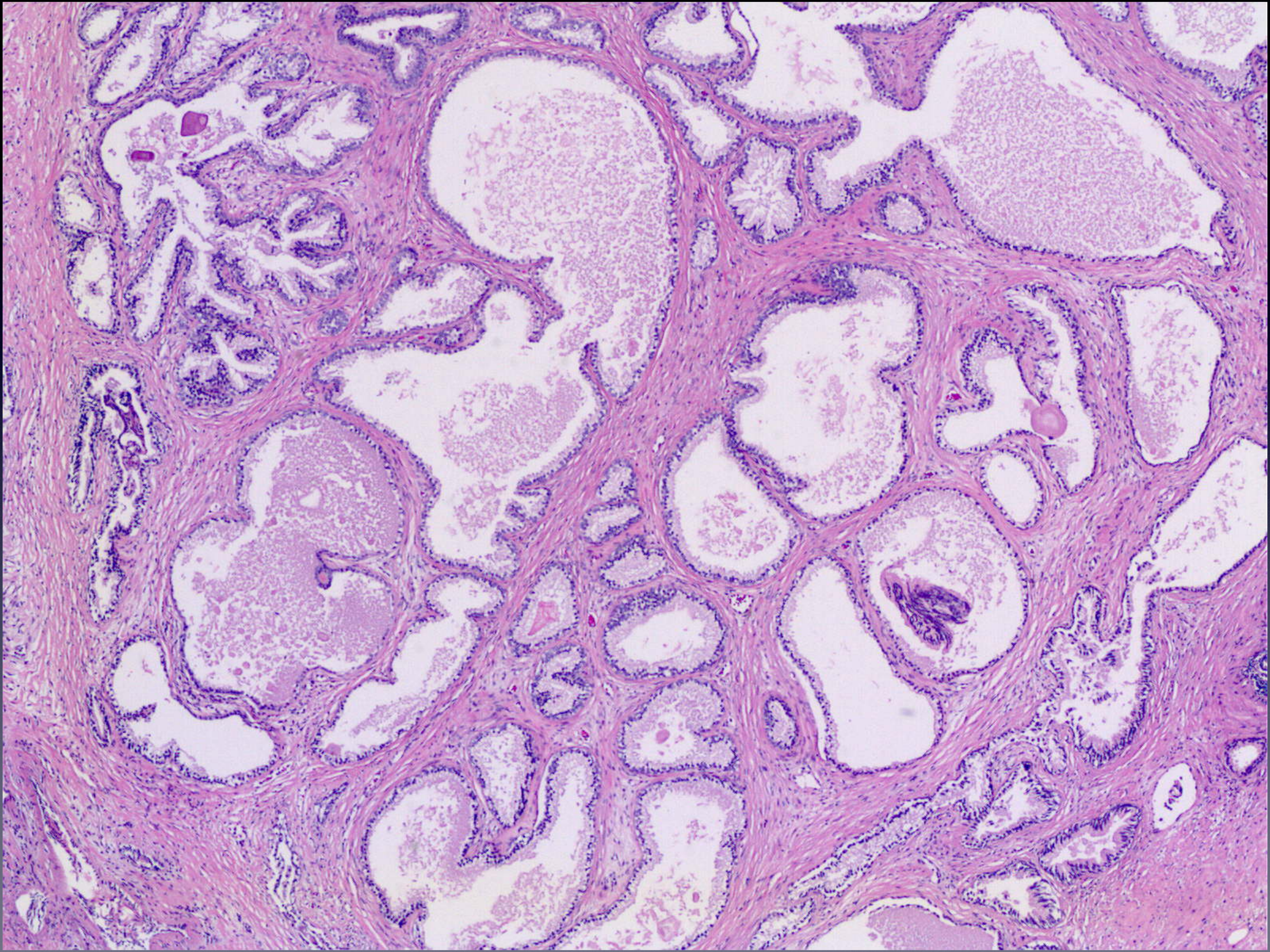
Hiperplasia nodular

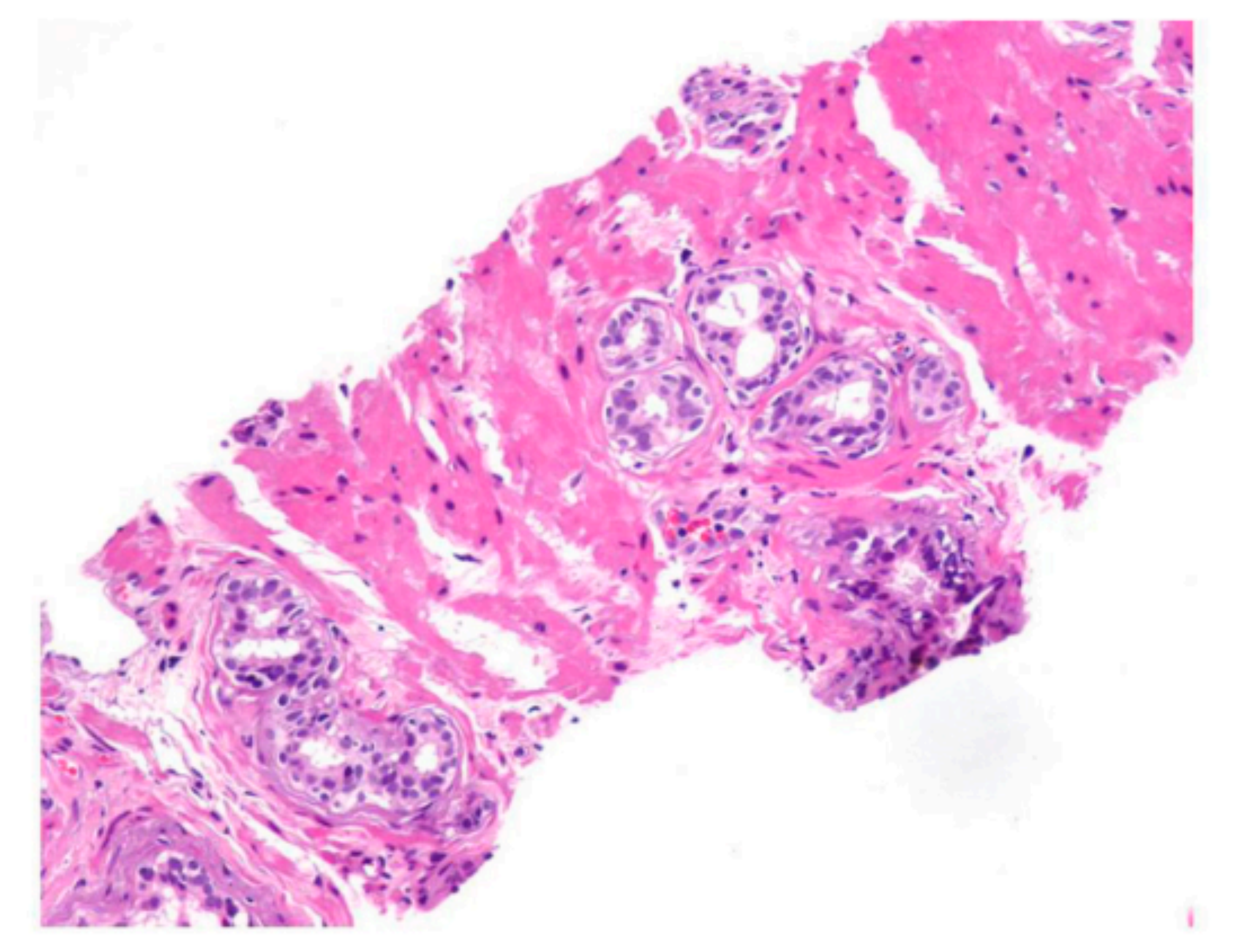
- Hiperplasia del componente glandular
- Hiperplasia del componente estromal

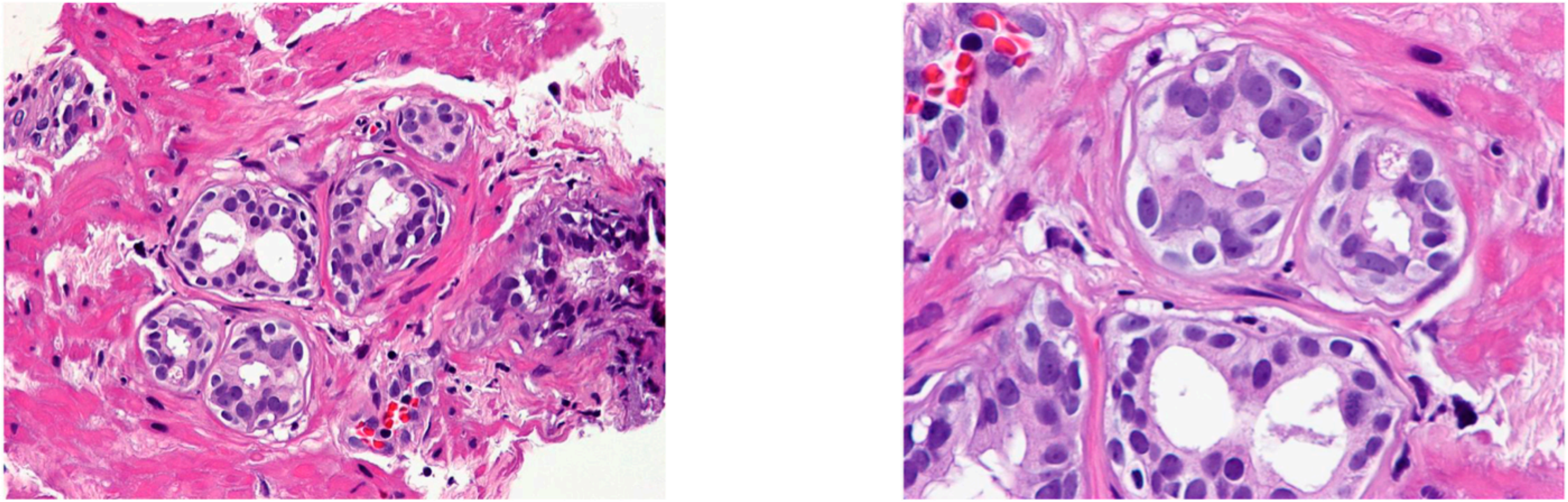






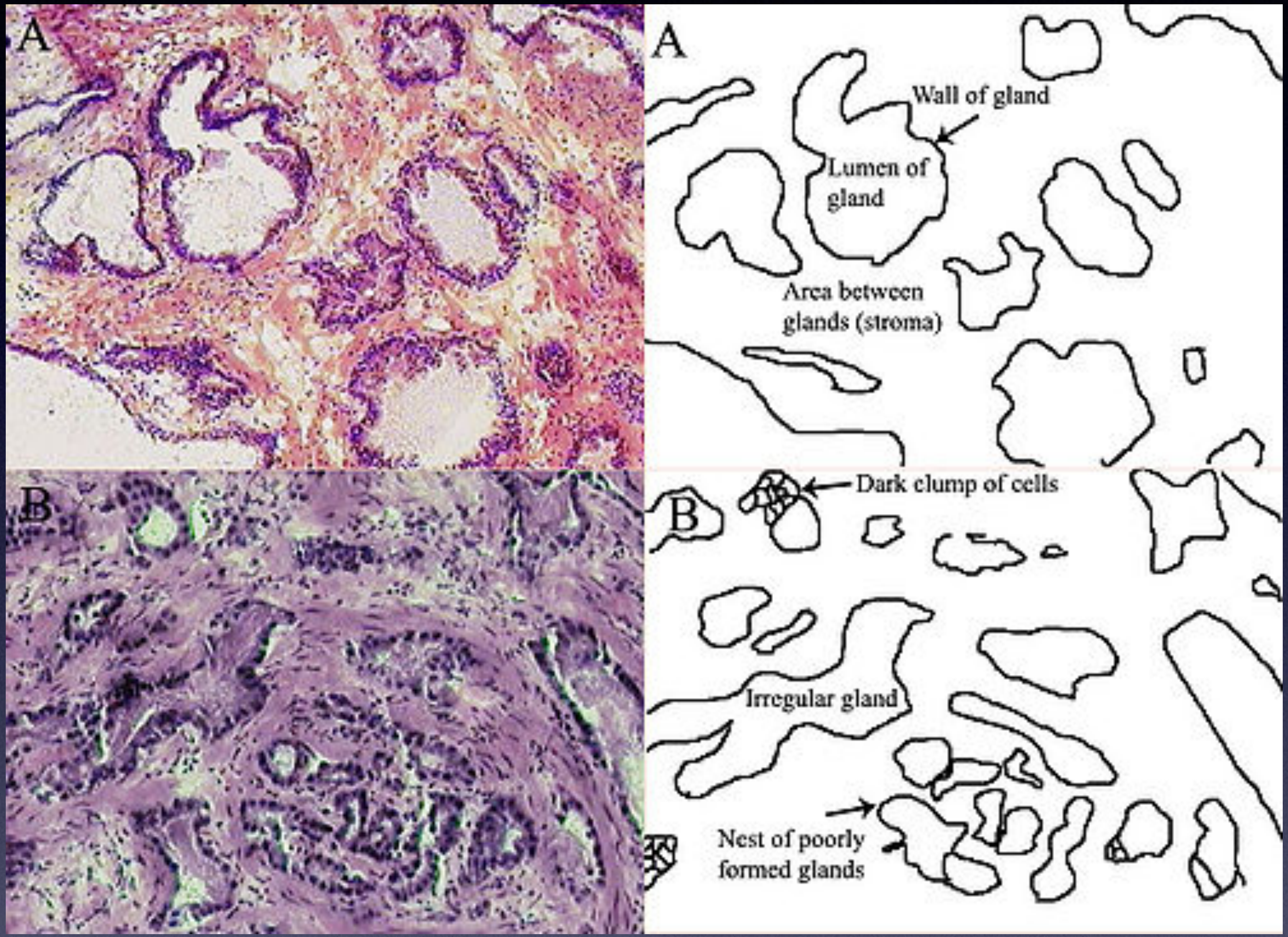






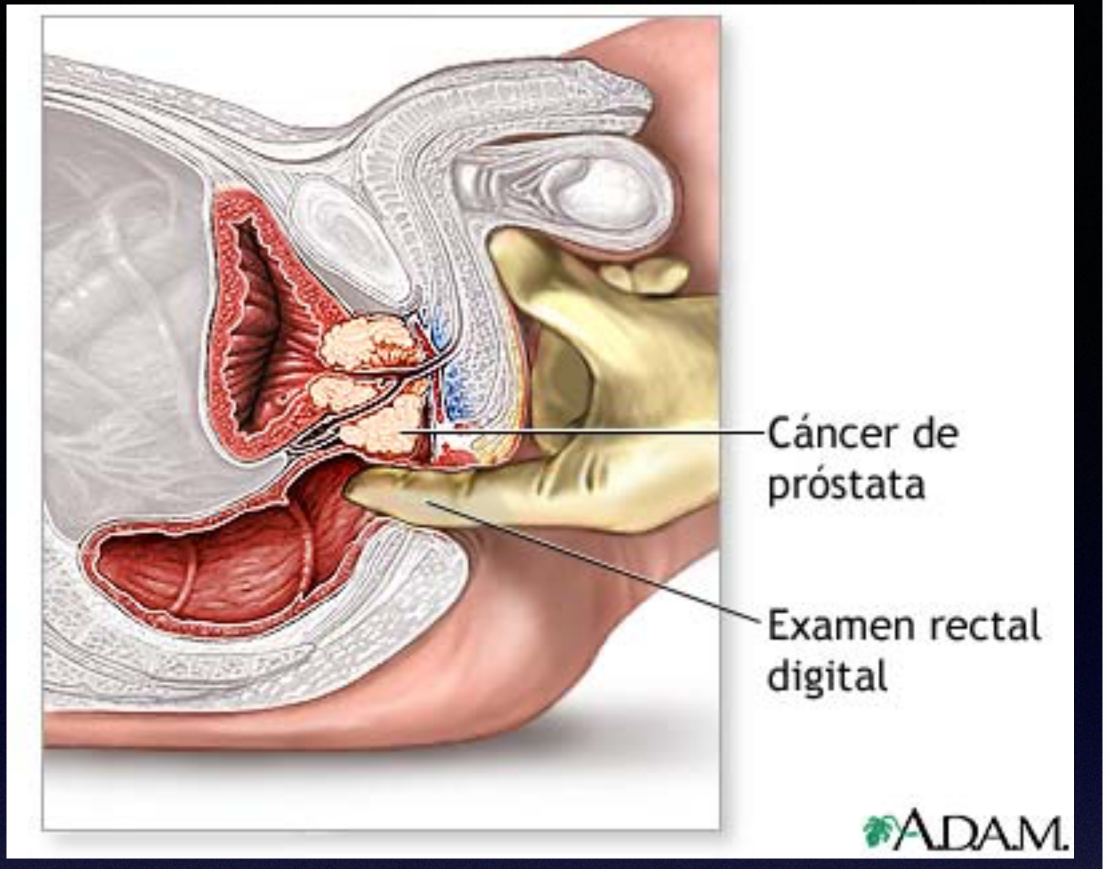
Hiperplasia nodular

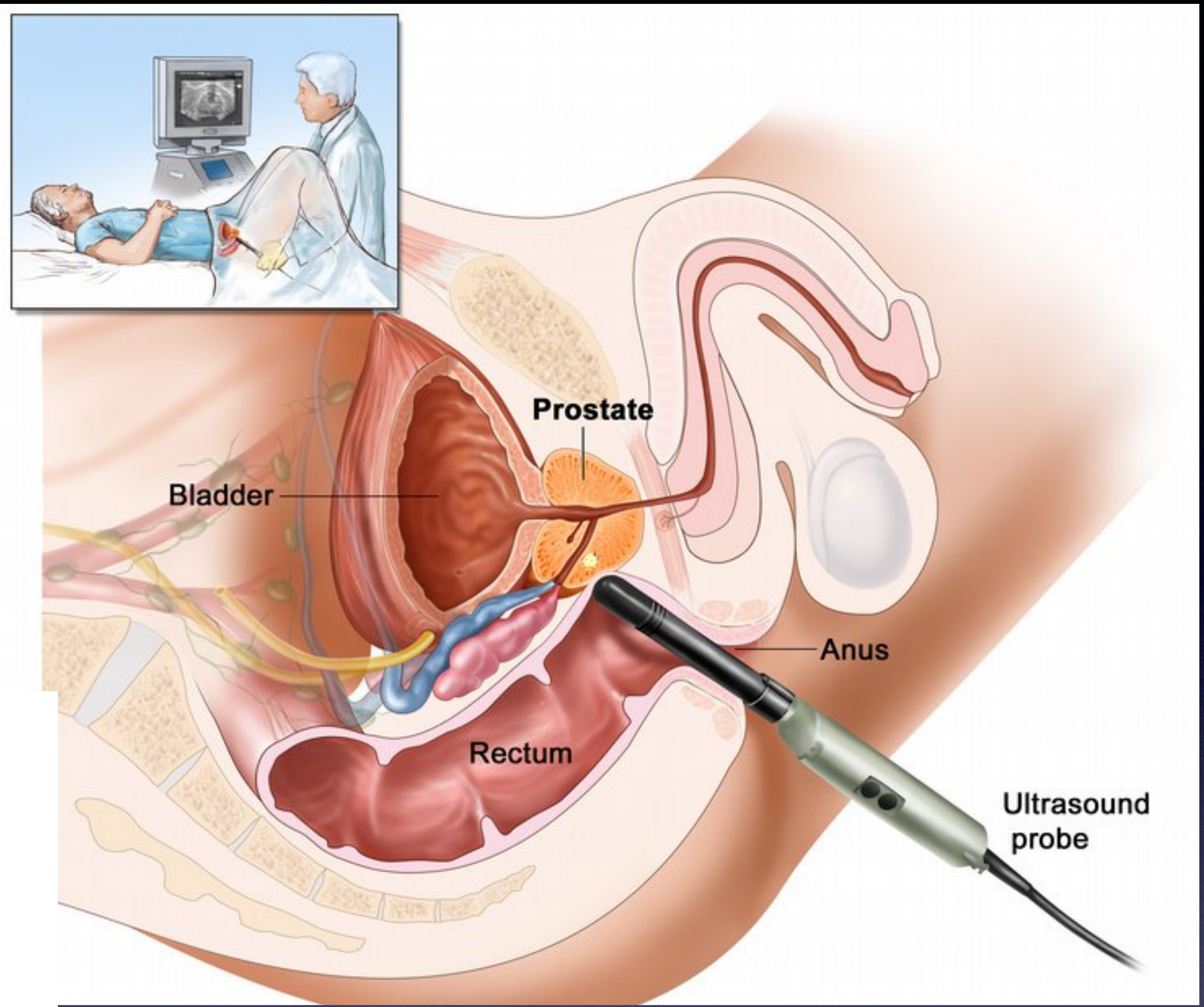
- Variantes morfológicas:
- Adenosis esclerosante
- Fibroadenoma-like
- Nódulos fibromixoides

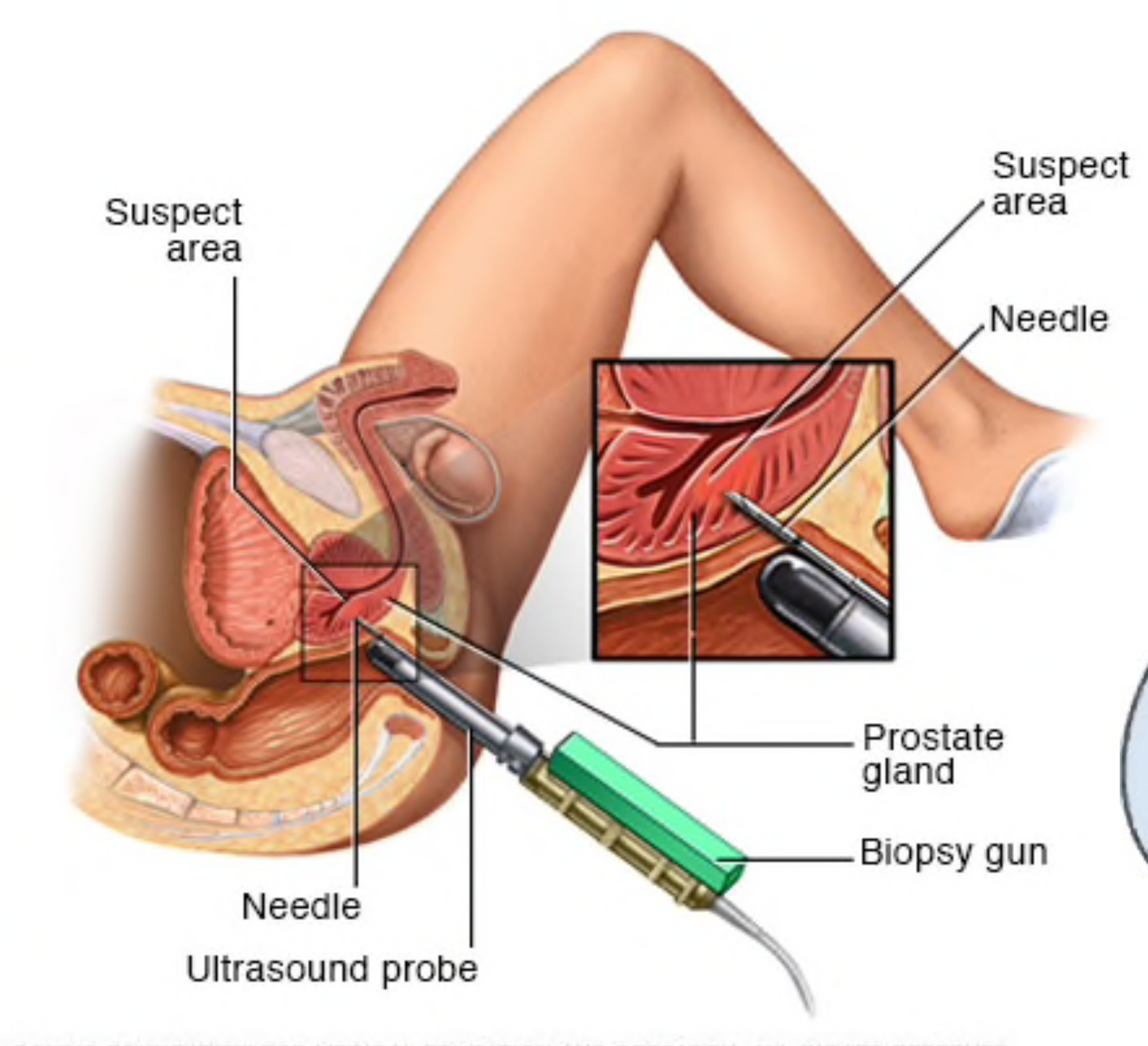

A
A
Wall of gland
Lumen of gland
Area between glands (stroma)
B
B
Dark clump of cells
Irregular gland
Nest of poorly formed glands

Adenocarcinoma acinar

- 29% todos los ca
- El ca más frecuente en hombres
- > 50a, comportamiento biológico variable, incidencia aumenta con la edad
- Etiopatogenia diversa: edad, raza, herencia, hormonas, ambiente, mutaciones epigeneticas (PTEN, RB, P16/INK4a, MLH1, MSH2 y APC)
- No asociado a ETS, tabaco, dieta o hiperplasia
- PIN - precursora


Cáncer de próstata
Examen rectal digital
A.D.A.M.


Prostate
Bladder
Anus
Rectum
Ultrasound probe


Suspect area
Suspect area
Needle
Prostate gland
Biopsy gun
Needle
Ultrasound probe

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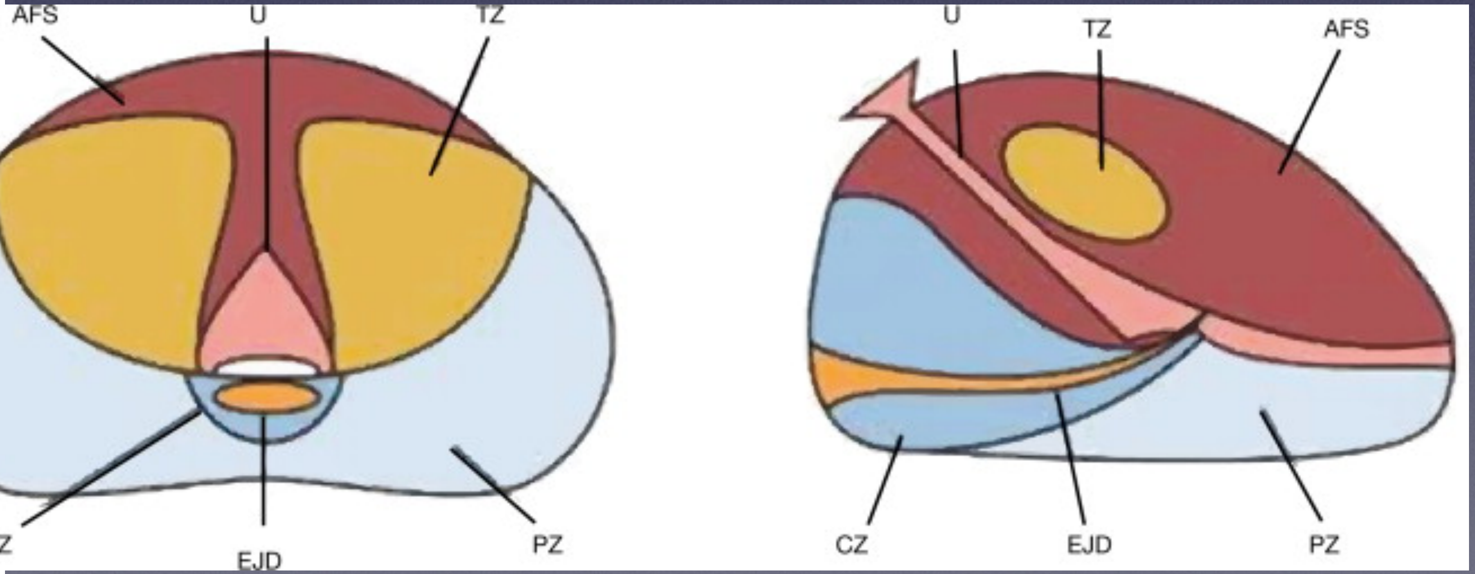
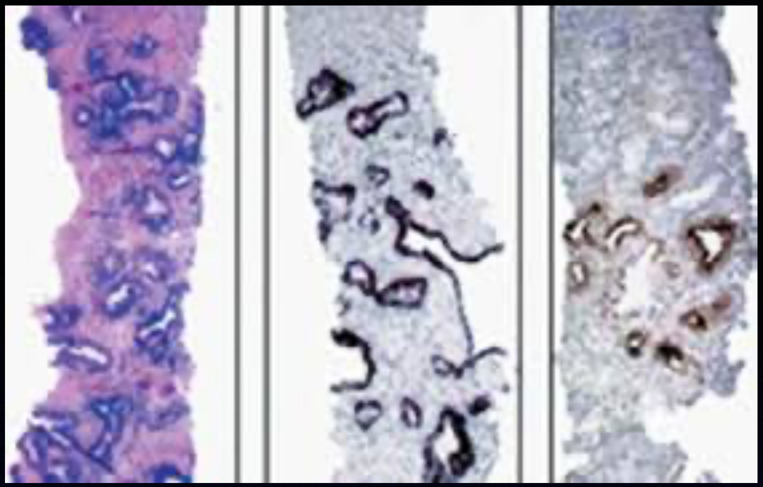
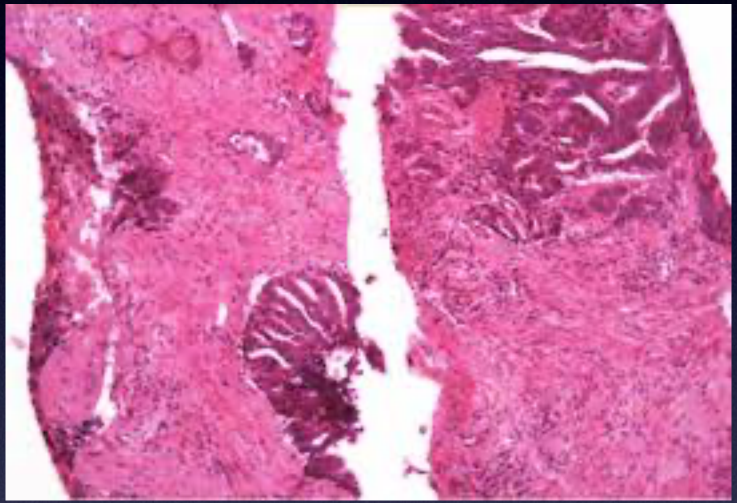
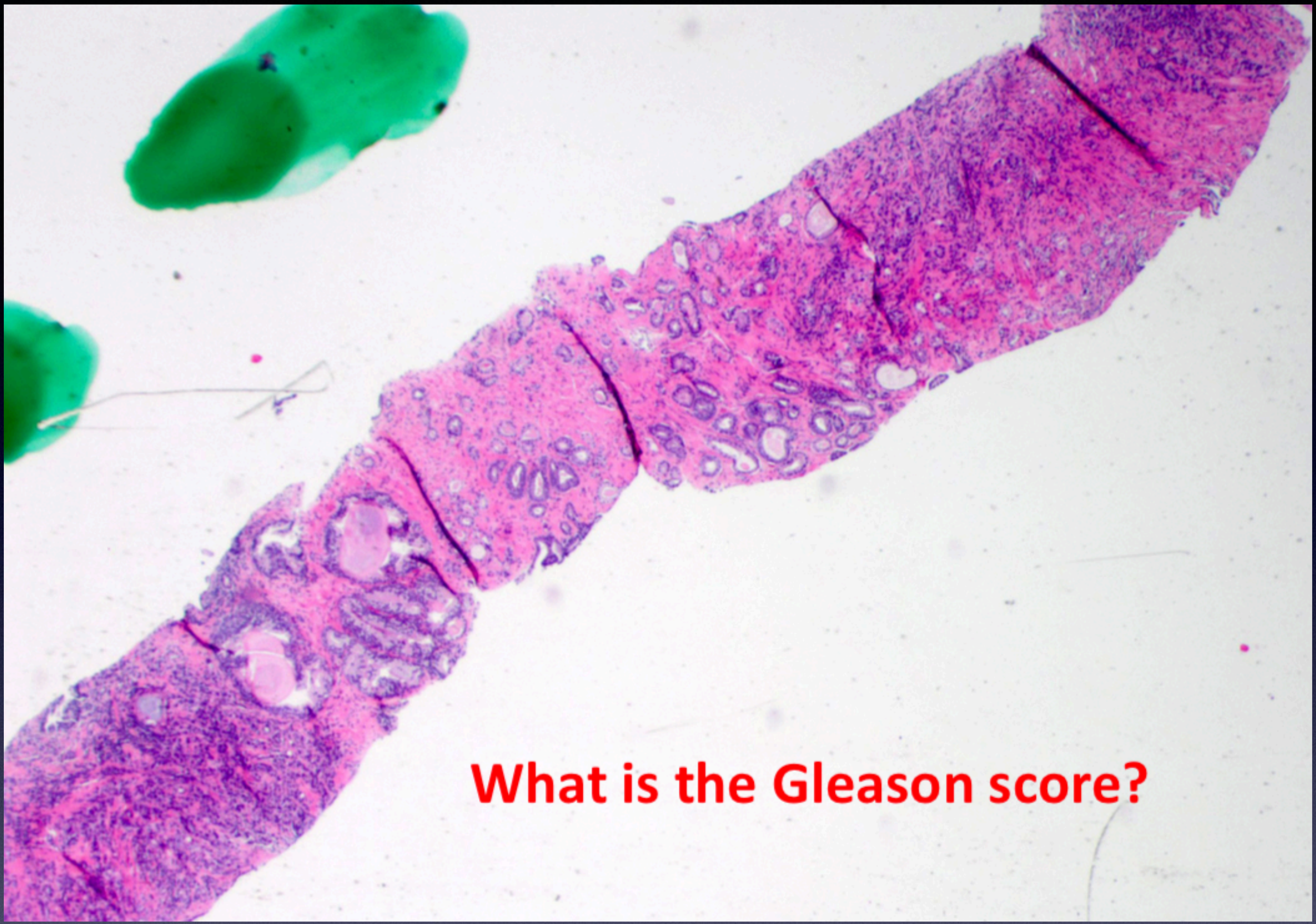
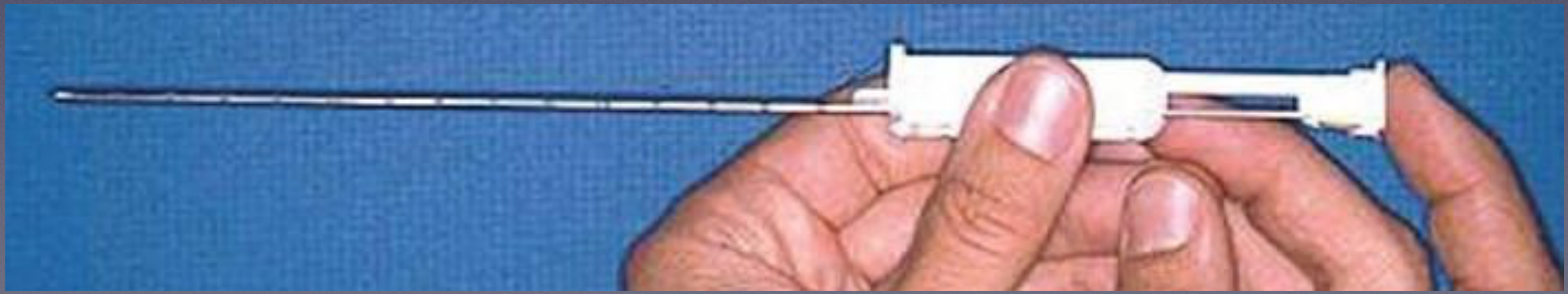

AFS
U
TZ
CZ
EJD
PZ
U
TZ
AFS
CZ
EJD
PZ



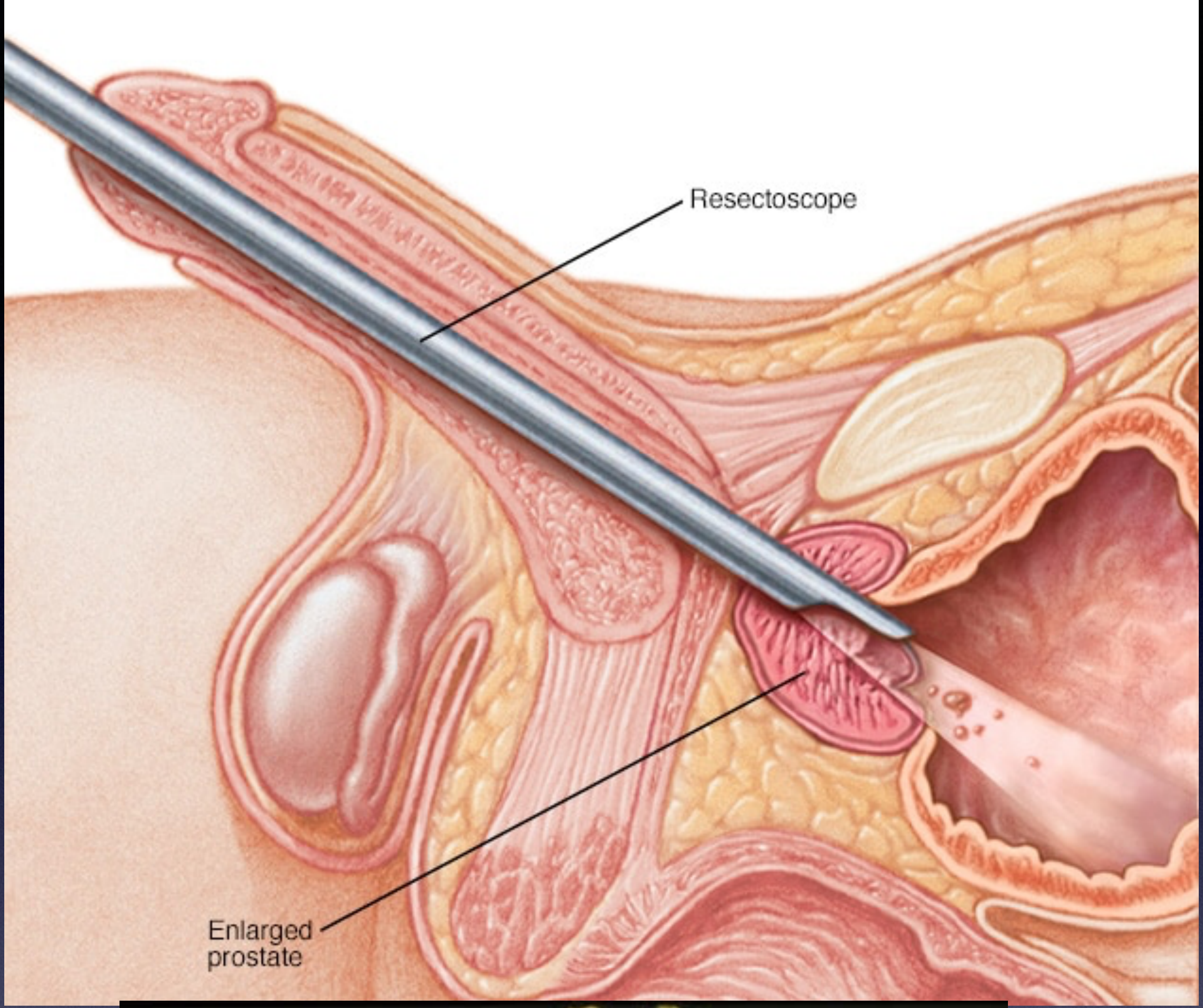


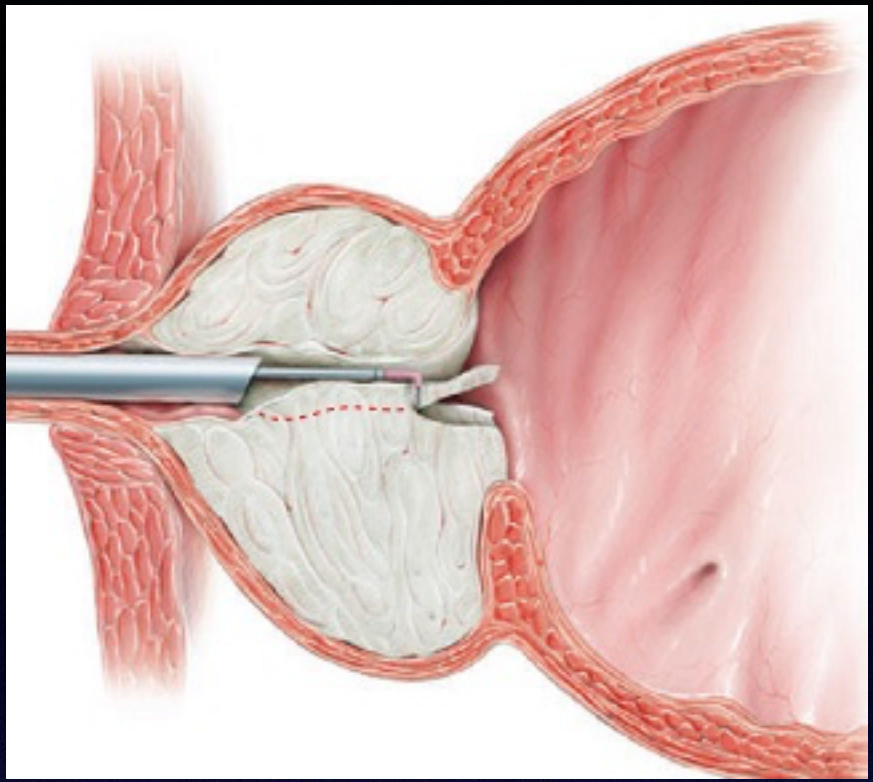


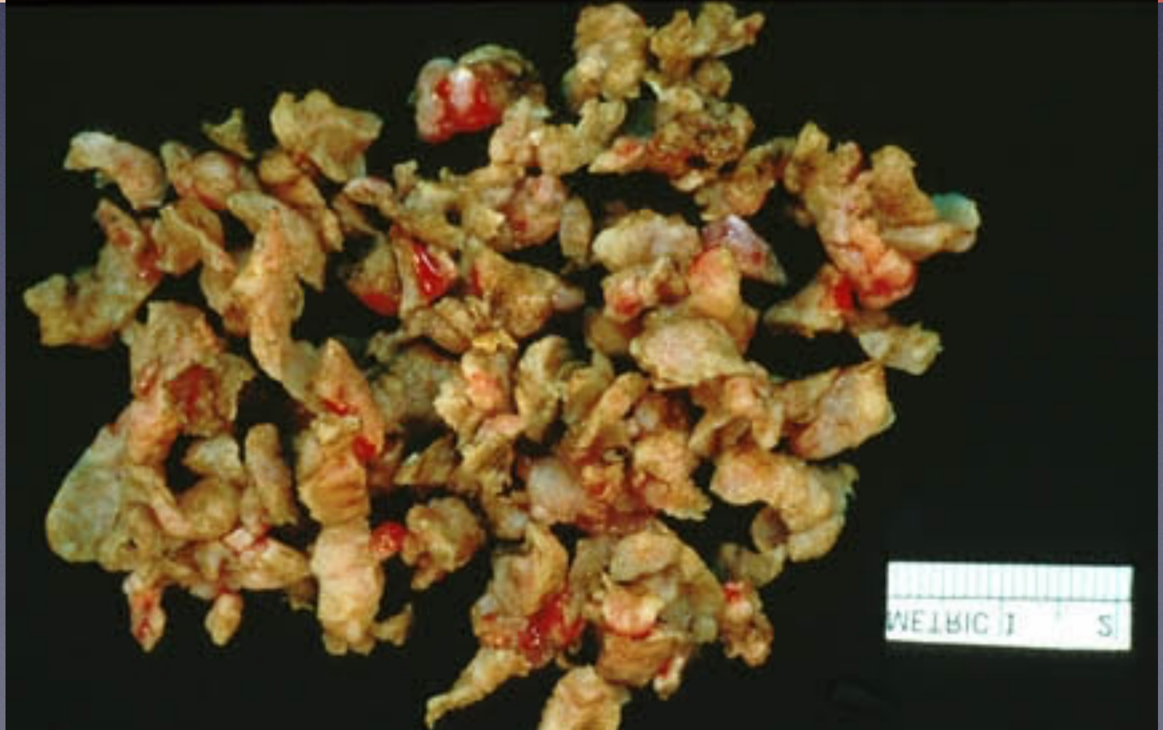
What is the Gleason score?

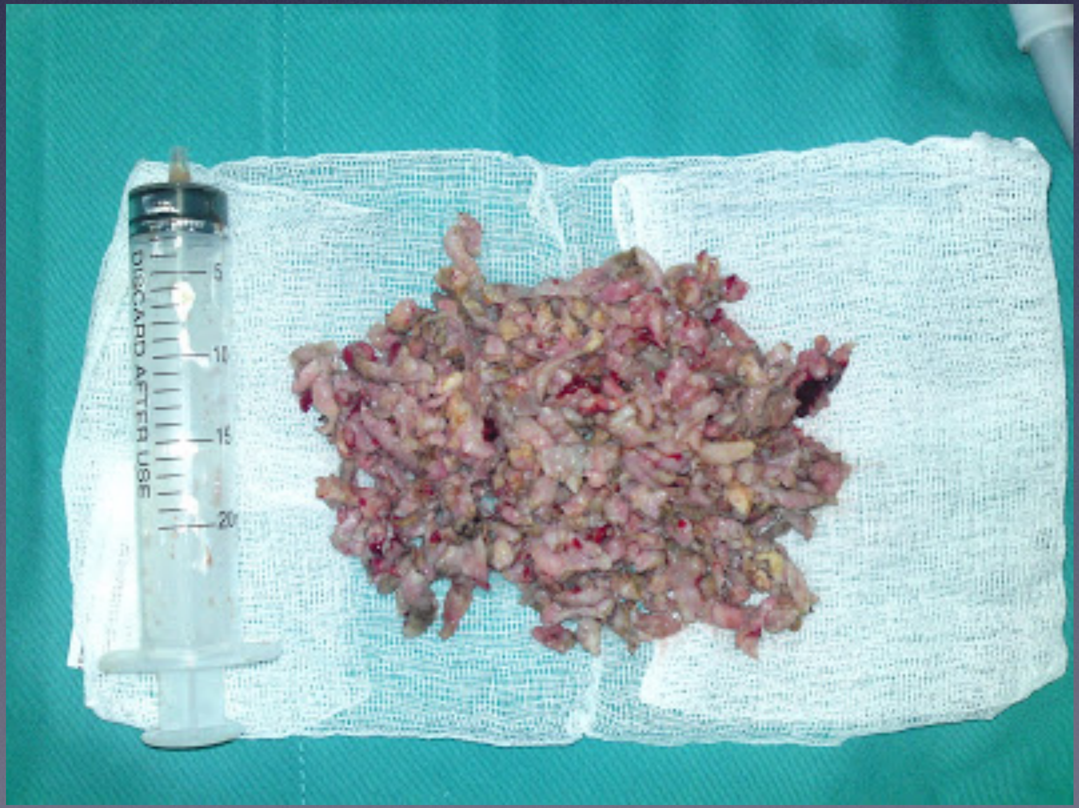


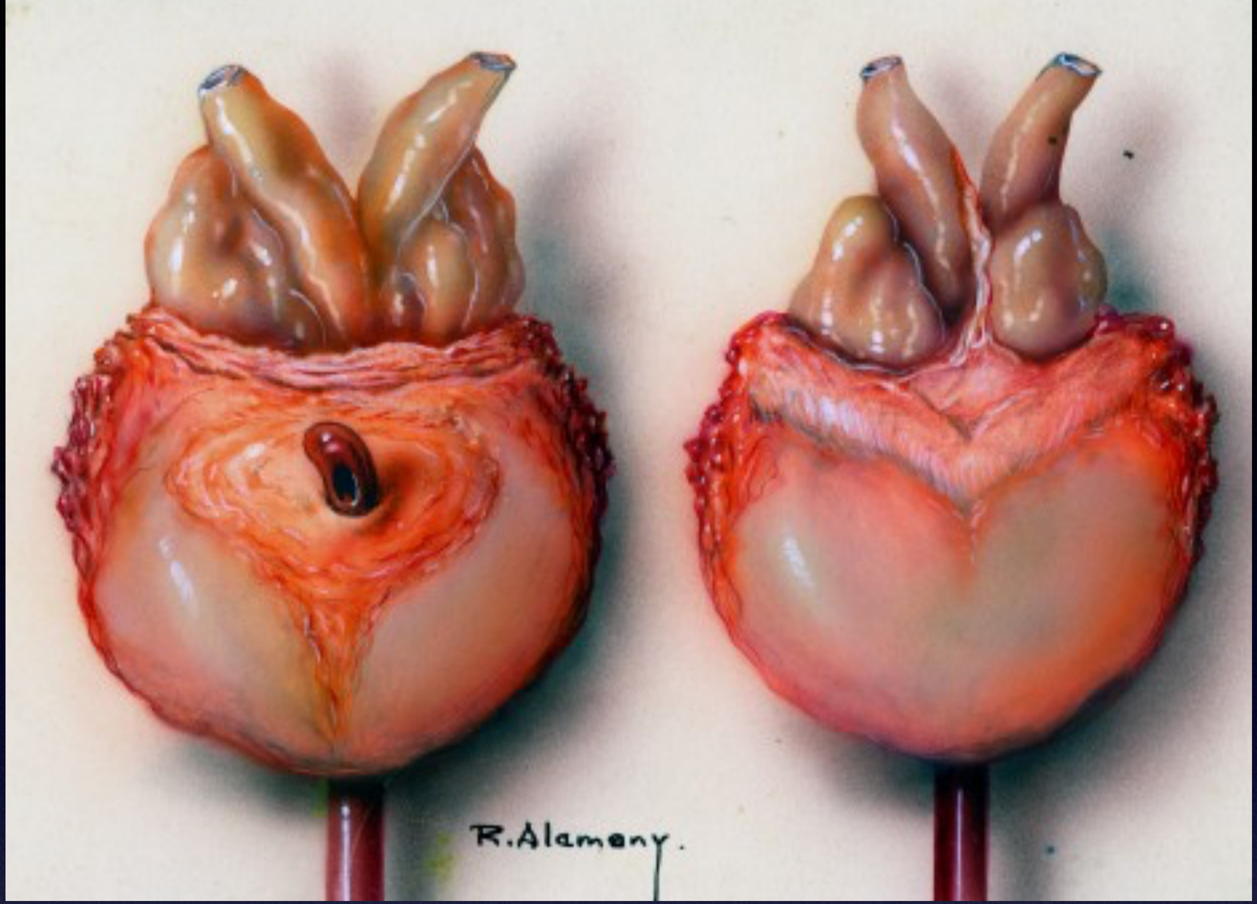
INCLUSION SOBRE
ESPONJA DE ORGANO
SOLIDO

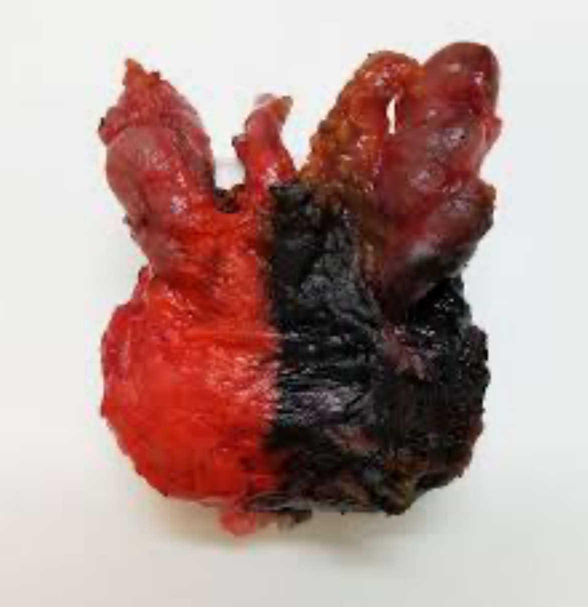

Resectoscope
Enlarged prostate

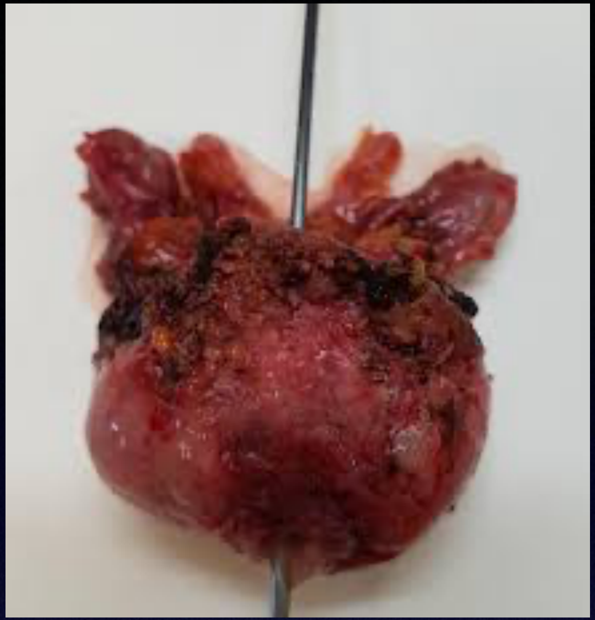


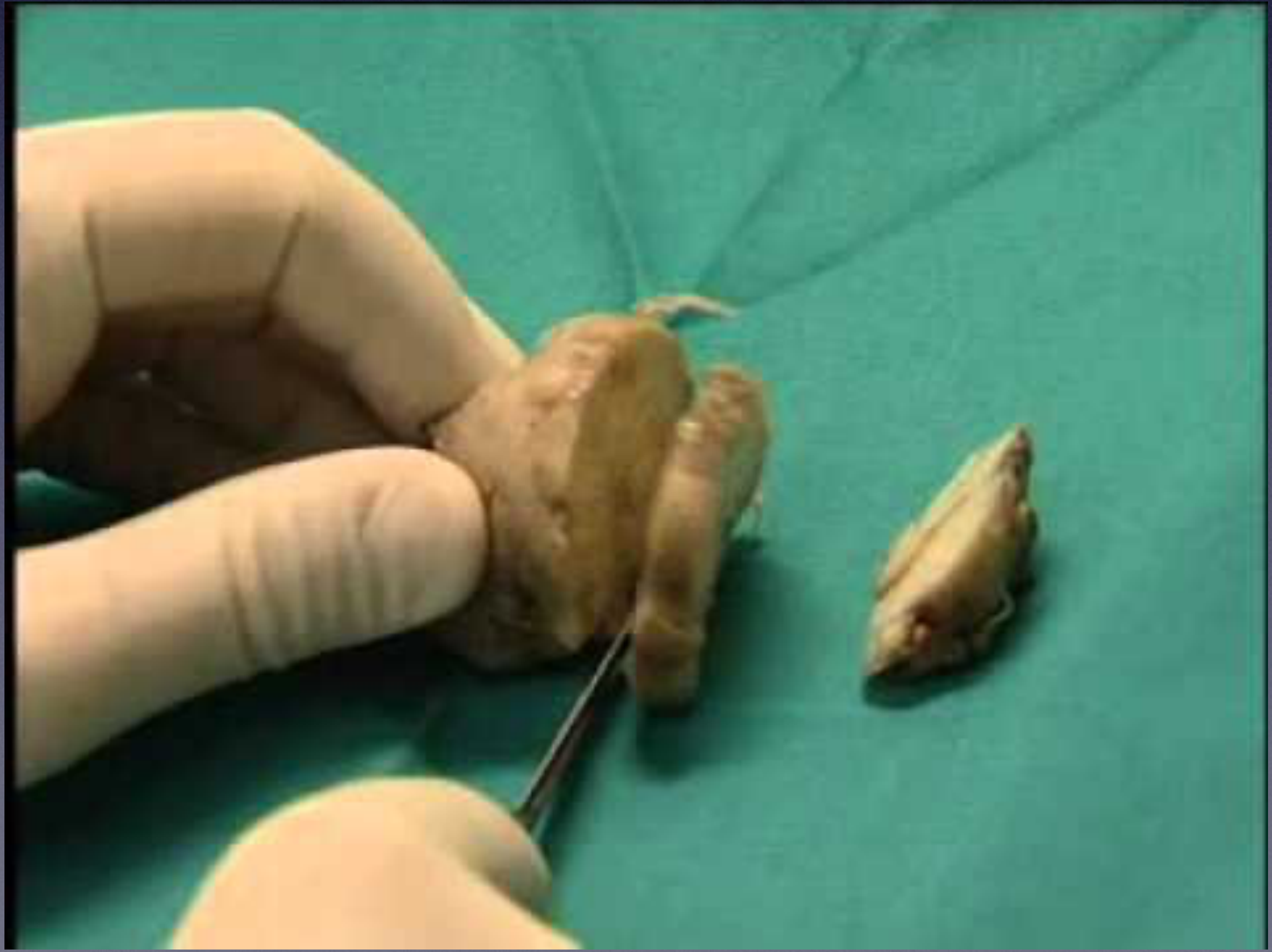

METRIC 1 2

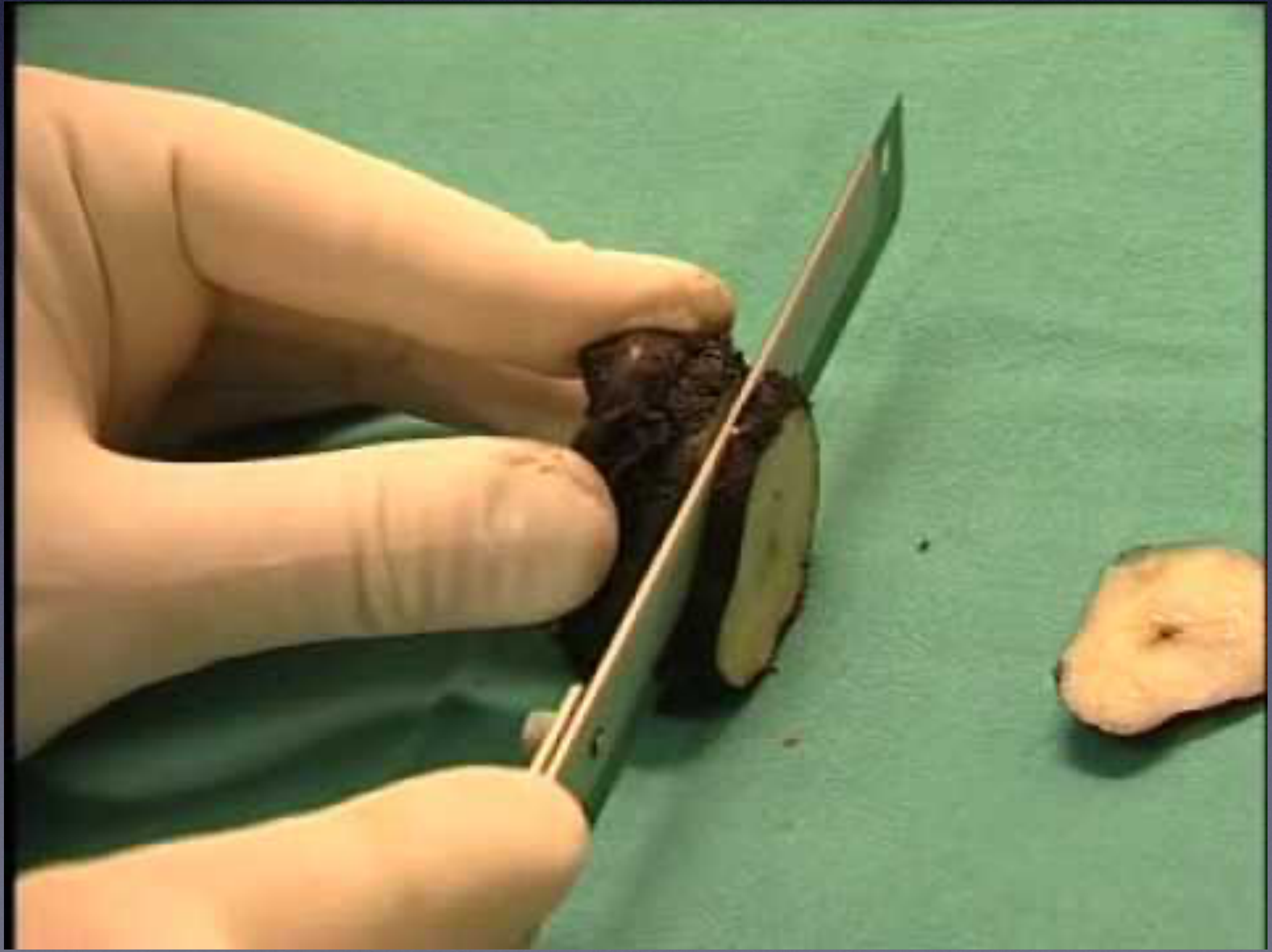

DISCARD AFTER USE
5
10
15
20


R.Alameny.



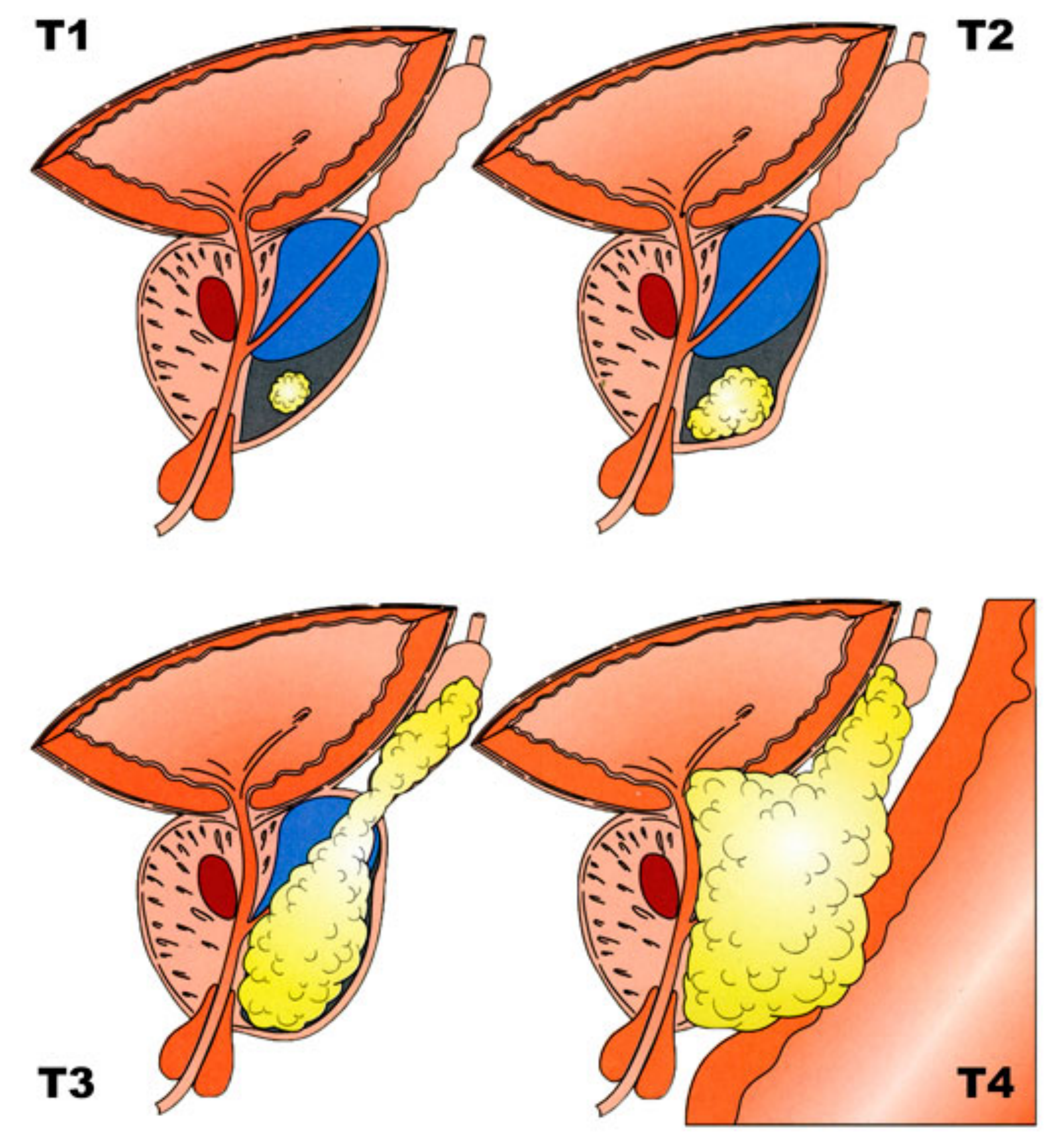


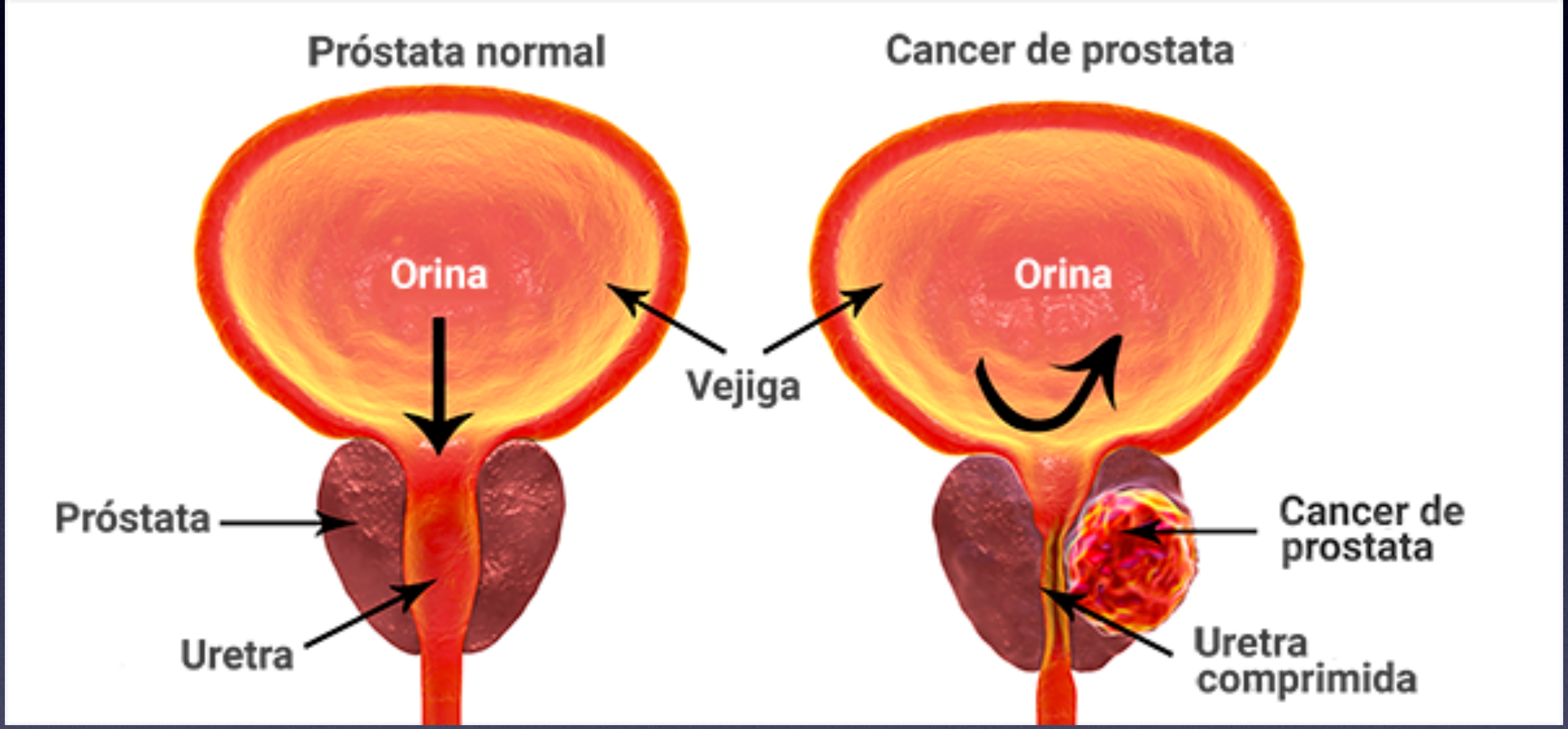


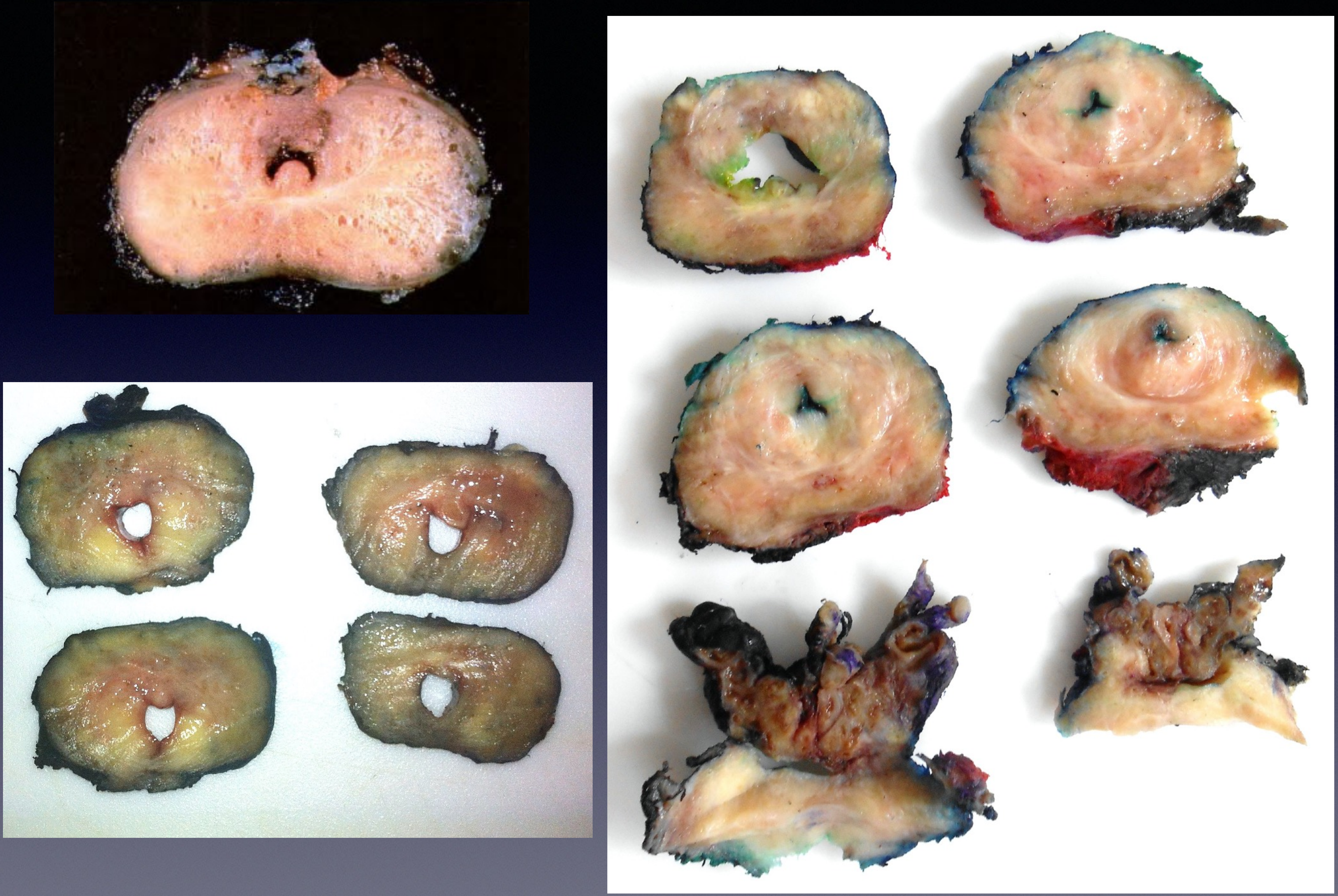


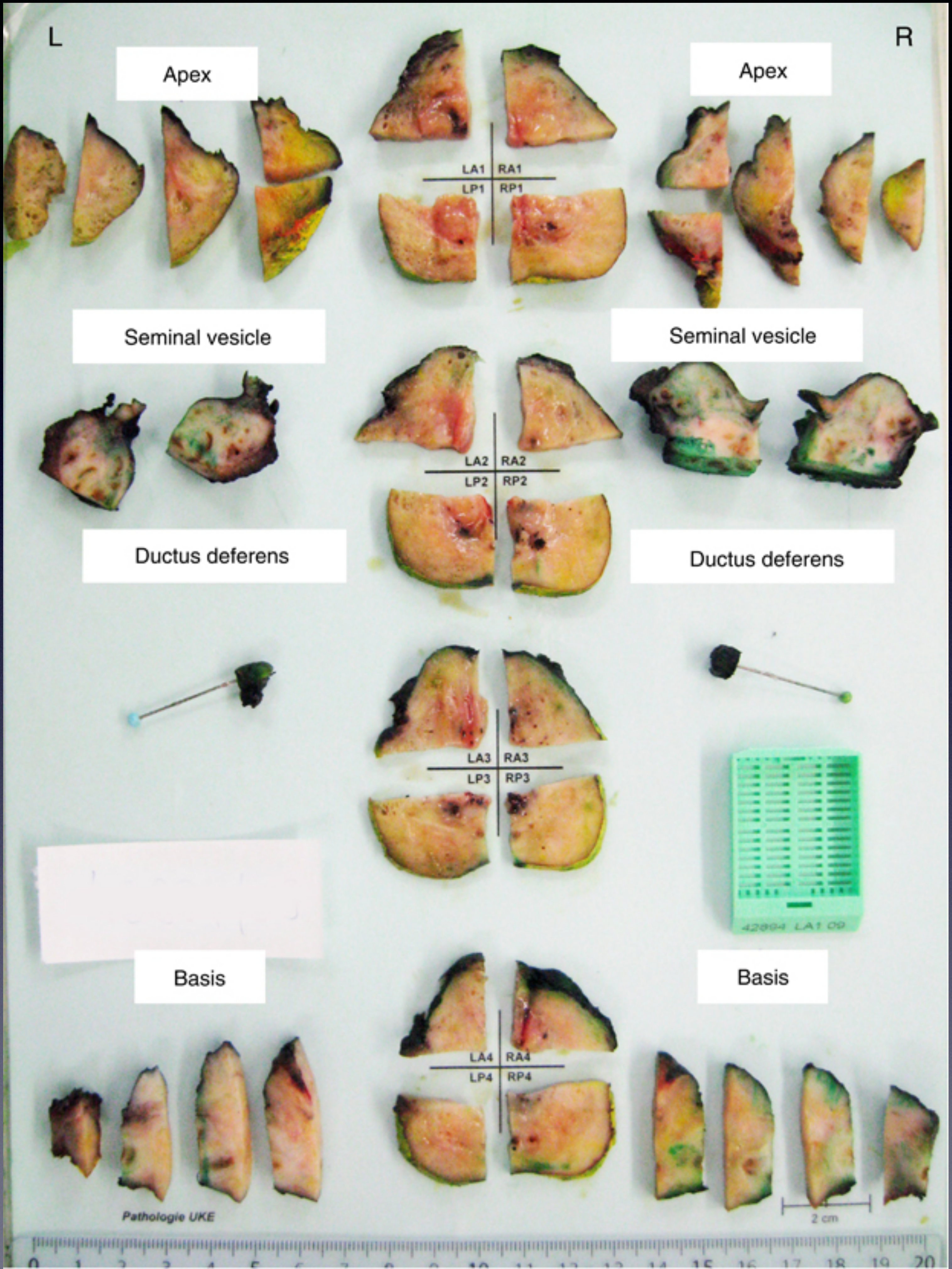
CA DE PROSTATA

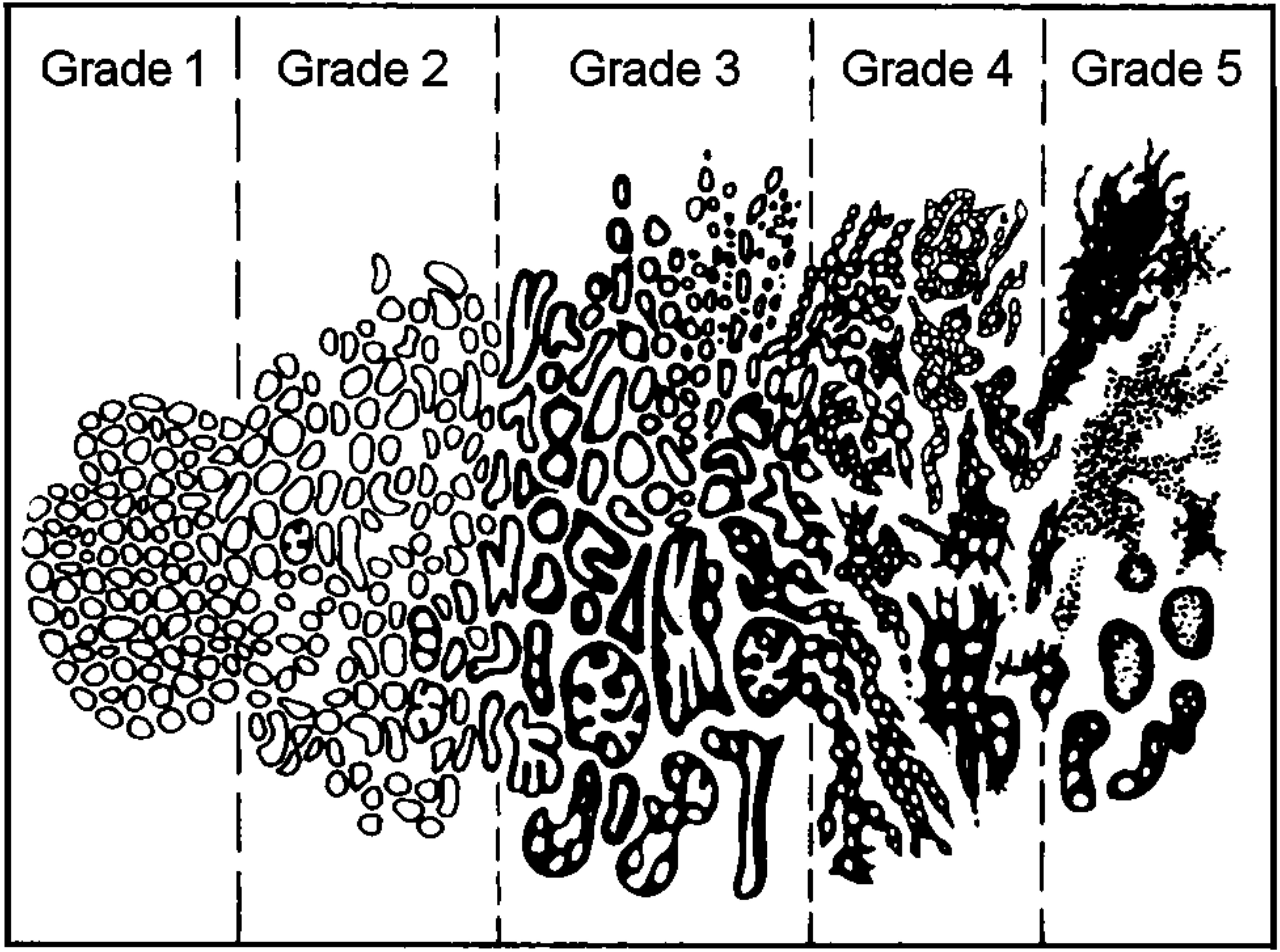
- Periferia, mal delimitado
- Posterior
- Extensión (VS, base vejiga, g obturadores y para aórticos.
- Hematógena y neural, hueso paravertebral y pudendos.

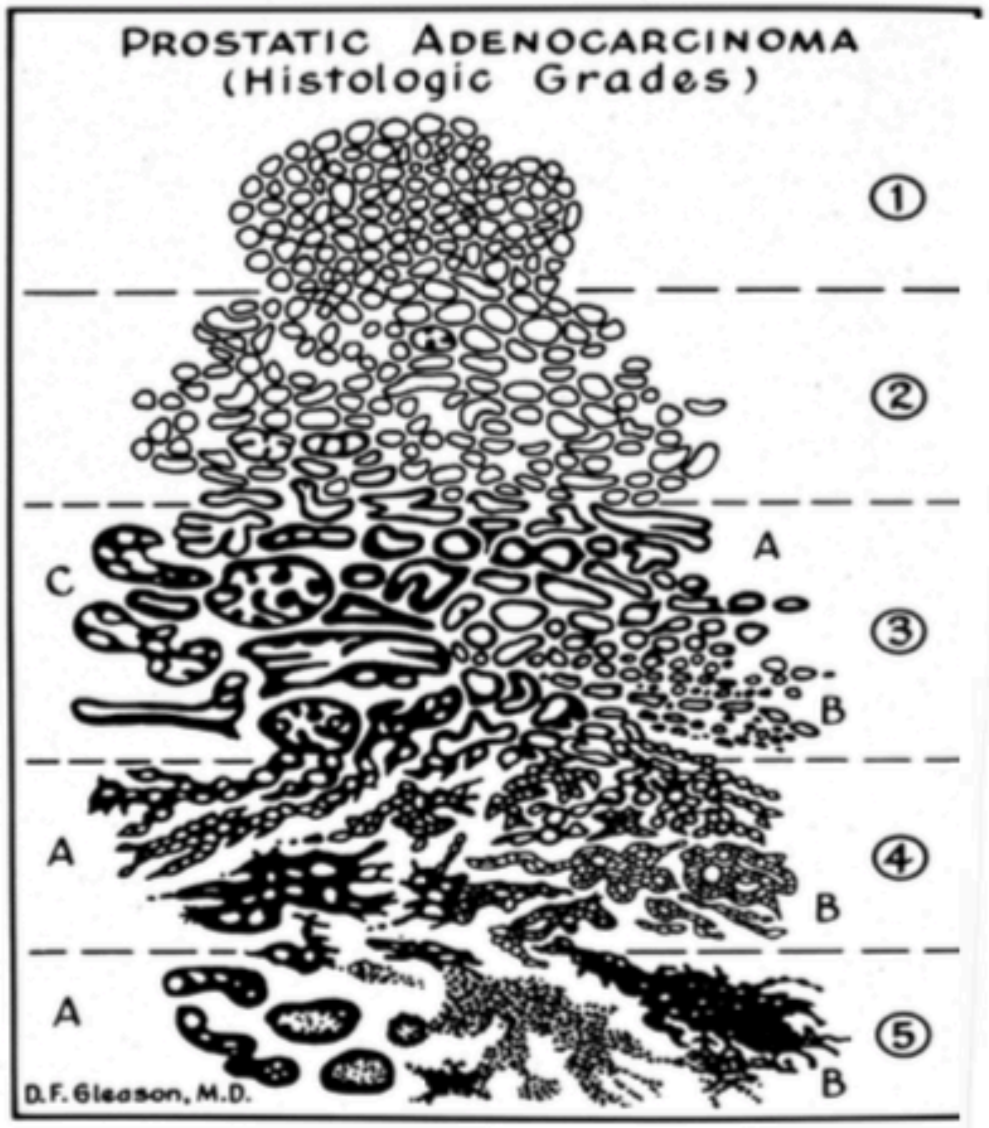

T1
T2
T3
T4


Próstata normal
Cancer de prostata
Orina
Orina
Vejiga
Próstata
Uretra
Cancer de prostata
Uretra comprimida

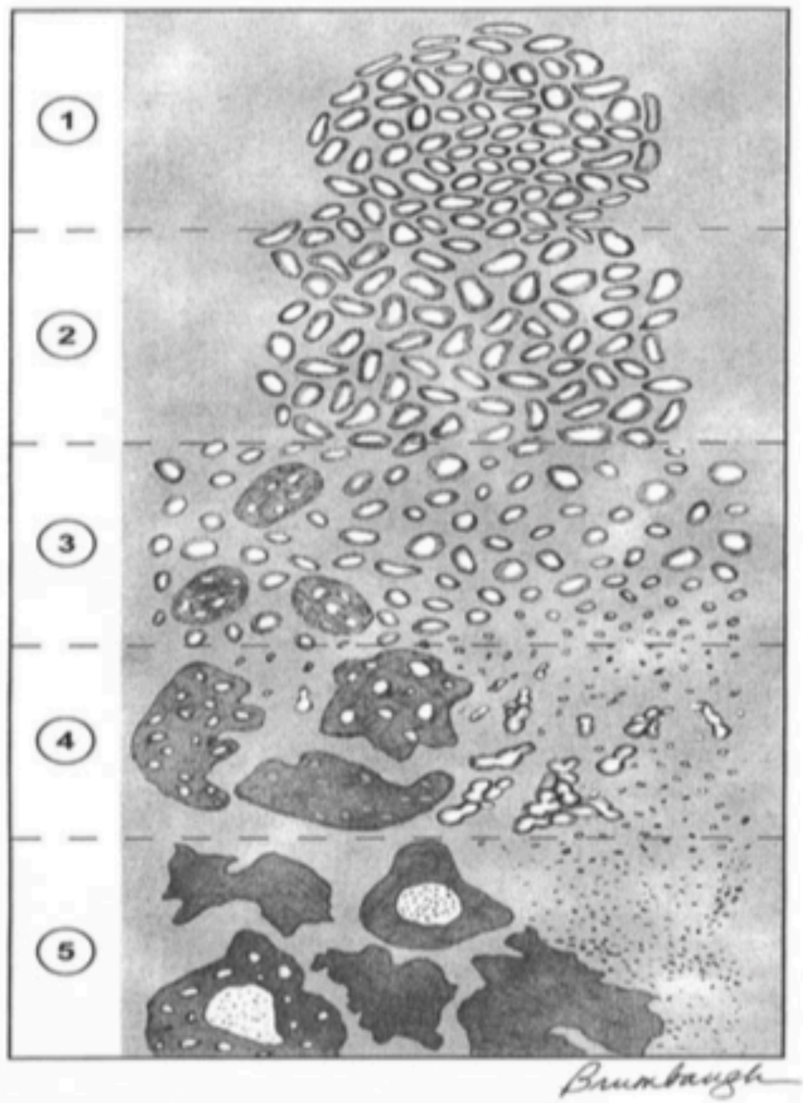



L
R
Apex
Apex
LA1
RA1
LP1
RP1
Seminal vesicle
Seminal vesicle
LA2
RA2
LP2
RP2
Ductus deferens
Ductus deferens
LA3
RA3
LP3
RP3
42894 LA1 09
Basis
Basis
LA4
RA4
LP4
RP4
Pathologie UKE
2 cm

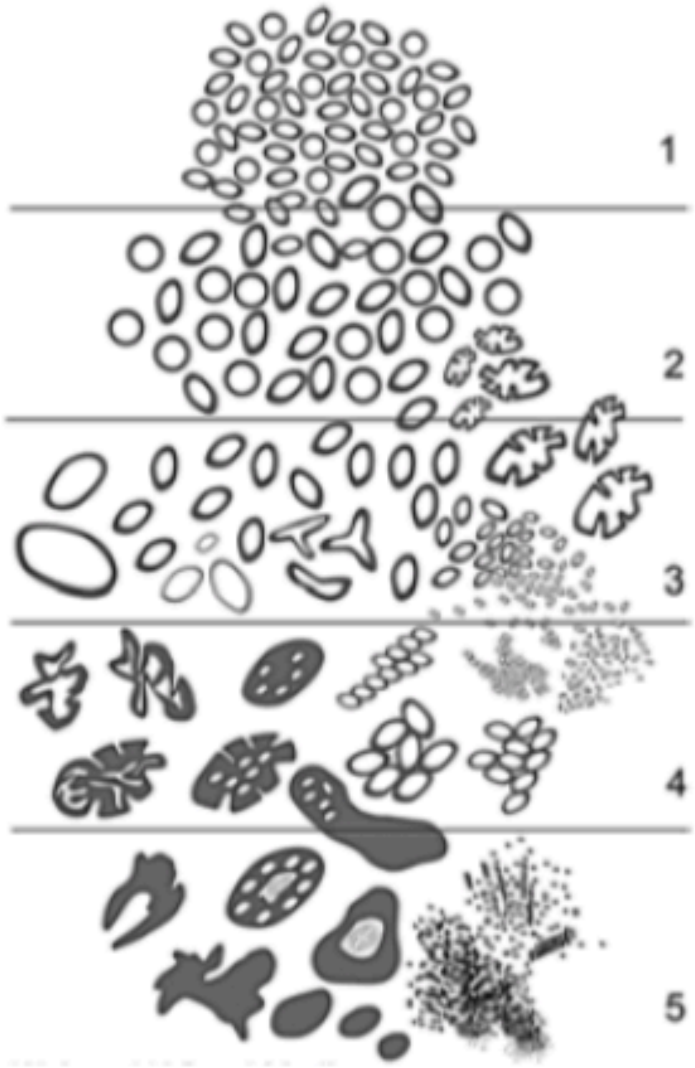

Grade 1
Grade 2
Grade 3
Grade 4
Grade 5


PROSTATIC ADENOCARCINOMA
(Histologic Grades)
①
②
A
C
③
B
A
④
B
A
⑤
B
D.F. Gleason, M.D.

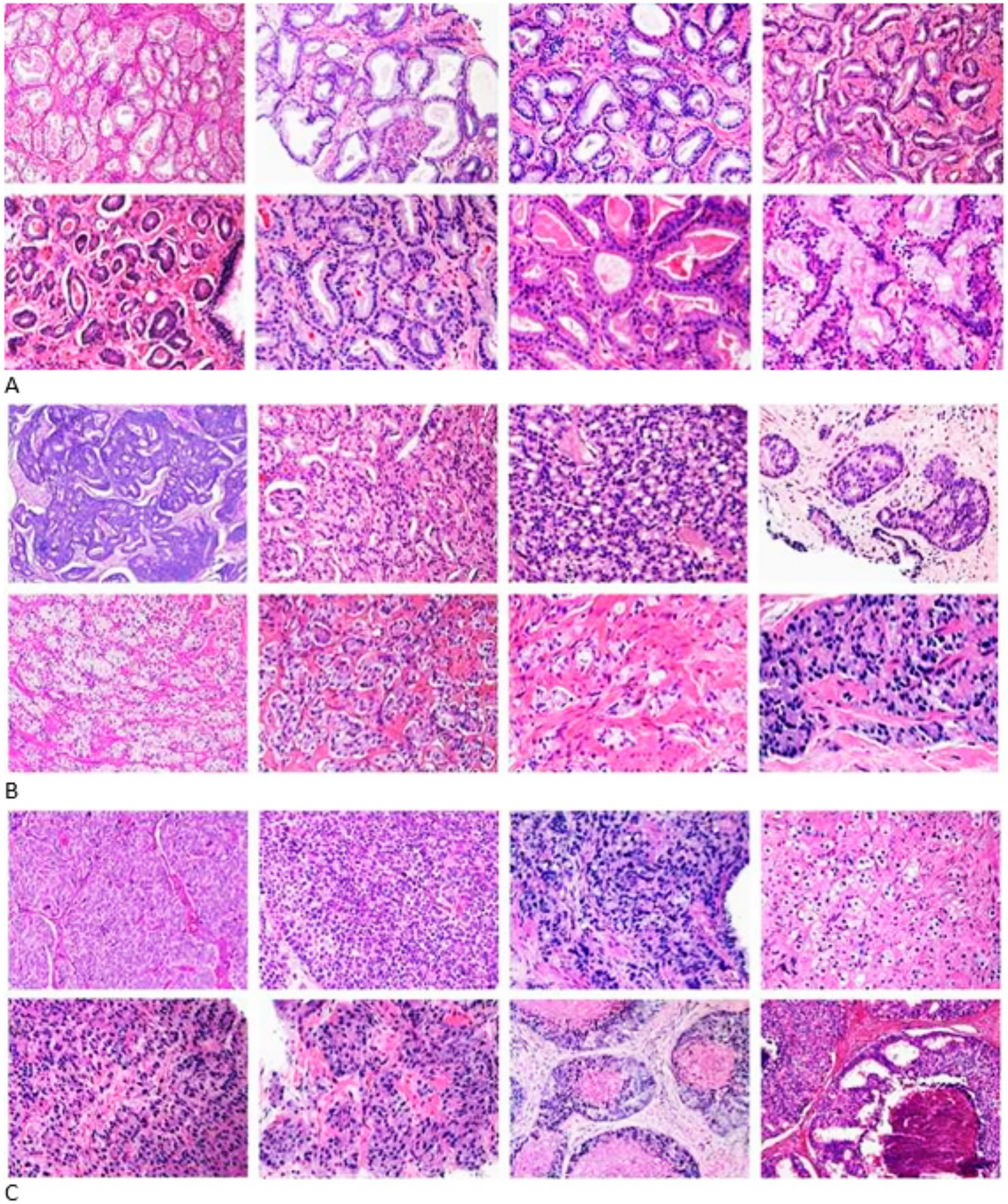
Original Gleason scheme


①
②
③
④
⑤
Brumbaugh

ISUP modified 2005



ISUP 2014



Adaptado de: Epstein JI. Prostate cancer grading: a contemporary photomontage. Am J Surg Pathol. 2016;40:137-8. The Johns Hopkins University & Jonathan I Epstein. (Se obtuvo el permiso de los autores para hacer esta presentación.)

Fig. Fotomontaje de los patrones de Gleason, base para la asignación de los grados de grupos pronósticos. A) Patrones de Gleason 1-3: Glándulas individuales y bien diferenciadas; B) Patrón de Gleason 4: Glándulas pobremente formada, fusionadas, cribiformes; C) Patrón de Gleason 5: nidos sólidos, sábanas, cordones, células individuales, necrosis.

2016 WHO Classification

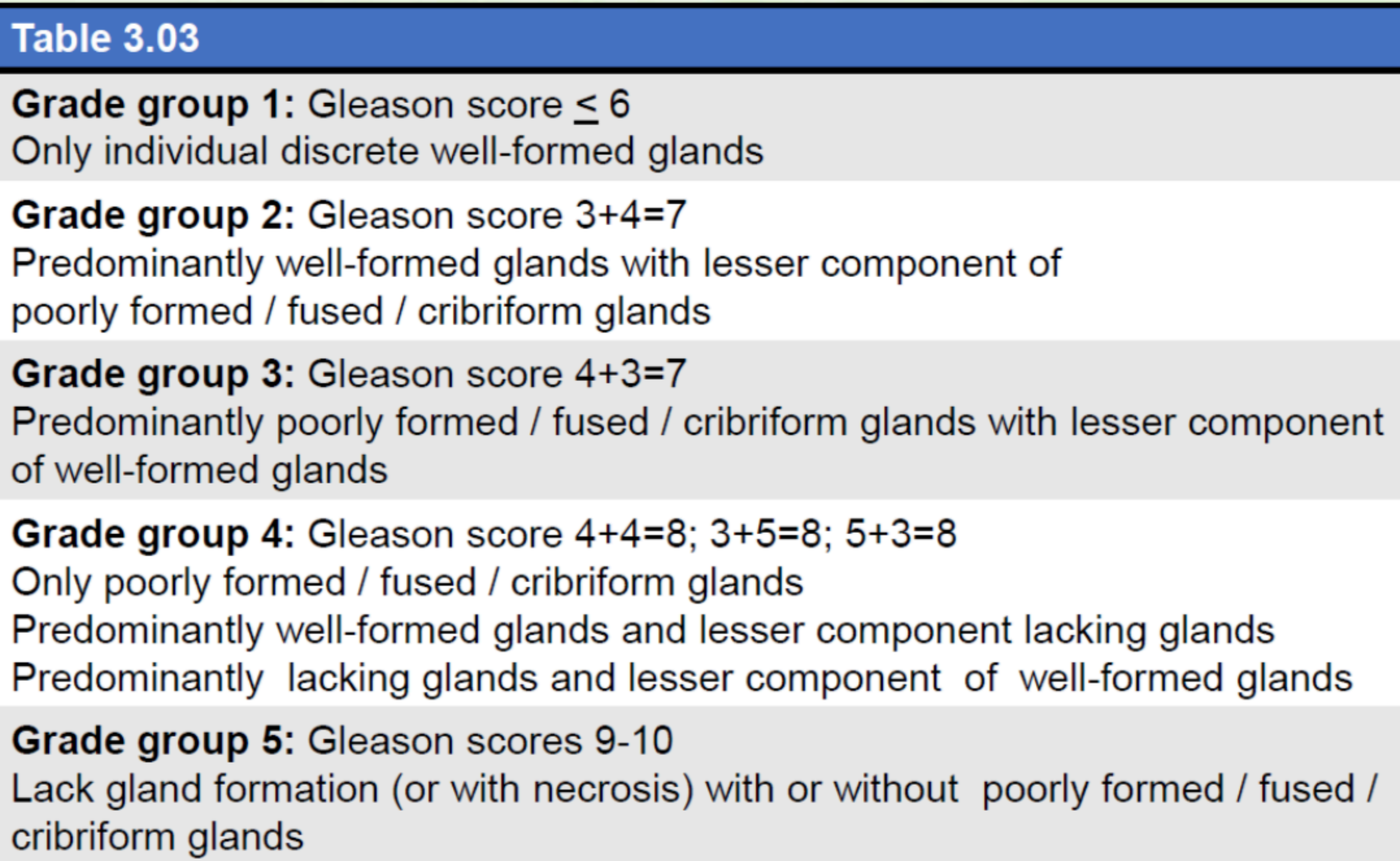
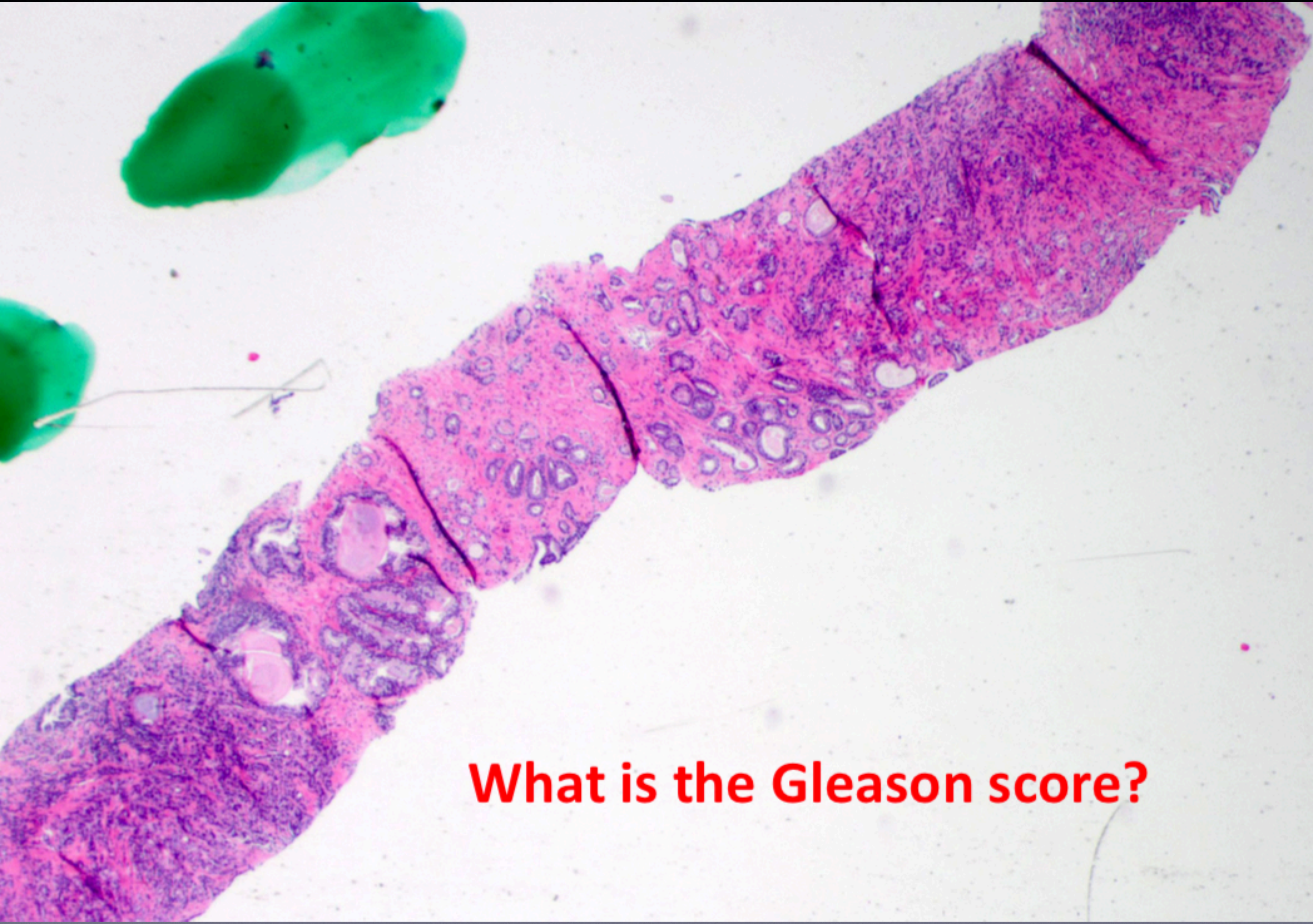
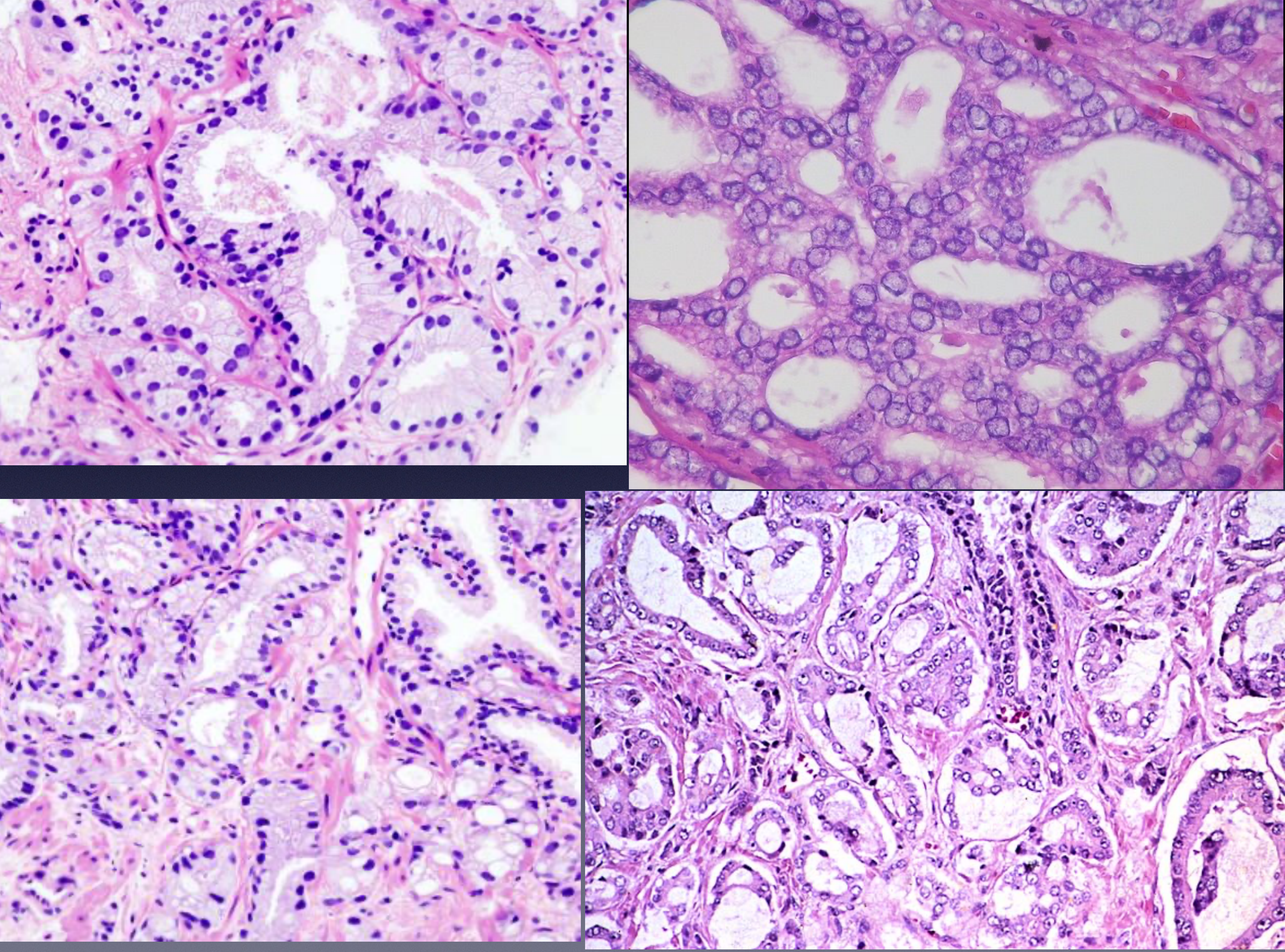
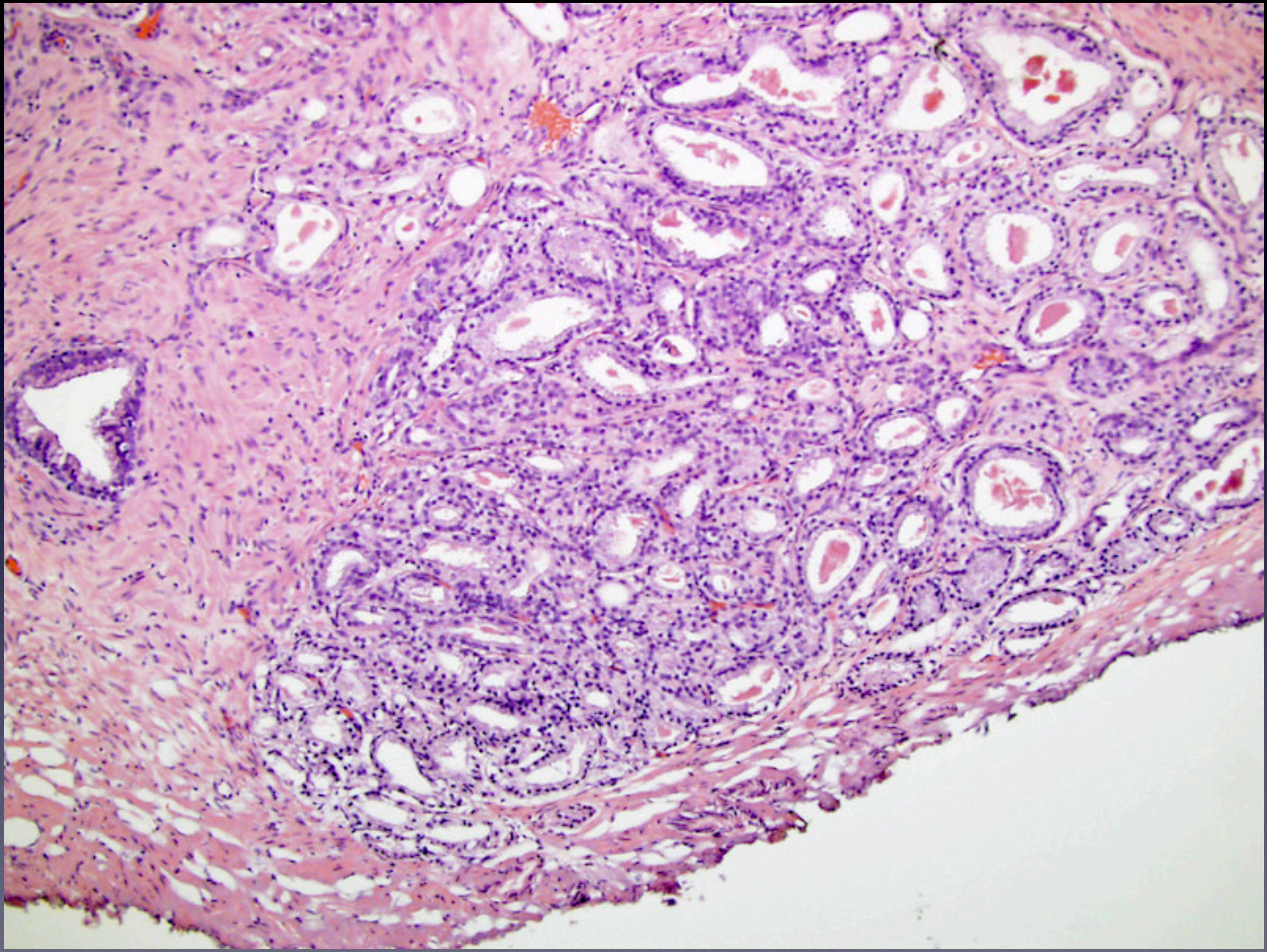


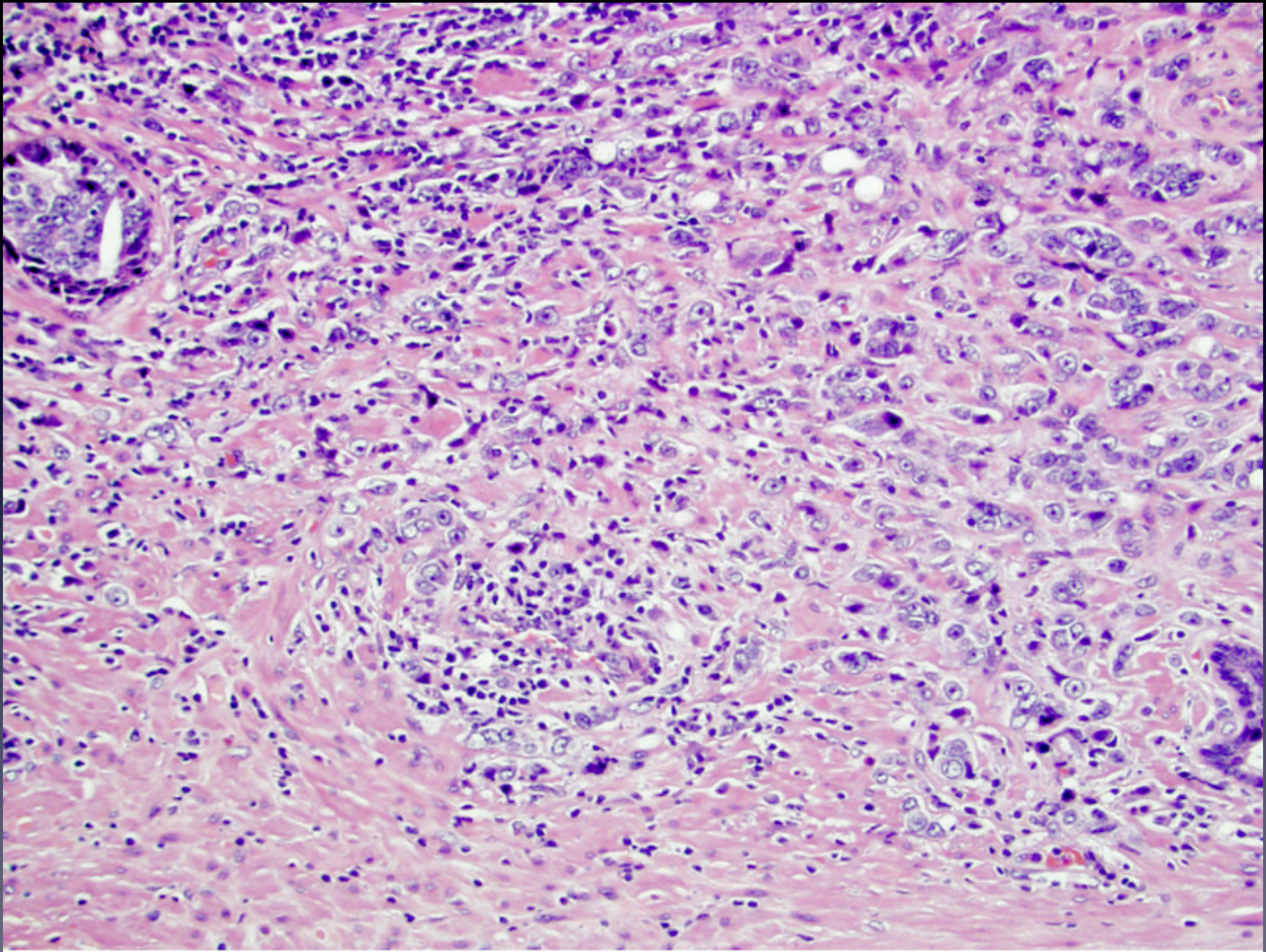
Table 3.03
Grade group 1: Gleason score ≤ 6 Only individual discrete well-formed glands
Grade group 2: Gleason score 3+4=7 Predominantly well-formed glands with lesser component of poorly formed / fused / cribriform glands
Grade group 3: Gleason score 4+3=7 Predominantly poorly formed / fused / cribriform glands with lesser component of well-formed glands
Grade group 4: Gleason score 4+4=8; 3+5=8; 5+3=8 Only poorly formed / fused / cribriform glands Predominantly well-formed glands and lesser component lacking glands Predominantly lacking glands and lesser component of well-formed glands
Grade group 5: Gleason scores 9-10 Lack gland formation (or with necrosis) with or without poorly formed / fused / cribriform glands

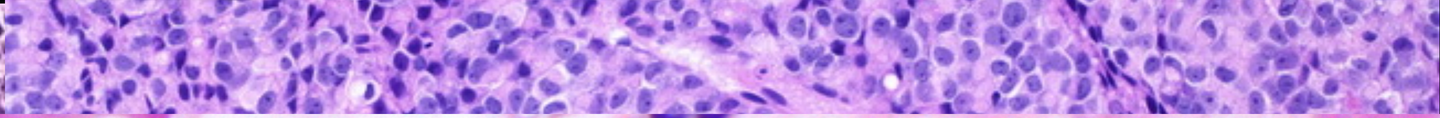


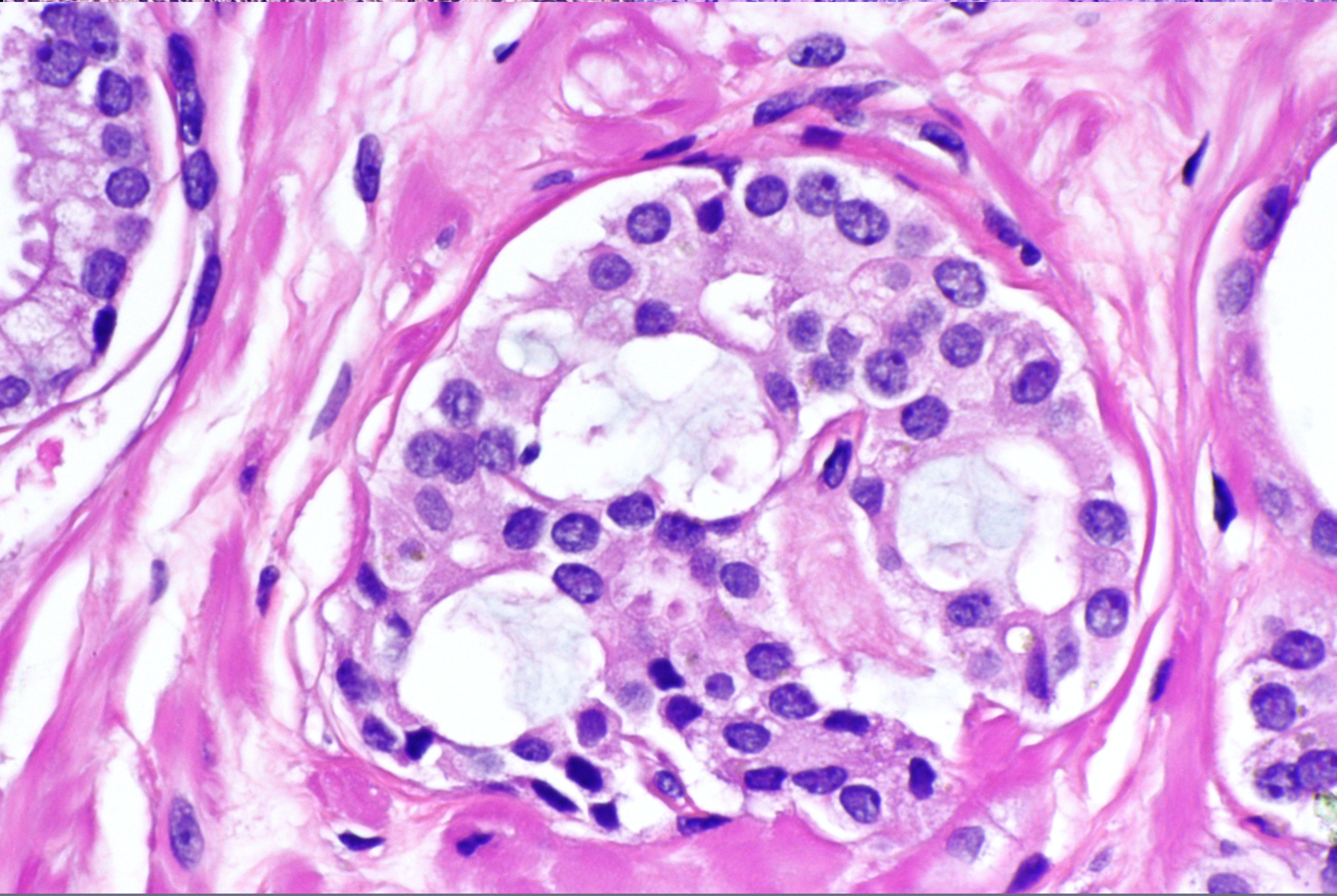
What is the Gleason score?

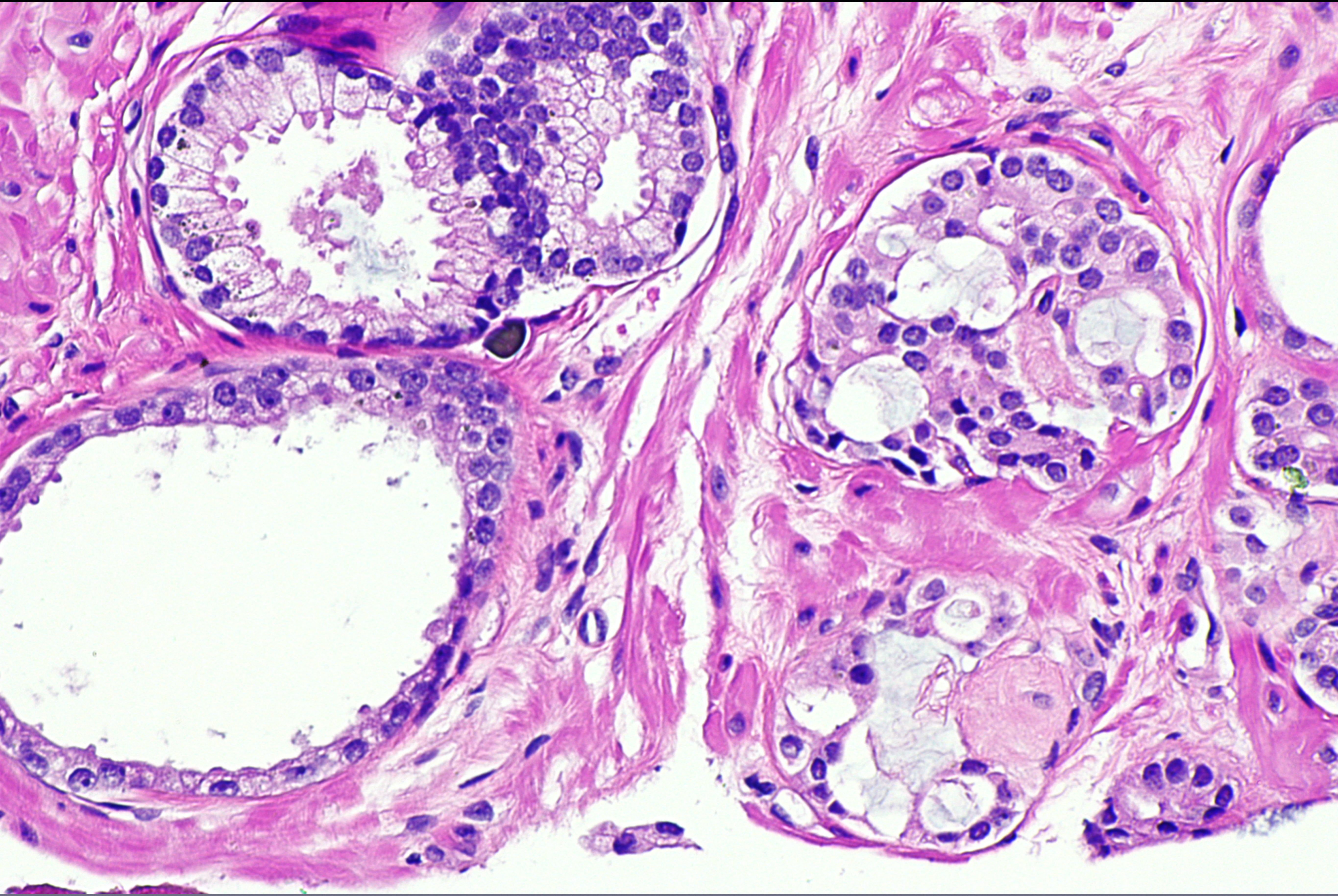


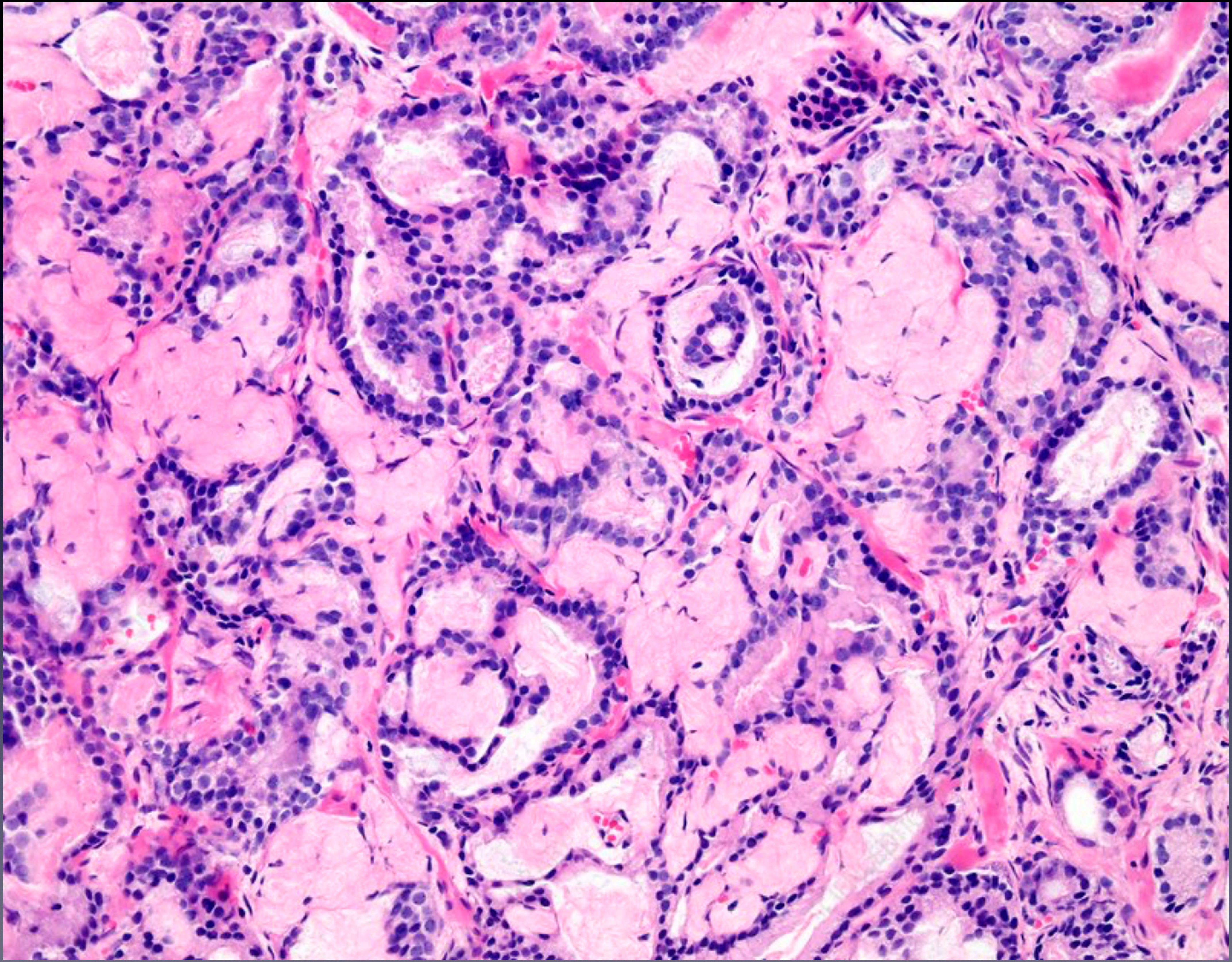


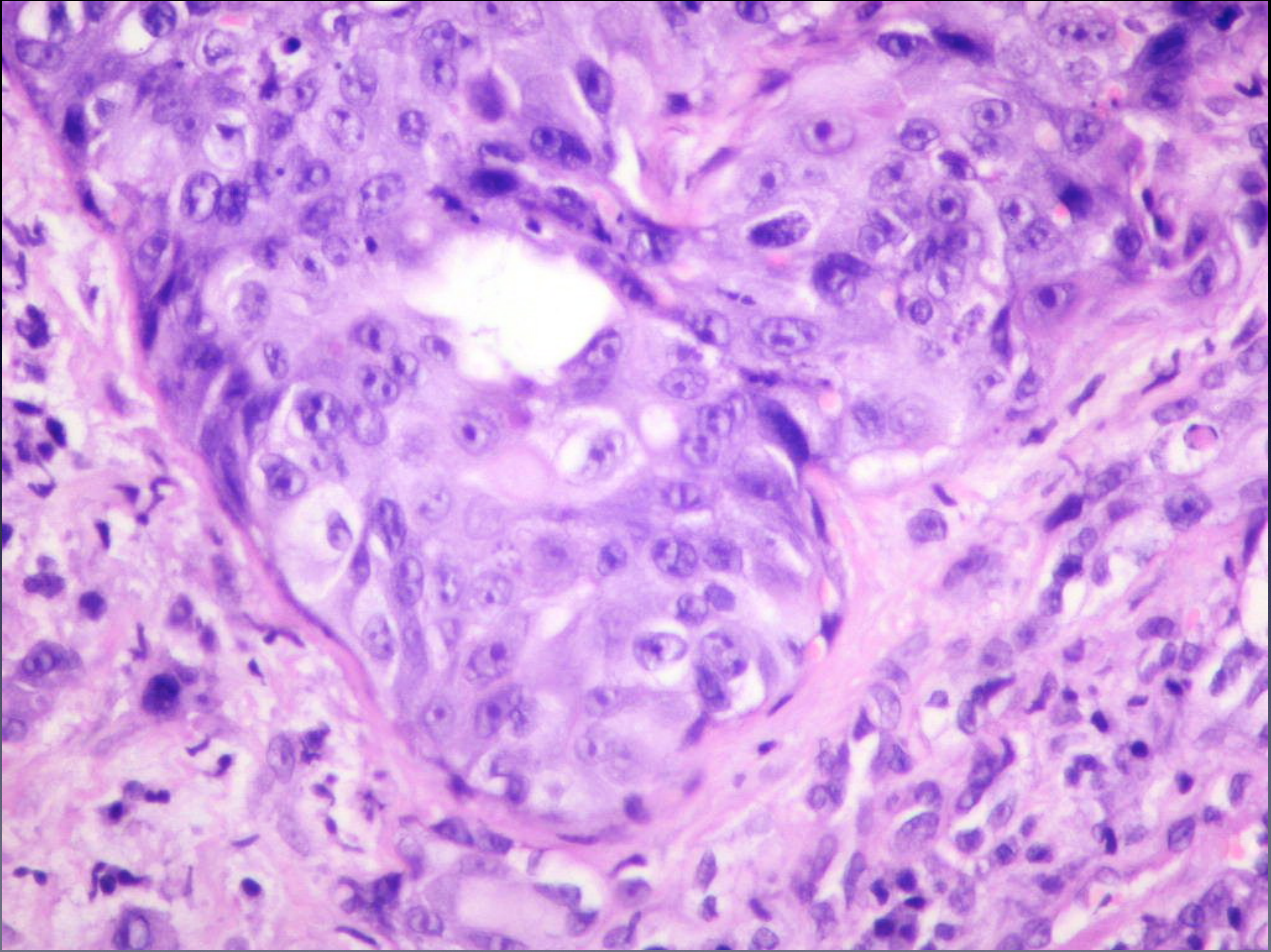


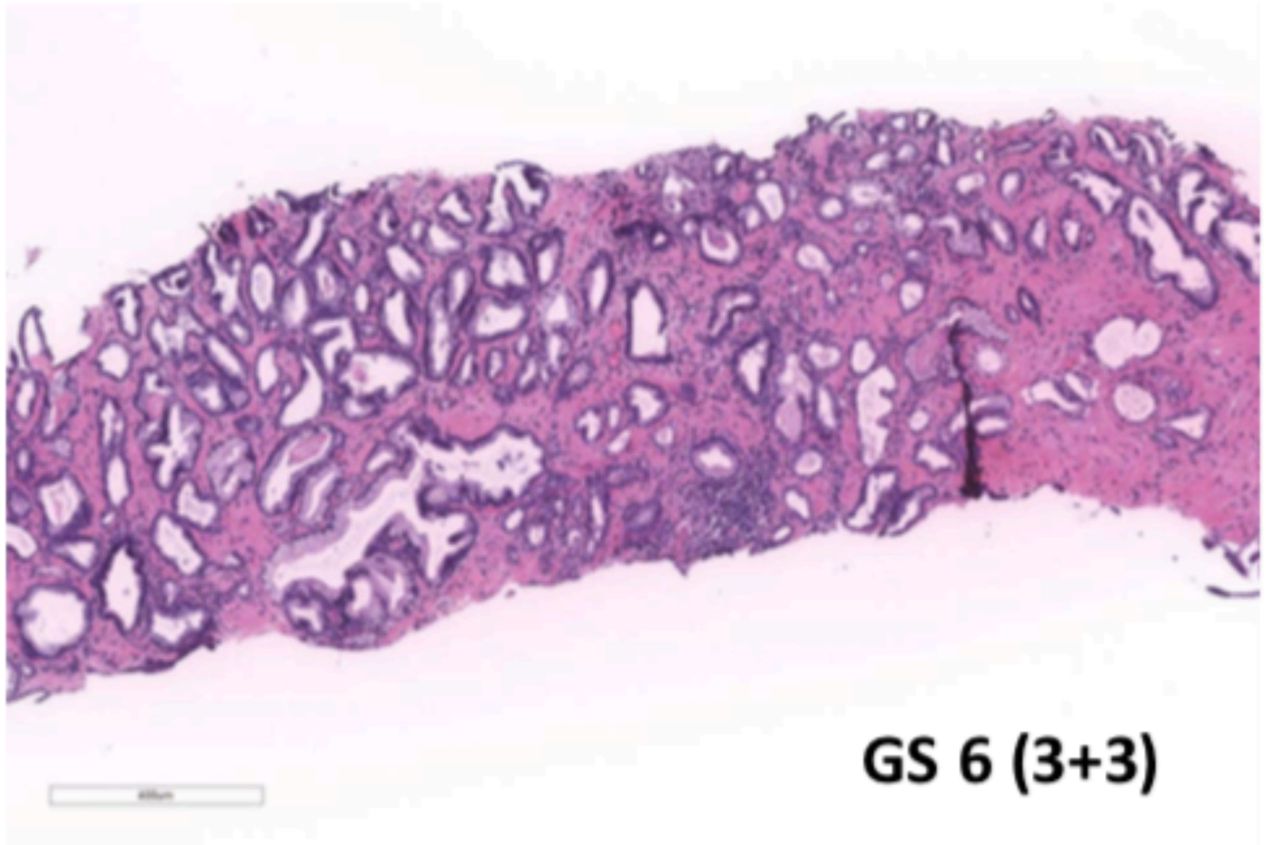


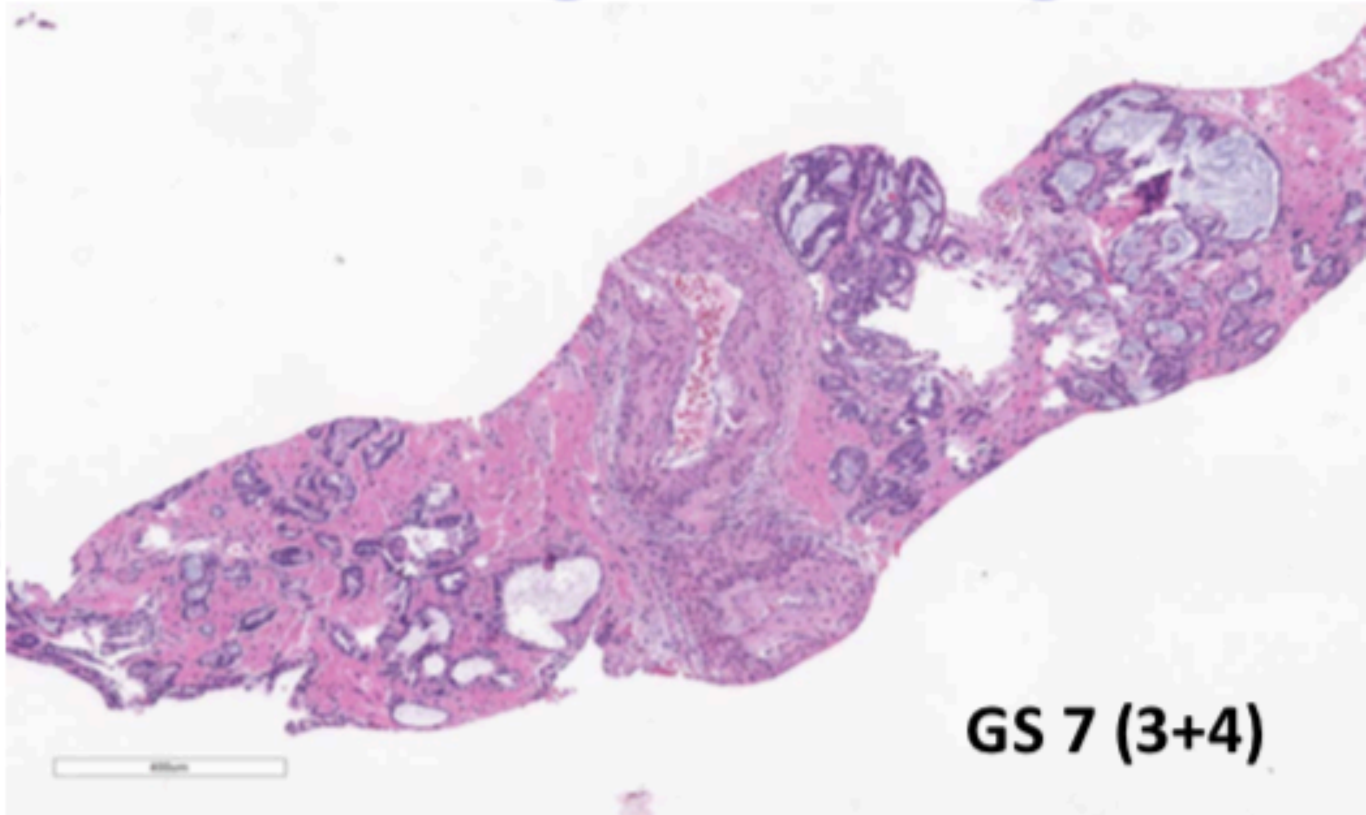


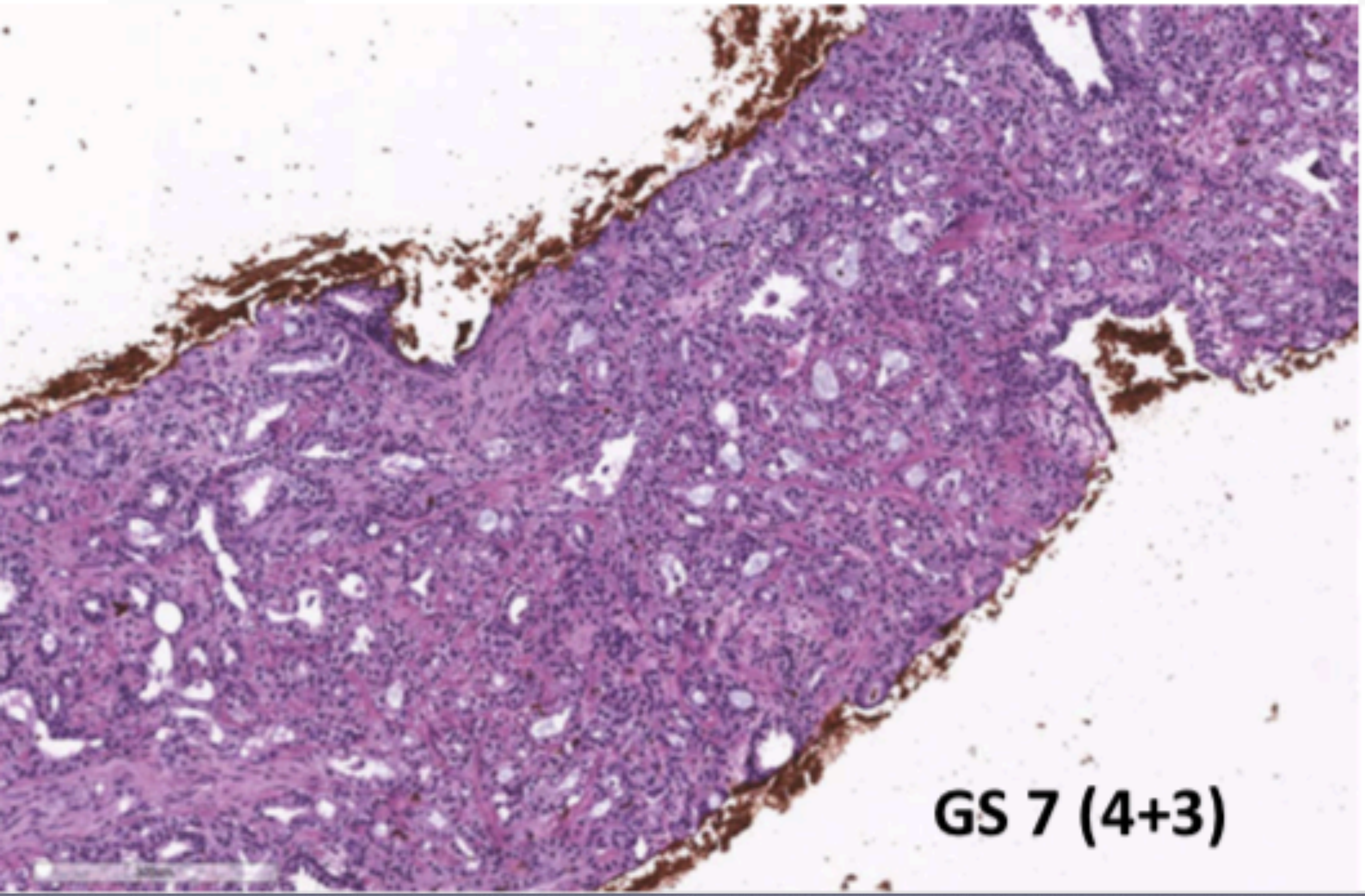


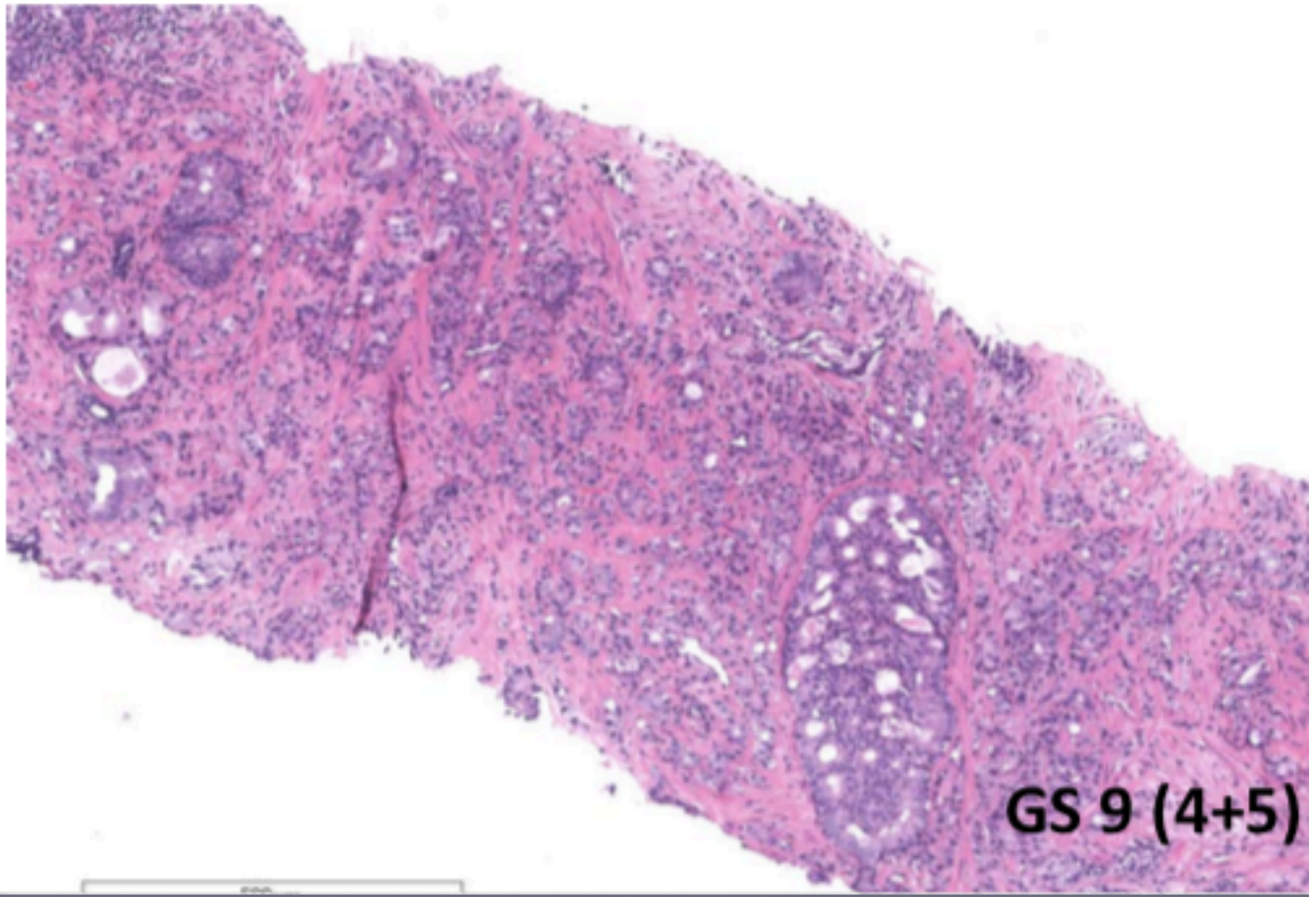


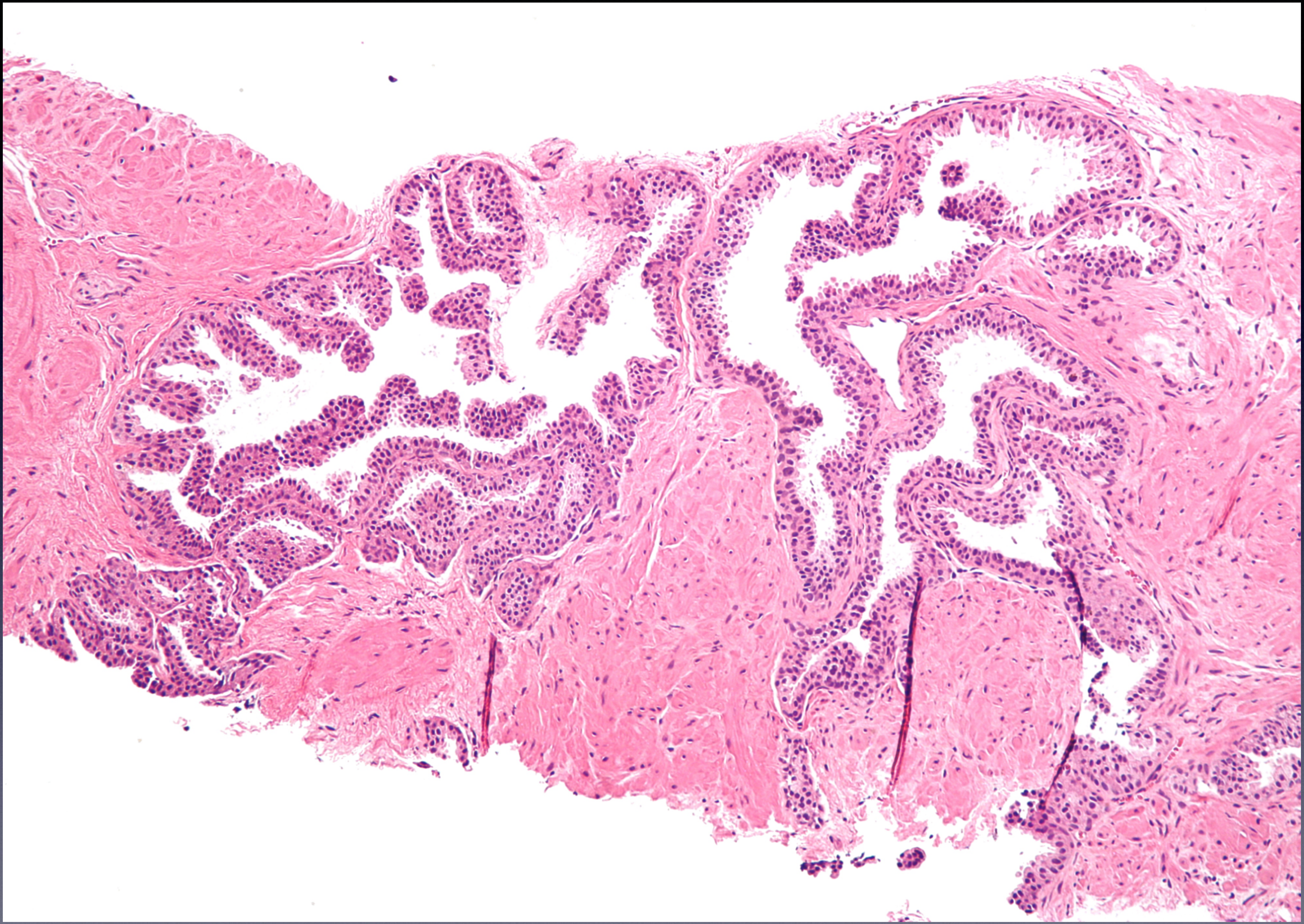


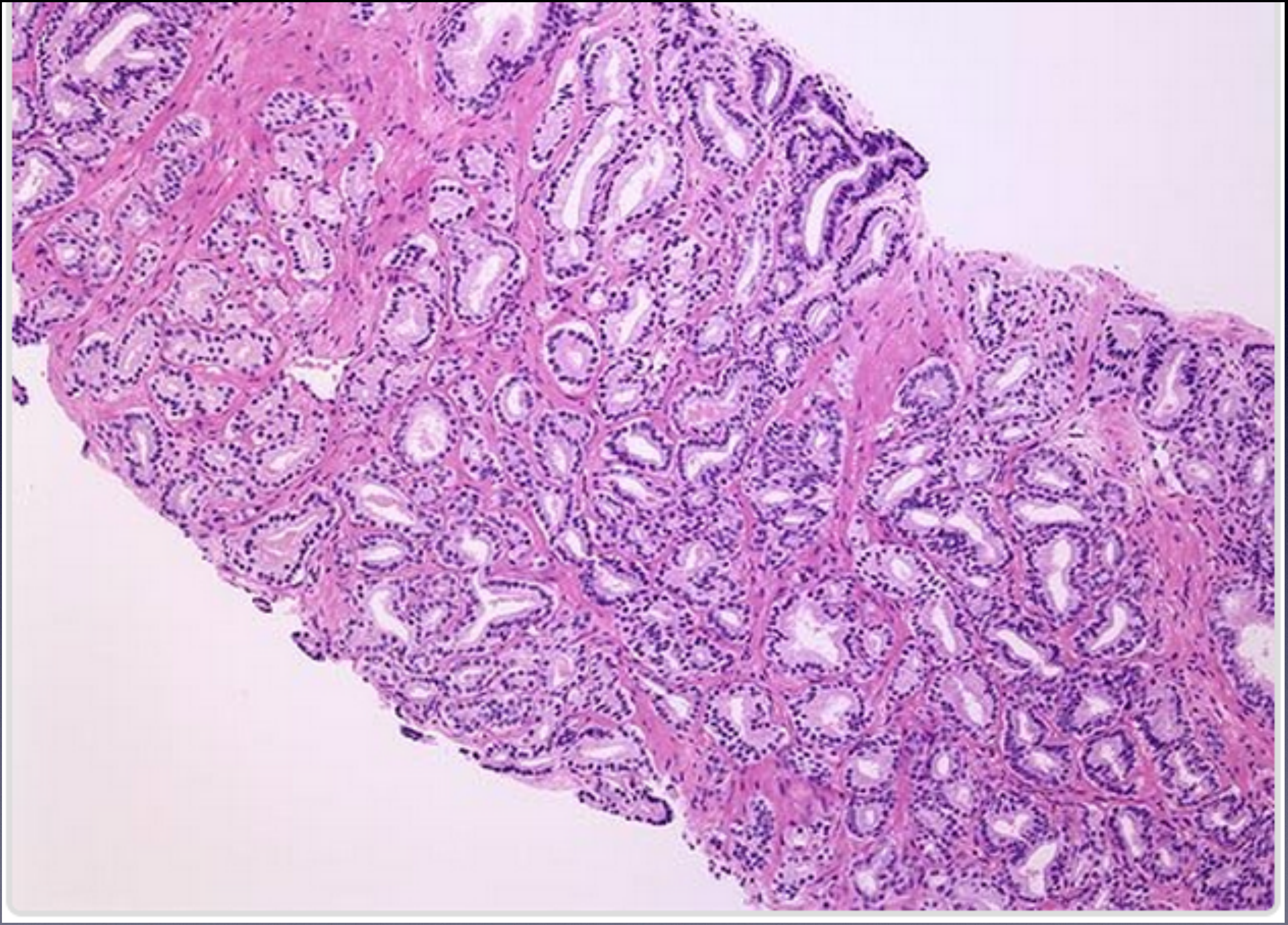

GS 6 (3+3)

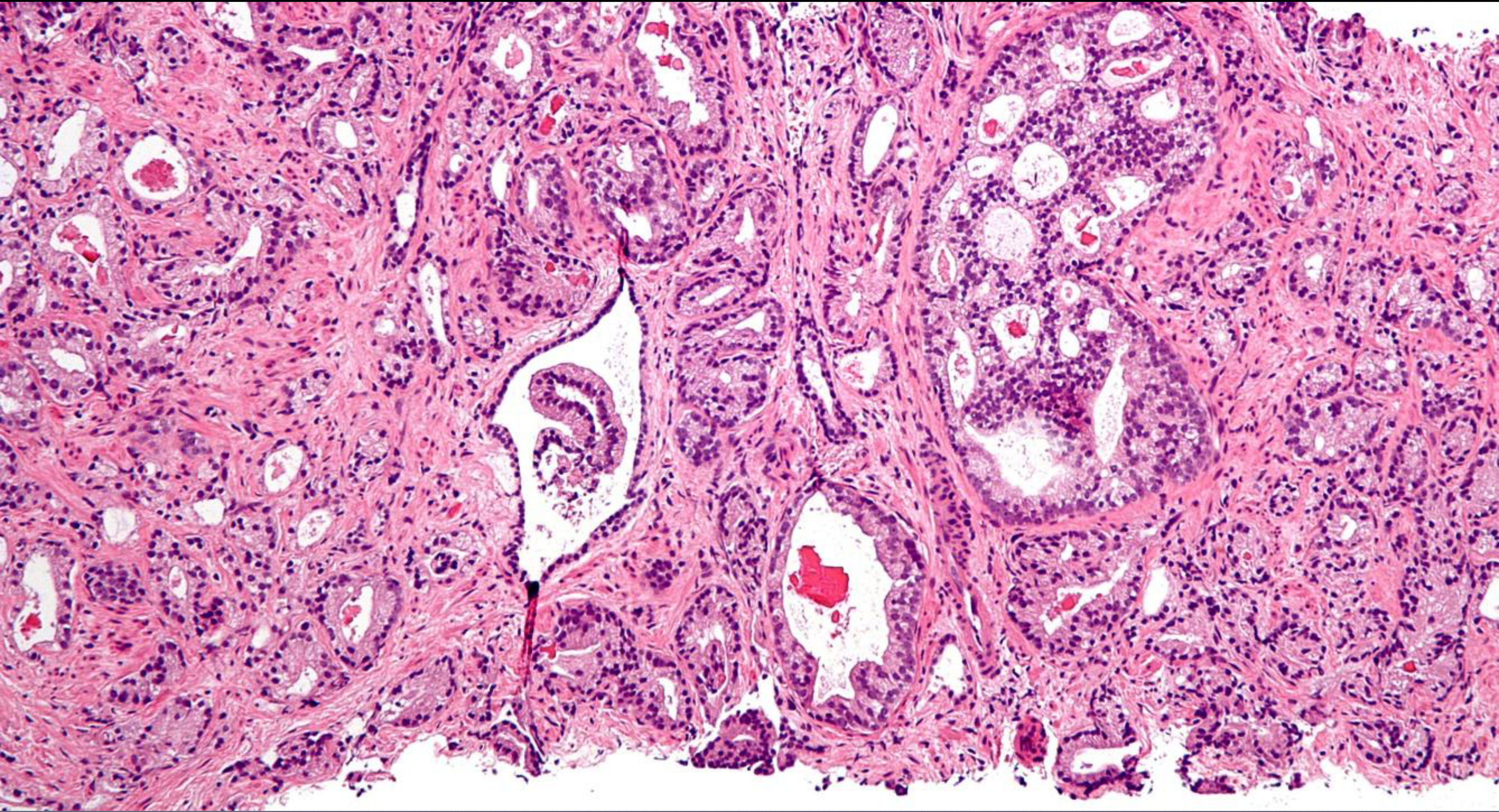

GS 7 (3+4)

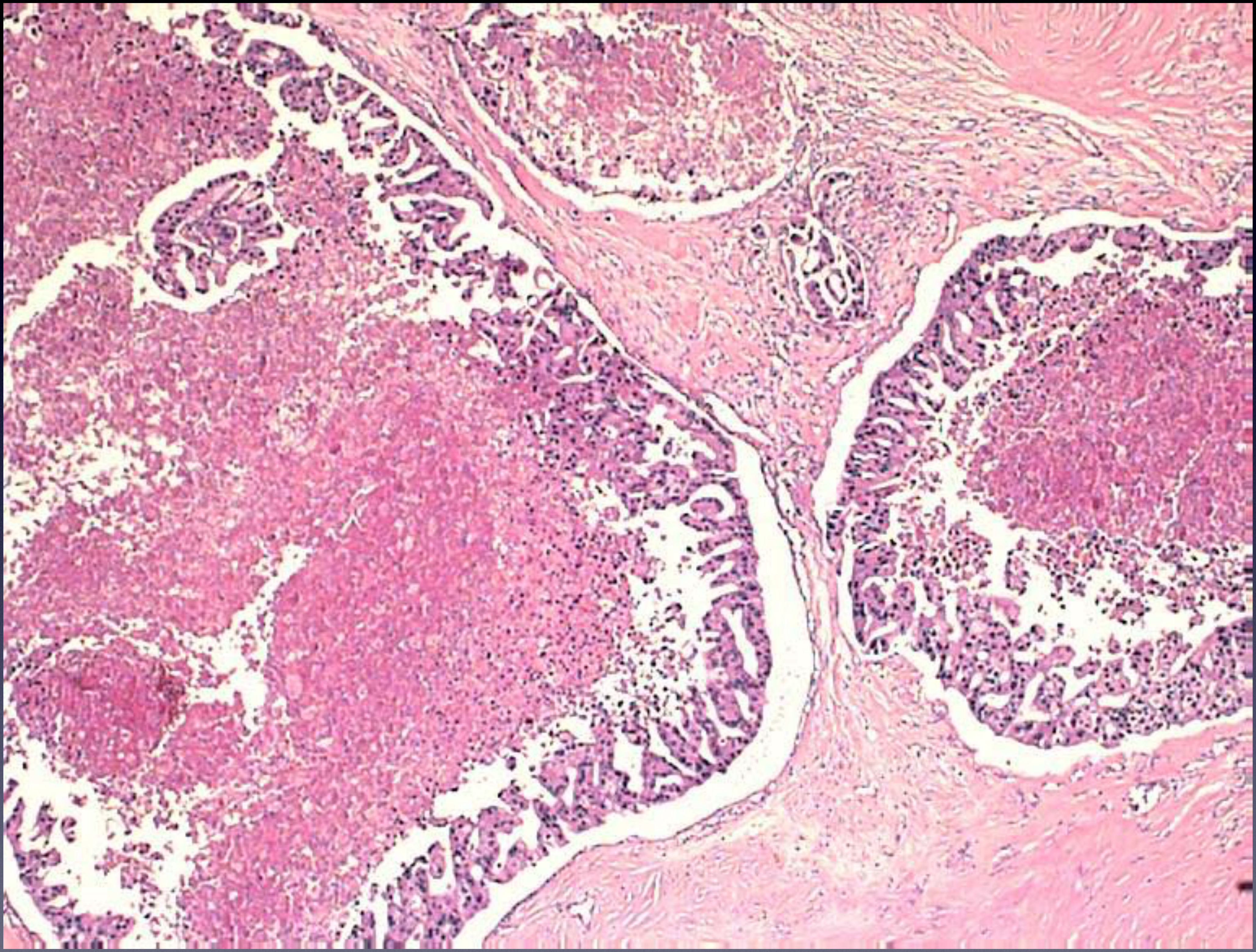

GS 7 (4+3)

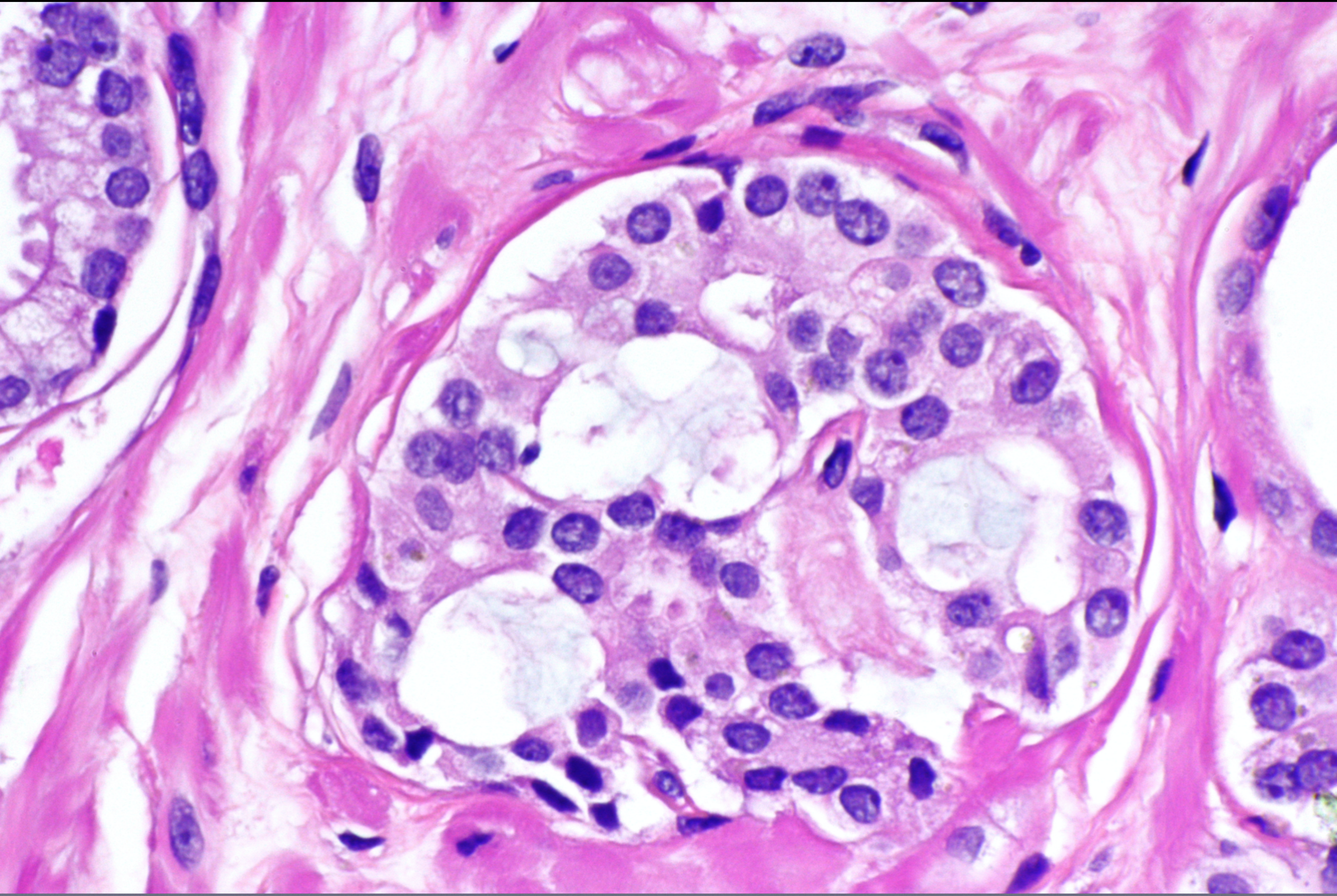

GS 9 (4+5)

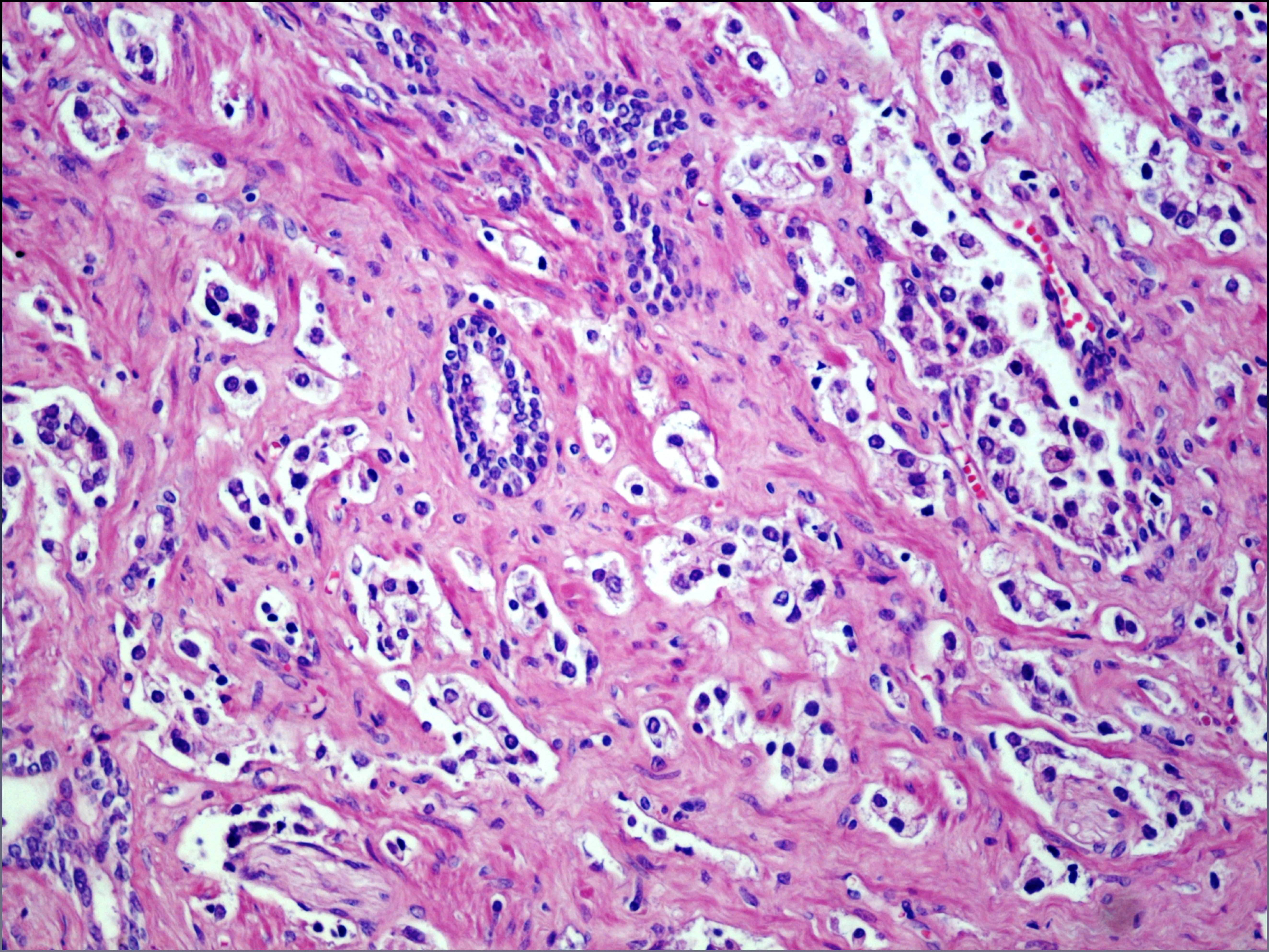


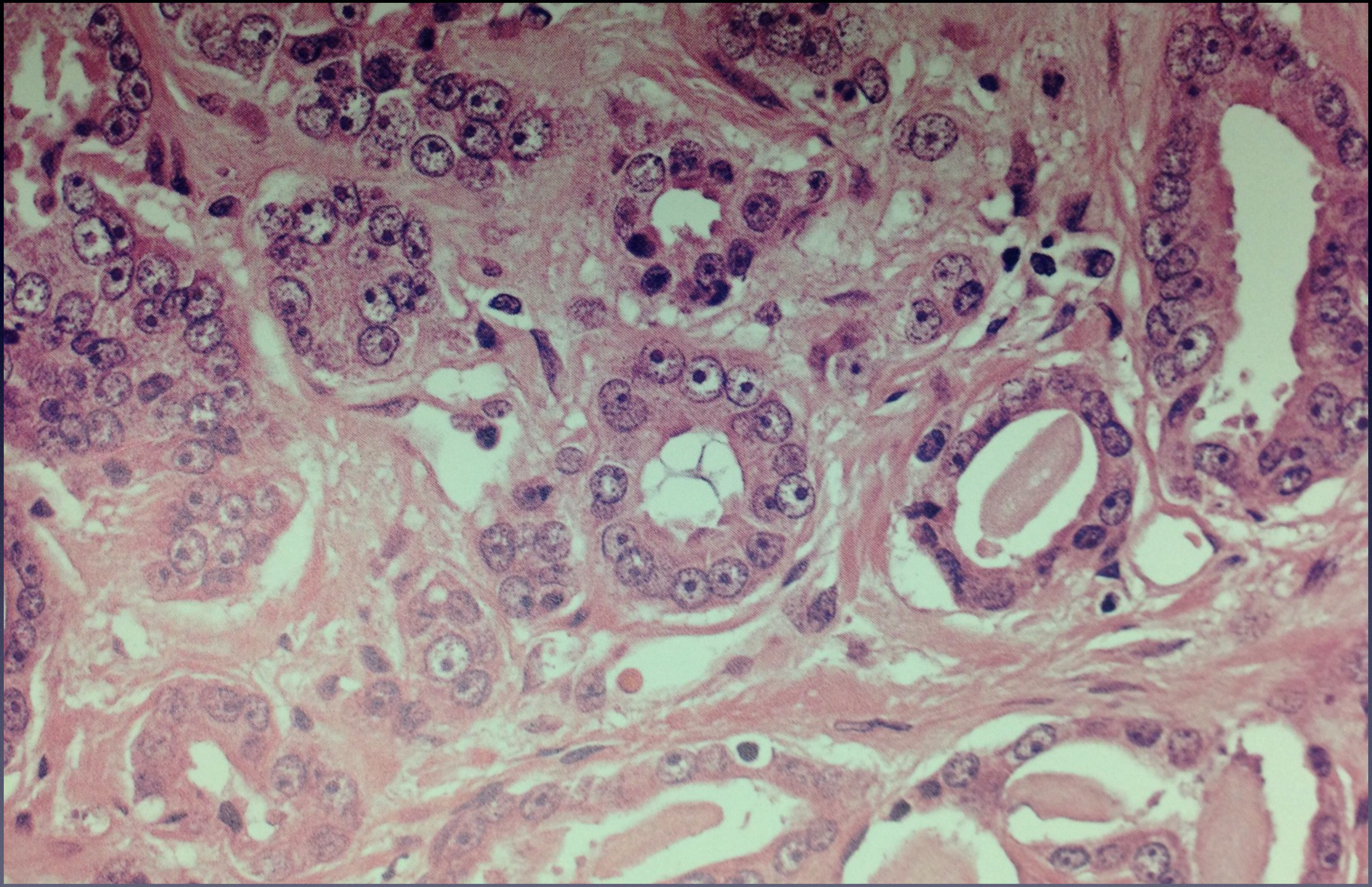


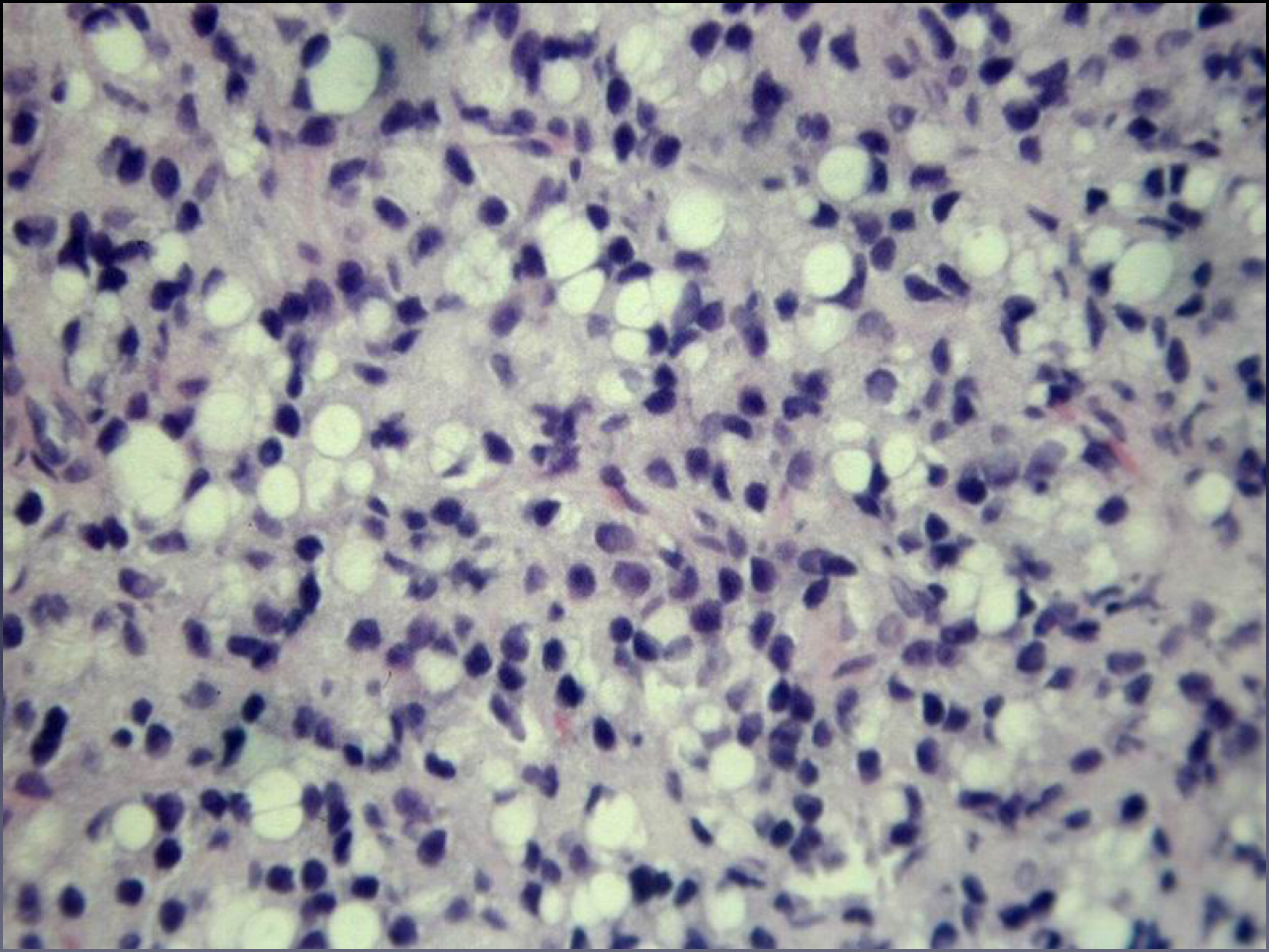


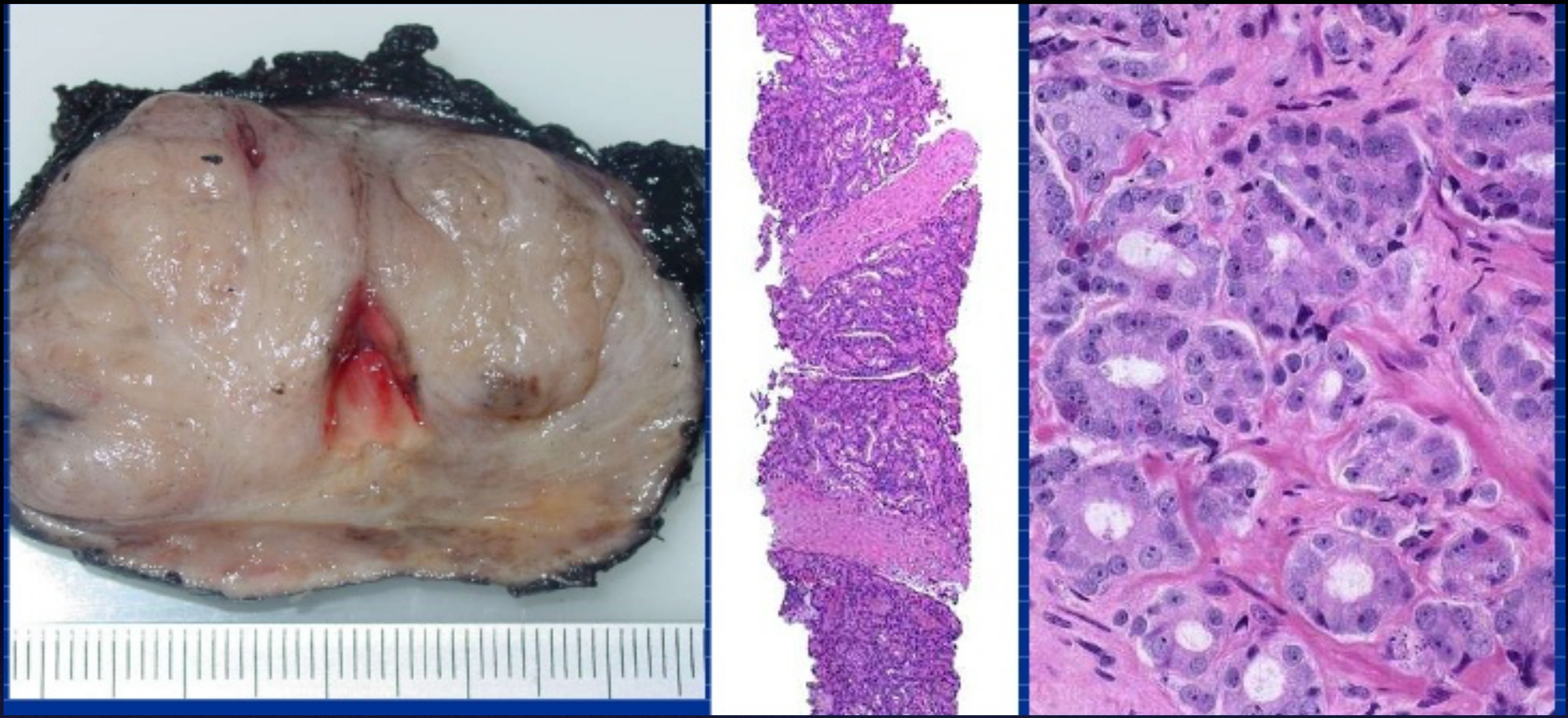


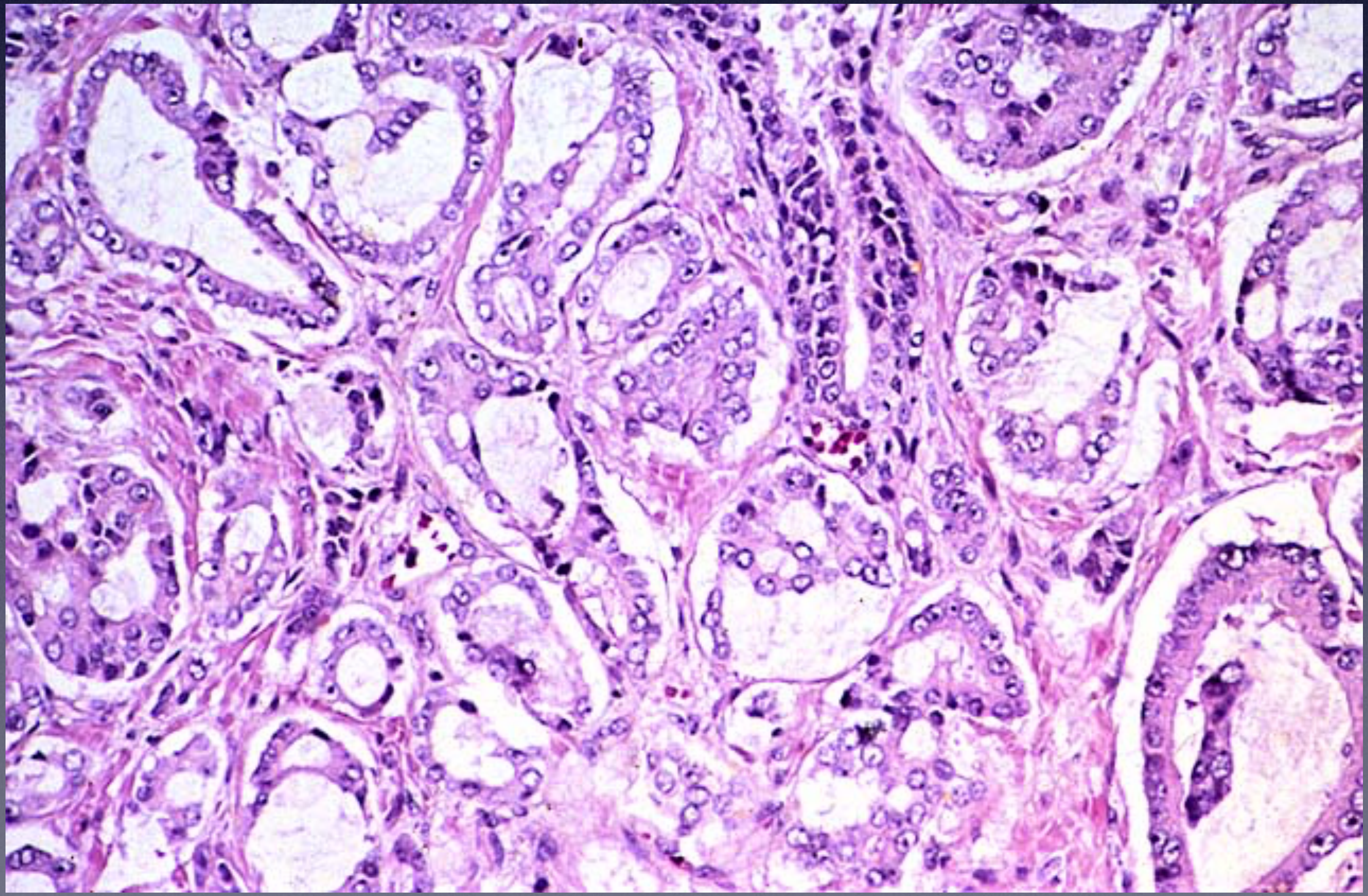


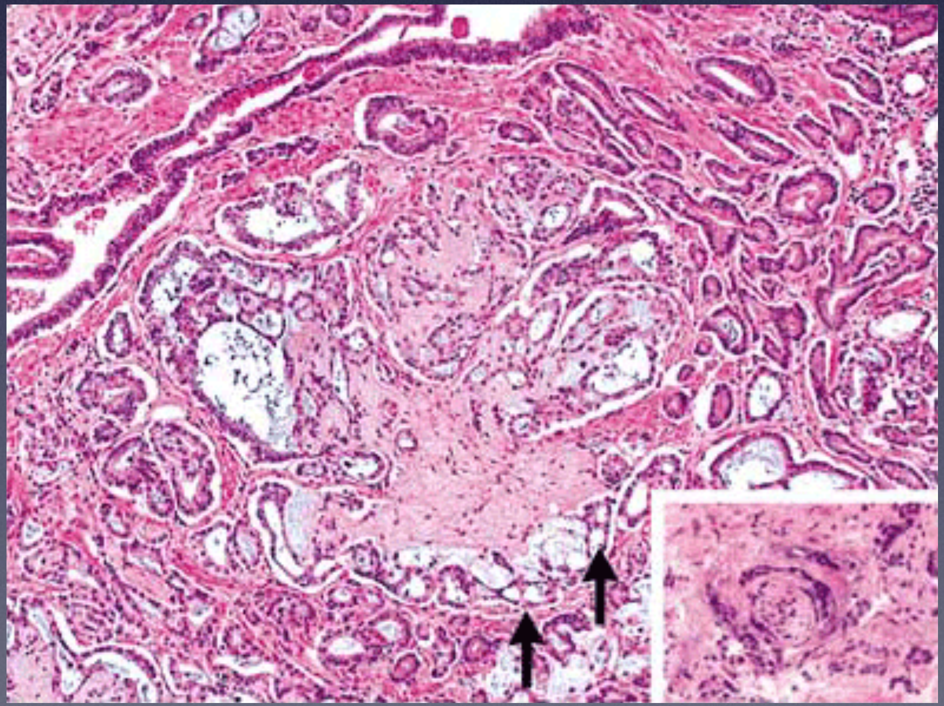


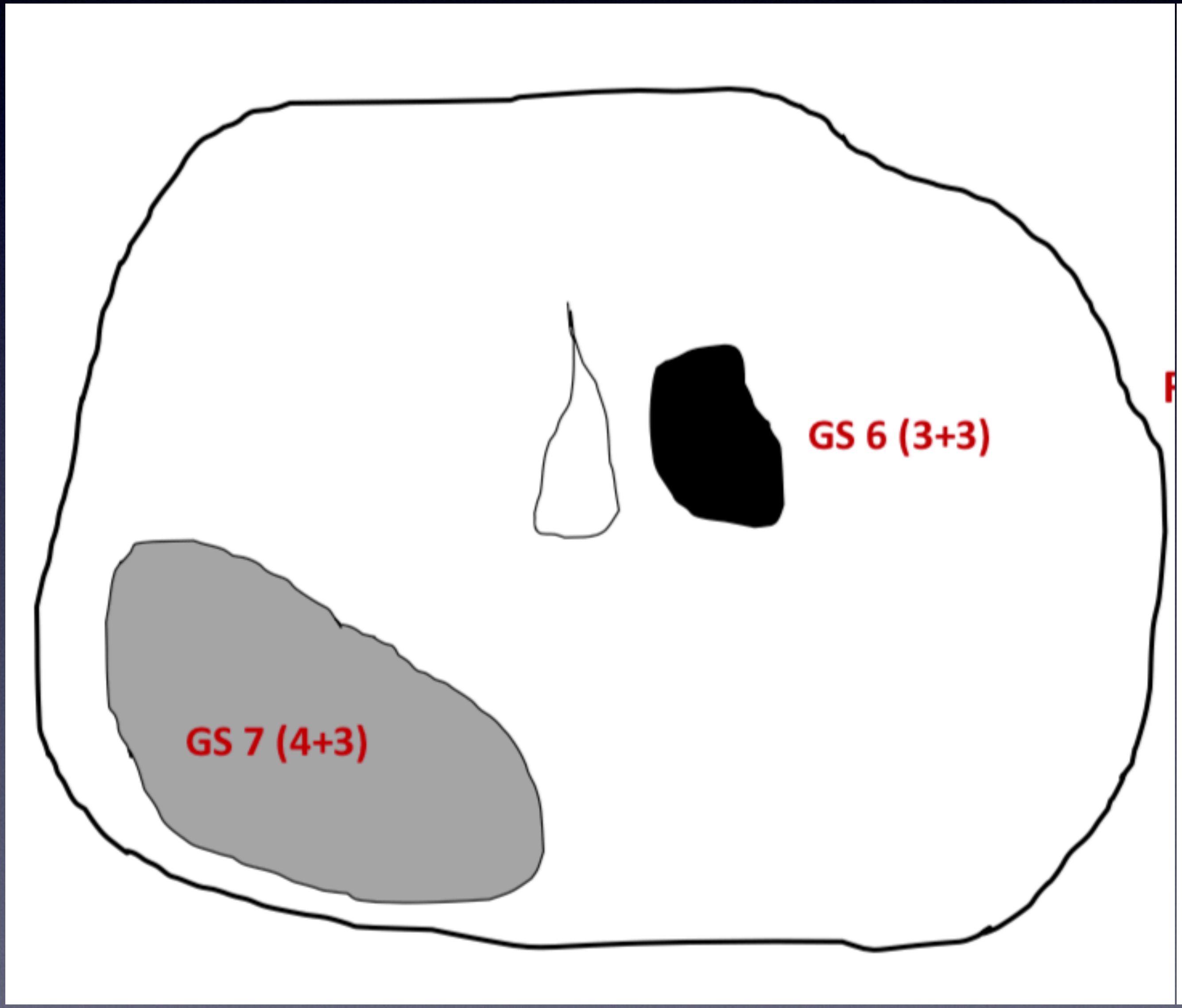


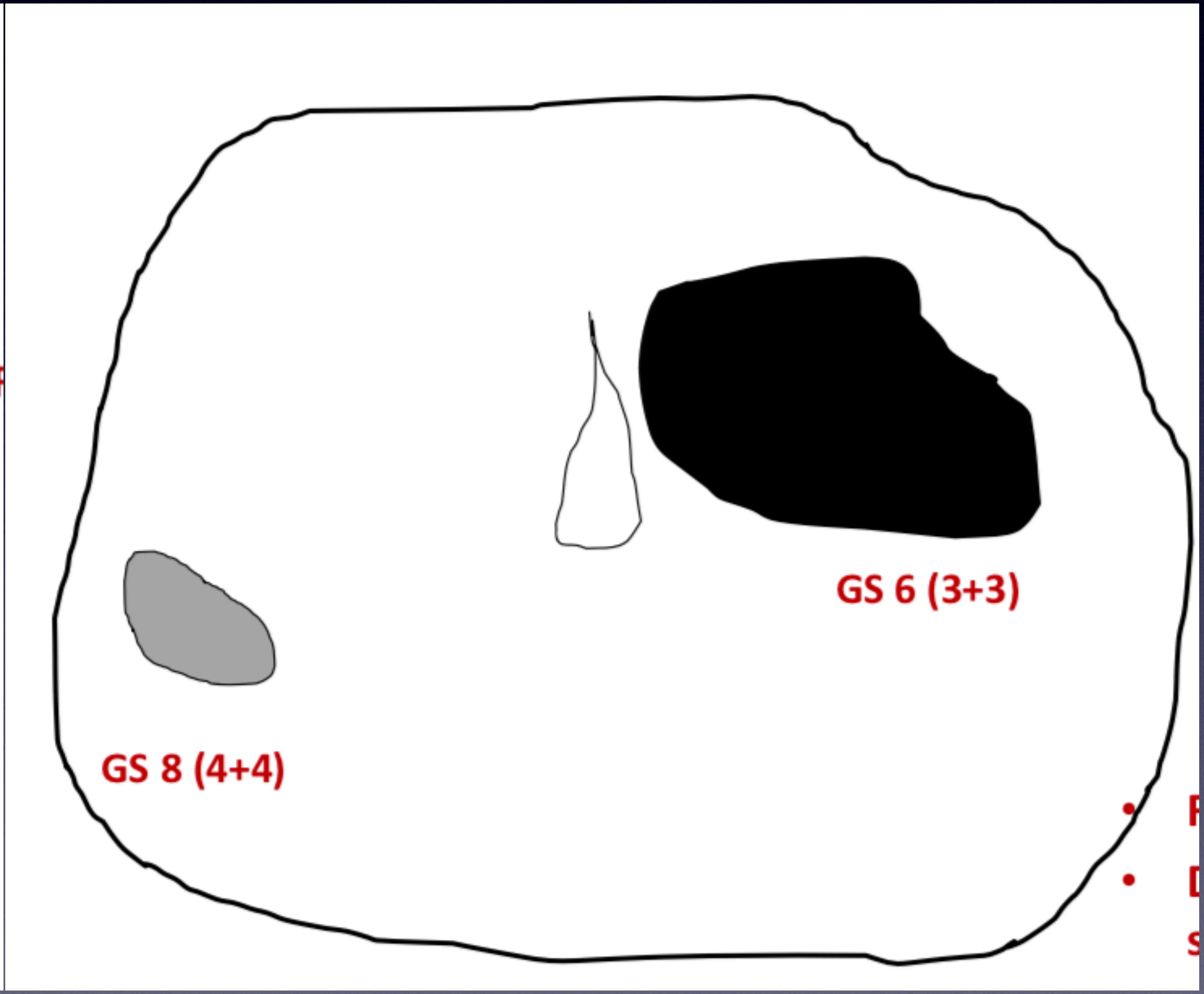
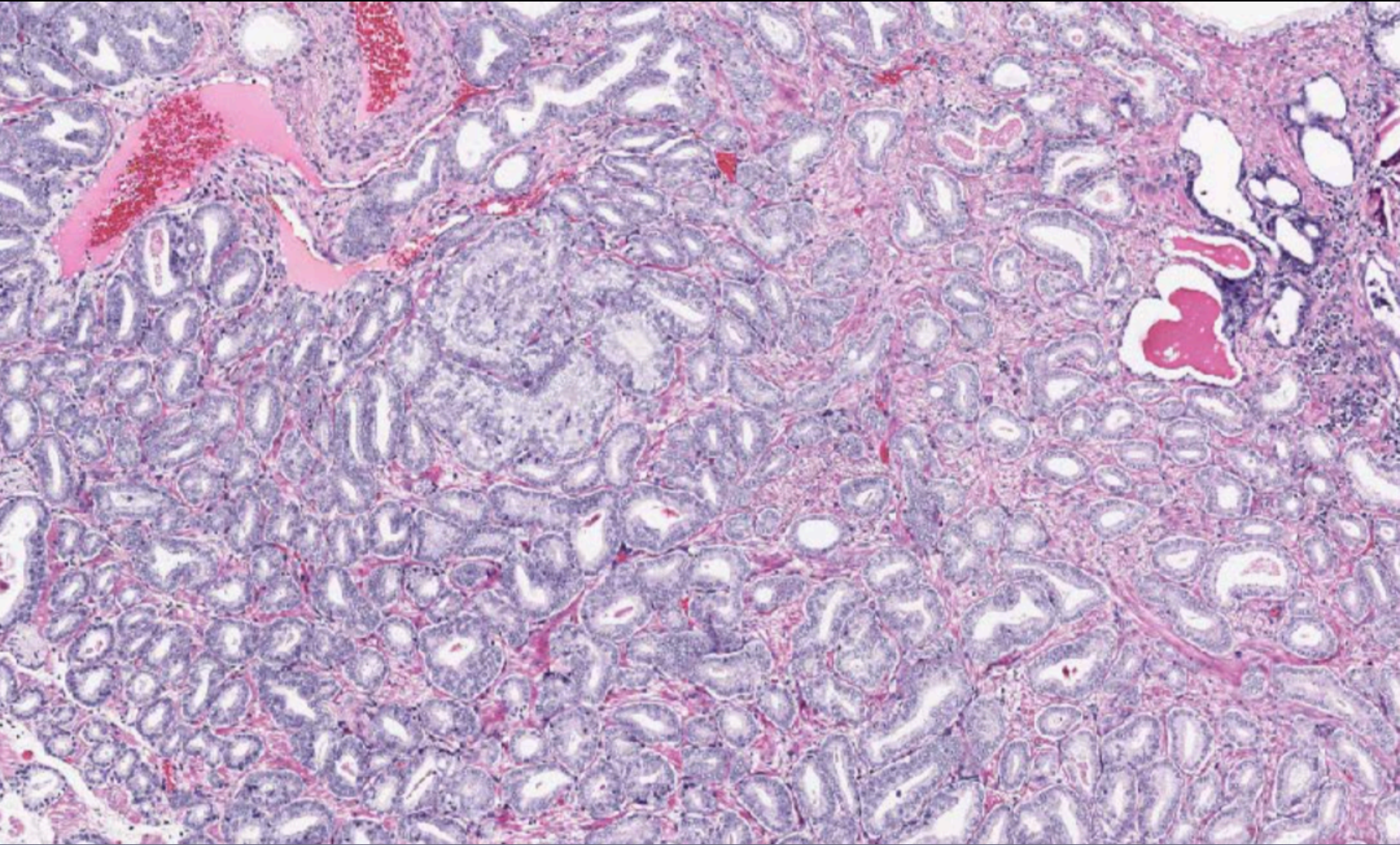
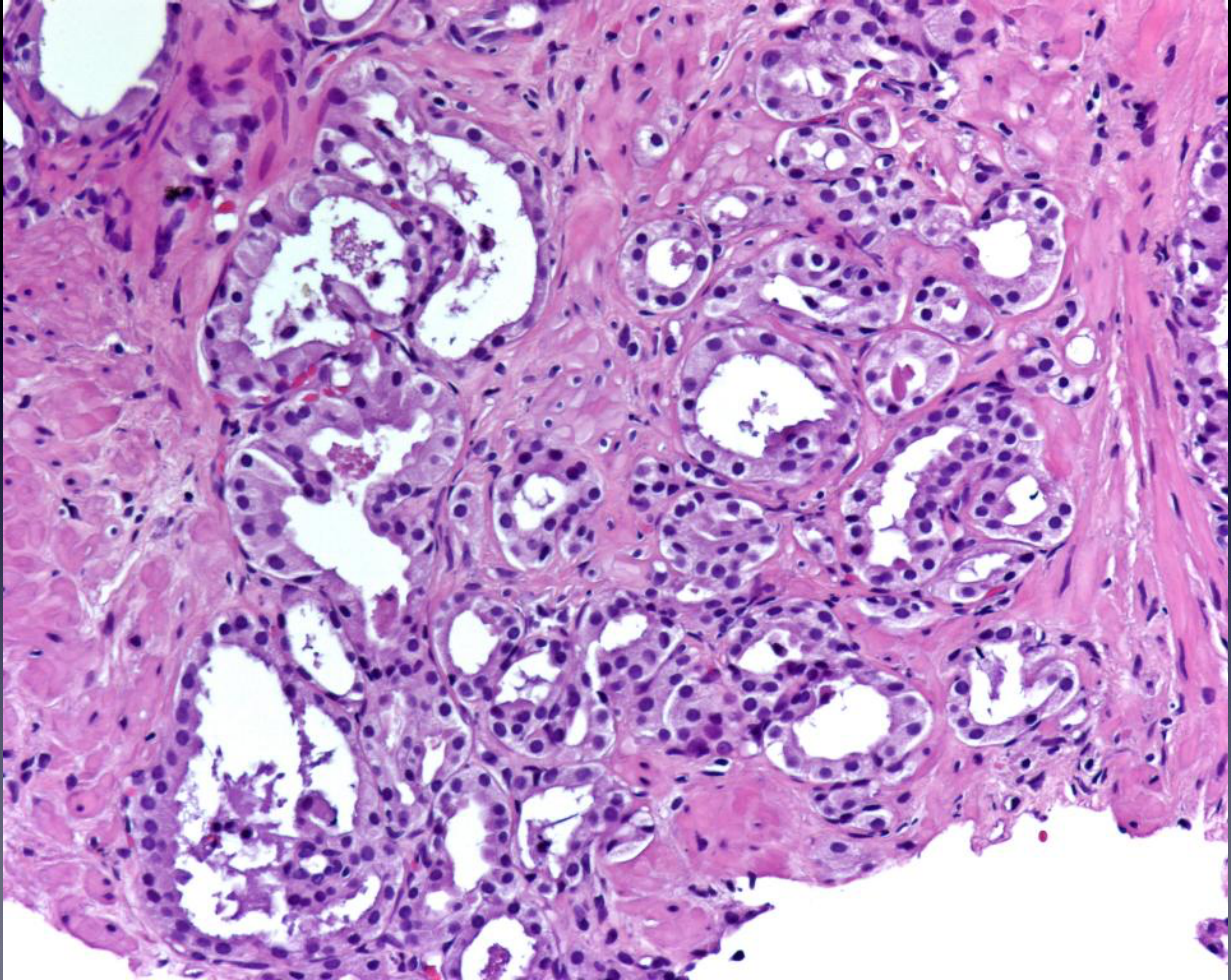
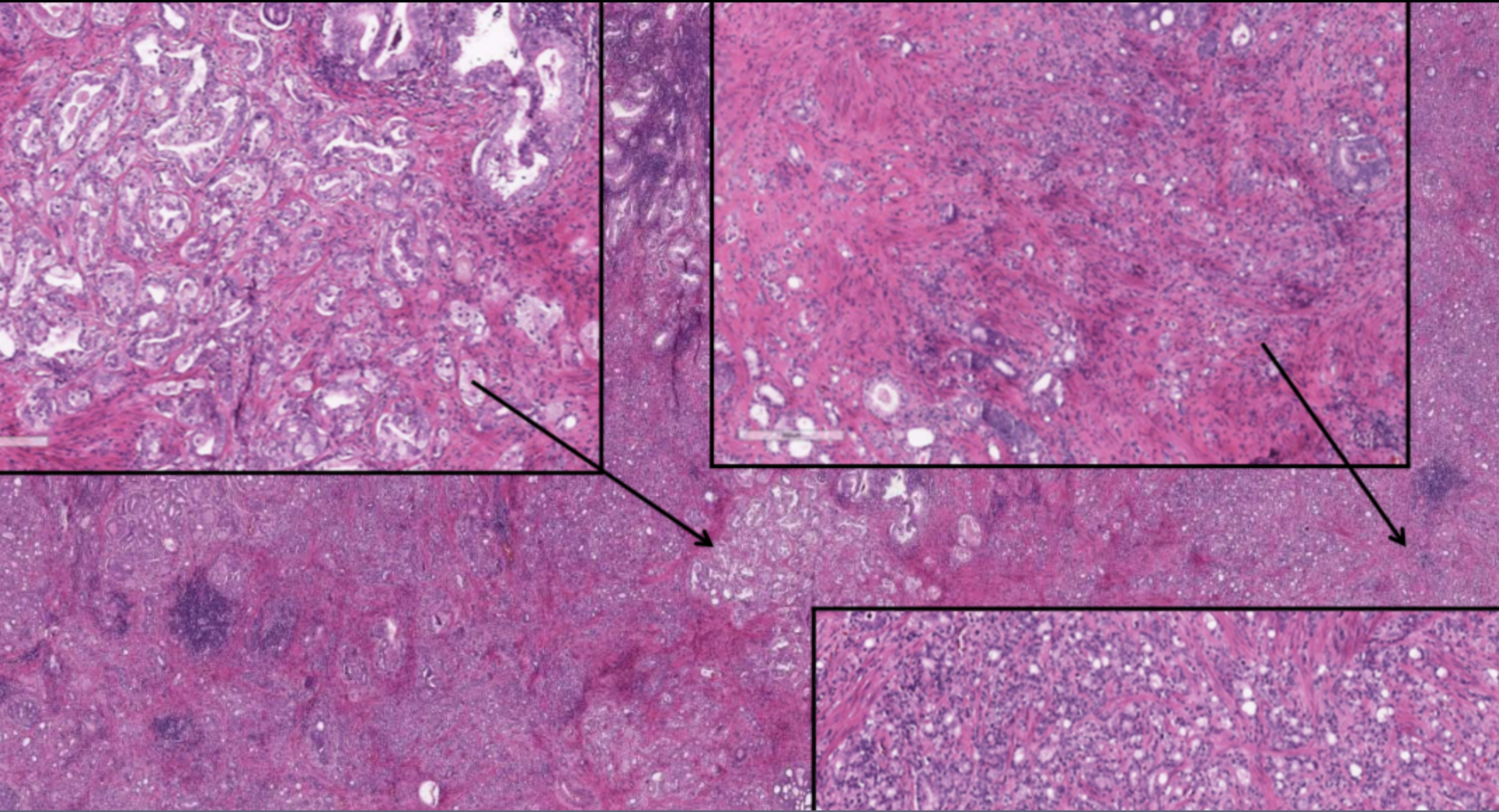









GS 6 (3+3)
GS 7 (4+3)


GS 6 (3+3)
GS 8 (4+4)