

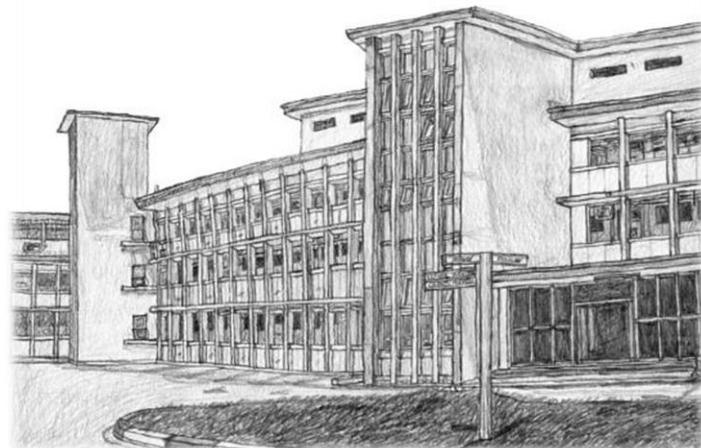


## Case 20

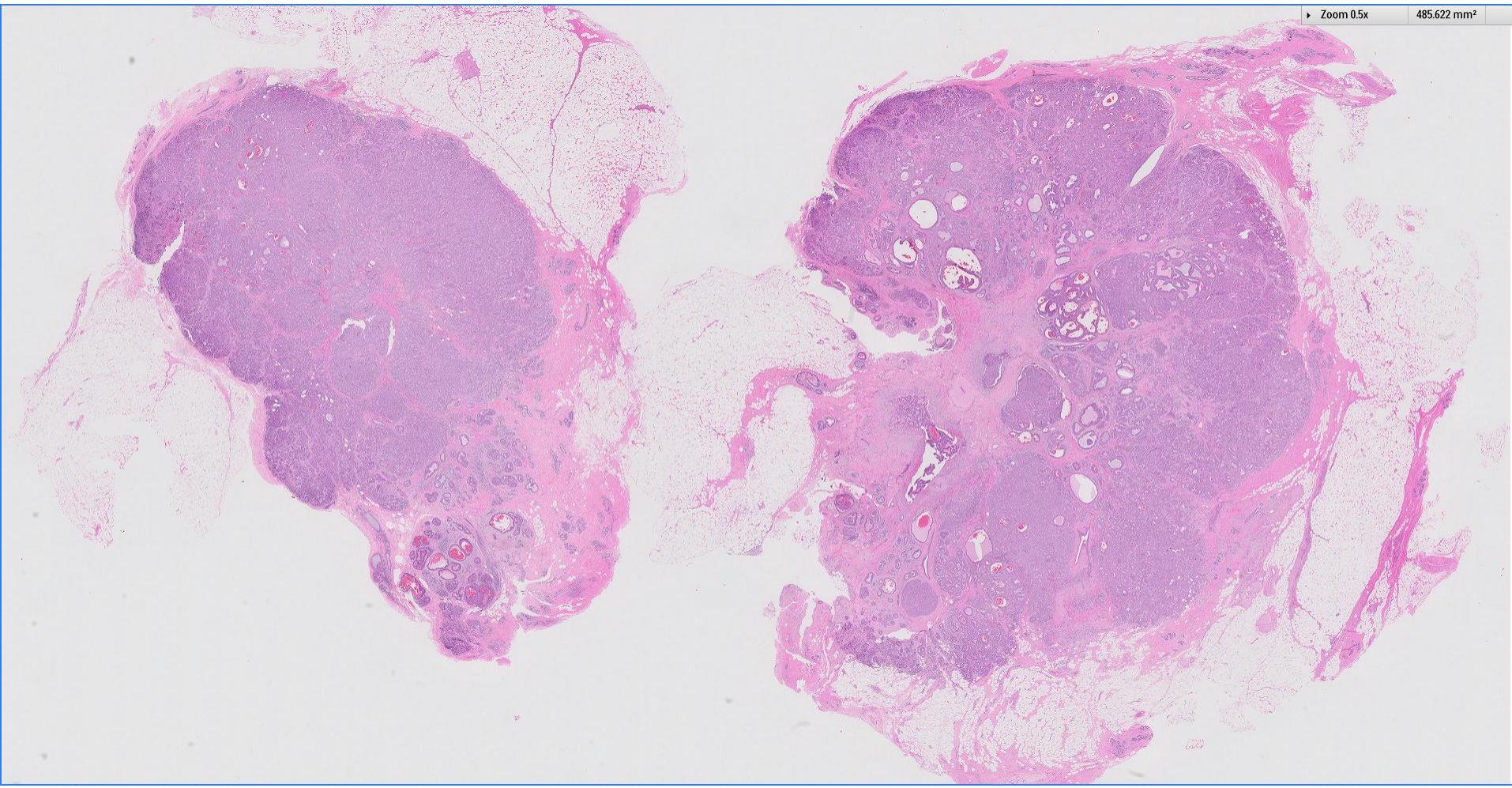
45 year old female.

Right breast hard mass in the nipple-areolar region, 2cm.

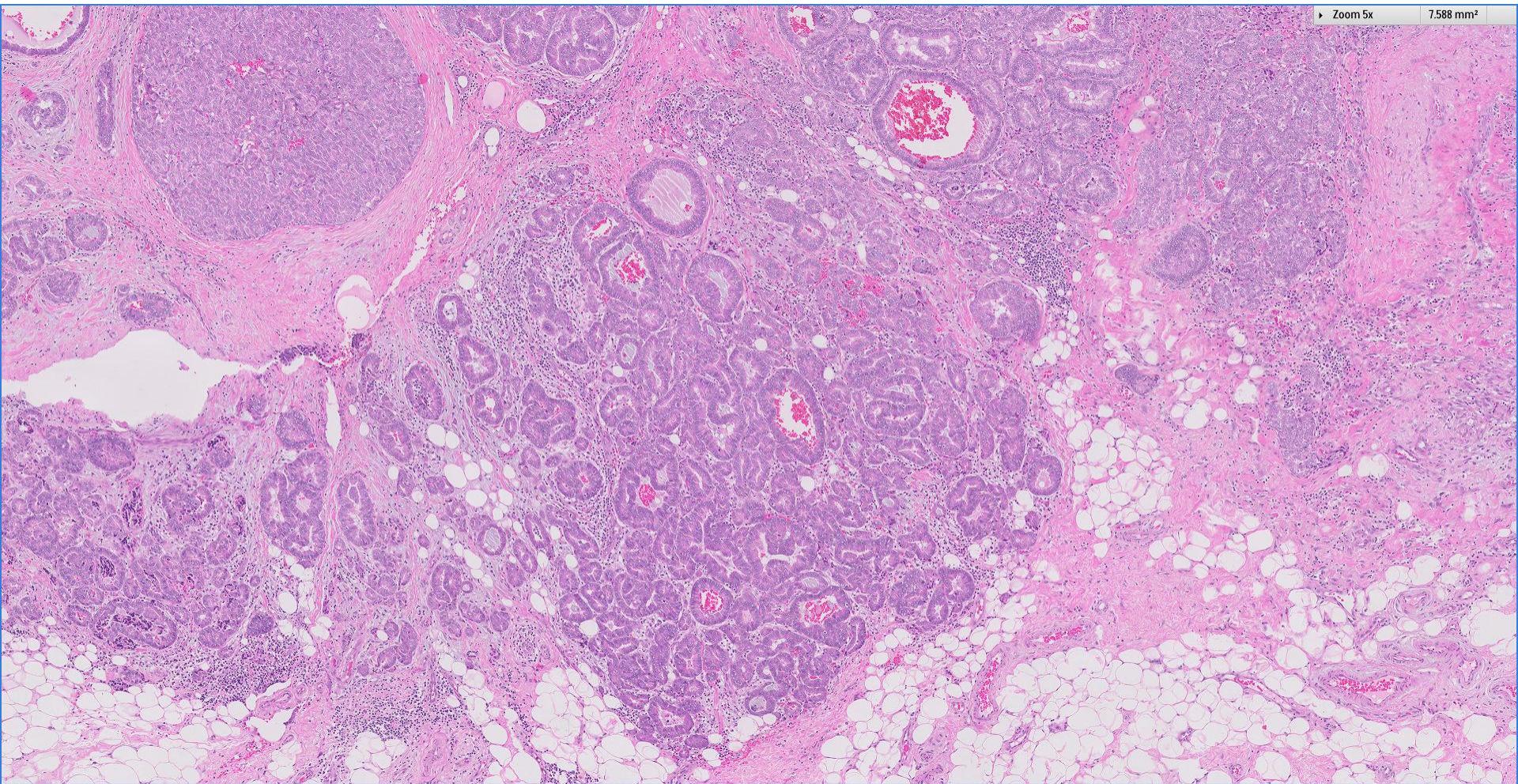
*Case contributed by Dr Lu Kim, Vietnam*

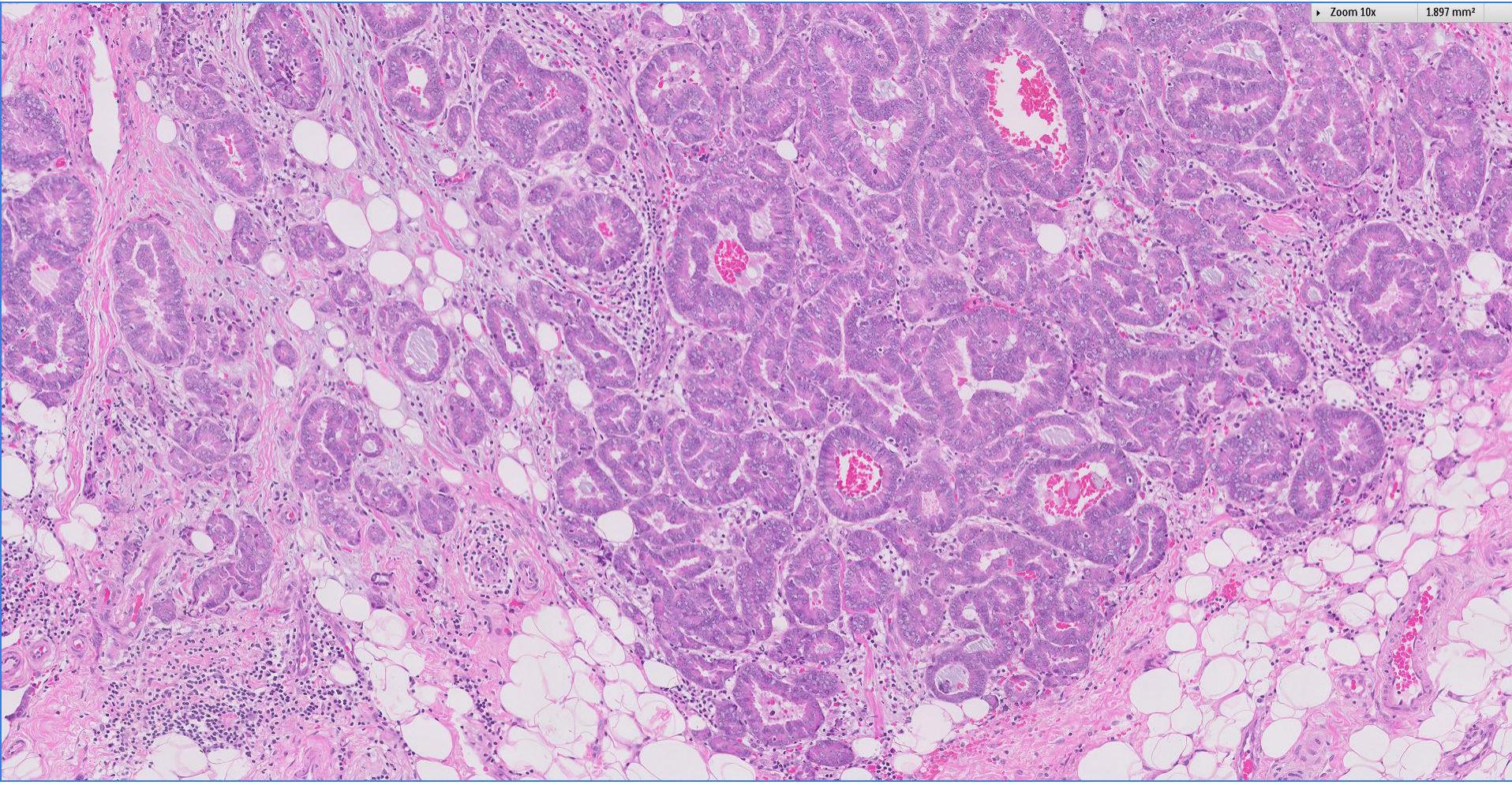


▶ Zoom 0.5x 485.622 mm<sup>2</sup>

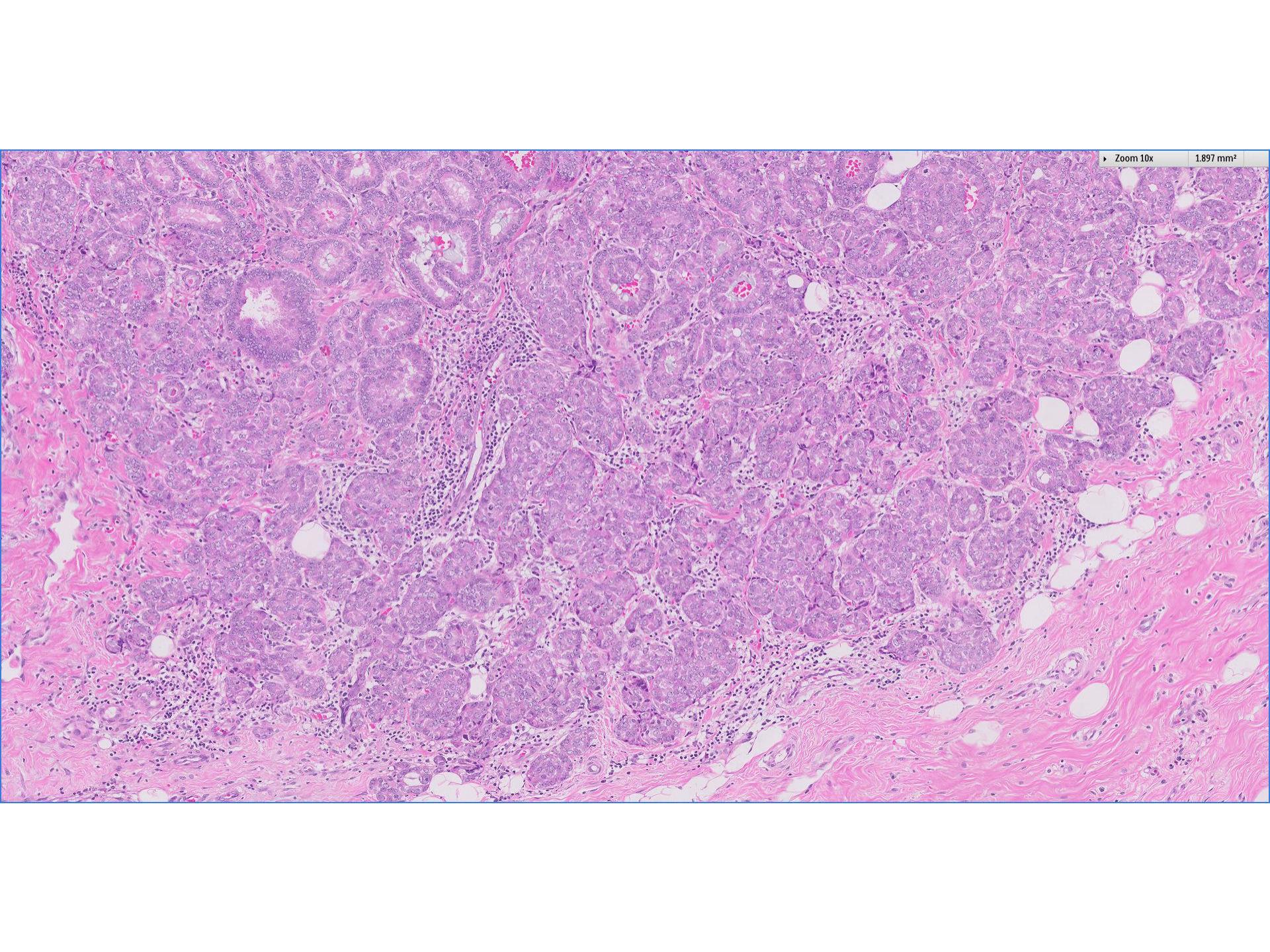


▶ Zoom 5x 7.588 mm<sup>2</sup>



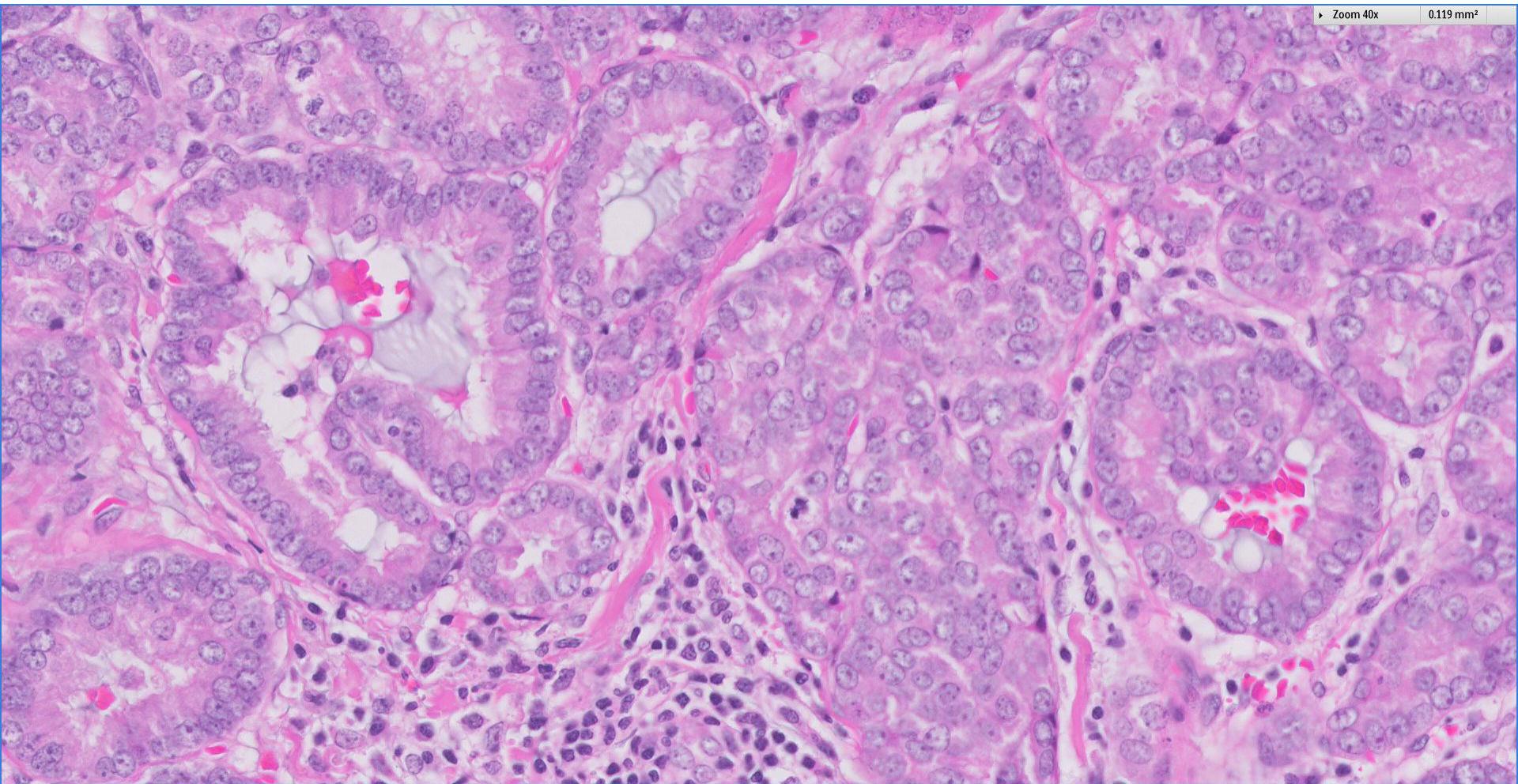


▶ Zoom 10x 1.897 mm<sup>2</sup>



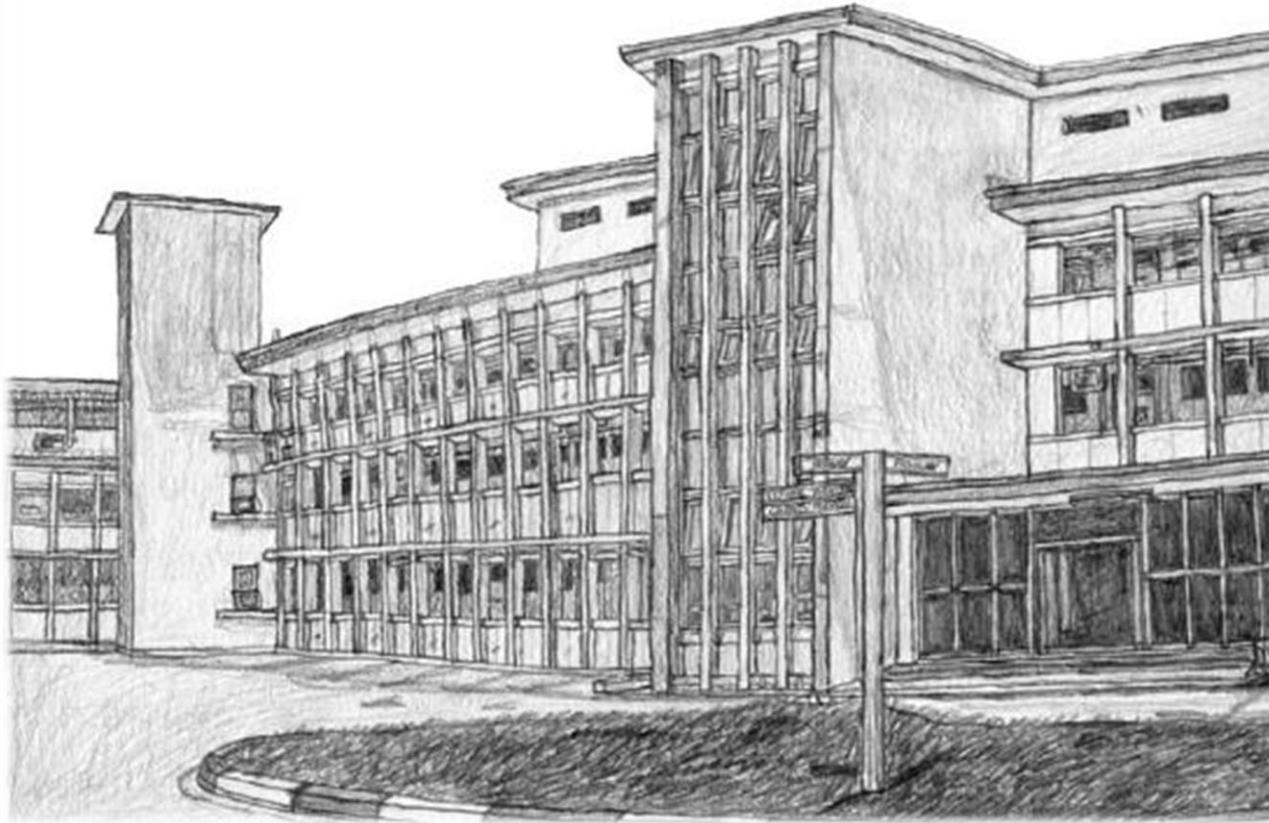
▶ Zoom 40x

0.119 mm<sup>2</sup>





# Breast Pathology Course 2018



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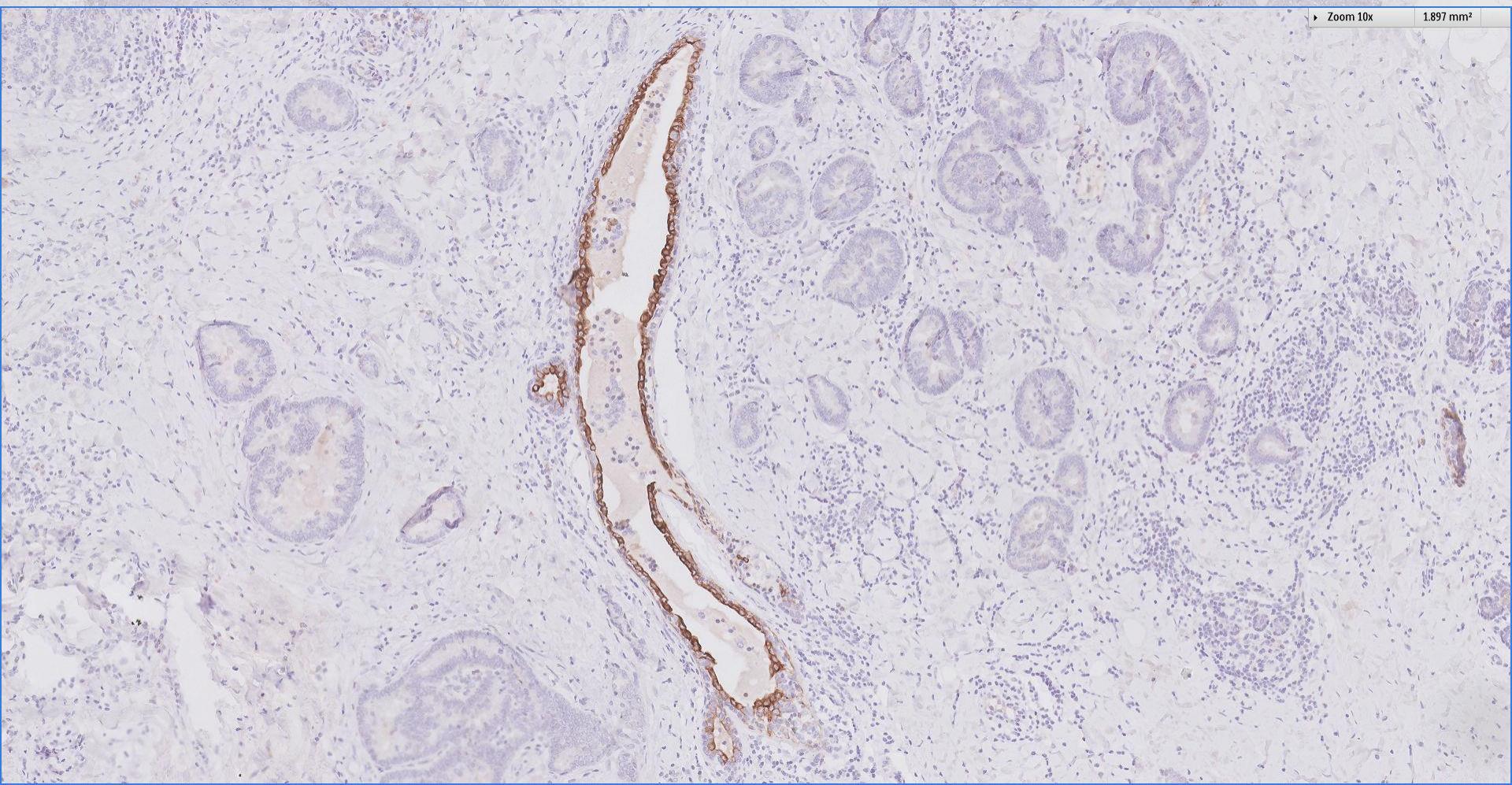
SingHealth **DukeNUS**  
ACADEMIC MEDICAL CENTRE  
**PATHOLOGY**



**IAP**  
International Academy of Pathology  
Singapore Division

CK5/6

▶ Zoom 10x 1.897 mm<sup>2</sup>



CK14

▶ Zoom 0.5x

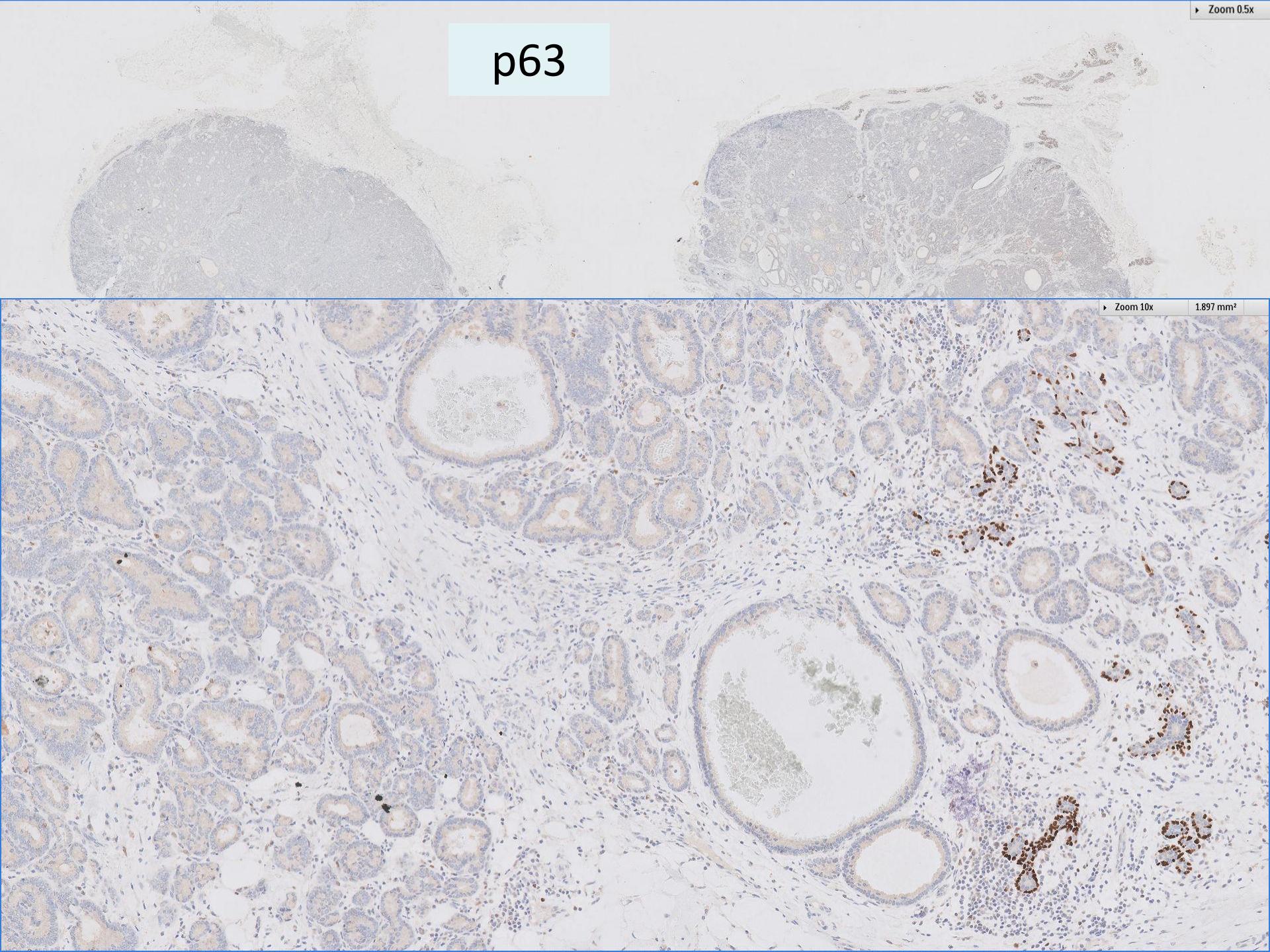
▶ Zoom 5x

7.588 mm<sup>2</sup>

p63

▶ Zoom 10x

1.897 mm<sup>2</sup>



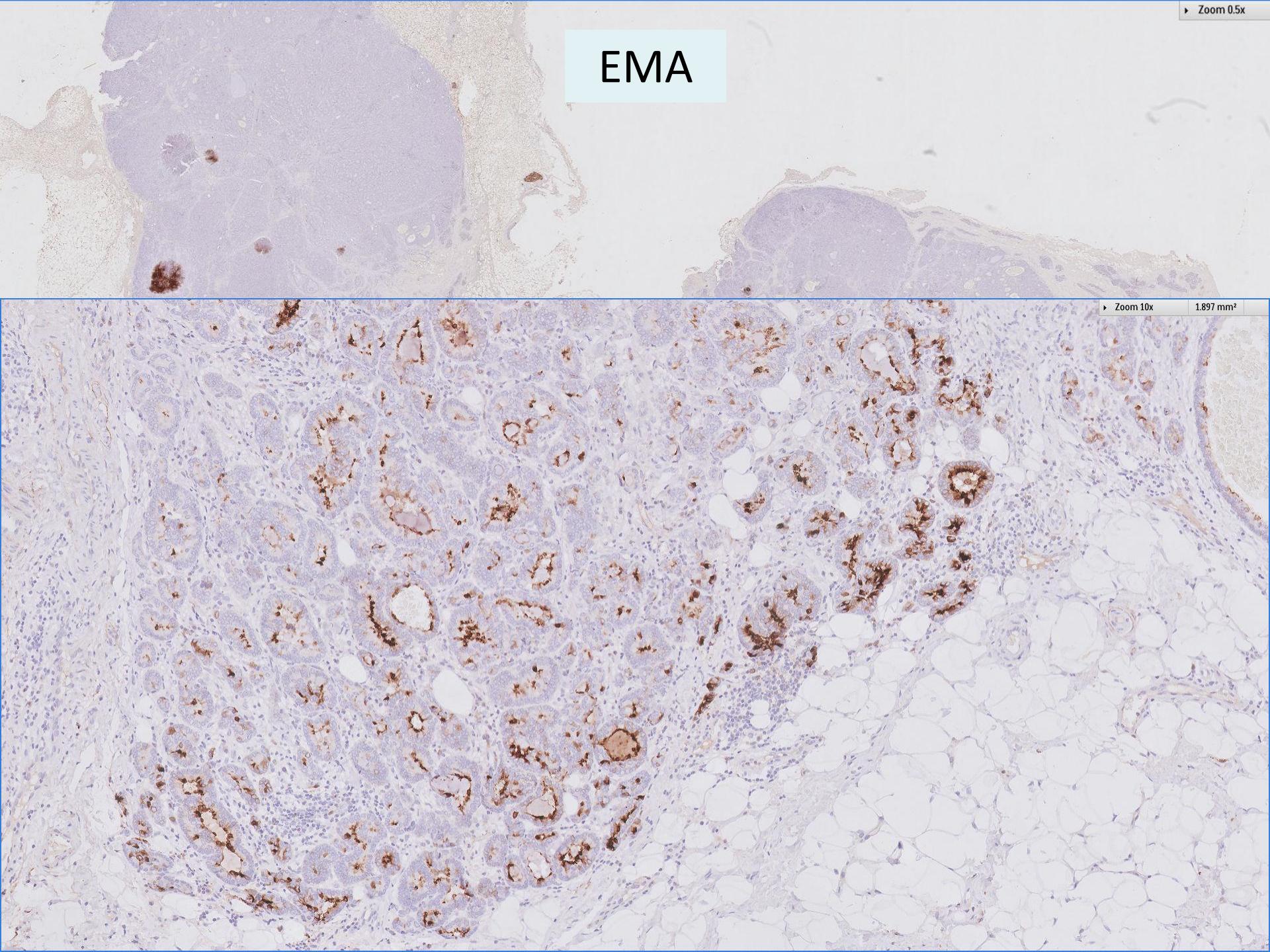
SMMS

▶ Zoom

1.897 mm<sup>2</sup>

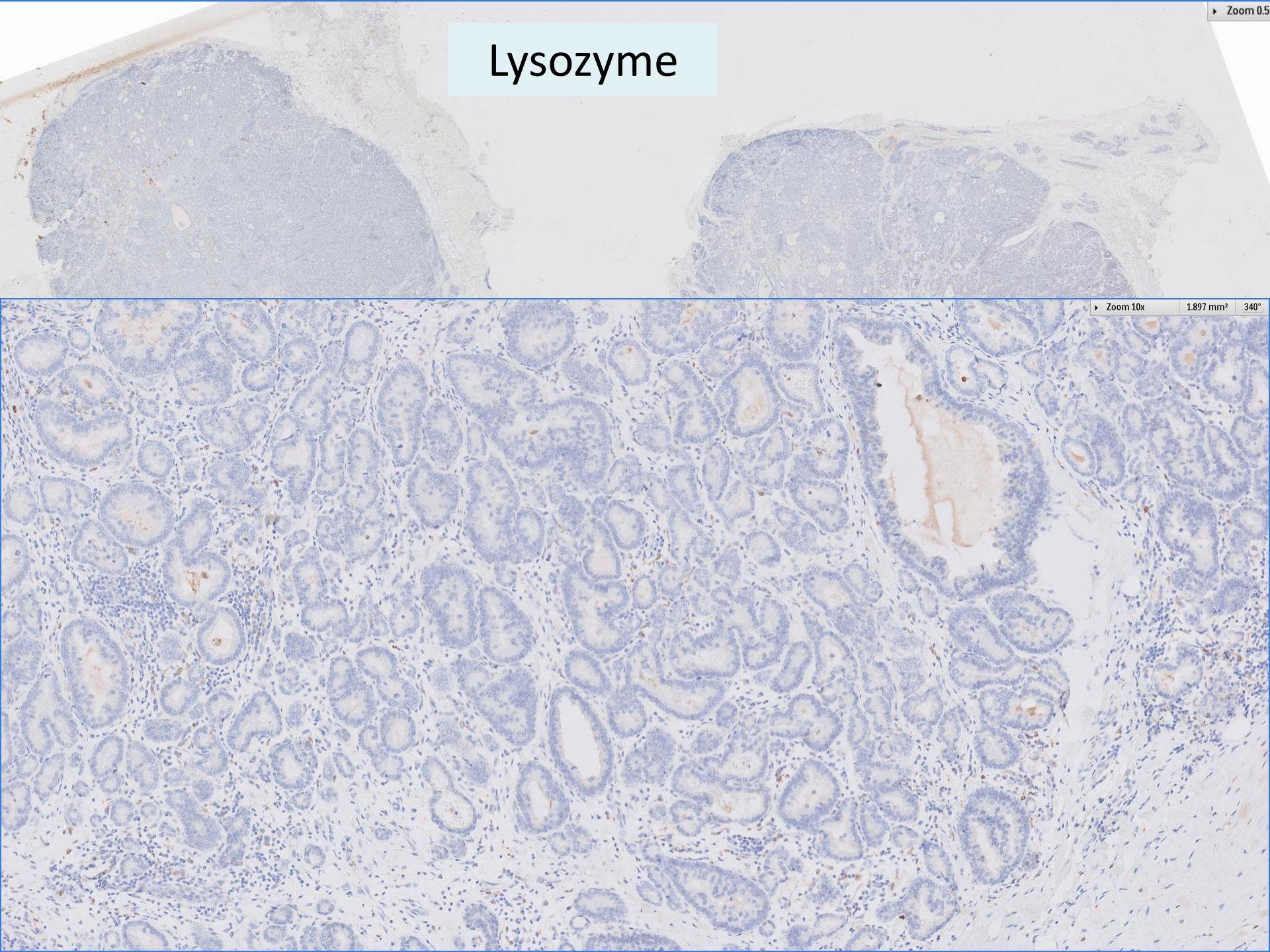
EMA

▶ Zoom 10x

1.897 mm<sup>2</sup>

# Lysozyme

▶ Zoom 10x 1.897 mm<sup>2</sup> 340°



S100

▶ Zoom 0.5x

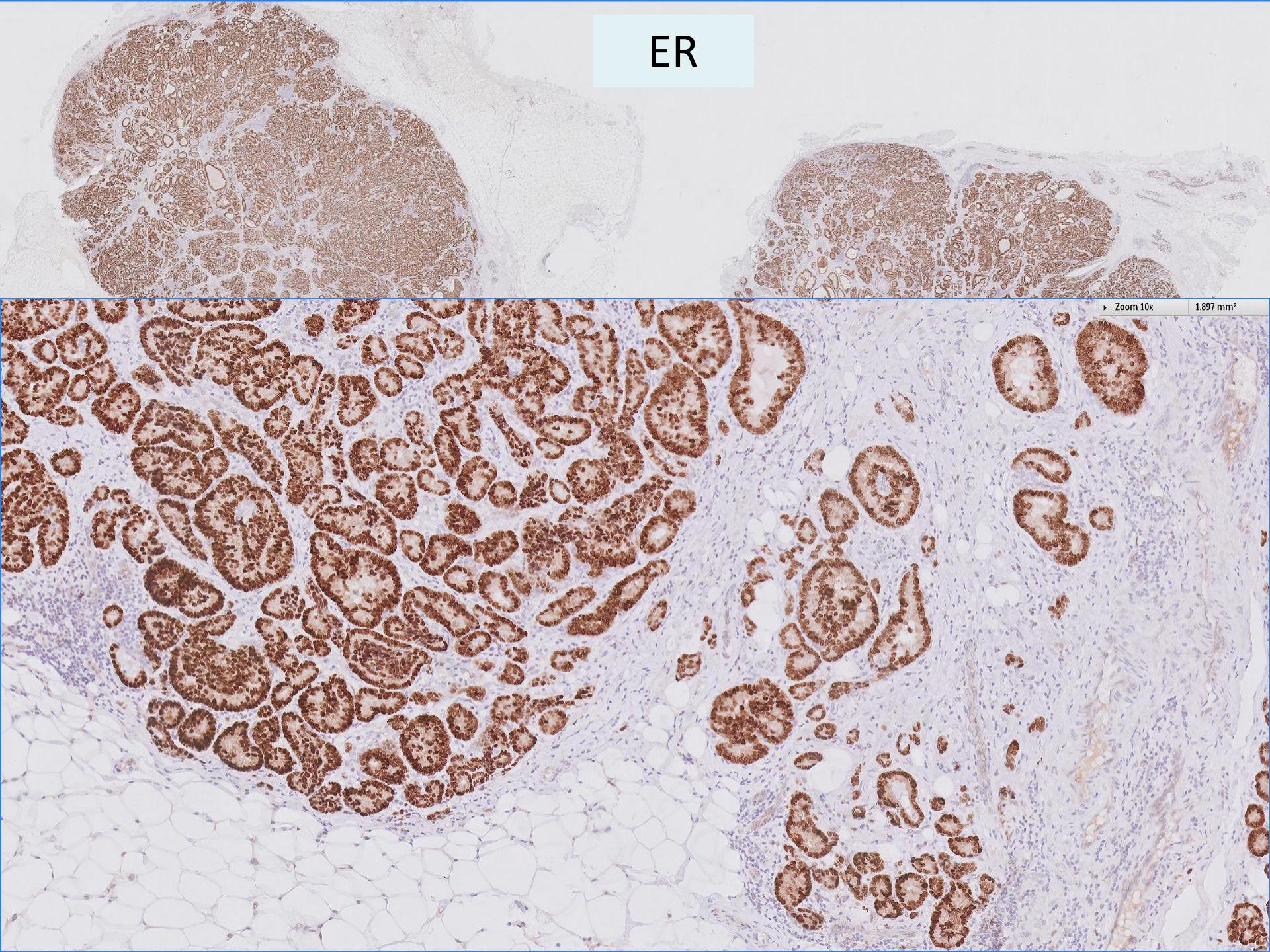
▶ Zoom 10x

1.897 mm<sup>2</sup>

ER

▶ Zoom 10x

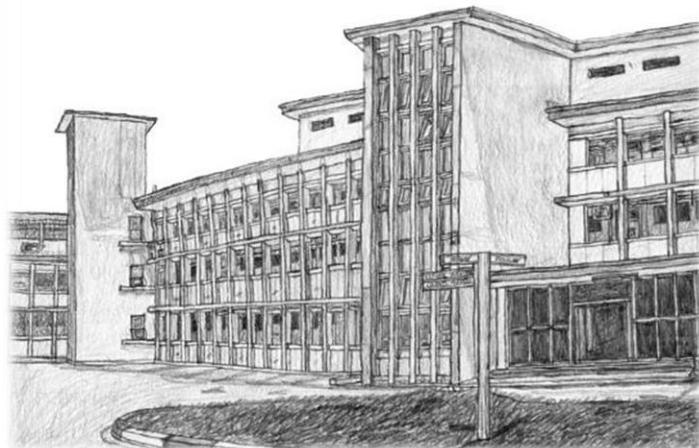
1.897 mm<sup>2</sup>





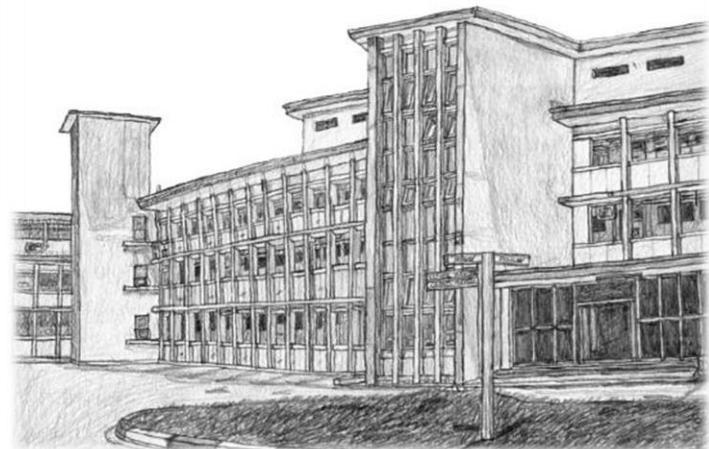
# Diagnosis

Invasive ductal carcinoma, grade 1  
*(tubule score 1, nuclear pleomorphism score 2, mitotic score 2)*



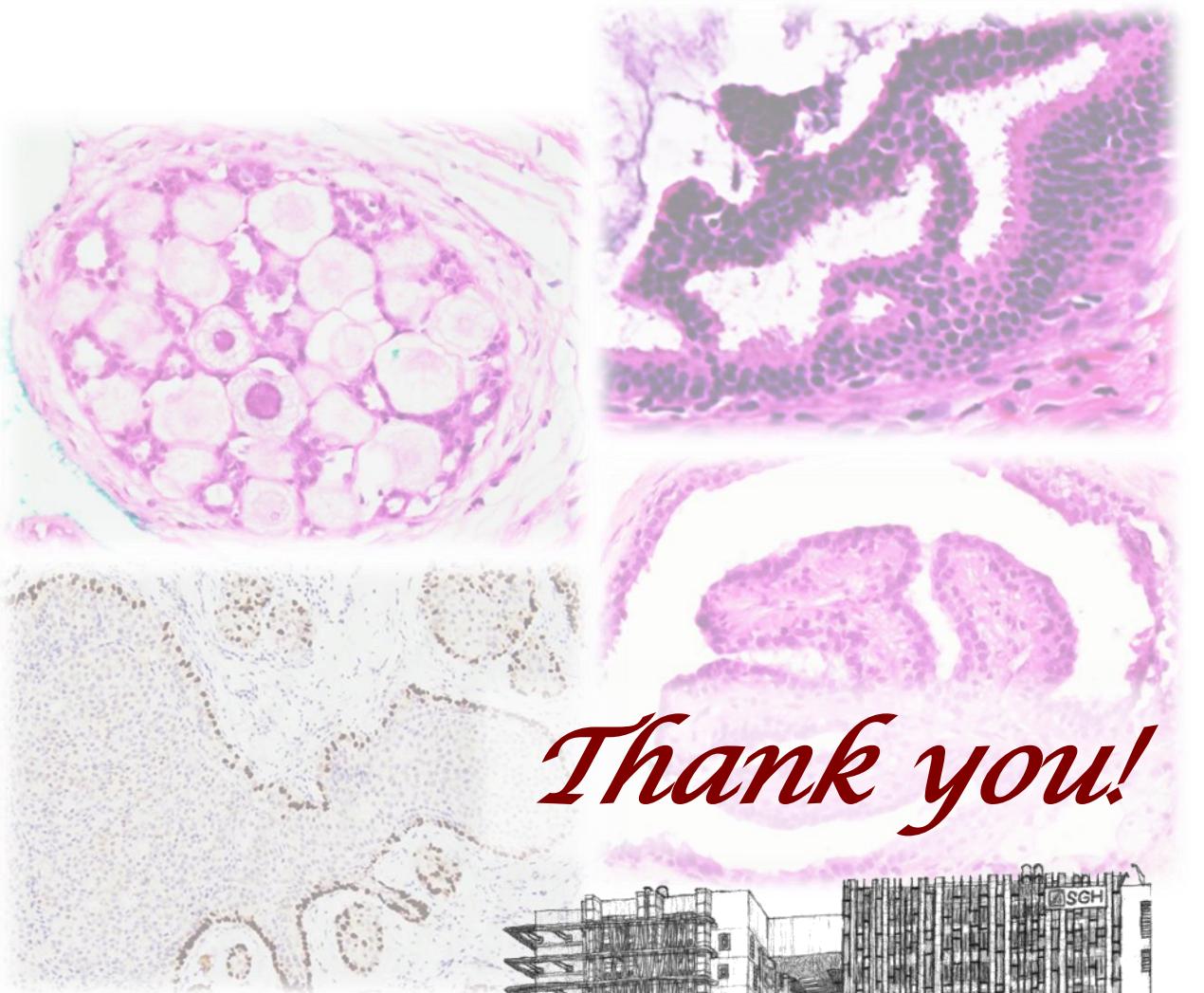
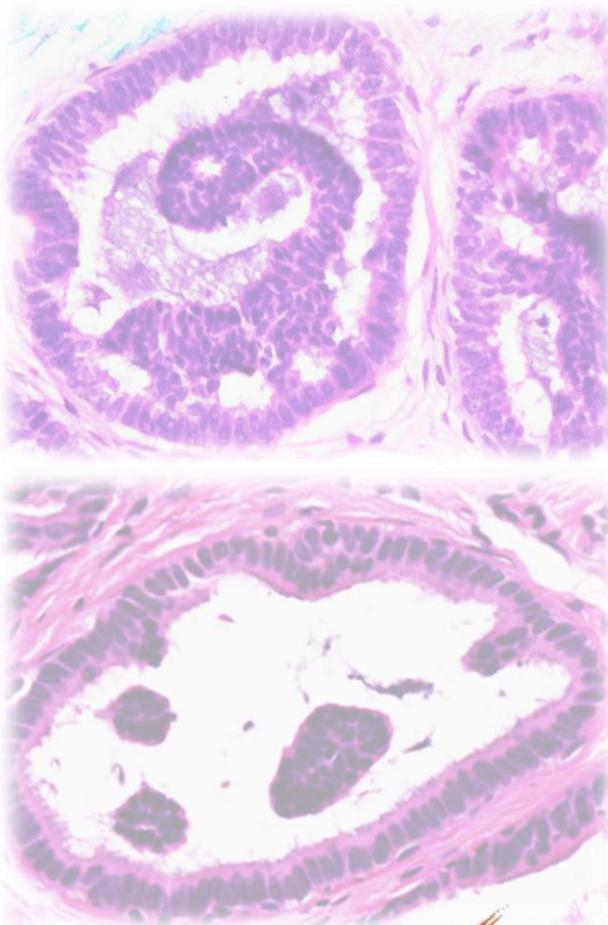
# Differential diagnosis

- Tubular adenoma ~
  - Myoepithelial cells preserved
- Microglandular adenosis ~
  - More haphazard arrangement
  - S100 positive
  - ER negative
- Tubular carcinoma
  - Tubules in >90% of tumour
- Acinic cell carcinoma
  - S100, lysozyme positive
  - ER negative





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*Thank you!*



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General Hospital  
SingHealth  
Division of Pathology

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ACADEMIC MEDICAL CENTRE  
**PATHOLOGY**

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