# Case Presentation

96th Teritorial Meeting of SEAP,

April 3, 2009

FOM, Valencia

Dr. Denise Hileeto
IOBA Pathology Laboratory
University of Valladolid

# Clinical History

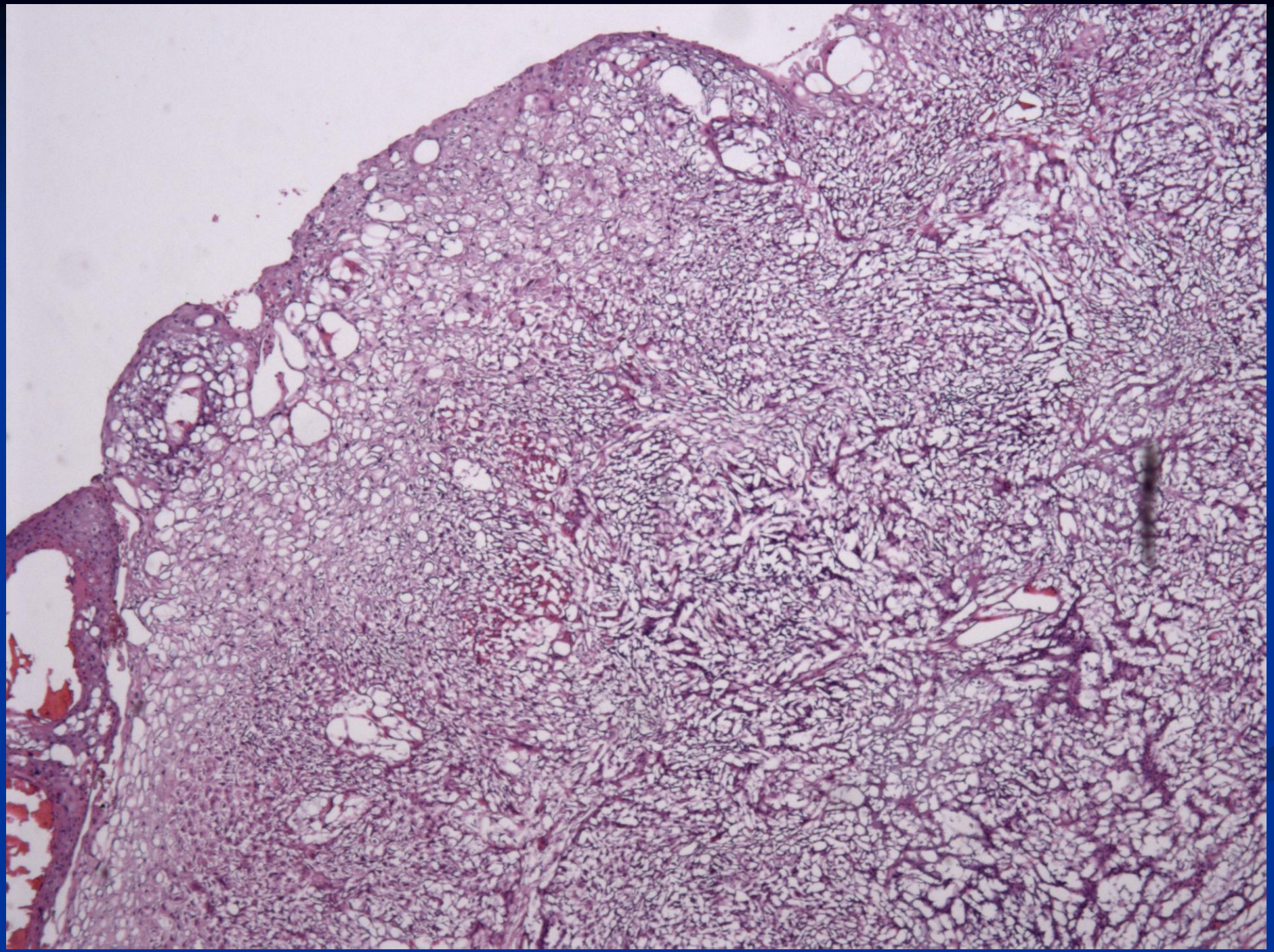
- 32 year old black male
- Conjunctival mass, developed over couple of months
- Clinically appeared to the ophthalmologist as a CIN or invasive
- Excision specimen was sent already fixed in formalin

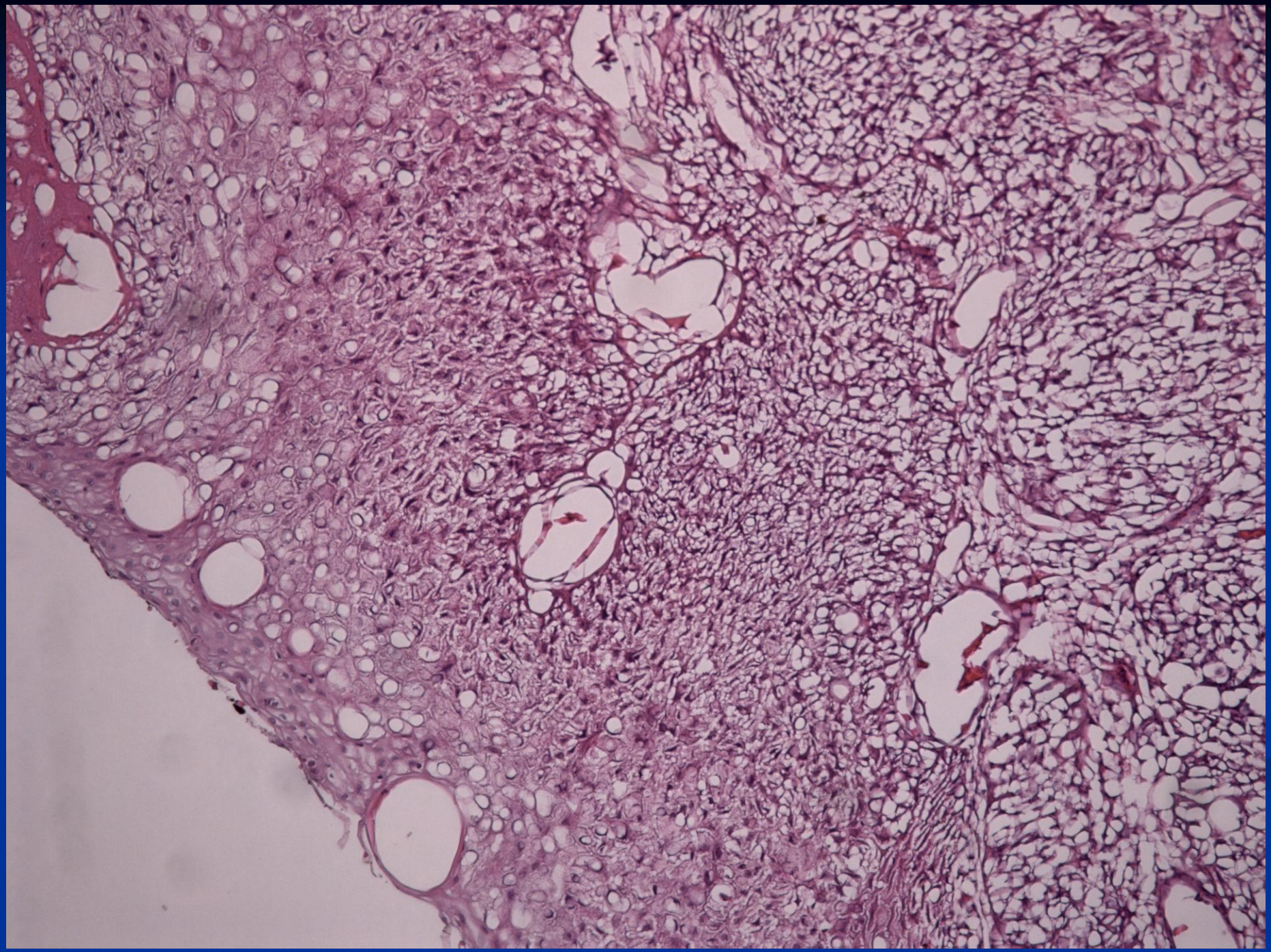
UNIVERSIDAD DE VALLADOLID
ioba Instituto Universitario de Oftalmobiología Aplicada

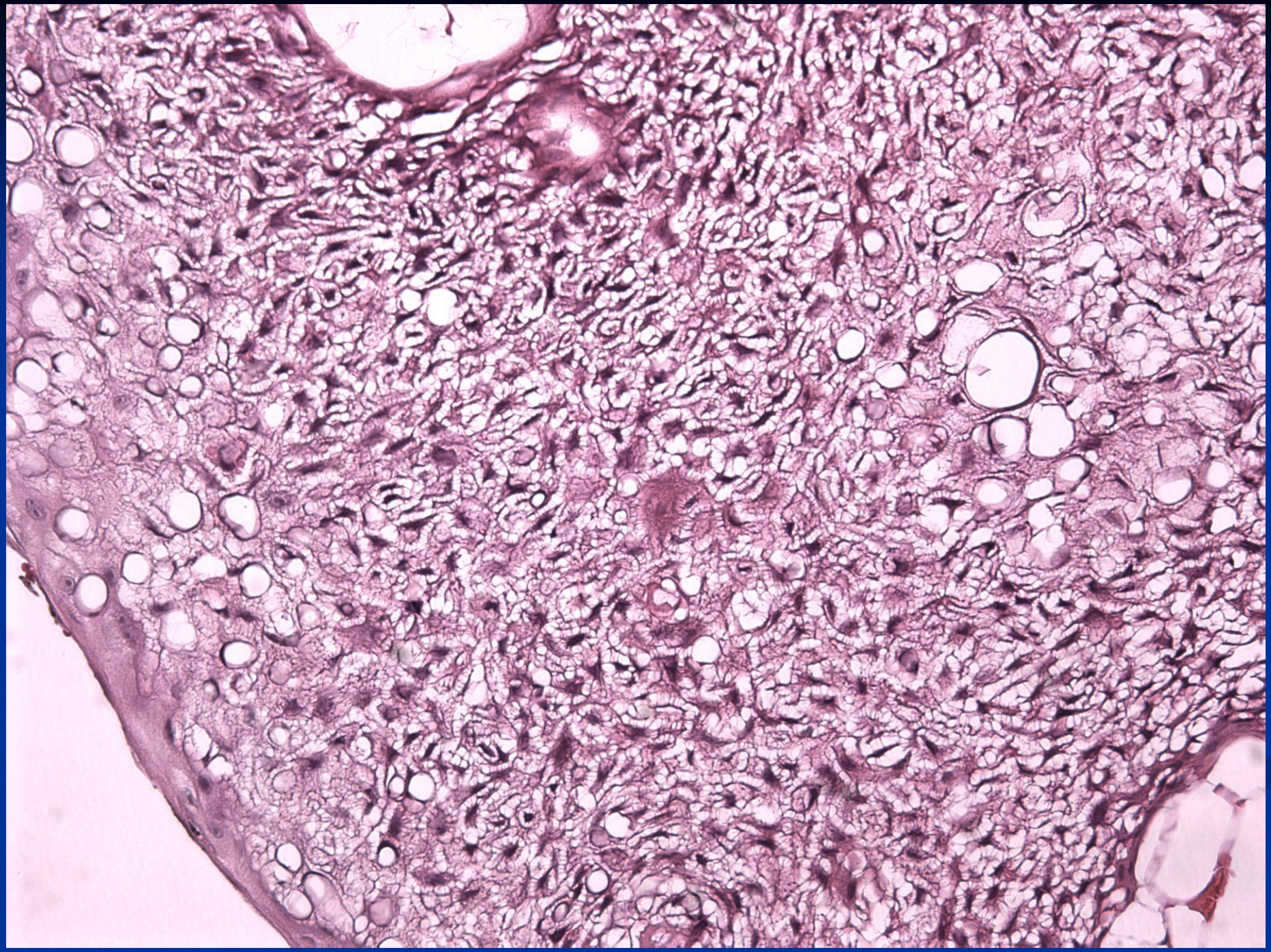
# Grossly

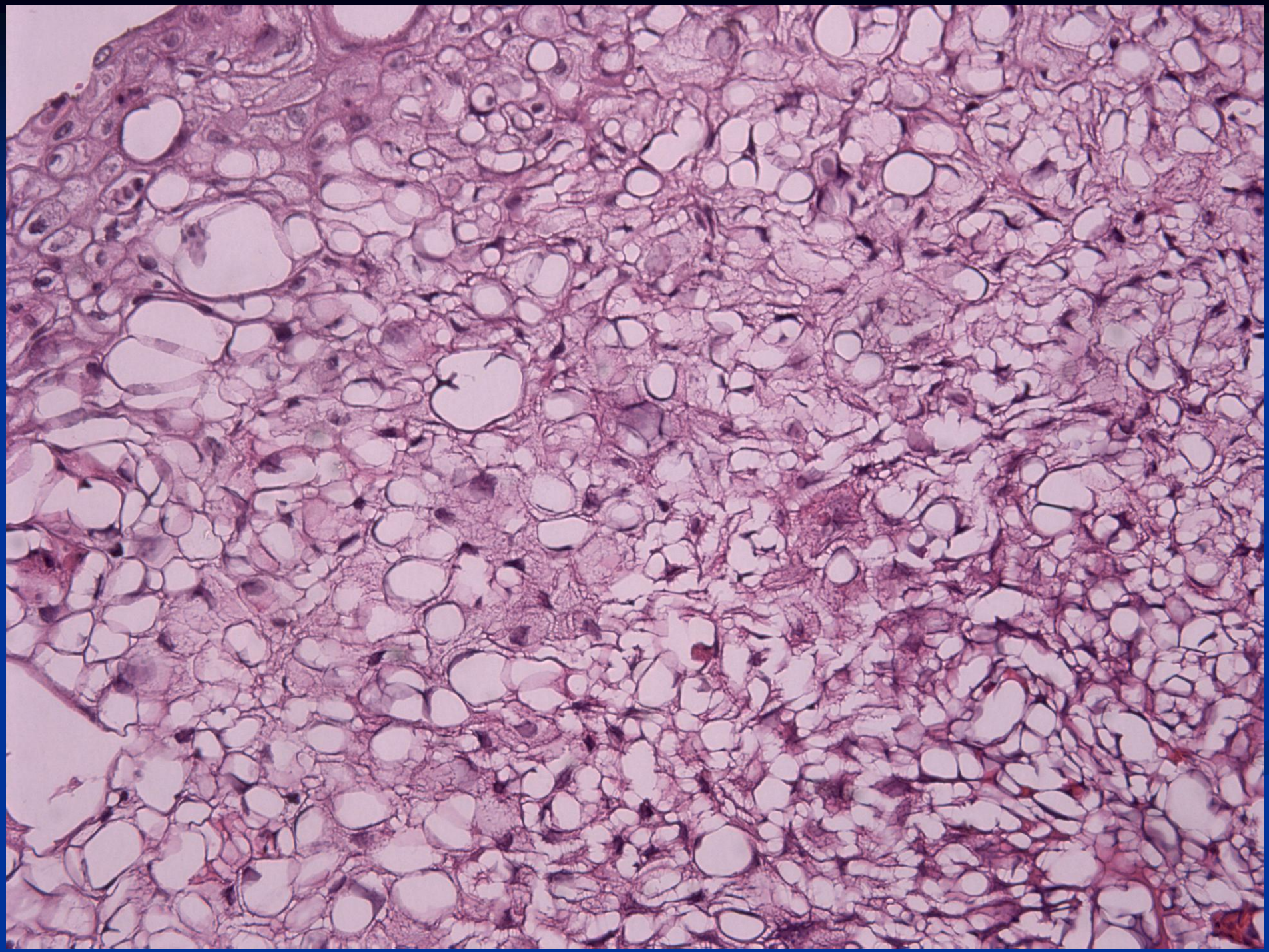
- Conjunctival specimen 11x7x5 mm
- Centrally located nodular mass 6 mm in maximum dimention, smooth surface
- Tan color, somewhat firm, no hemorrhages, no necrosis

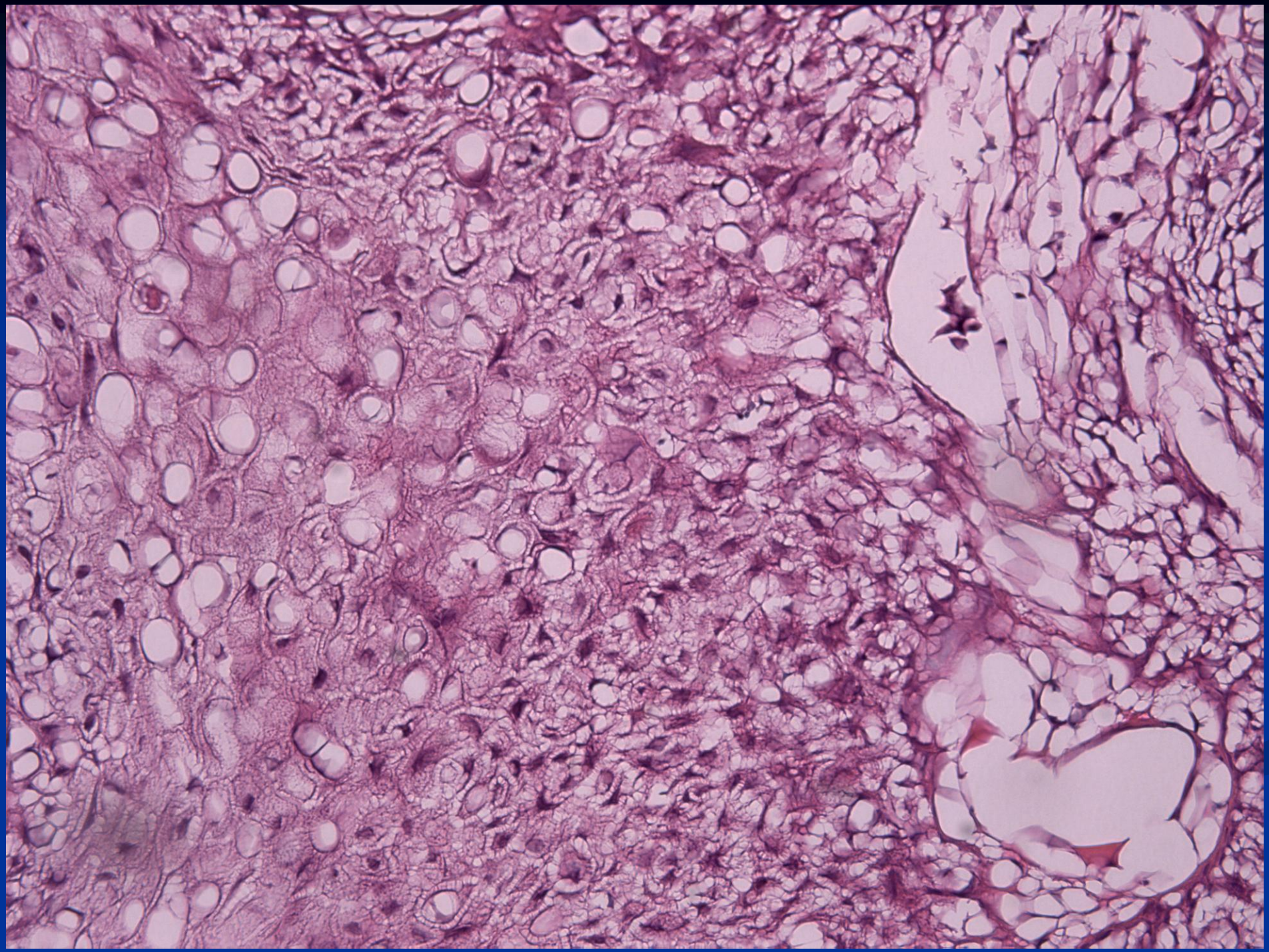
UNIVERSIDAD DE VALLADOLID
ioba
Instituto Universitario de Oftalmobiología Aplicada

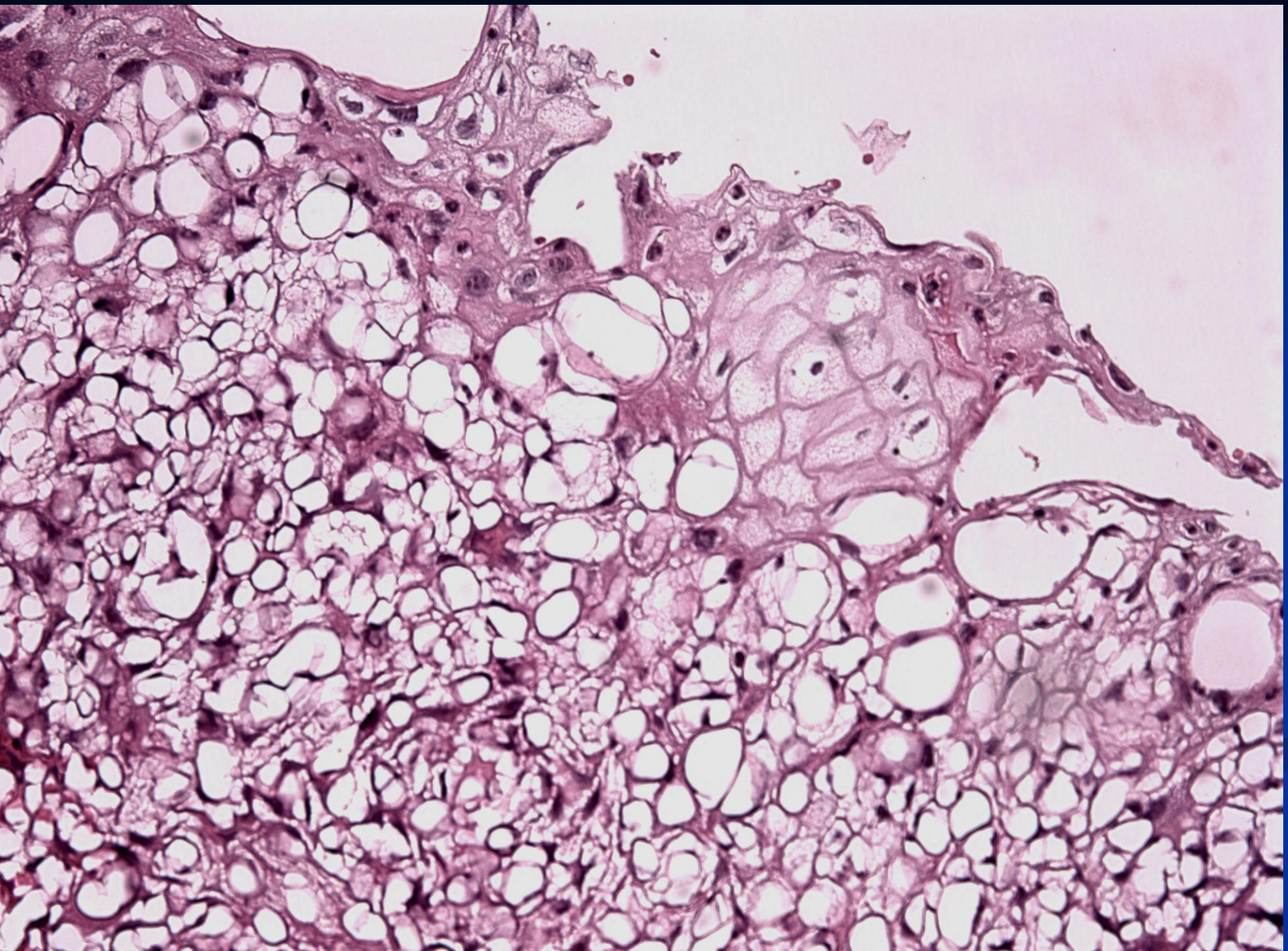


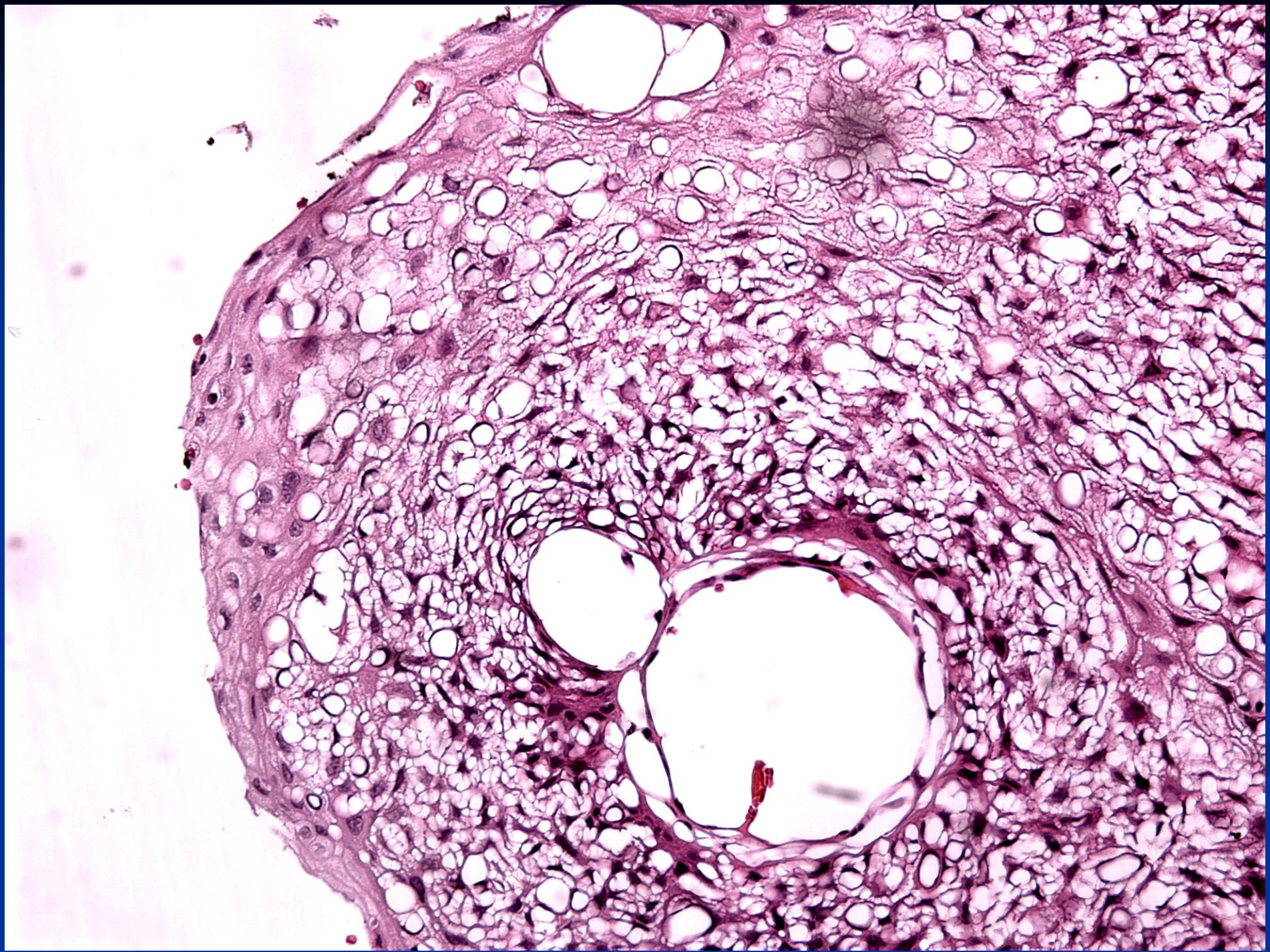












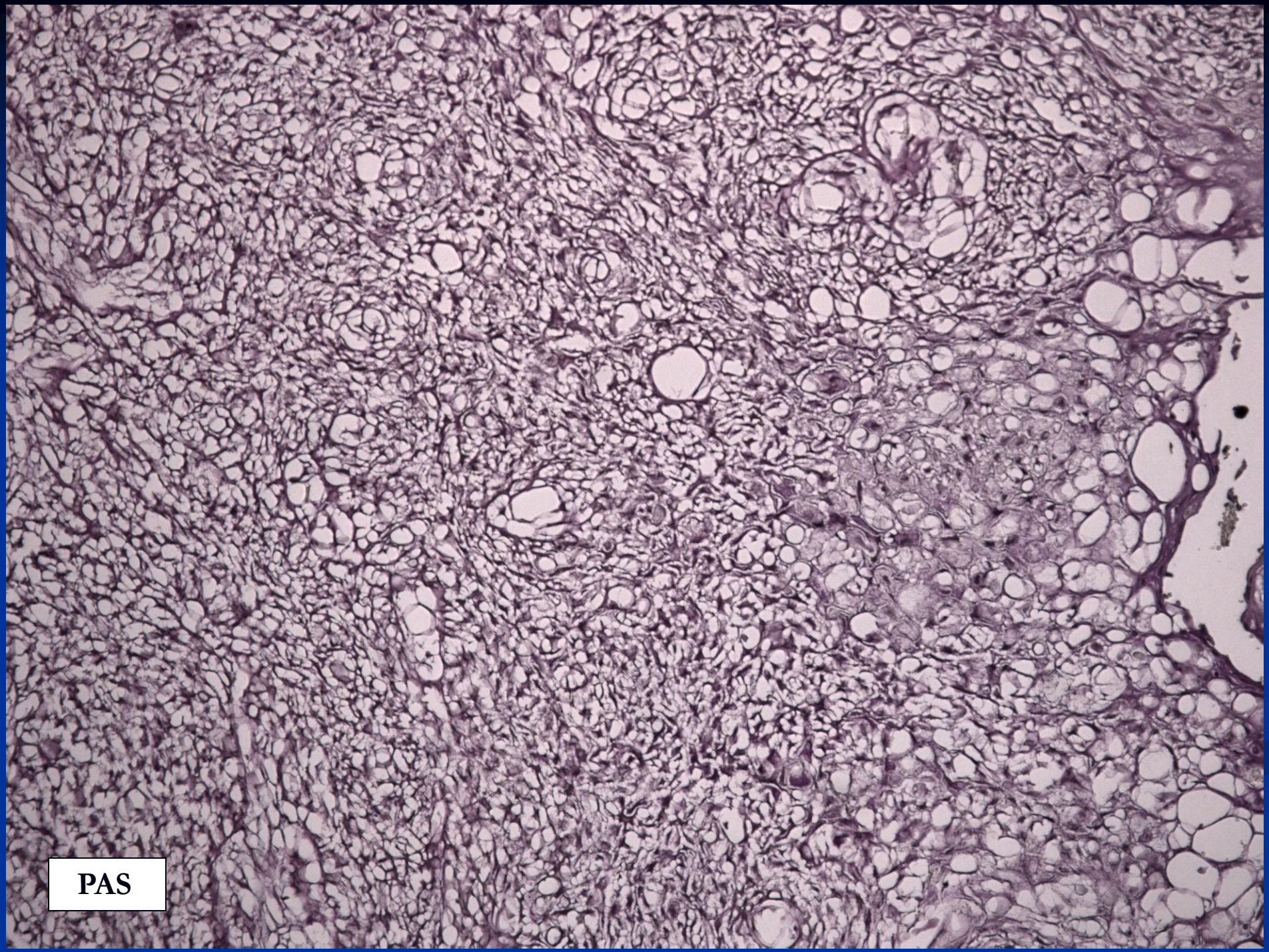
# Histology

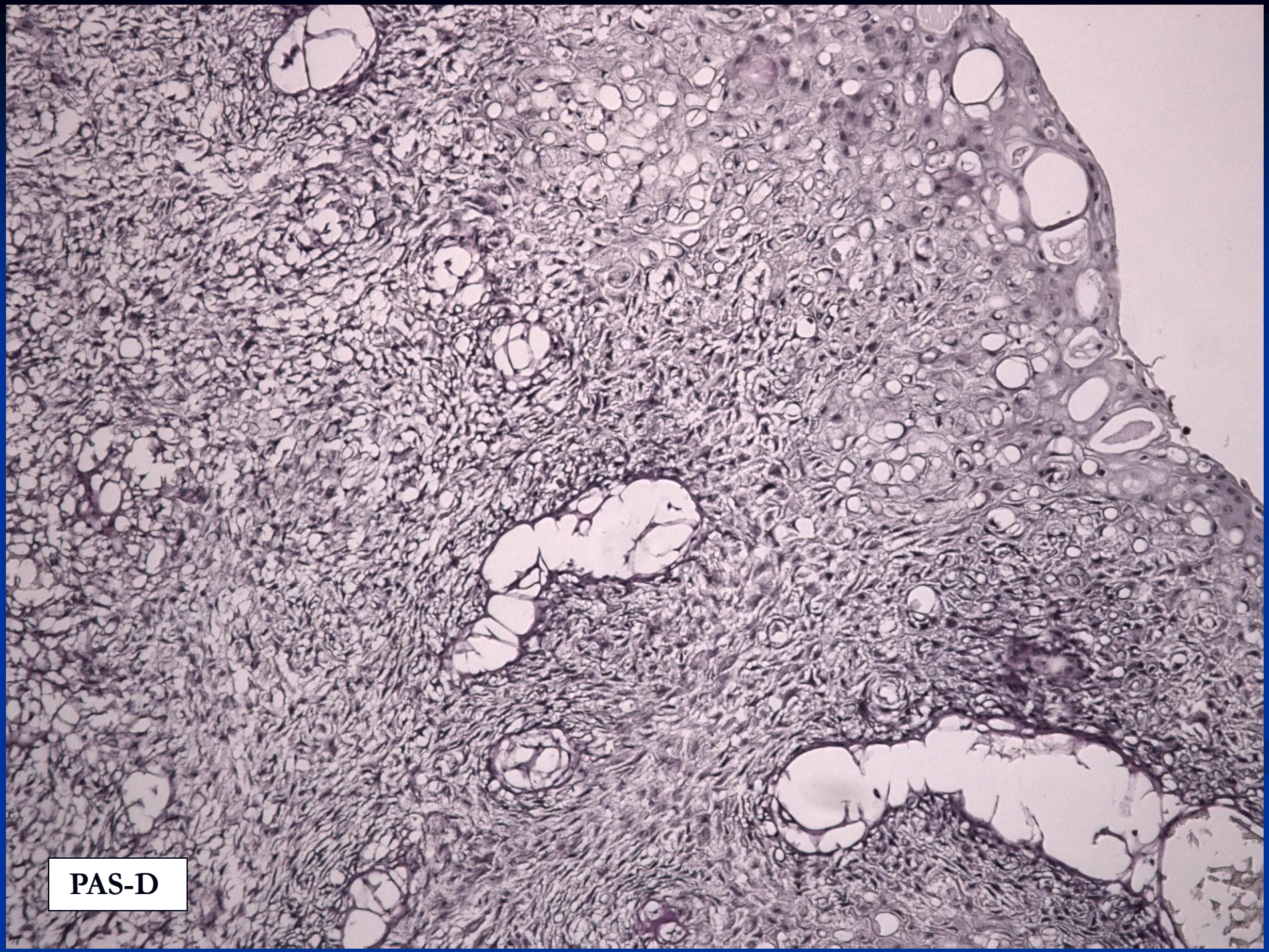
- Proliferation of clear cells, excentric nuclei, infiltrative pattern, atypia
- Artefact
- ? Lipid, mucin, glycogen
- ? Epithelial or melanocitic origin (ballon cell melanoma, sebaceous carcinoma)
- ?Metastatic - unlikely, appeared to be an in situ component

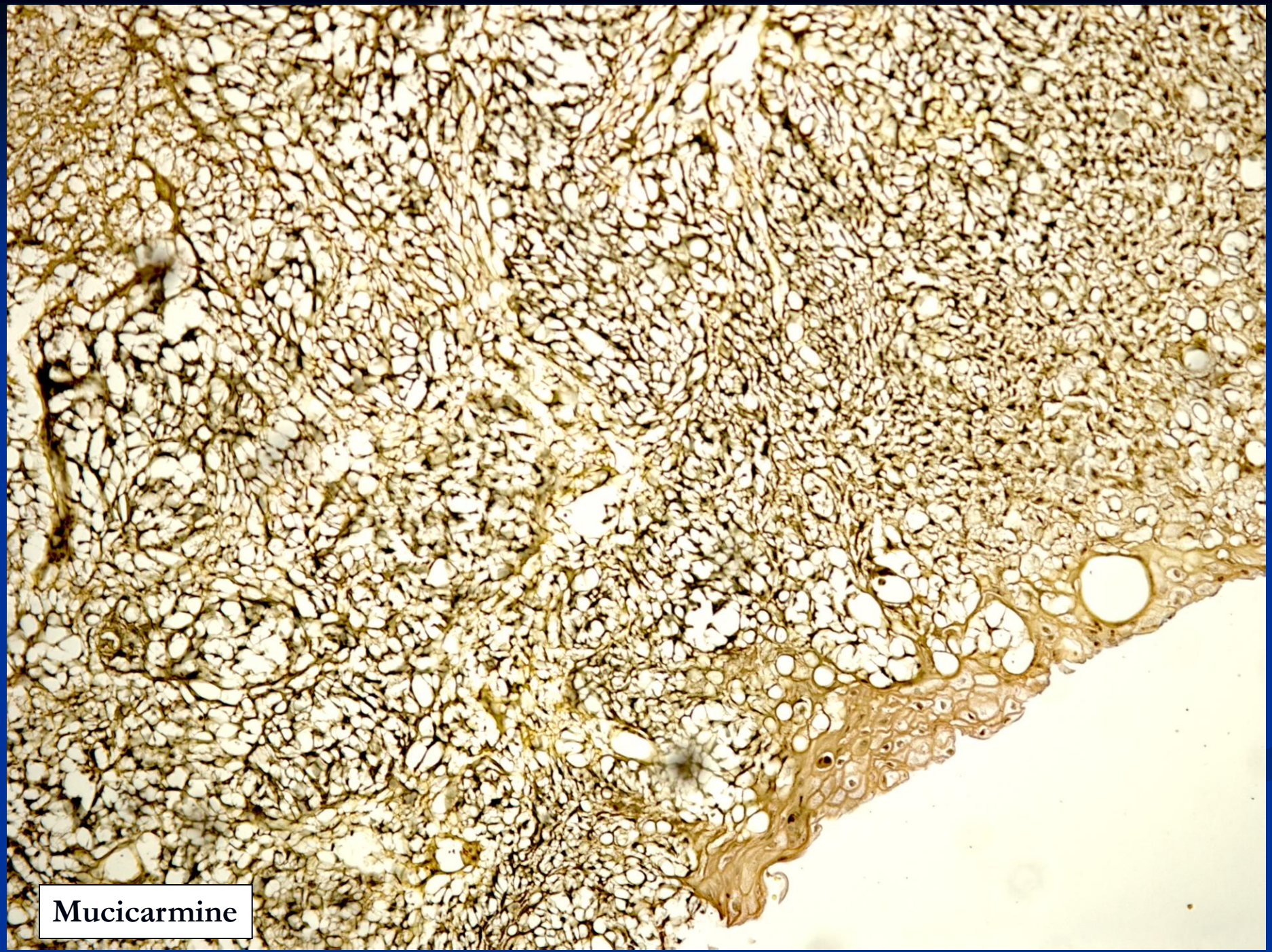
UNIVERSIDAD DE VALLADOLID
ioba Instituto Universitario de Oftalmobiología Aplicada

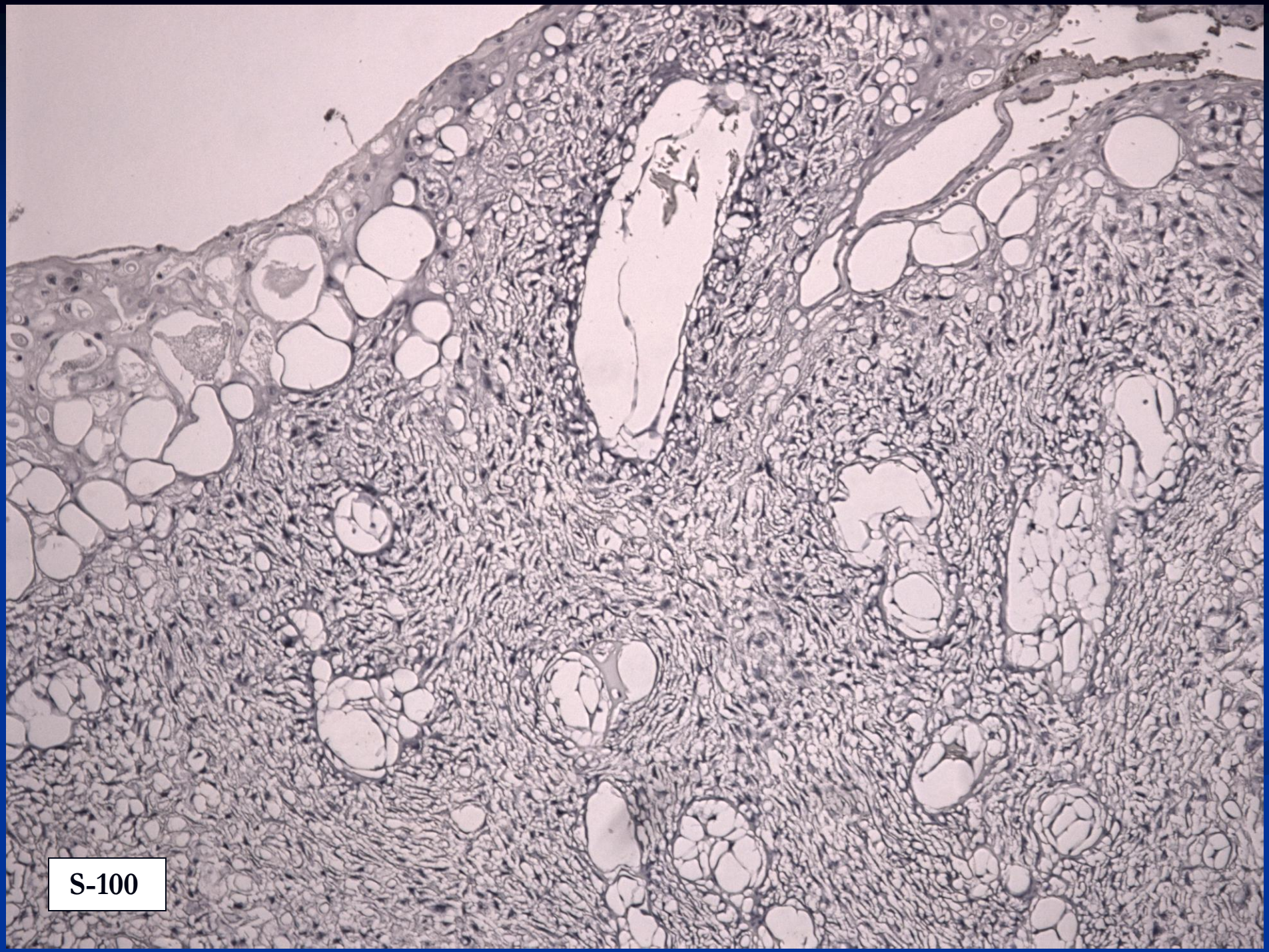
# Immunohistochemistry

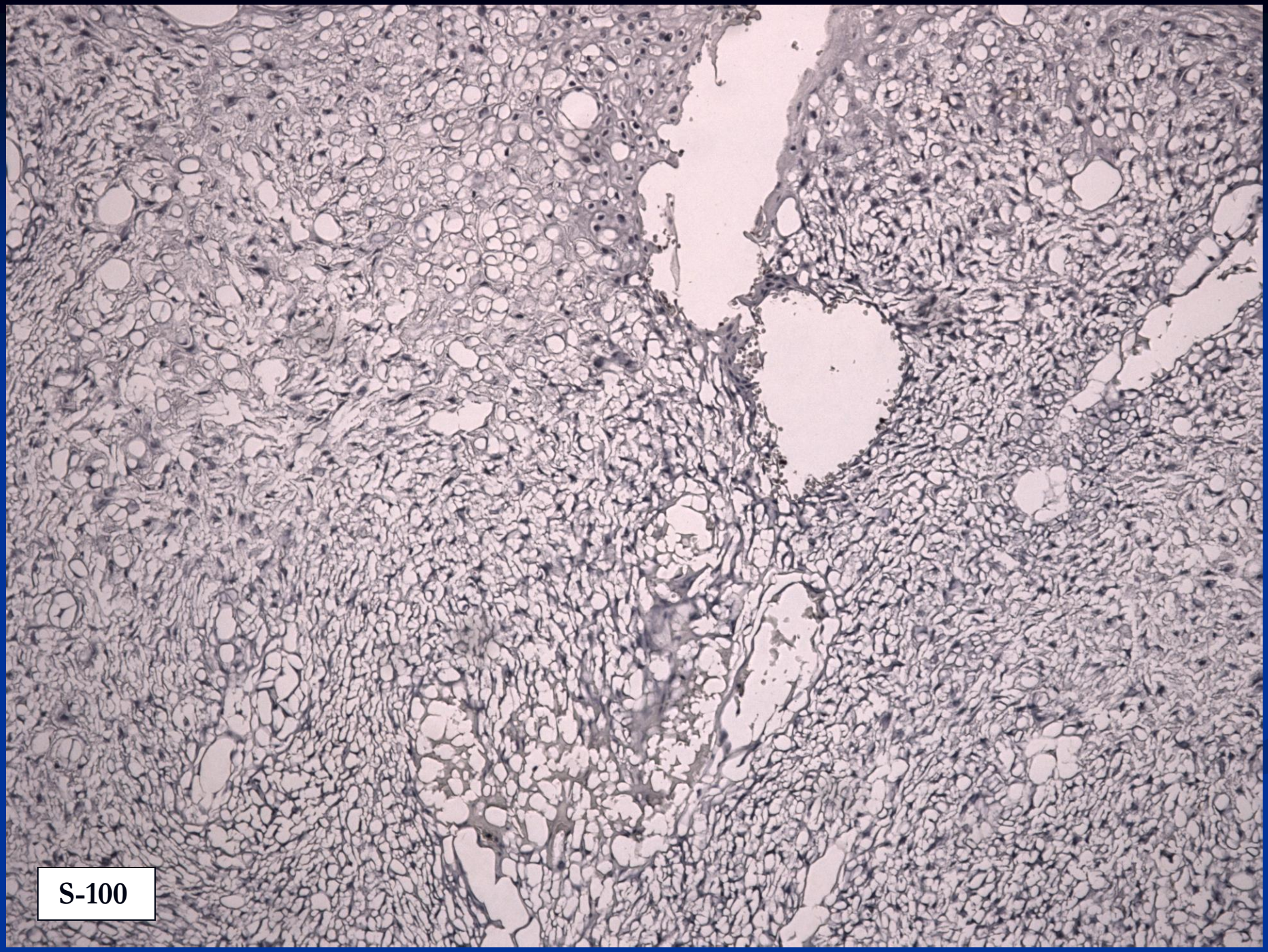
UNIVERSIDAD DE VALLADOLID
ioba
Instituto Universitario de Oftalmobiología Aplicada

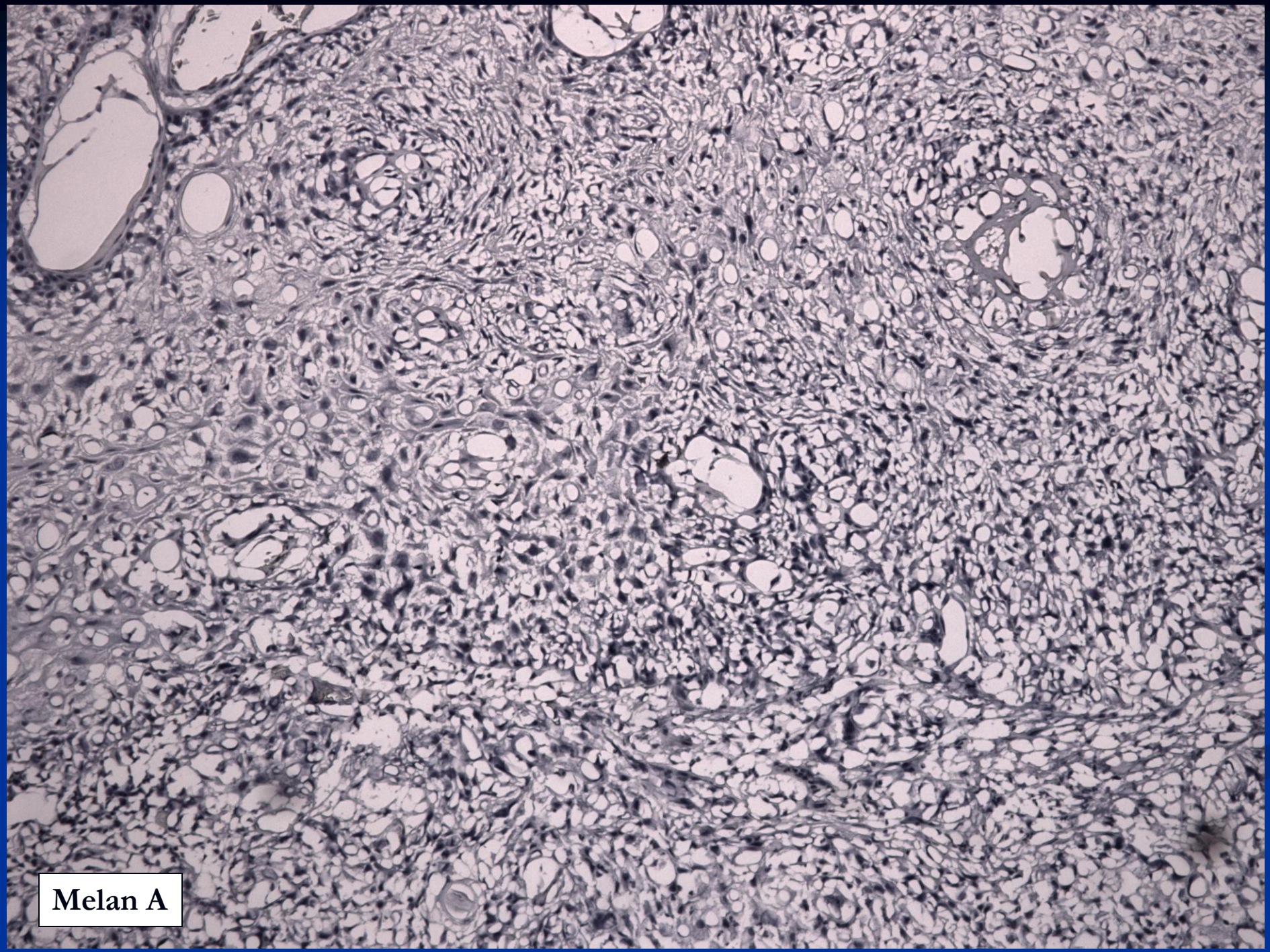

PAS

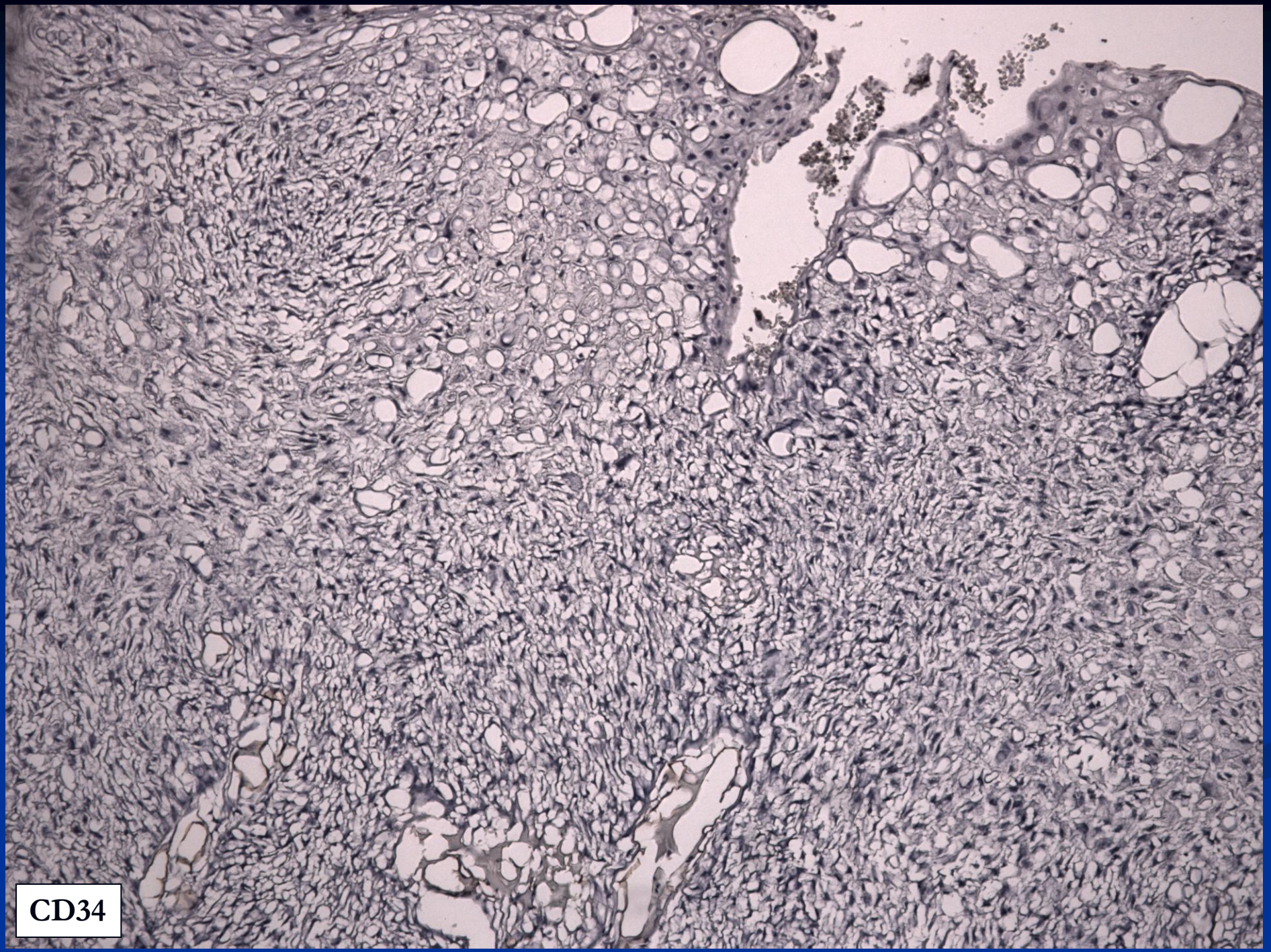

PAS-D

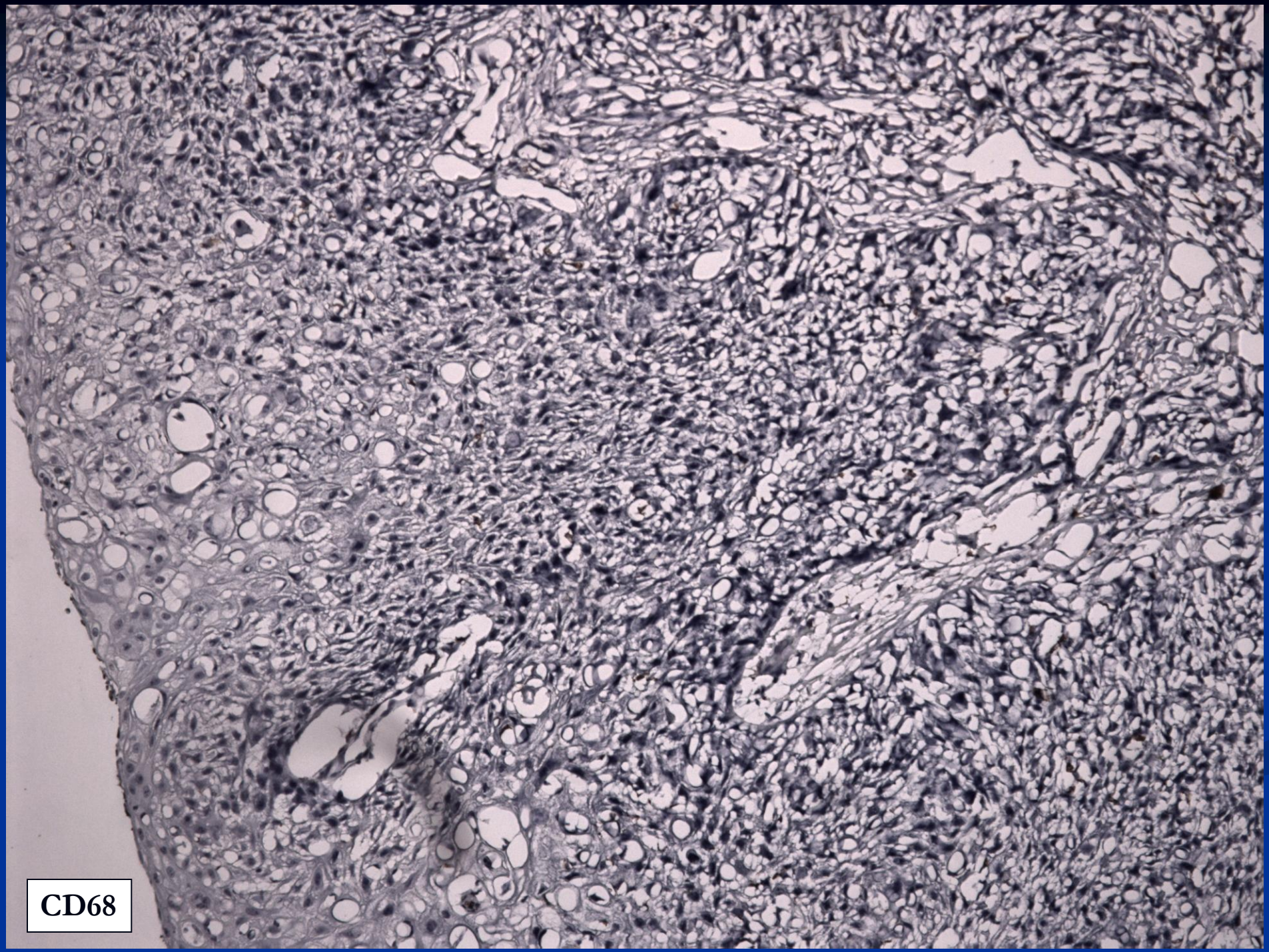

Mucicarmine

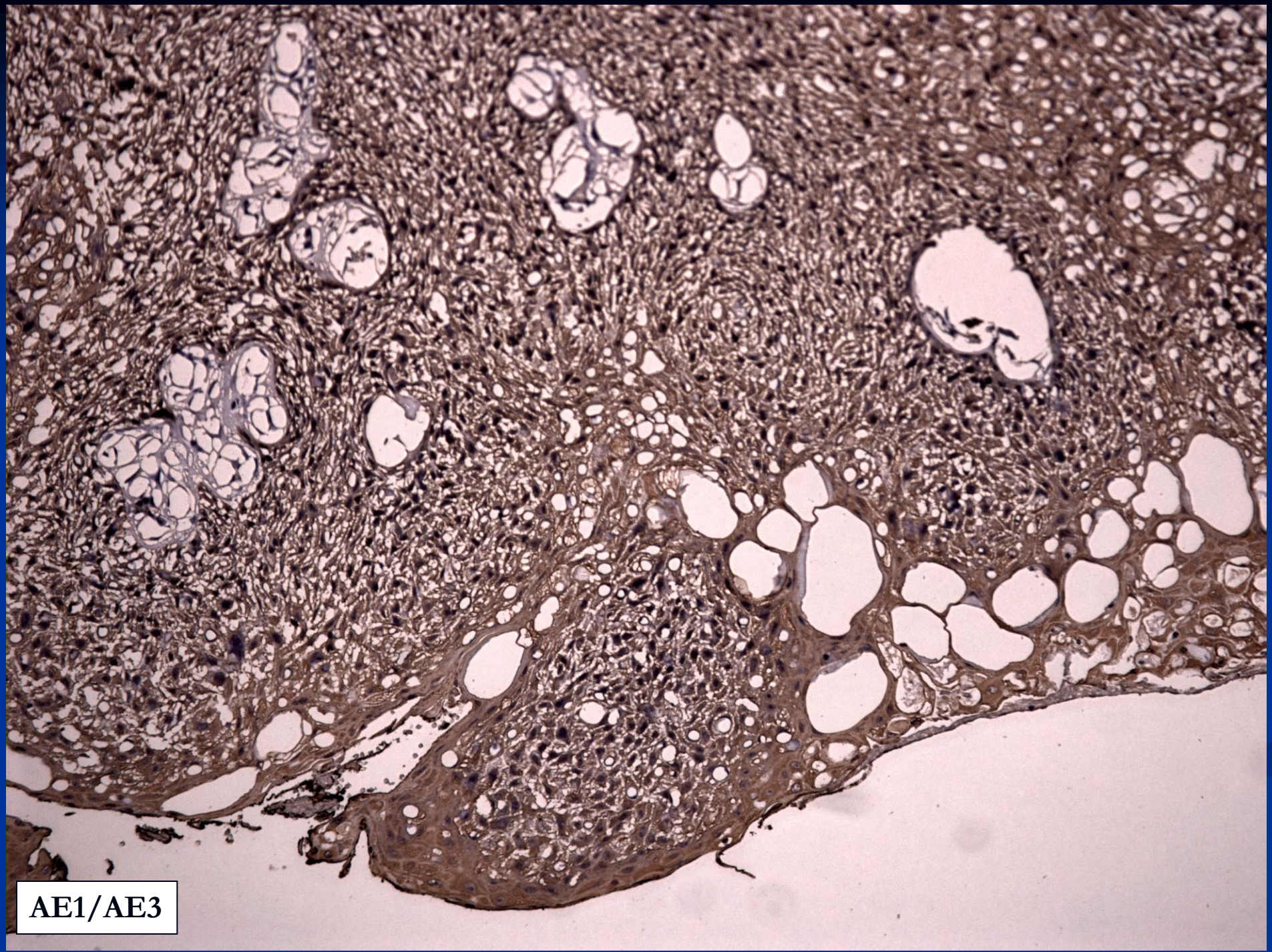

S-100

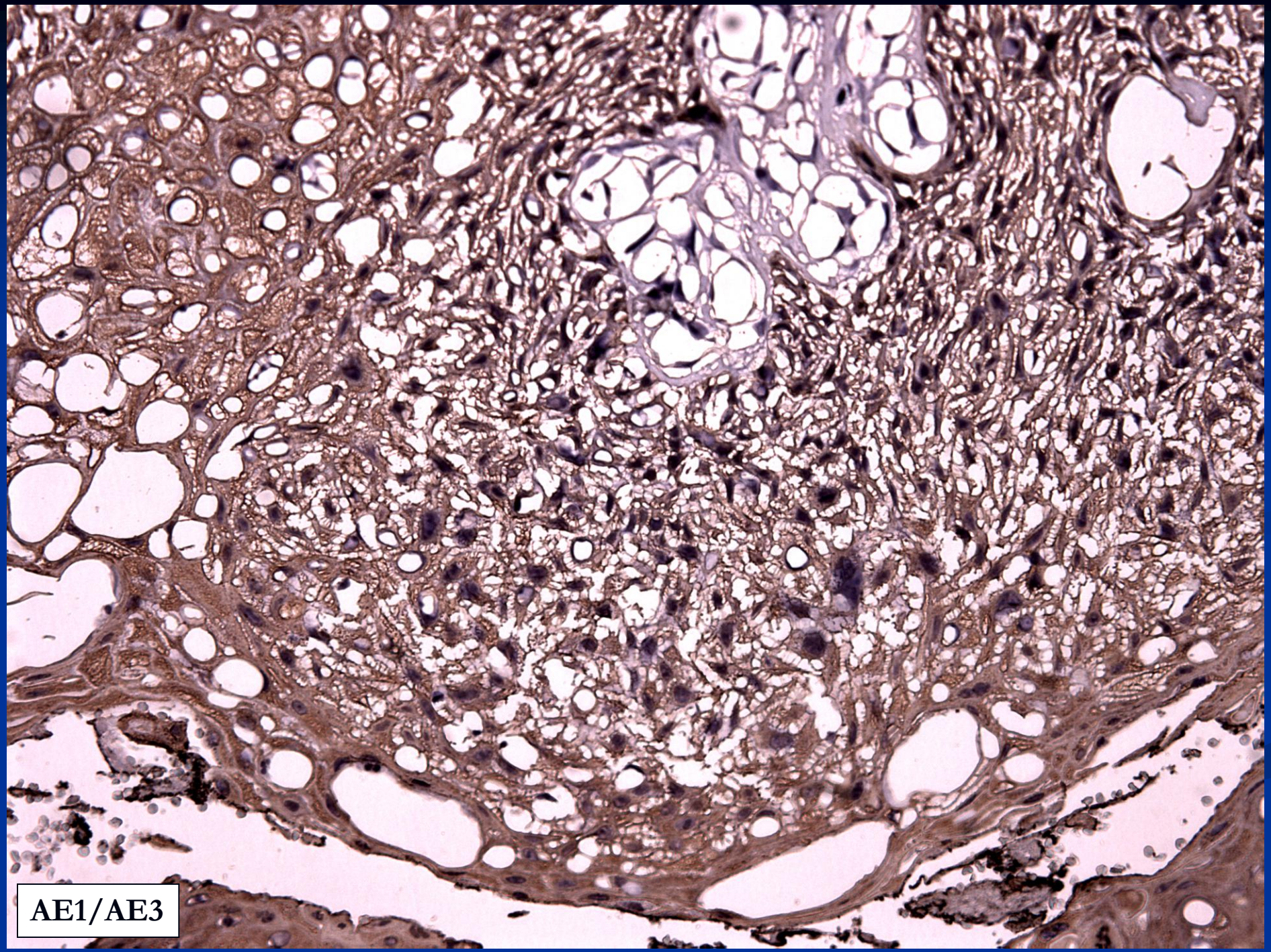

S-100


Melan A


CD34


CD68


AE1/AE3


AE1/AE3

# Diagnosis

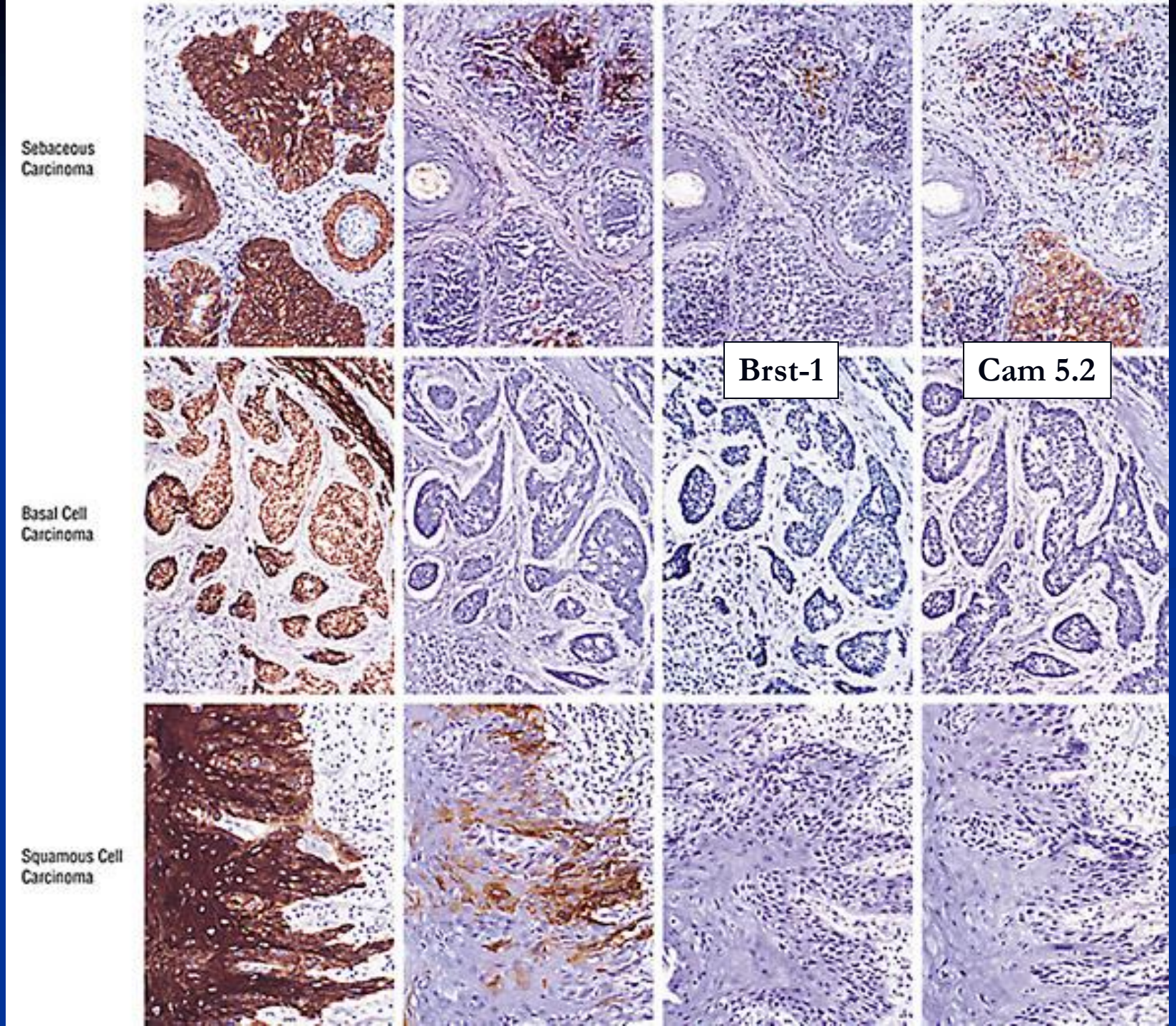
- Carcinoma

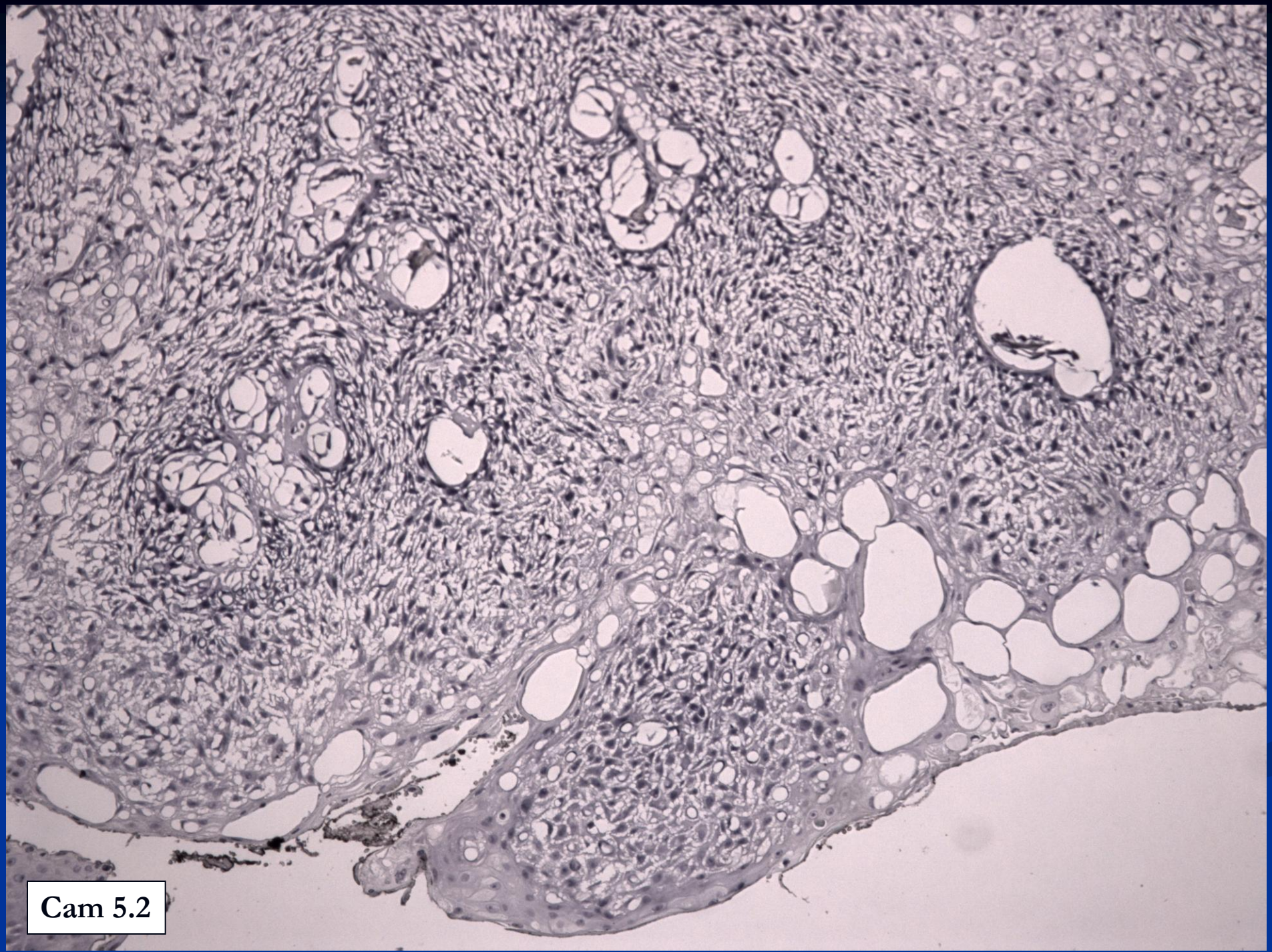
UNIVERSIDAD DE VALLADOLID
ioba
Instituto Universitario de Oftalmobiología Aplicada

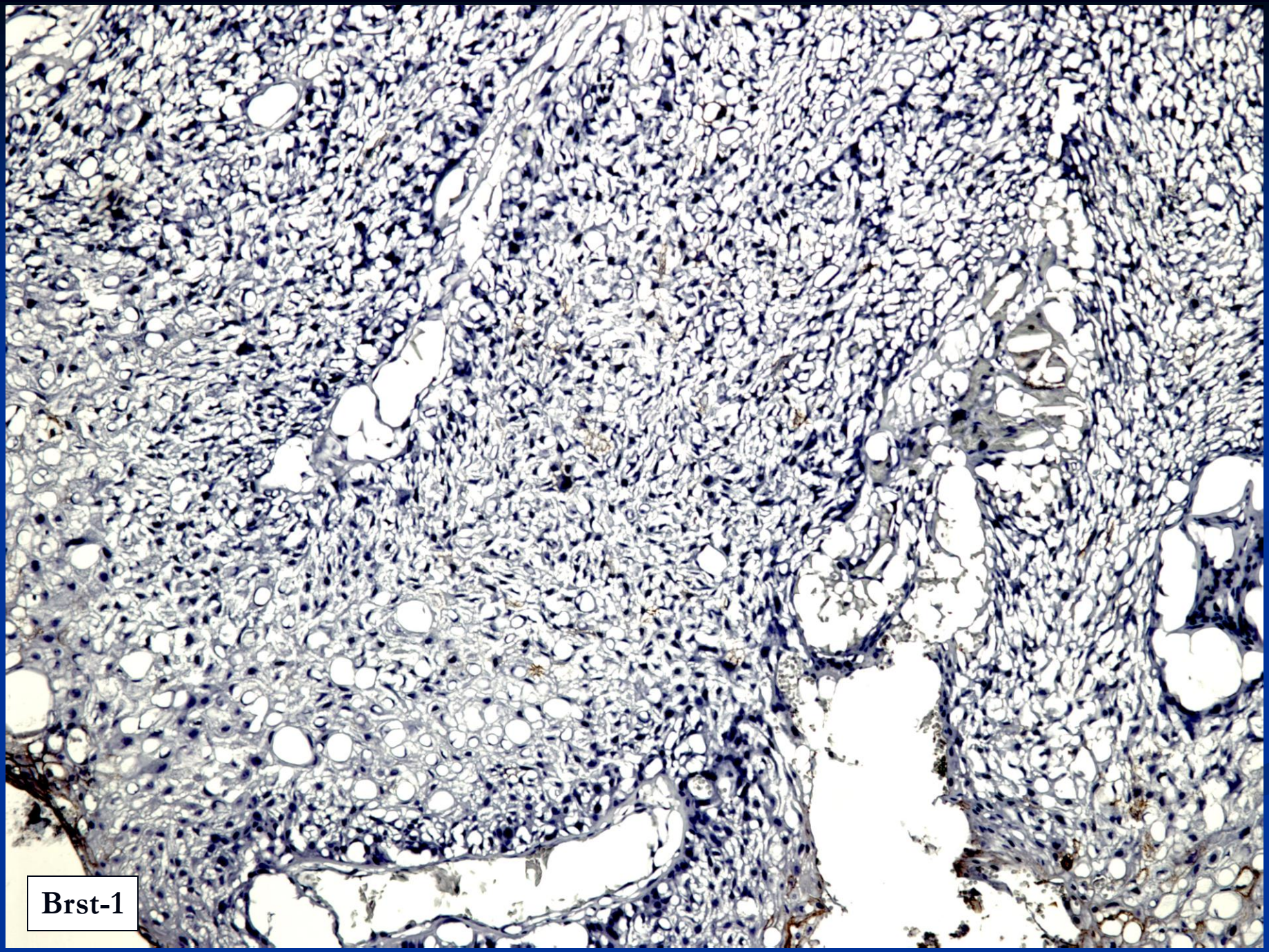
**Sinard JH. Immunohistochemical distinction of ocular sebaceous carcinoma from basal cell and squamous cell carcinoma. Arch Ophthalmol. 1999 Jun;117(6):776-83**

- Sebaceous Carcinoma
  - Cam 5.2 focally positive
  - Brst-1 focally positive
- Squamous Cell Carcinoma
  - Cam 5.2 negative
  - Brst-1 negative

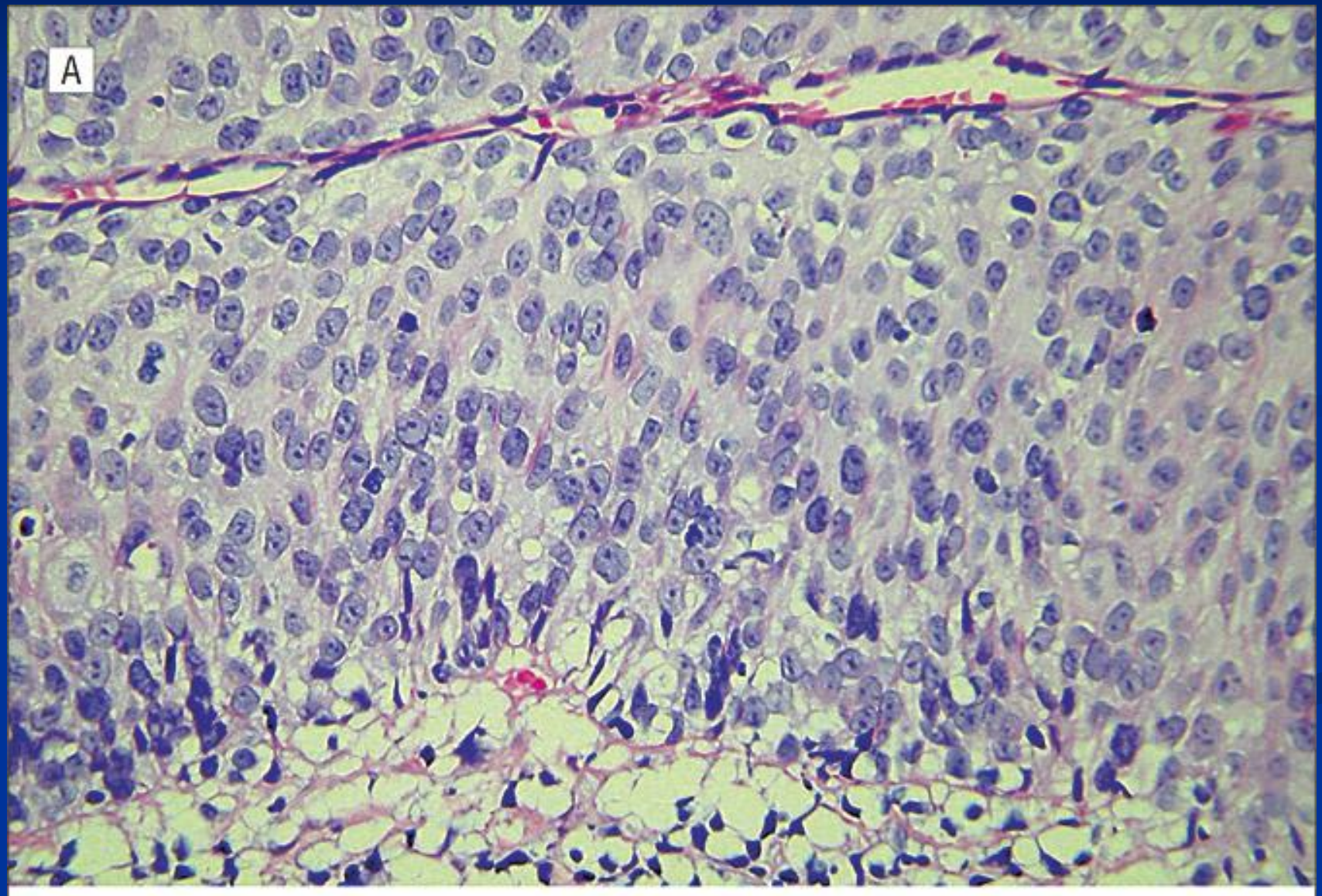
UNIVERSIDAD DE VALLADOLID
ioba Instituto Universitario de Oftalmobiología Aplicada

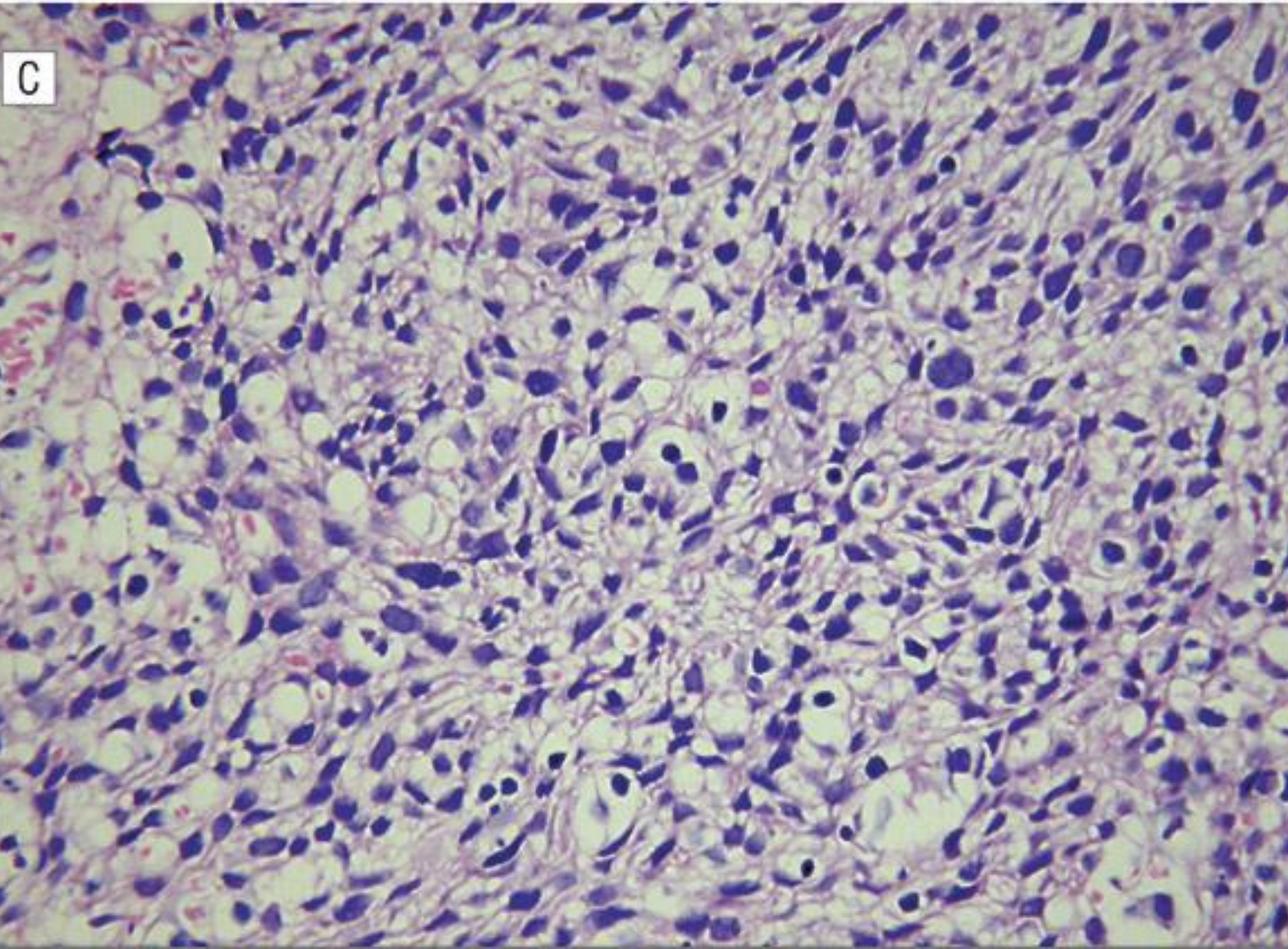

Sebaceous Carcinoma
Basal Cell Carcinoma
Squamous Cell Carcinoma
Brst-1
Cam 5.2

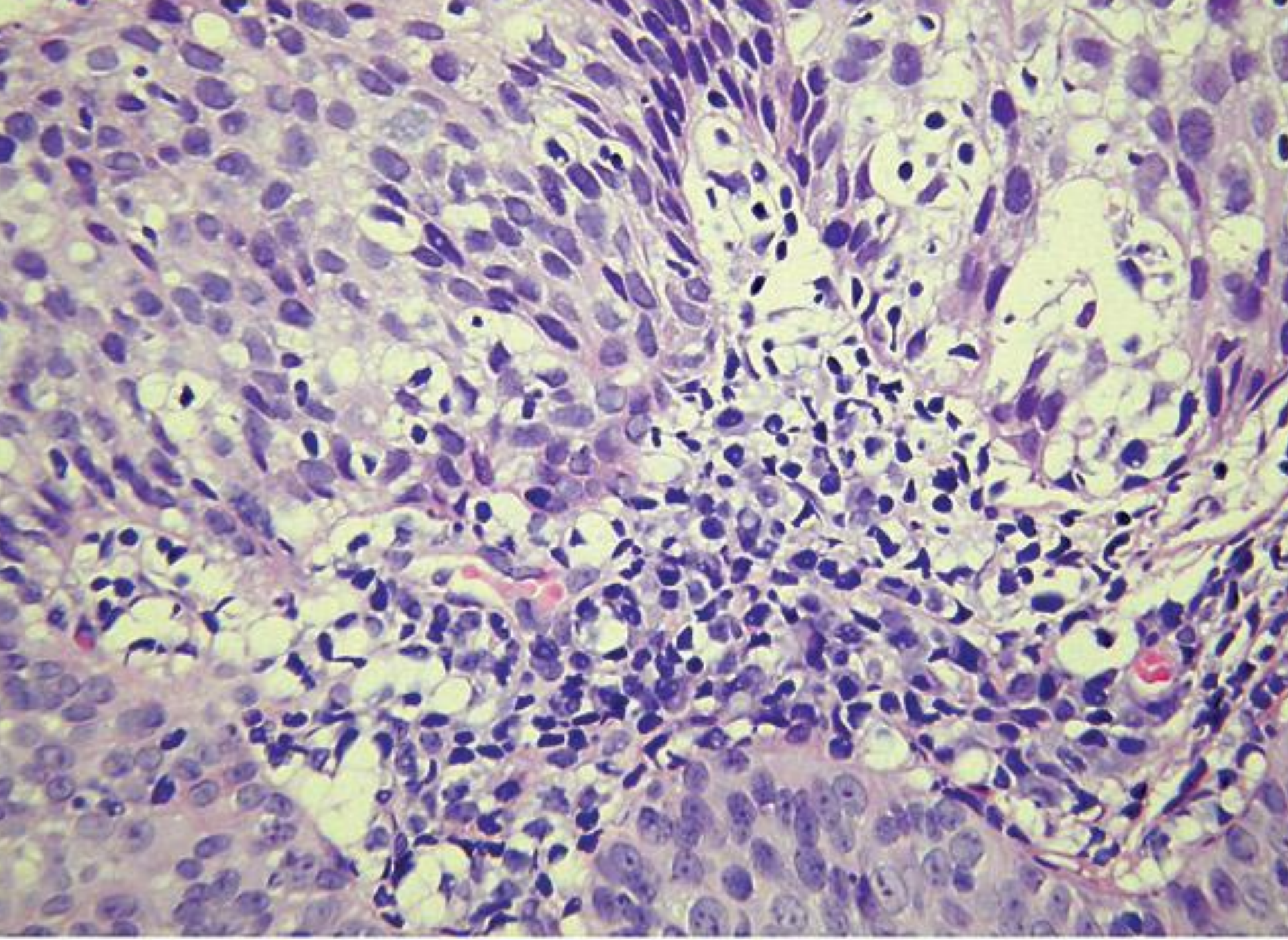

Cam 5.2


Brst-1

# Clear Cell Carcinoma of Conjunctiva. Margo, C. E. et al. *Arch Ophthalmol* 2008;126:436-43




C



# Diagnosis

- ? Carcinoma with Clear Cell Features

UNIVERSIDAD DE VALLADOLID
ioba
Instituto Universitario de Oftalmobiología Aplicada

# Thank you!

UNIVERSIDAD DE VALLADOLID

ioba
Instituto Universitario de Oftalmobiología Aplicada