

*Atlas de*

# HISTOLOGIA

*Especial*

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Rachel Rocha Pinheiro Machado

**ATLAS DE  
HISTOLOGIA  
ESPECIAL**  
1º EDIÇÃO

JUIZ DE FORA - SUPREMA  
2018

## **PREFÁCIO**

O Atlas de Histologia Especial é uma produção realizada pelos estudantes Bárbara L N S Porto e Saulo Kaizer Leite do curso de Medicina da Faculdade de Ciências Médicas e da Saúde de Juiz de Fora - SUPREMA, durante a realização do Projeto de Iniciação Científica orientado pela Professora Dra. Rachel Rocha Pinheiro Machado.

Neste projeto, foram obtidas imagens a partir de uma seleção de cortes histológicos da coleção de lâminas da FCMS/JF - SUPREMA.



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Elaboração Sabrina Valadão CRB6-  
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# Índice

SISTEMA TEGUMENTAR - Pg 5
SISTEMA DIGESTÓRIO - Pg 9
SISTEMA CIRCULATORIO - Pg 32
SISTEMA RESPIRATÓRIO - Pg 37
SISTEMA ENDÓCRINO - Pg 44
SISTEMA URINÁRIO - Pg 48
SISTEMA REP. FEMININO - Pg 54
SISTEMA REP. MASCULINO - Pg 66
SISTEMA LINFÓIDE - Pg 72

The background of the cover is a histological micrograph showing a cross-section of the tegumentary system. It features a stratified squamous epithelium at the top, followed by a layer of connective tissue containing numerous small, dark-staining nuclei, likely representing the dermal papillae and associated structures. The overall color palette is dominated by shades of pink and purple, characteristic of H&E staining.

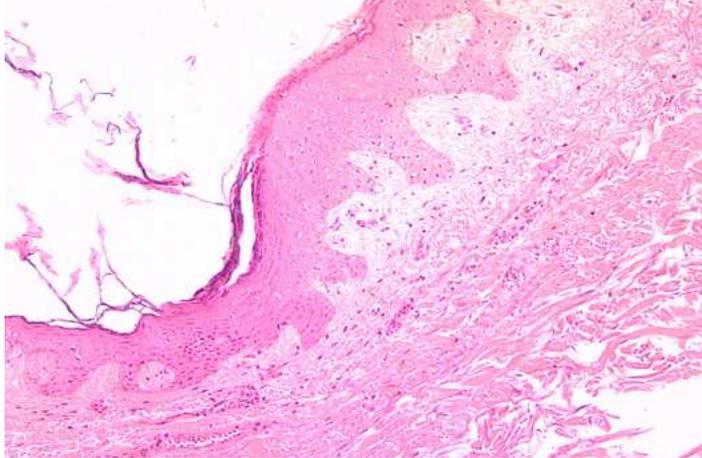
**ATLAS DE HISTOLOGIA  
ESPECIAL**

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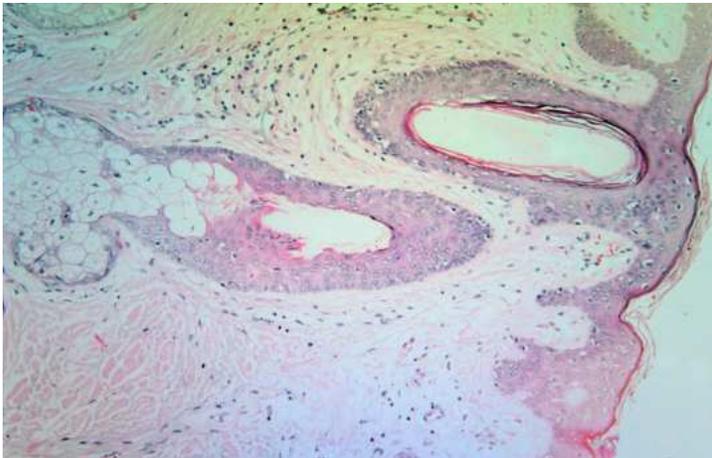
**SISTEMA  
TEGUMENTAR**

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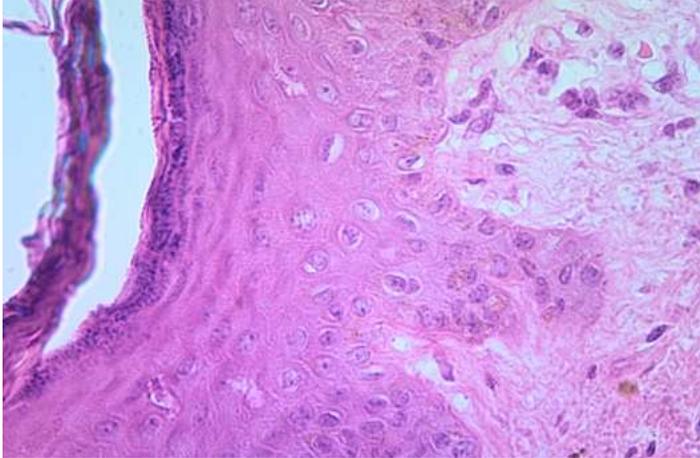
Barbara L. N. S. Porto  
Saulo Kaizer Leite  
Rachel R. Pinheiro Machado



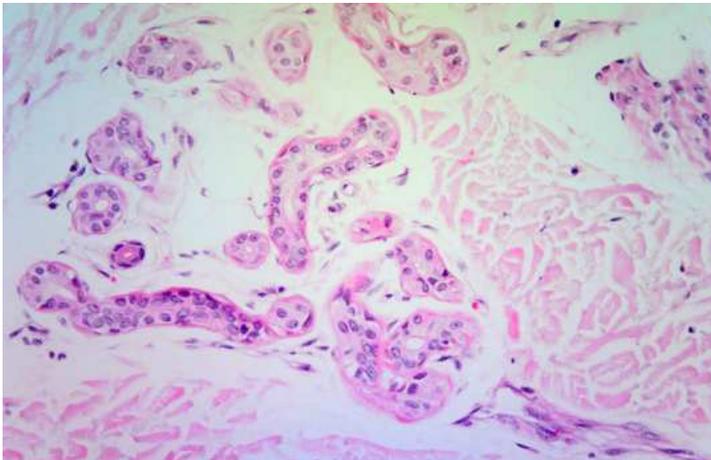
**Pele delgada - 4x**



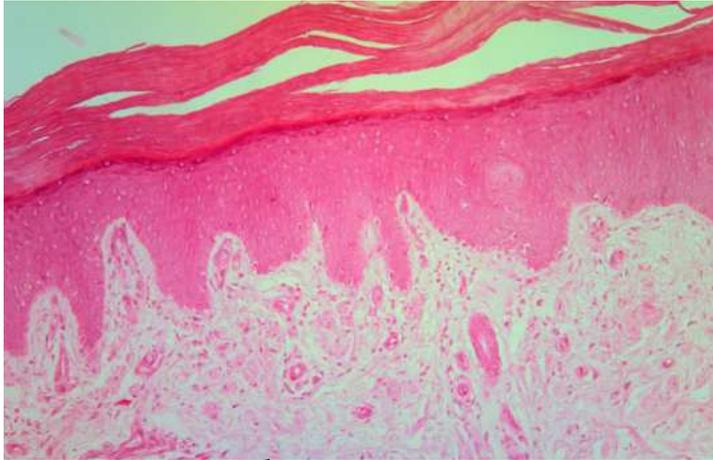
**Pele delgada - 10x anexos  
(Glândula Sebácea e Folículo  
Piloso)**



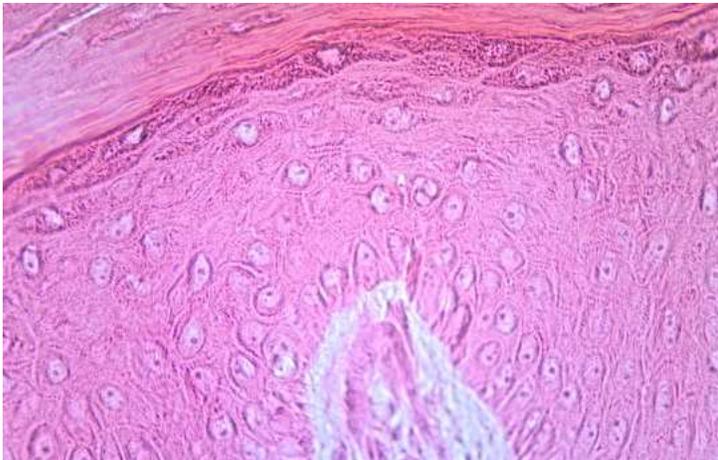
**Pele delgada -  
Epiderme**



**Pele delgada - Anexos -  
Çlândula Sudorípara**



**Pele grossa - 10x**



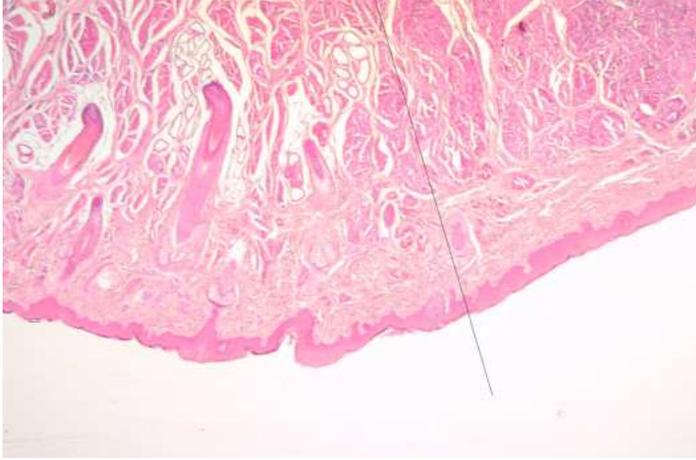
**Pele grossa - 40x -  
Epiderme**

A histological micrograph showing a cross-section of the digestive system, likely the stomach or small intestine. The image displays various layers of tissue, including the mucosa, submucosa, and muscularis. The mucosa is characterized by its folded surface (rugae) and the presence of numerous small, dark-stained nuclei, possibly representing glandular or epithelial cells. The submucosa is a layer of loose connective tissue, and the muscularis consists of smooth muscle fibers. The overall appearance is that of a well-organized, layered structure typical of the gastrointestinal tract.

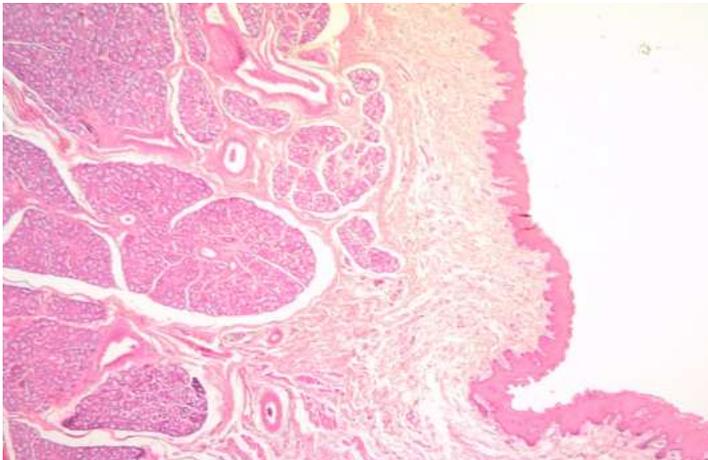
**ATLAS DE HISTOLOGIA  
ESPECIAL**

# **SISTEMA DIGESTÓRIO**

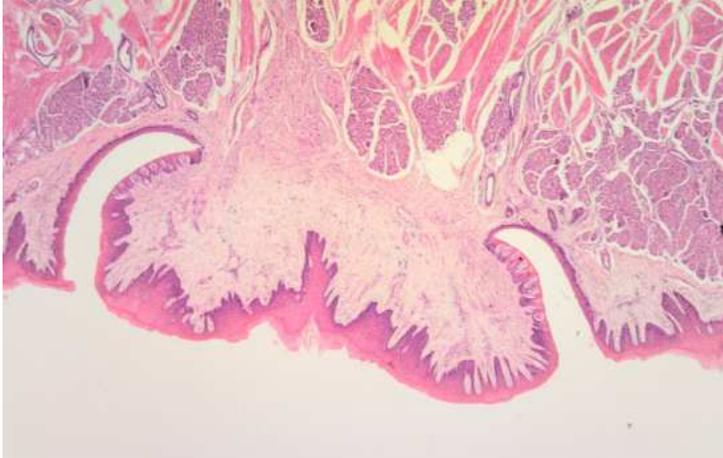
Barbara L. N. S. Porto  
Saulo Kaizer Leite  
Rachel R. Pinheiro Machado



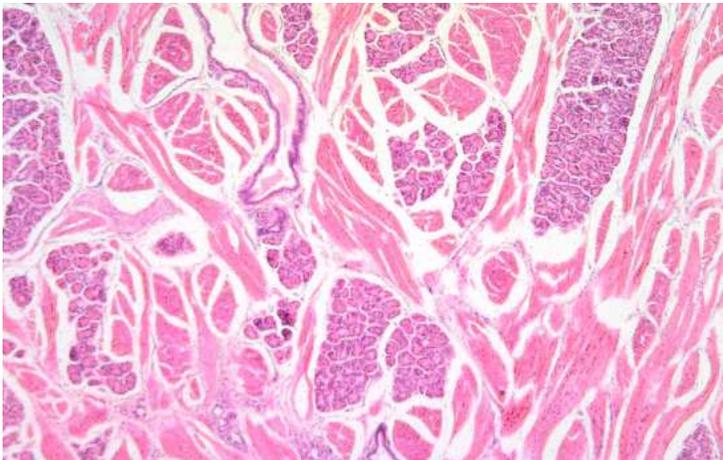
**Lábio - Pele e zona do  
batom**



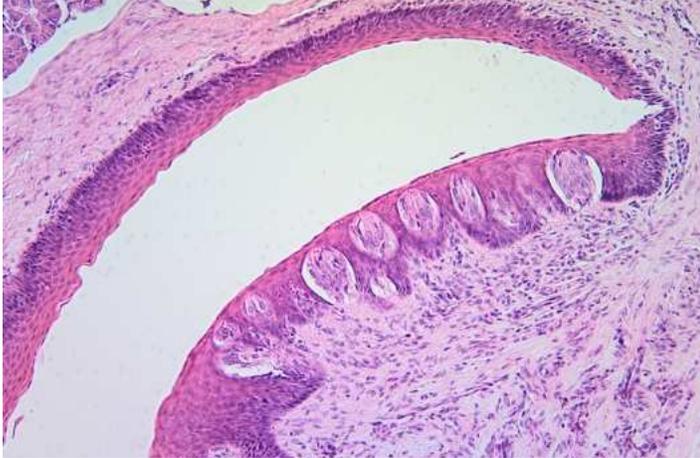
**Lábio - Mucosa de  
Revestimento**



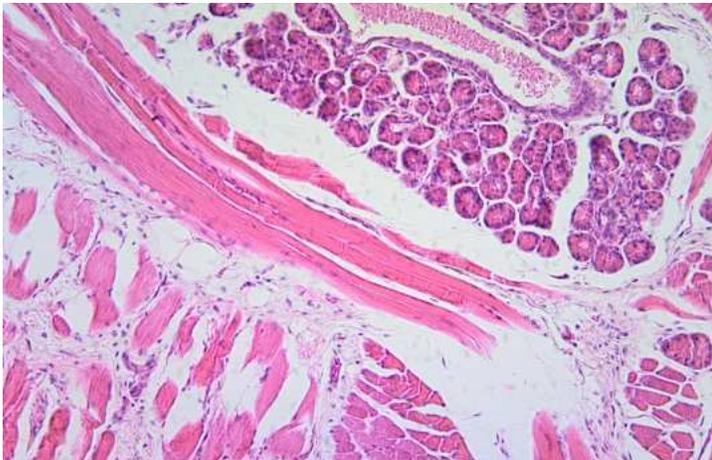
**Língua - Panorâmica**



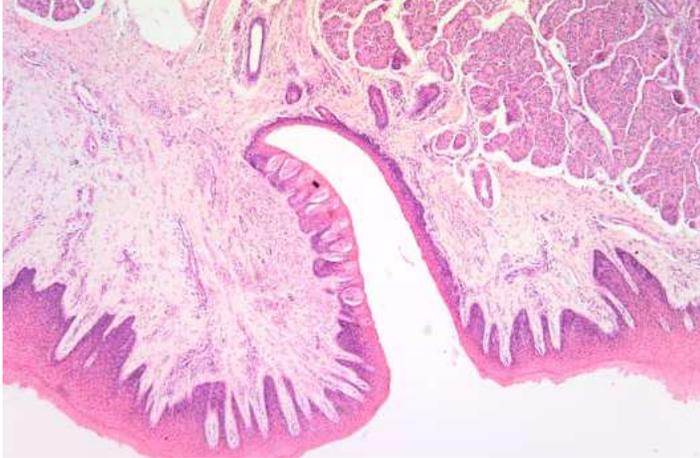
**Língua - Músculos e  
glândulas salivares**



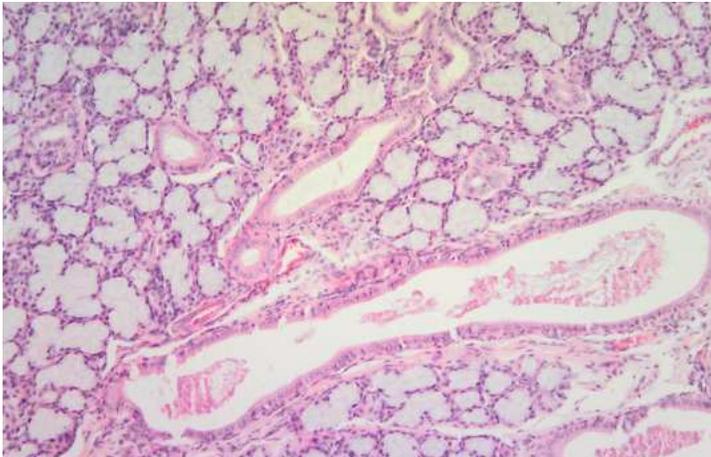
**Língua - Papila  
Circunvalada - Botões  
gustativos**



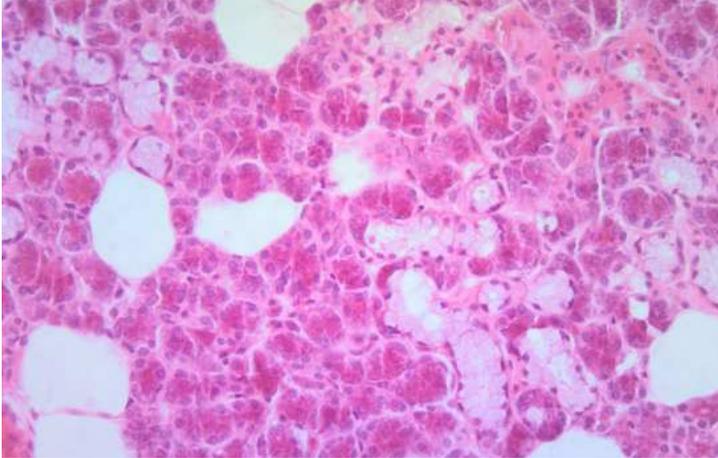
**Língua - Músculos e  
glândulas**



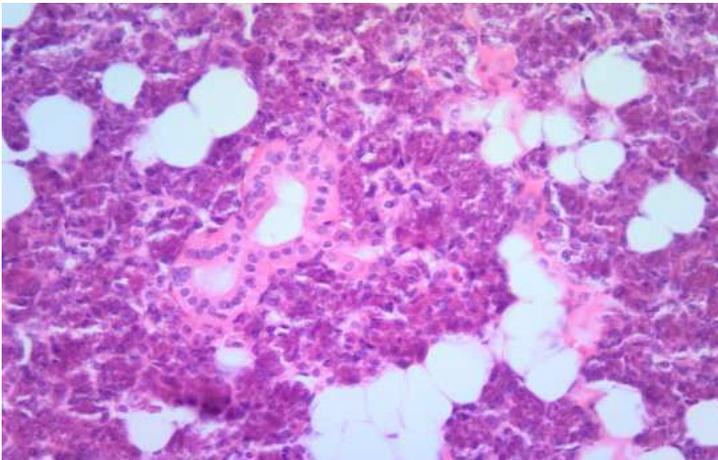
**Língua - Botões,  
papilas e ducto (Von  
Ebner)**



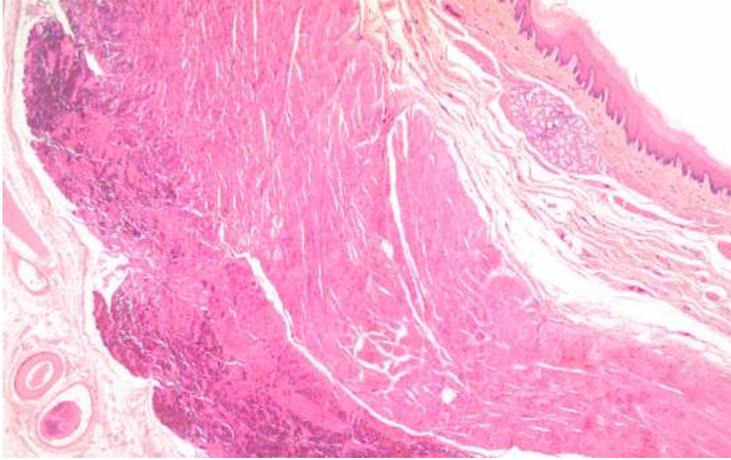
**Glândula - Sublingual**



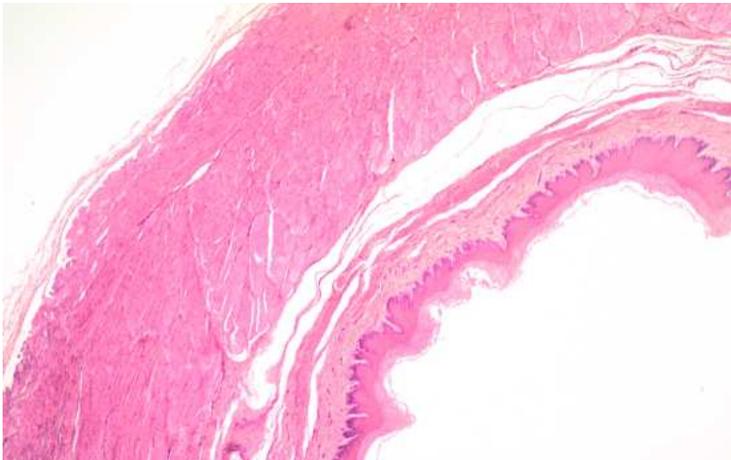
**Glândula -  
Submandibular**



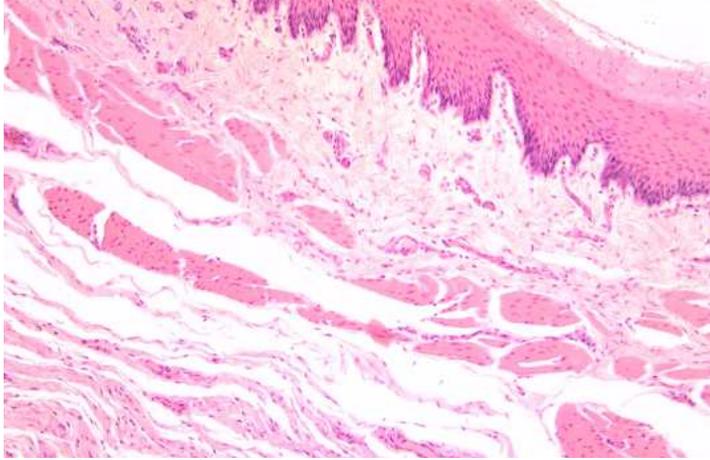
**Glândula Parótida**



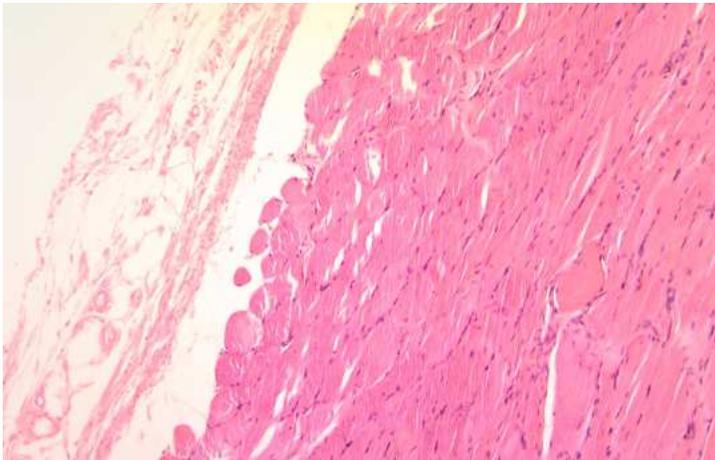
**Esôfago - Panorâmica**



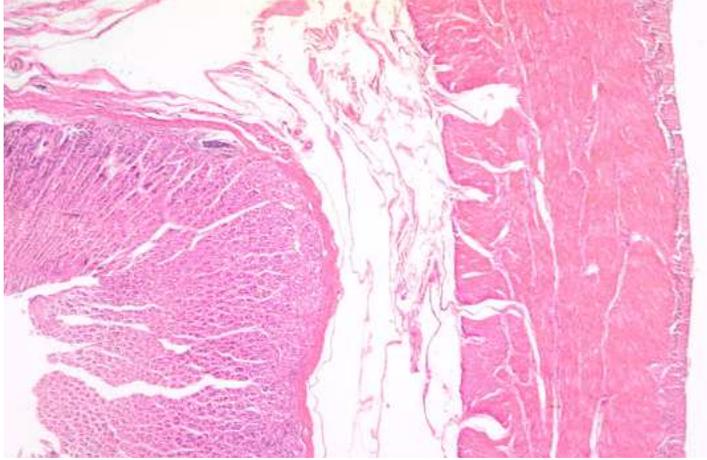
**Esôfago - Panorâmica (outro perfil)**



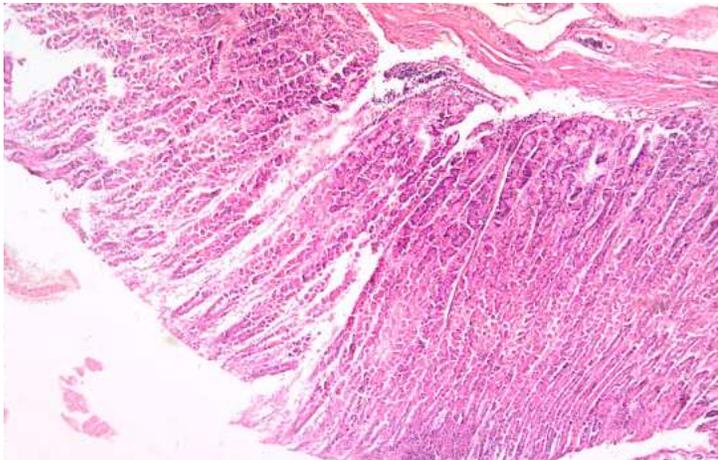
**Esôfago - Mucosa e submucosa**



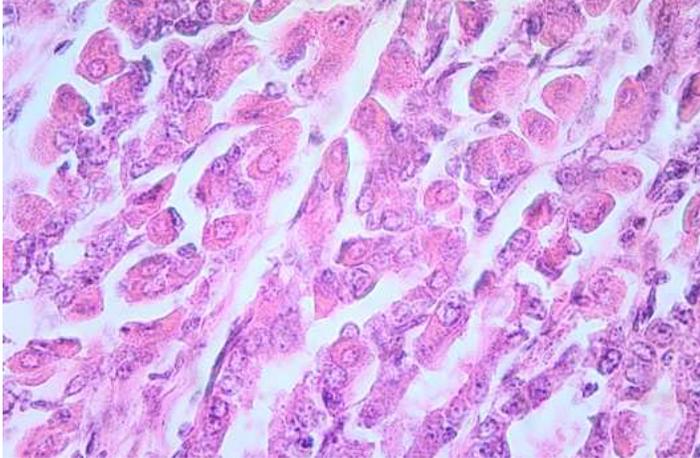
**Esôfago - Muscular e adventícia**



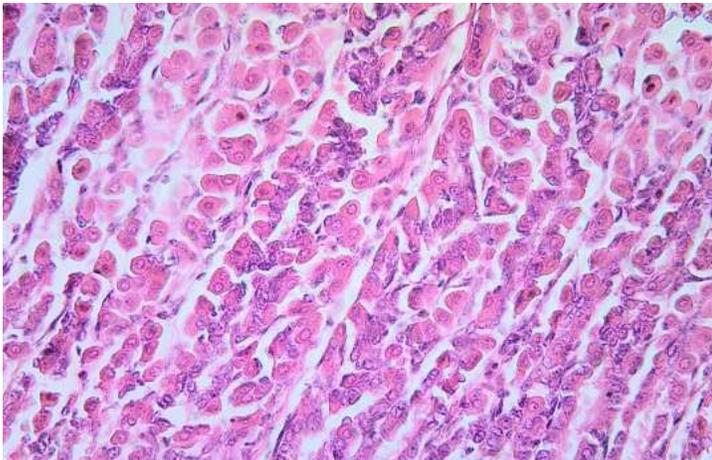
**Estômago - Panorâmica**



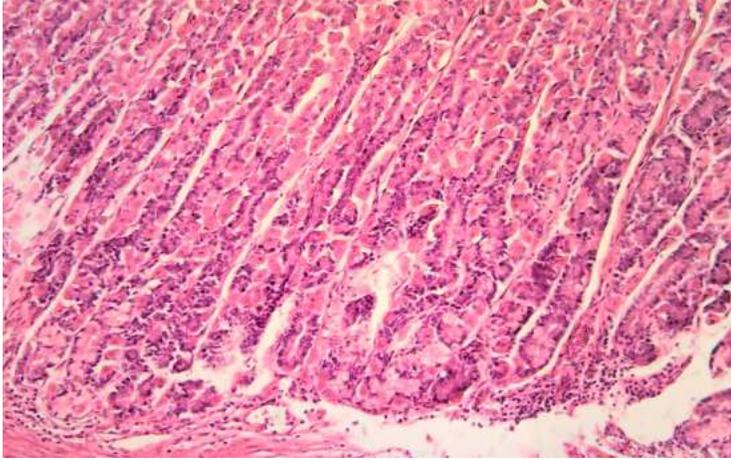
**Estômago - Mucosa**



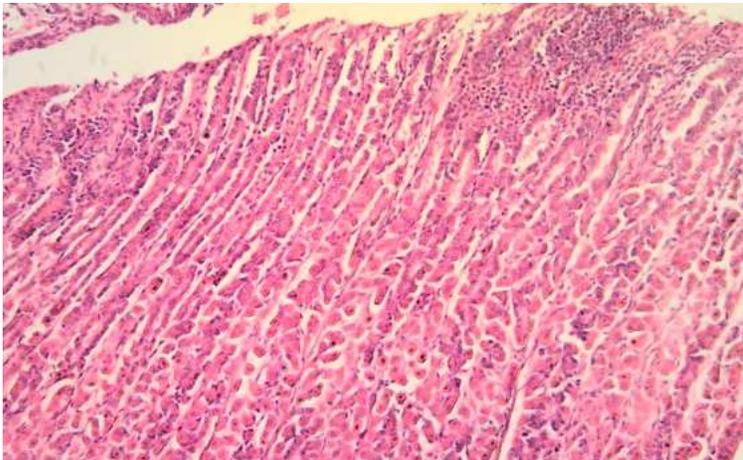
**Estômago - Células  
parietais principais -  
40x**



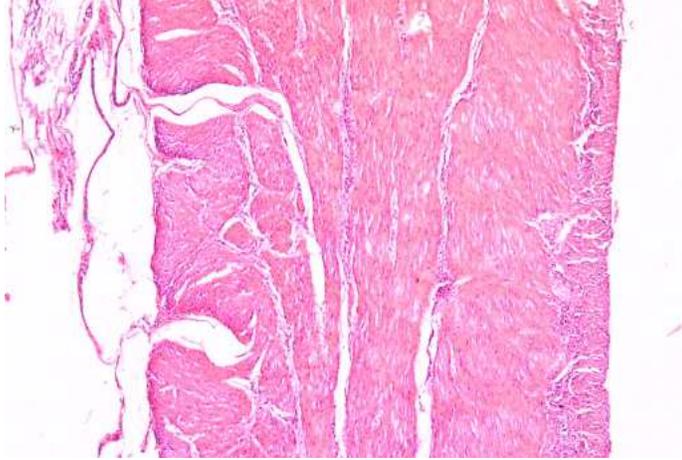
**Estômago - Glândula  
mucosa**



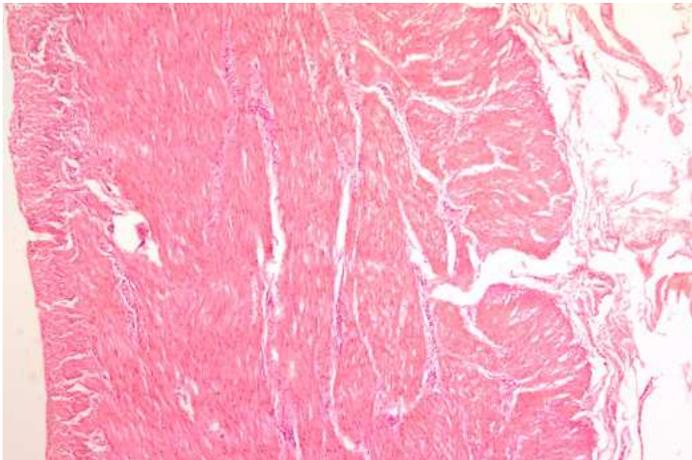
**Estômago - Corpo e  
Fundo**



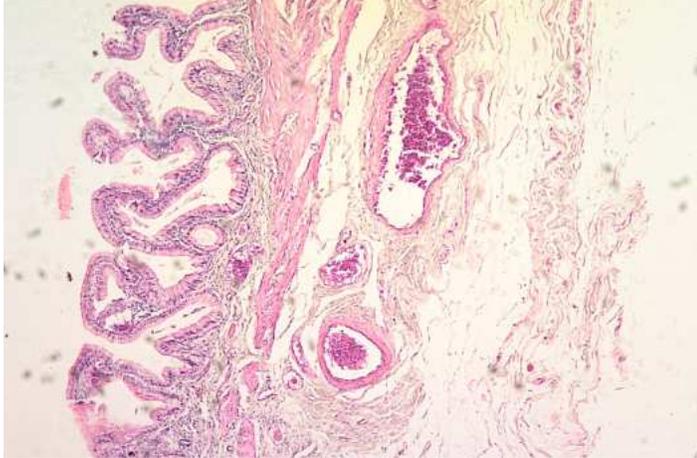
**Estômago - Fosseta e  
Ístmo**



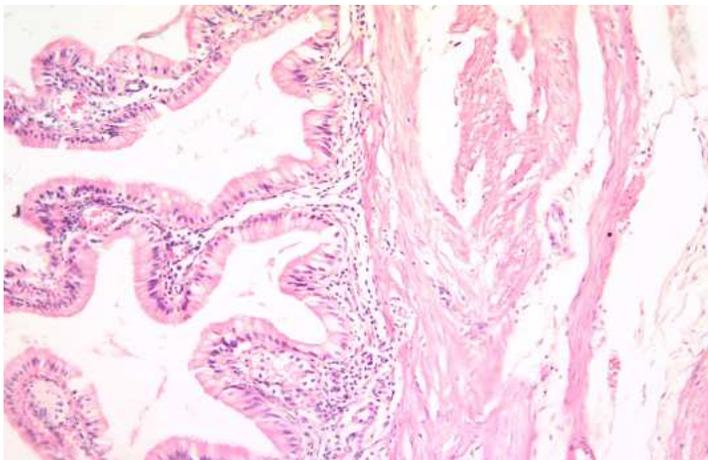
**Estômago - 3 camadas  
(muscular)**



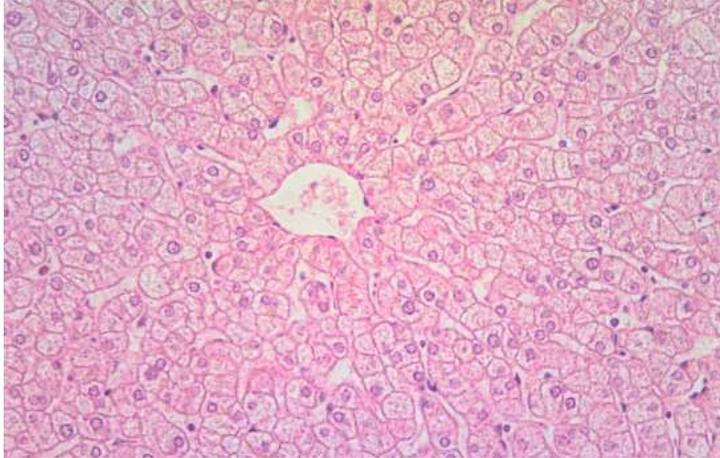
**Estômago - 3 Camadas  
(Outro Perfil)**



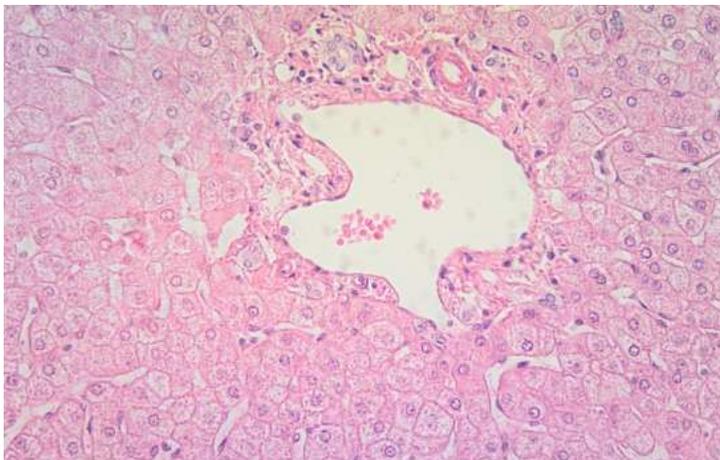
**Vesícula Biliar -  
Panorâmica**



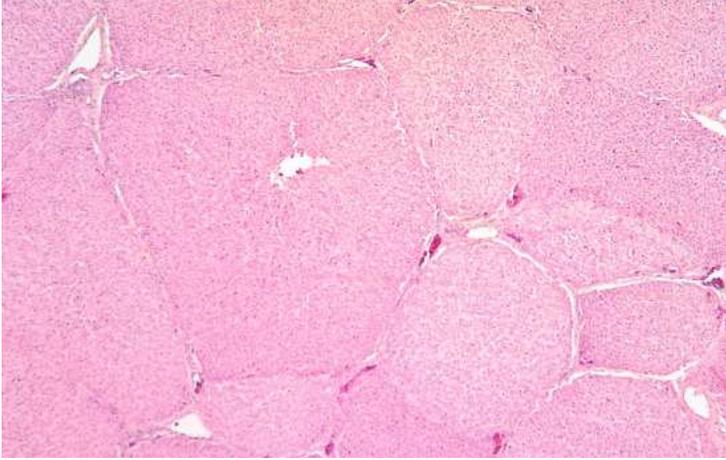
**Vesícula Biliar - mucosa e  
parede muscular**



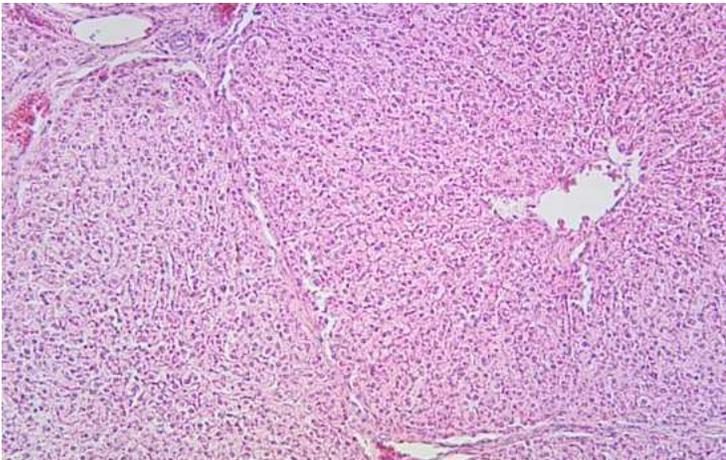
**Fígado - Veia centro-lobular**



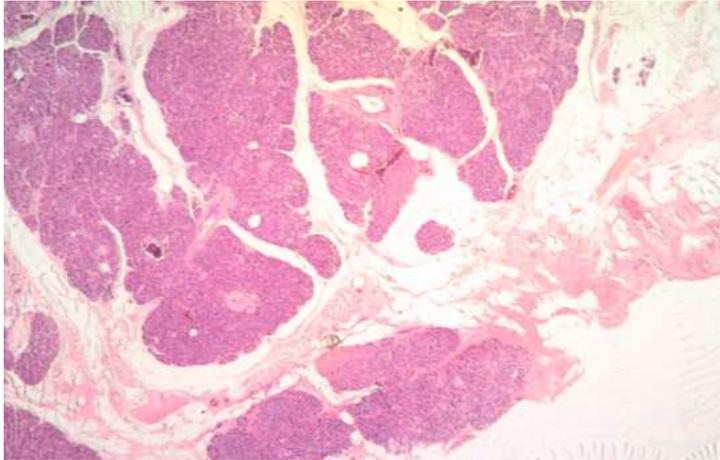
**Fígado - Tríade portal**



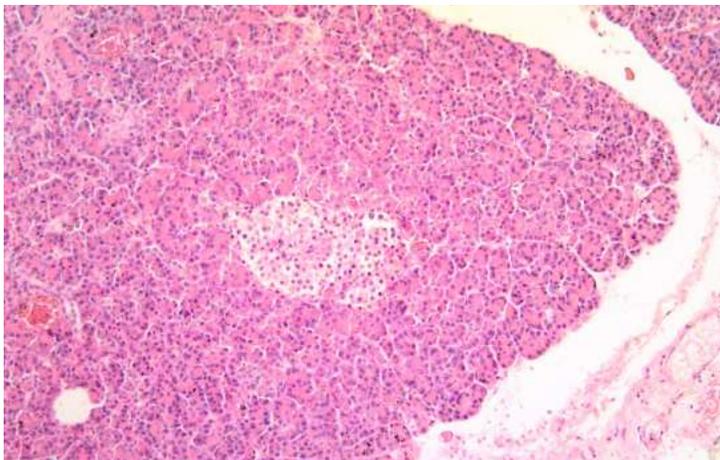
**Fígado - Lóbulo Clássico**



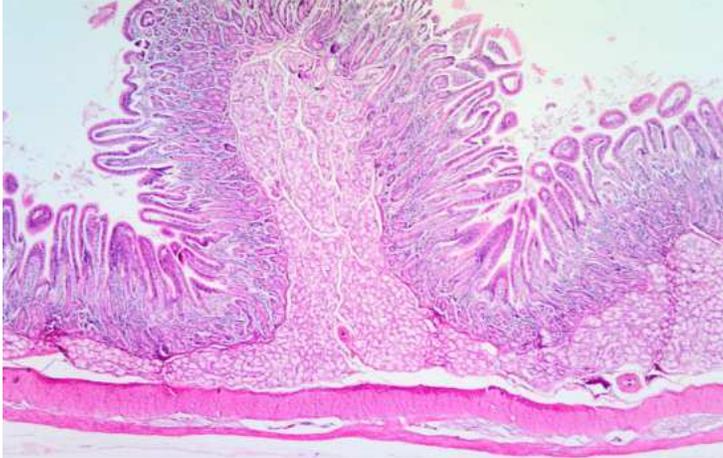
**Fígado - Lóbulo Clássico e  
Tríade**



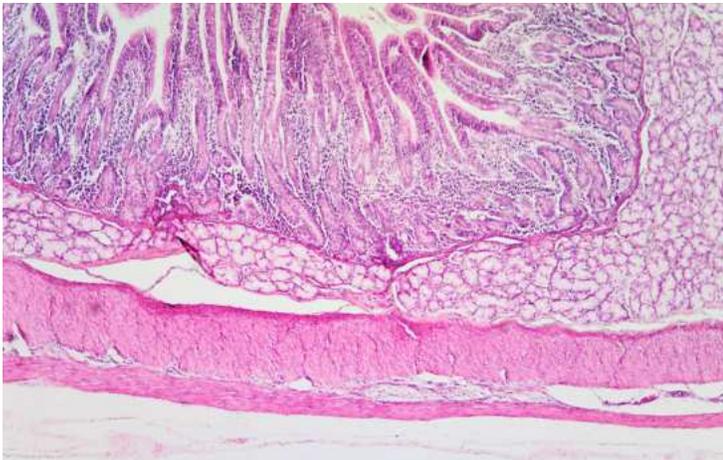
**Pâncreas - Panorâmica**



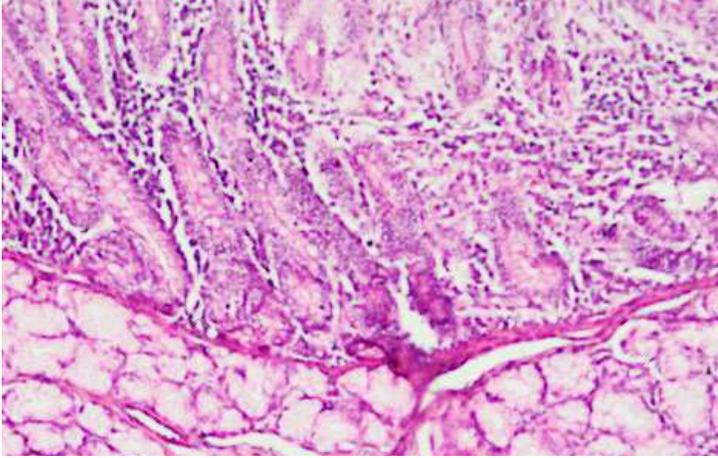
**Pâncreas - Ilhotas Pancreáticas**



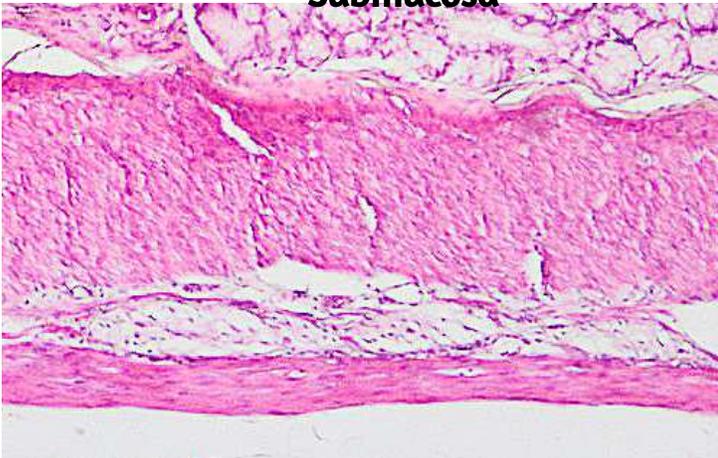
**Intestino Delgado -  
Duodeno - Panorâmica**



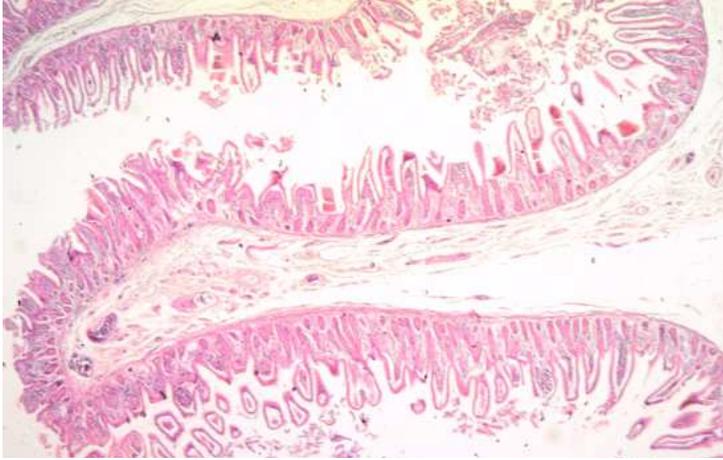
**Intestino Delgado -  
Duodeno**



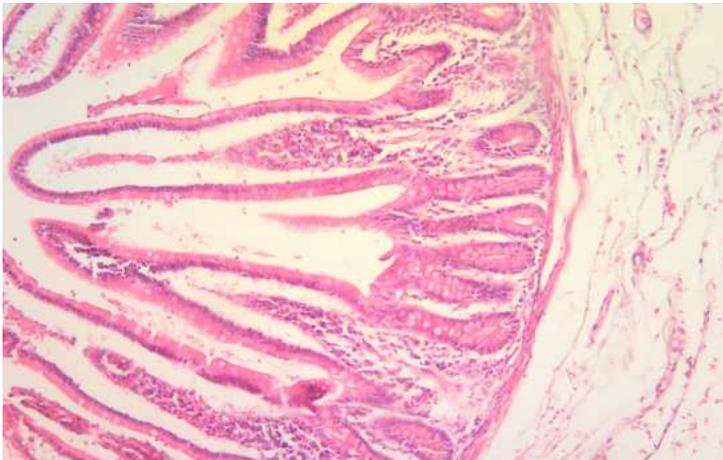
**Intestino Delgado -  
Duodeno  
Mucosa sem vilos e  
Submucosa**



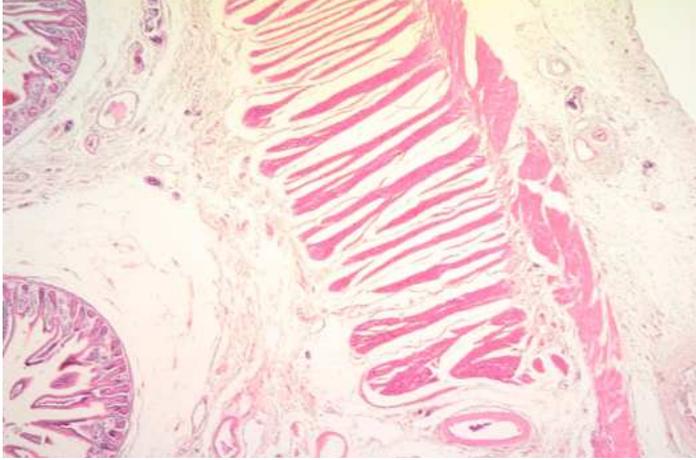
**Intestino Delgado - Duodeno  
Parede Muscular - Plexo  
Mioentérico**



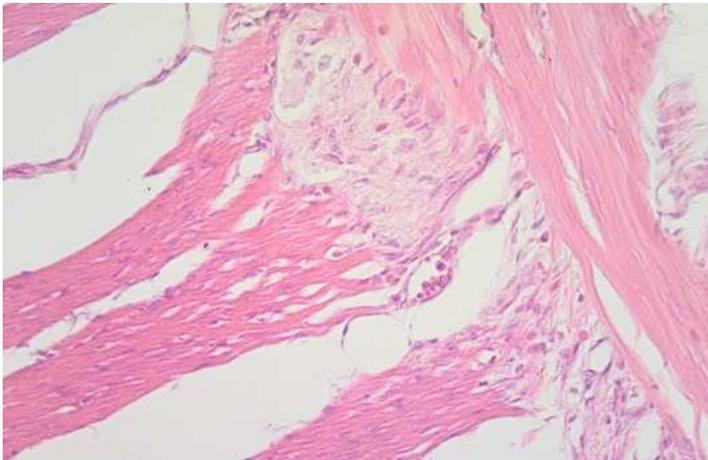
**Intestino - Panorâmica  
(pregas e vilos)**



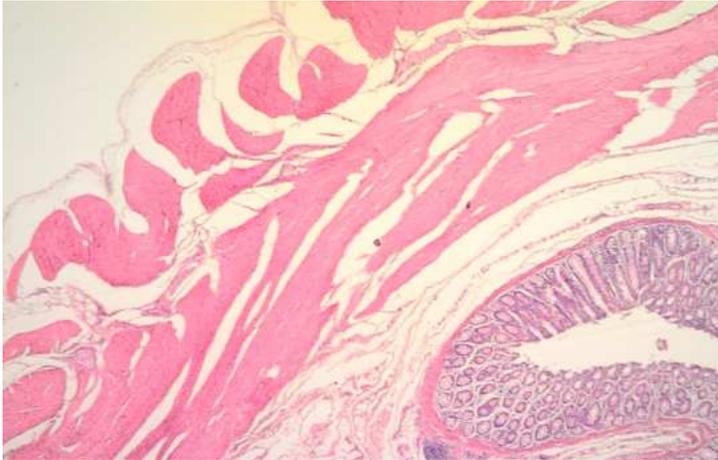
**Intestino - vilos, mucosa e  
submucosa**



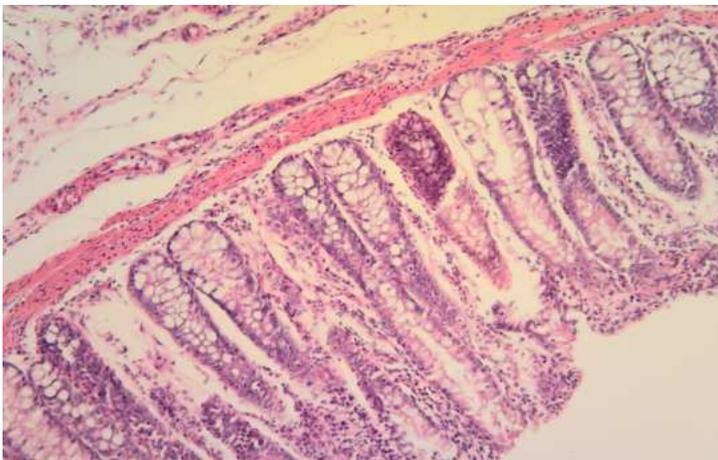
**Intestino - Mucosa,  
submucosa e parede muscular**



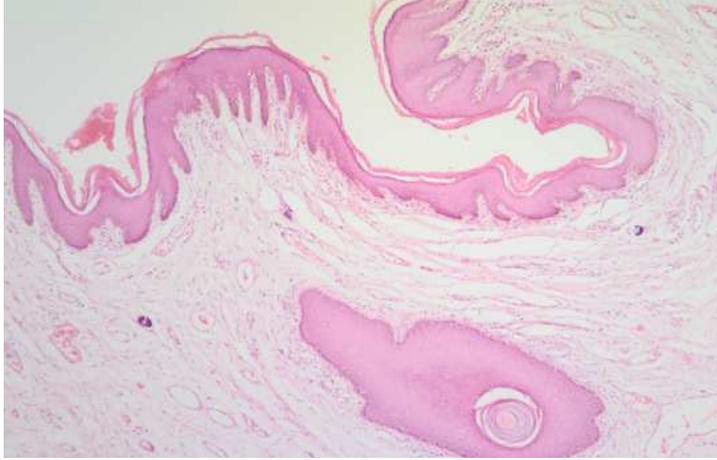
**Intestino - Plexo  
Intramural**



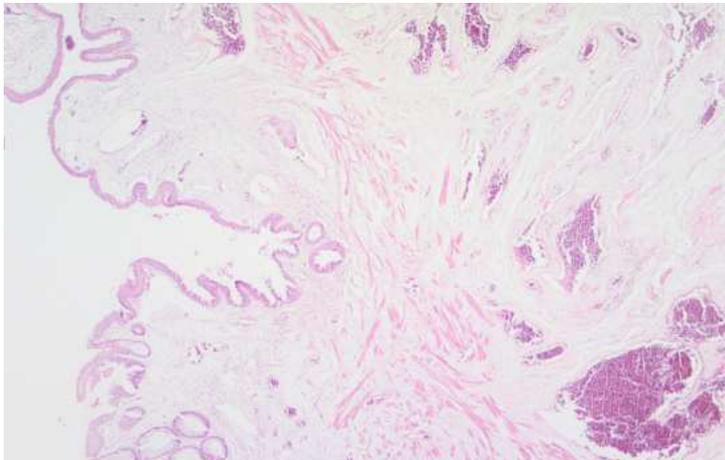
**Intestino Grosso -  
Panorâmica**



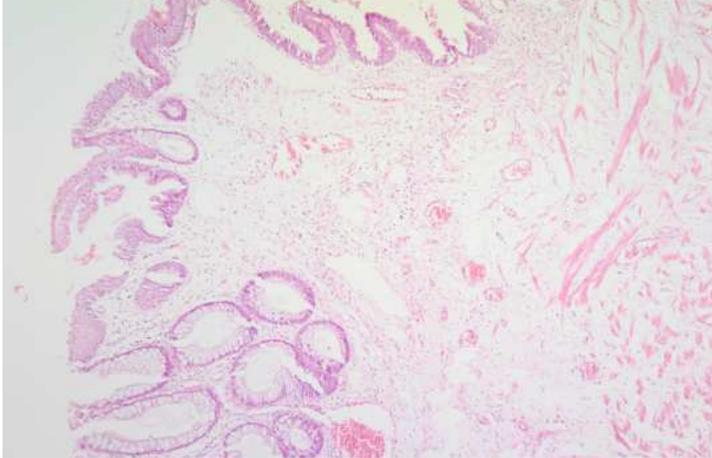
**Intestino Grosso - Mucosa**



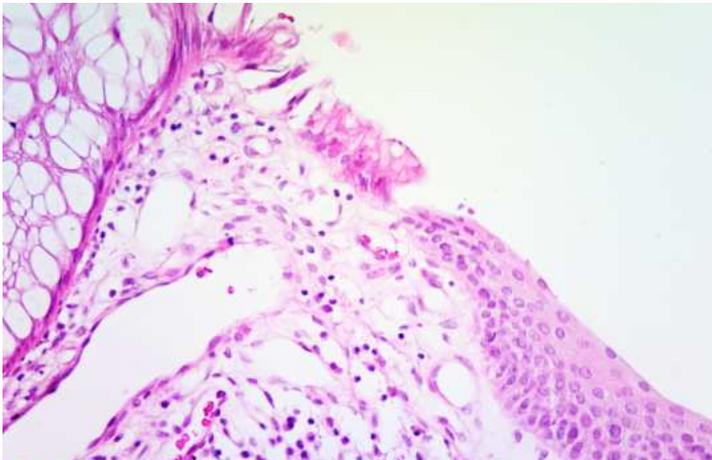
**Canal anal - 4x -  
pele**



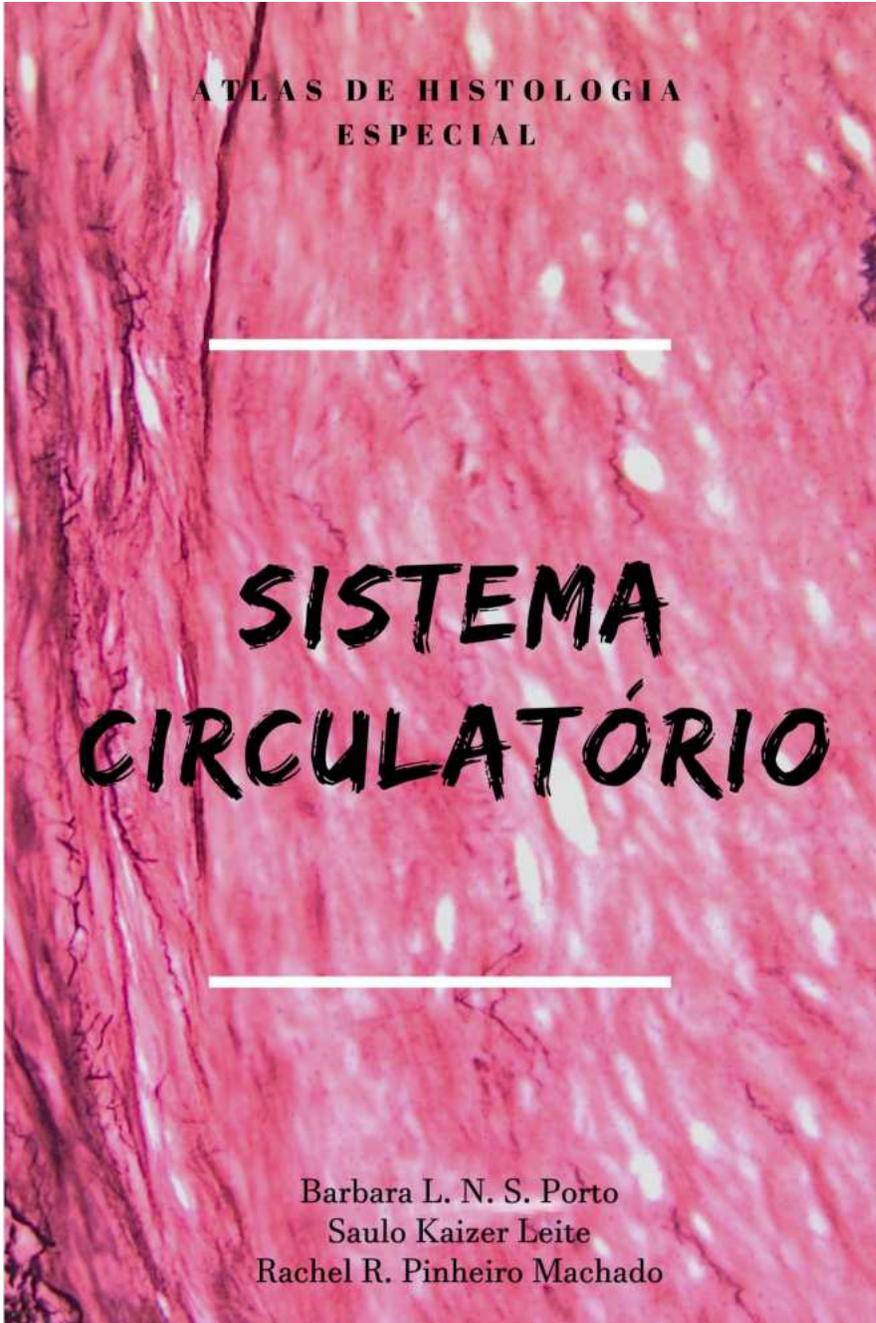
**Canal anal - panorâmica -  
plexo hemorroidario**



**Canal anal - transição reto-  
canal - 4x**



**Canal anal - Aumento  
(20x)  
Junção escamocolunar**



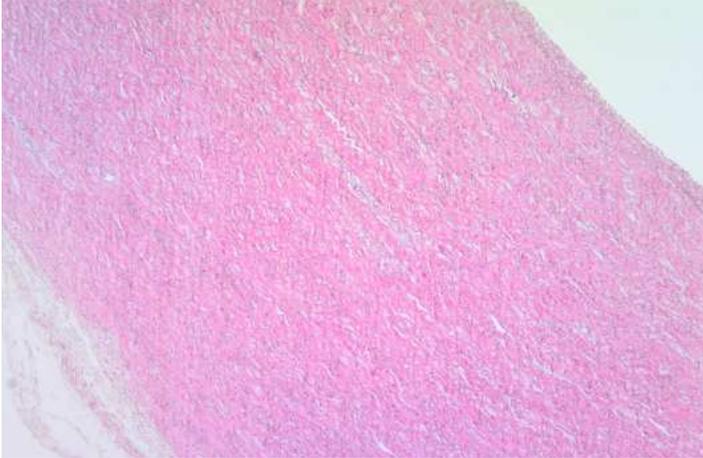
**ATLAS DE HISTOLOGIA  
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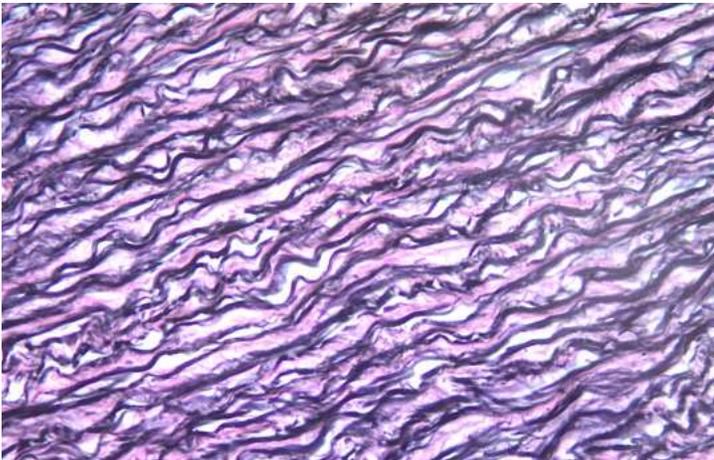
**SISTEMA  
CIRCULATORIO**

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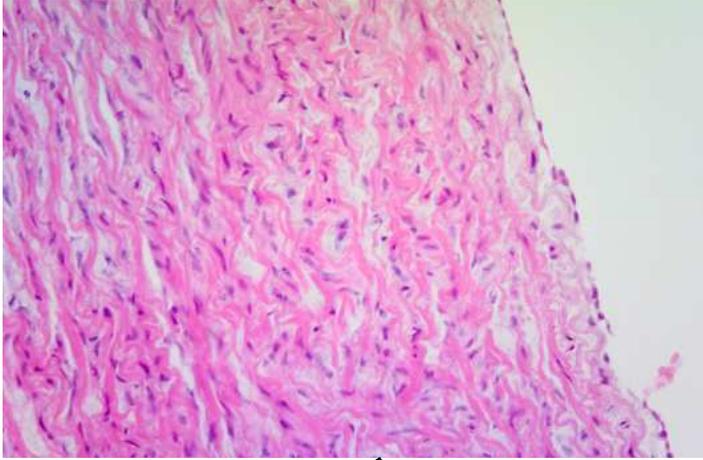
Barbara L. N. S. Porto  
Saulo Kaizer Leite  
Rachel R. Pinheiro Machado



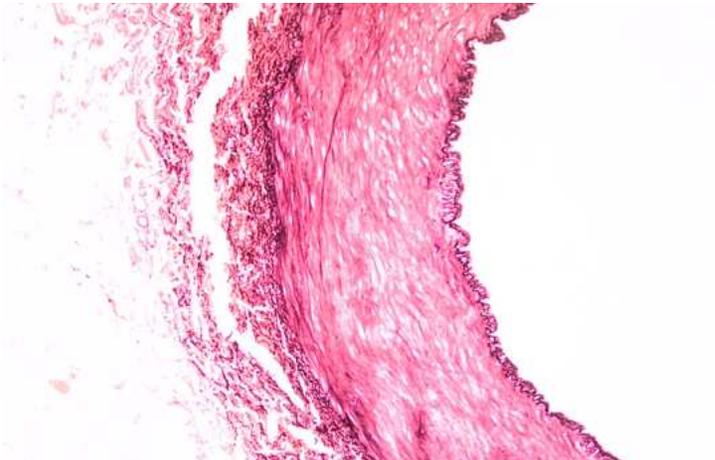
**Aorta - 4x**



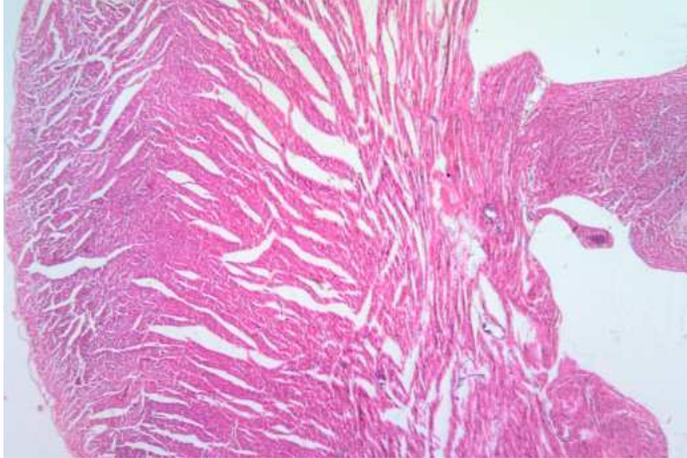
**Aorta - coloração de fibra  
elástica**



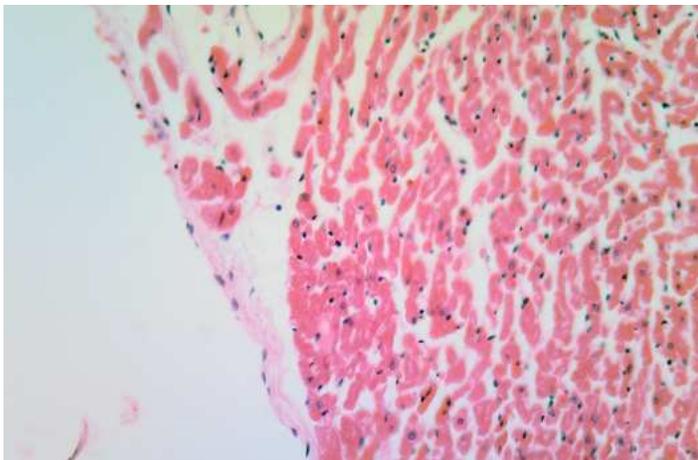
**Aorta - Íntima**



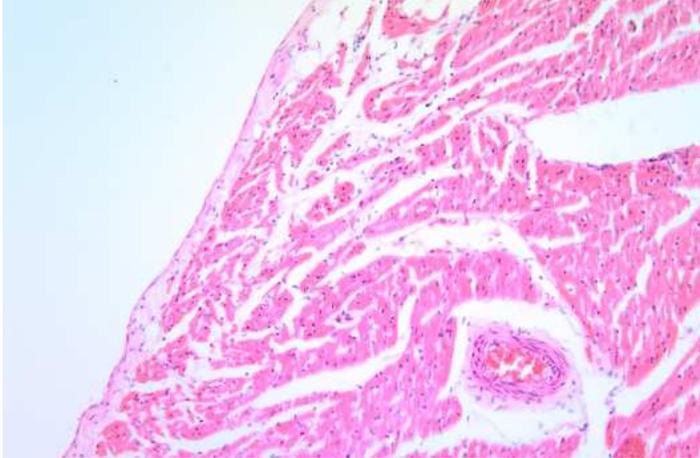
**Artéria Muscular -  
elástica interna e  
externa**



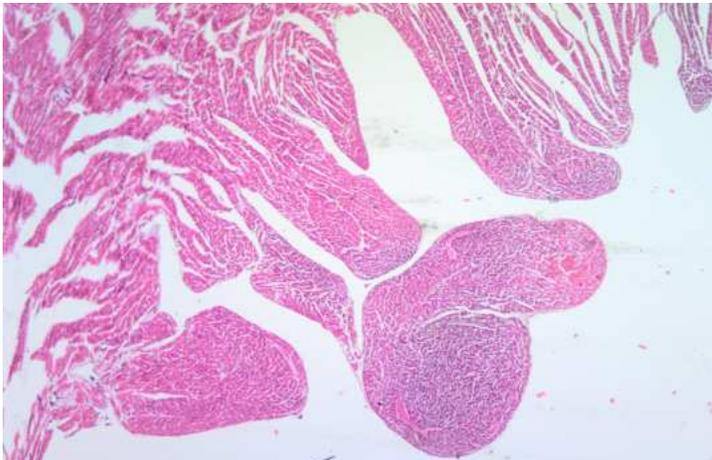
**Coração - Panorâmica**



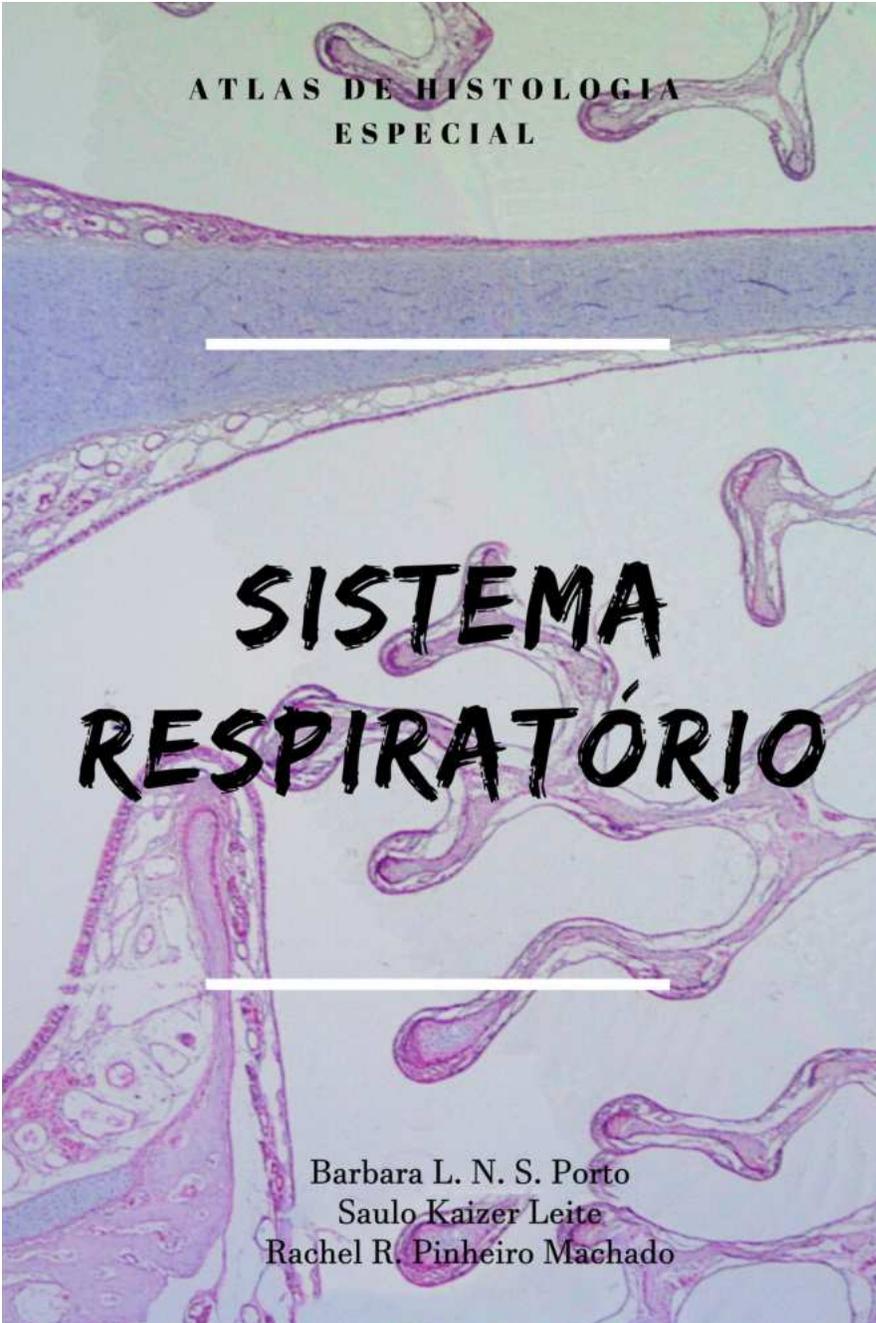
**Coração - endocárdio**



**Coração - epicárdio e  
camada subepicárdica**



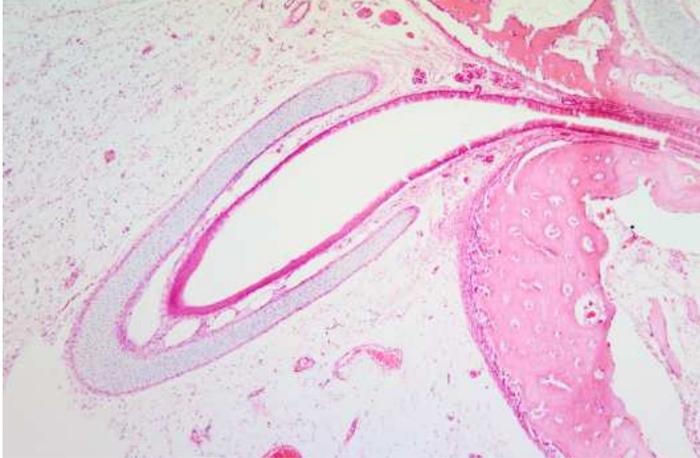
**Coração - músculos  
papilares**



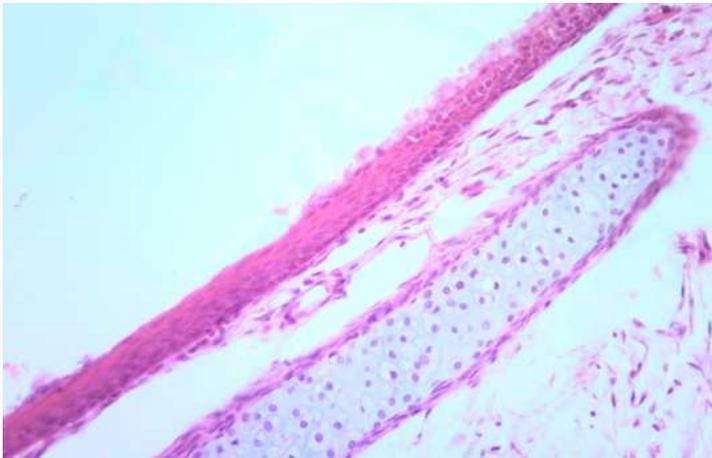
**ATLAS DE HISTOLOGIA  
ESPECIAL**

**SISTEMA  
RESPIRATÓRIO**

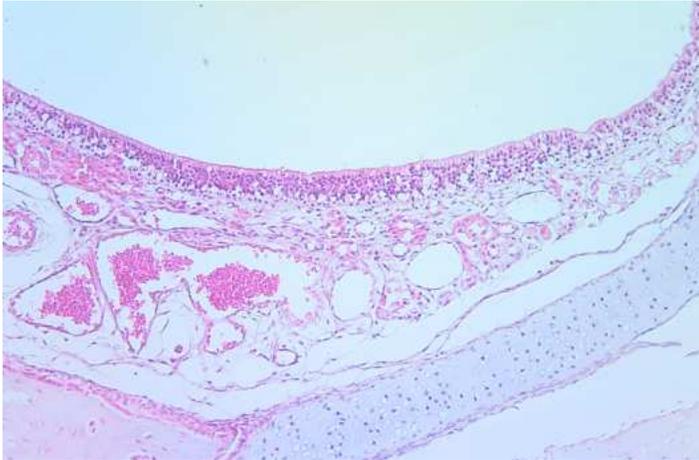
Barbara L. N. S. Porto  
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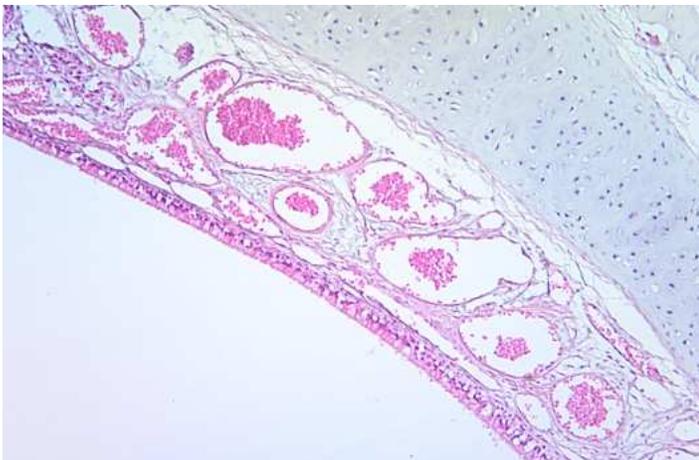
**Fossas nasais - Região Vestibular**



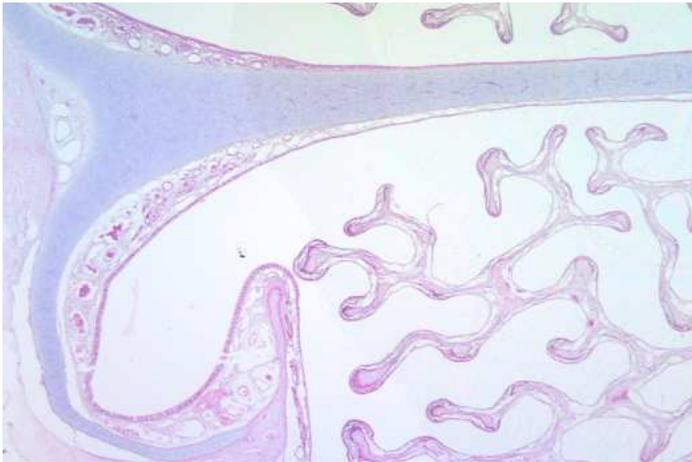
**Fossas nasais - 20x -  
Região vestibular  
transição respiratória**



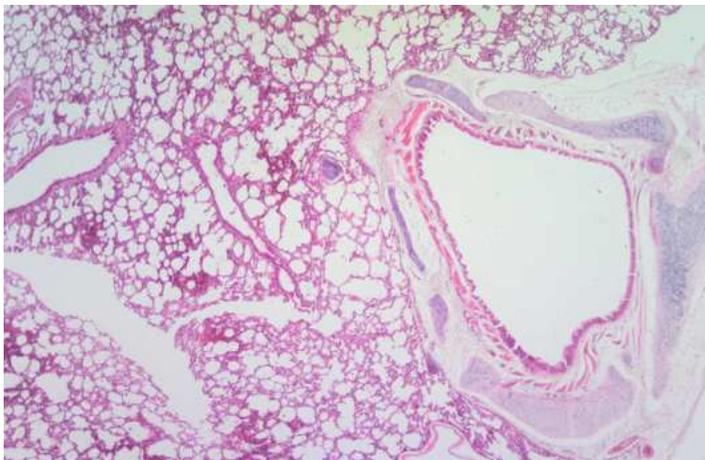
**Fossas nasais - Mucosa  
olfatória**



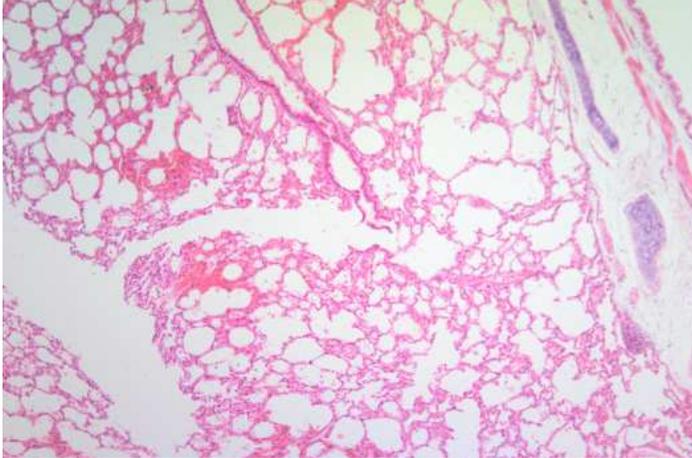
**Fossas nasais - Mucosa  
Respiratória**



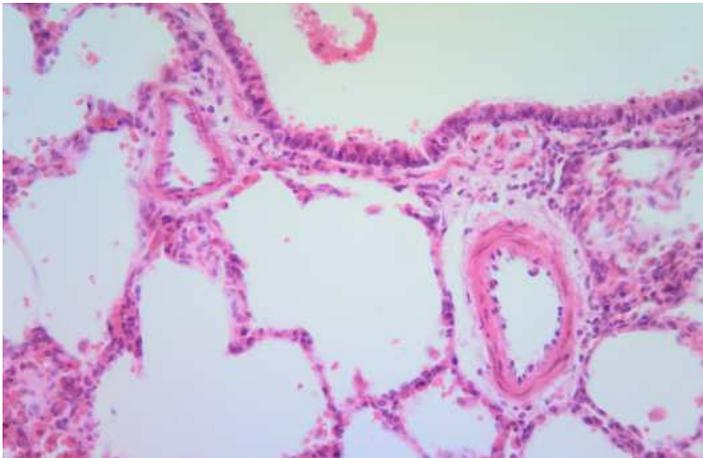
**Fossas Nasais -  
Panorâmica**



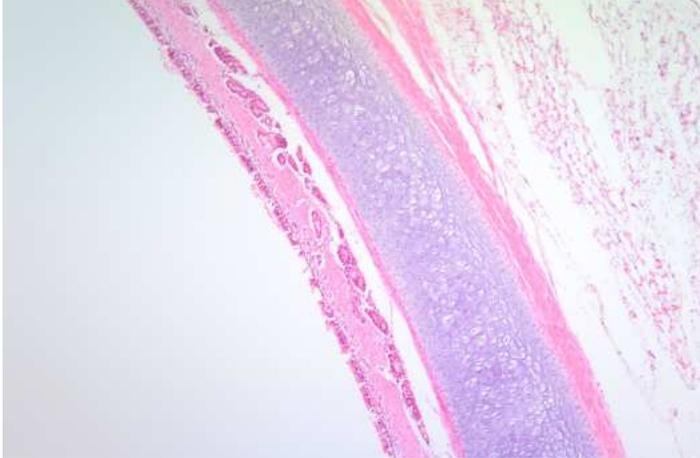
**Pulmão - Panorâmica**



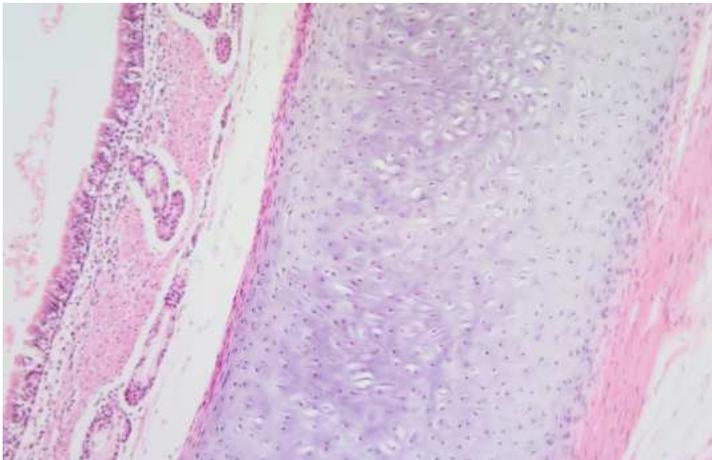
**Pulmão - Brônquios e Alvéolos**



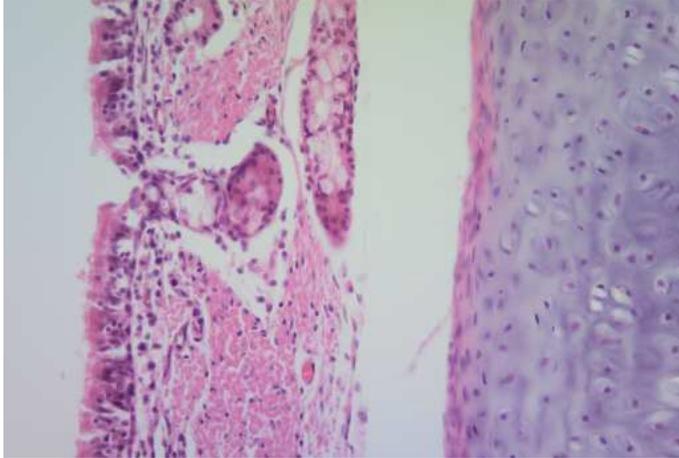
**Pulmão - Brônquios e vasos**



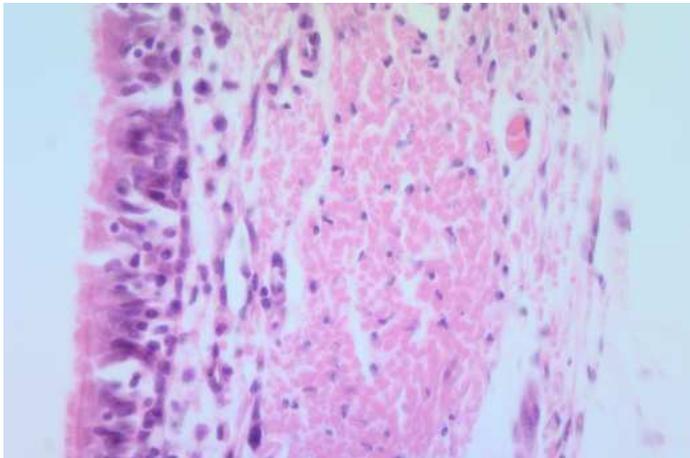
**Traqueia - 4x**



**Traqueia - mucosa**



**Traqueia - Mucosa  
respiratória 20x**



**Traqueia - Mucosa respiratória  
40x**



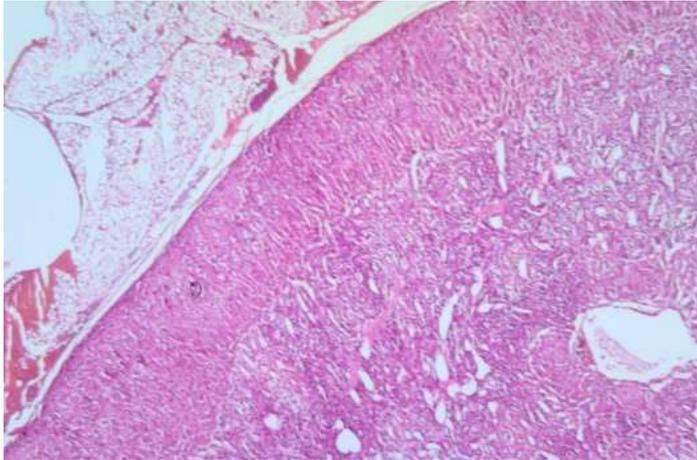
ATLAS DE HISTOLOGIA  
ESPECIAL

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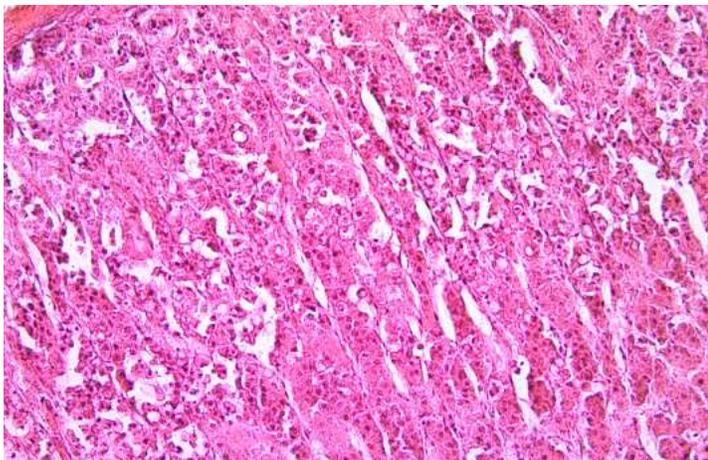
# SISTEMA ENDÓCRINO

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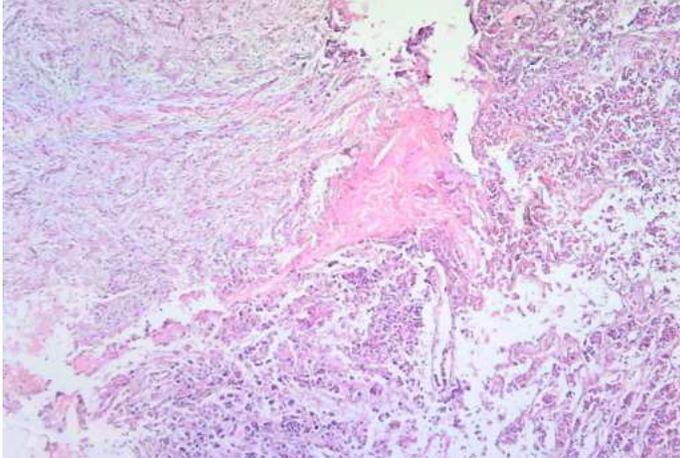
Barbara L. N. S. Porto  
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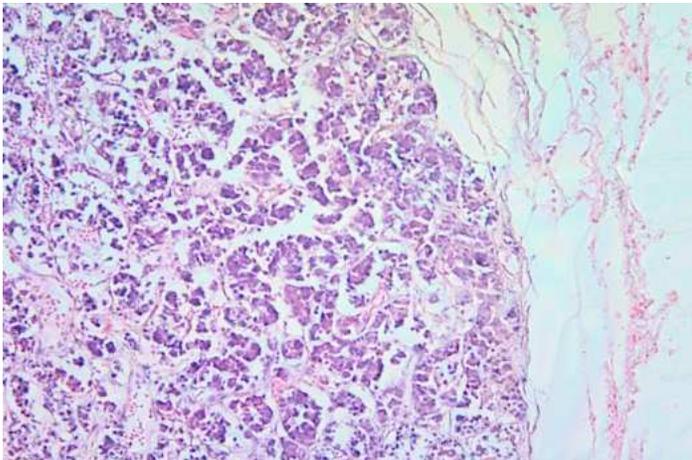
**Adrenal - Panorâmica**



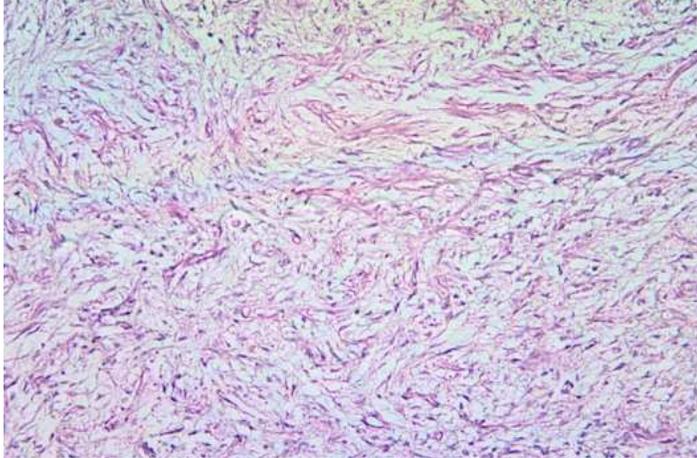
**Adrenal - córtex**



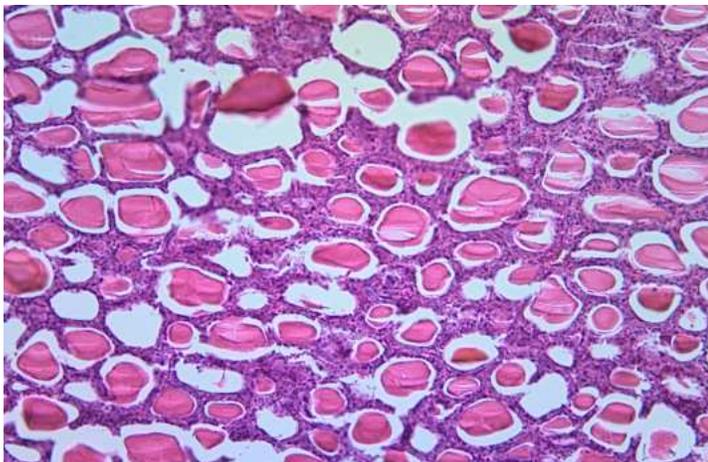
**Hipófise - 4x - neurohipófise - *pars intermédia* - (adenohipofise), cisto de Ratke**



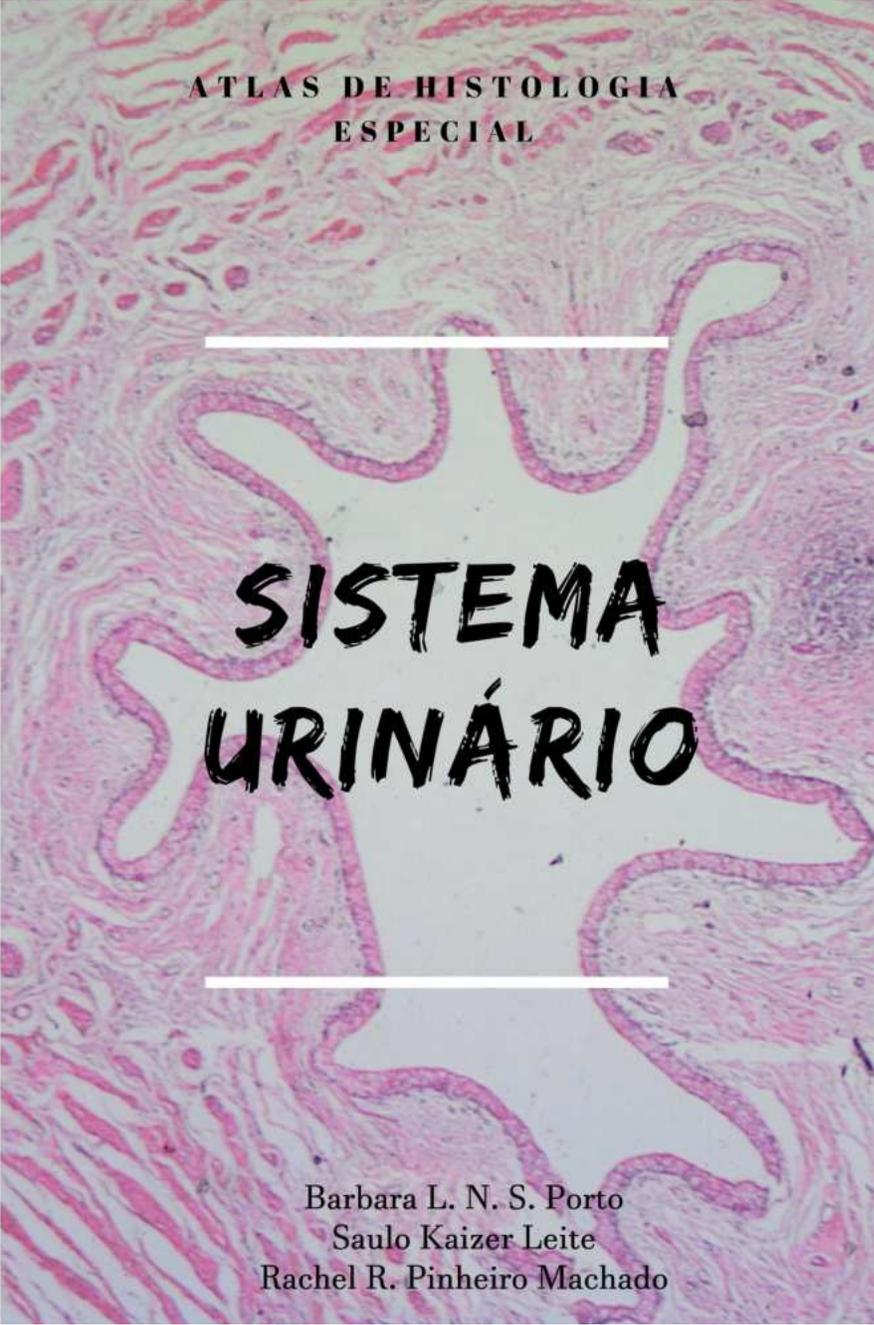
**Hipófise - 10x - adenohipofise - *pars distalis* - meninge - pia-mater**



**Hipófise - 10x -  
neurohipófise**



**Tireóide - 10x**



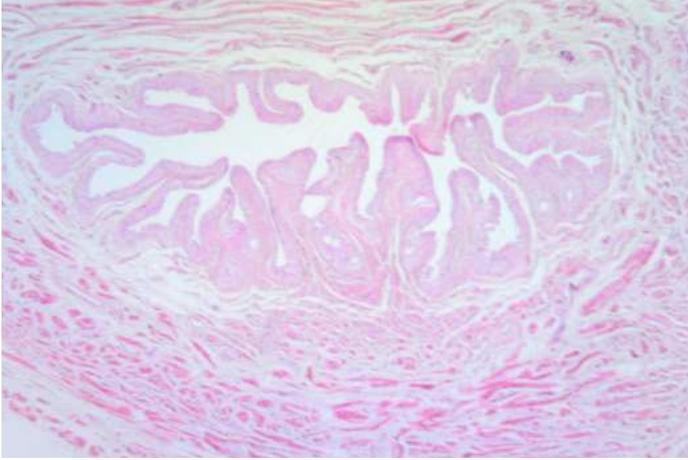
**ATLAS DE HISTOLOGIA  
ESPECIAL**

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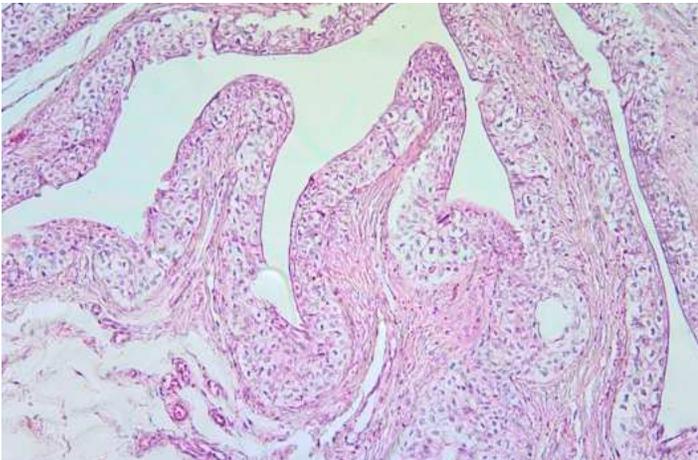
**SISTEMA  
URINÁRIO**

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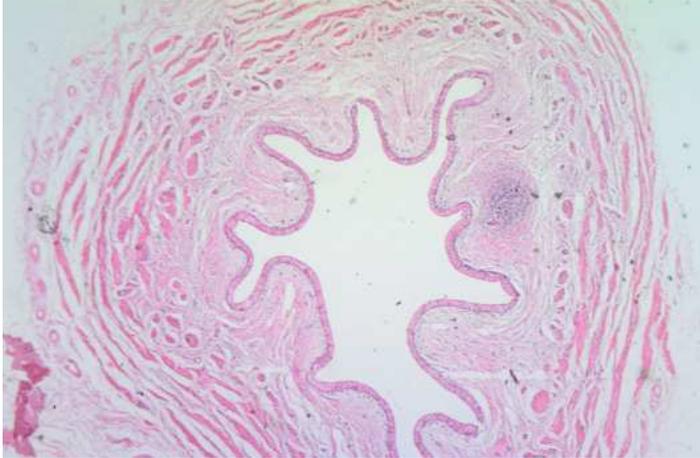
Barbara L. N. S. Porto  
Saulo Kaizer Leite  
Rachel R. Pinheiro Machado



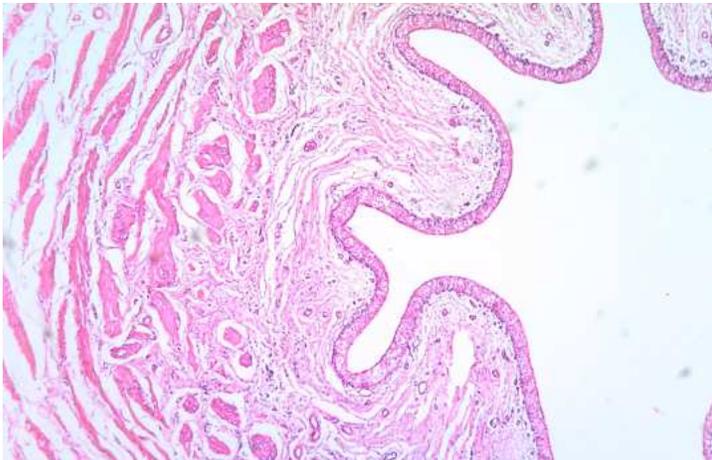
**Bexiga - panorâmica**



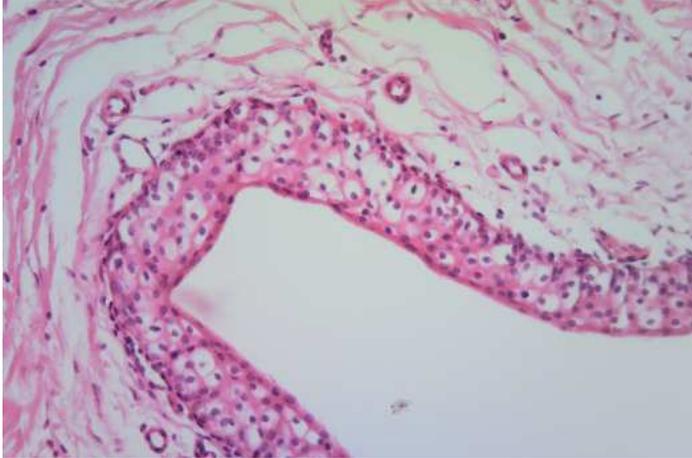
**Bexiga - 10x**



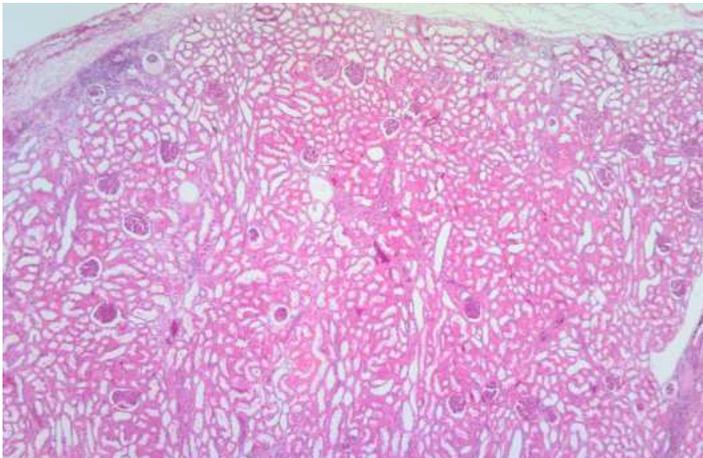
**Ureter - panorâmica**



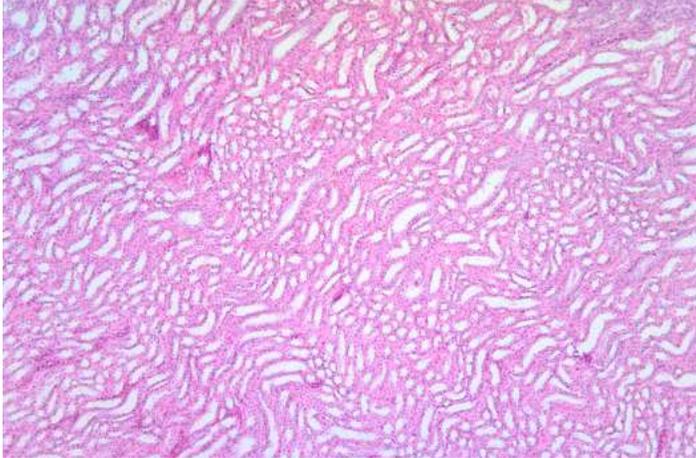
**Ureter - 4x**



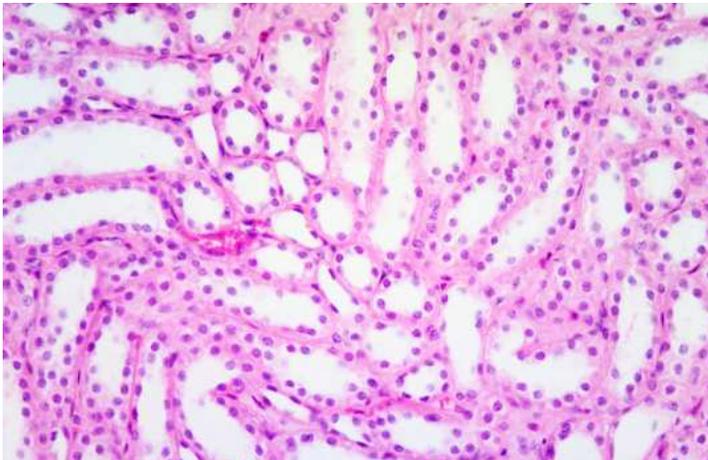
**Mucosa do ureter**



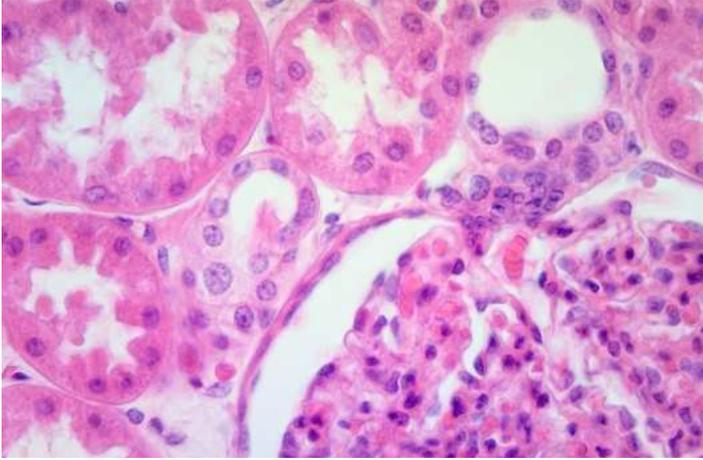
**Rim - Panorâmico (córteX)**



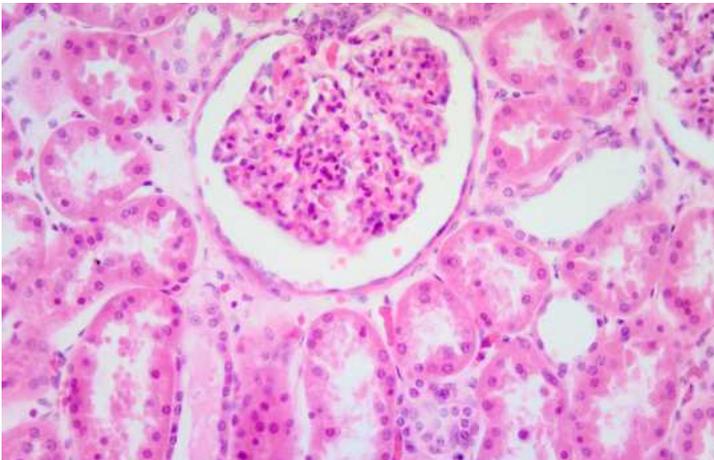
**Rim - medula - 4x**



**Rim - medula - 20x**



**Rim - Mácula Densa**



**Rim - Corpúsculo Renal**



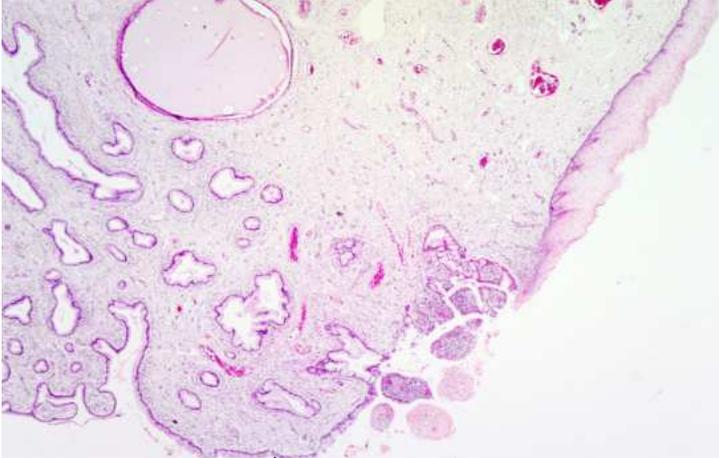
ATLAS DE HISTOLOGIA  
ESPECIAL

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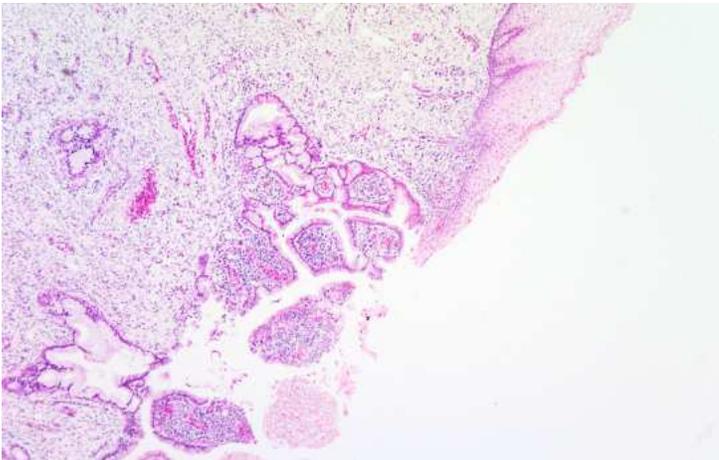
**SISTEMA  
REPRODUTOR  
FEMININO**

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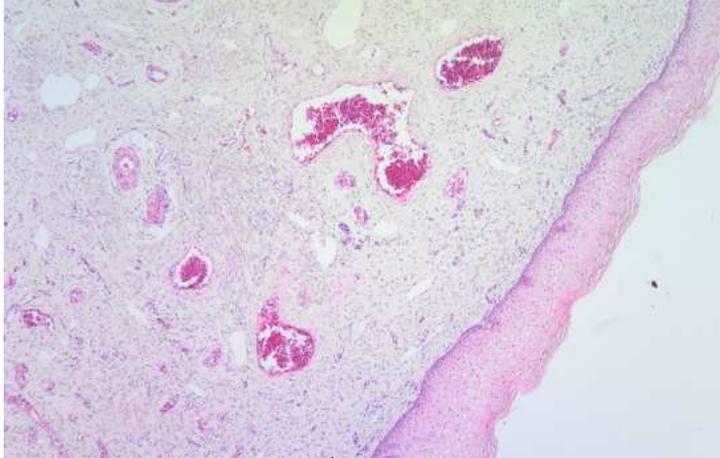
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Saulo Kaizer Leite  
Rachel R. Pinheiro Machado



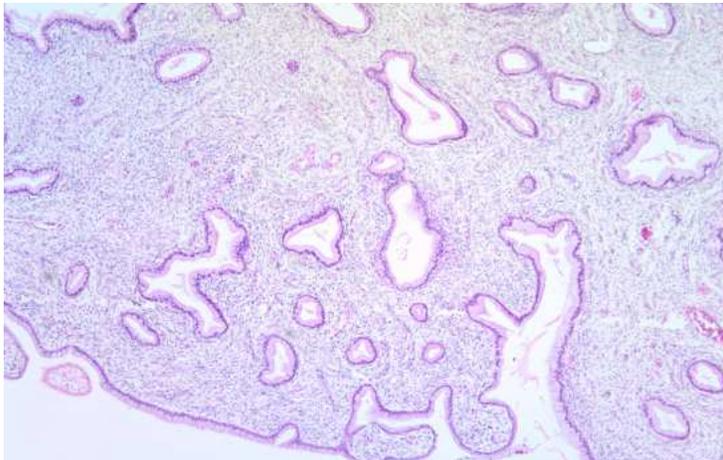
**Colo do Útero -  
Panorâmica**



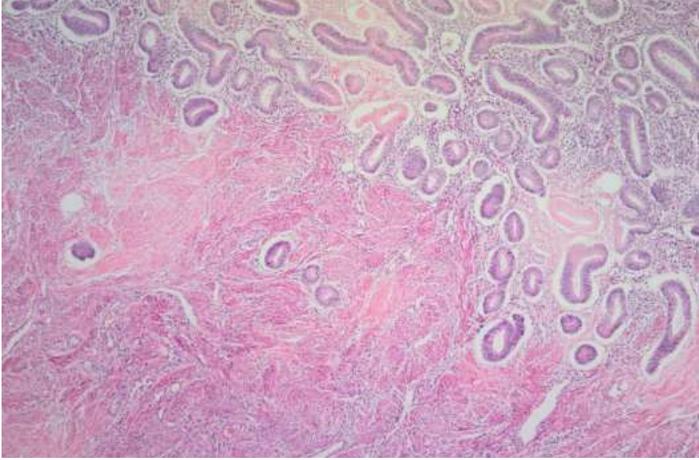
**Colo do Útero - 4x**



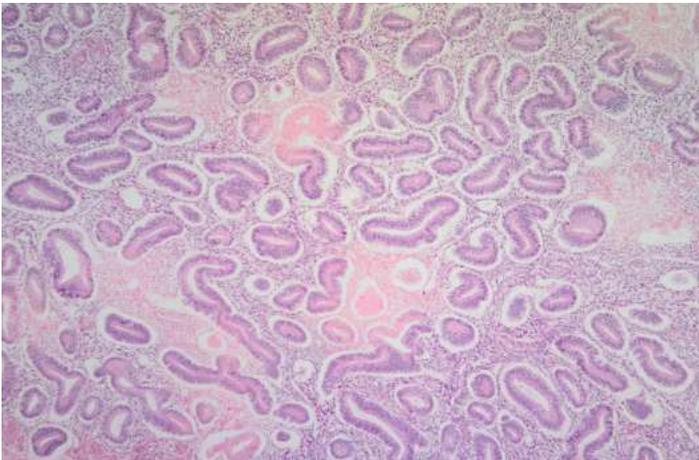
**Colo do Útero - ectocervice**  
**4x**



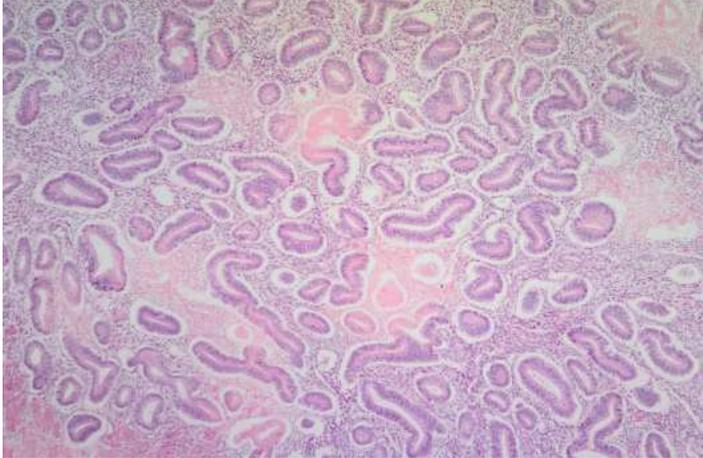
**Colo do Útero - endocervice 4x**



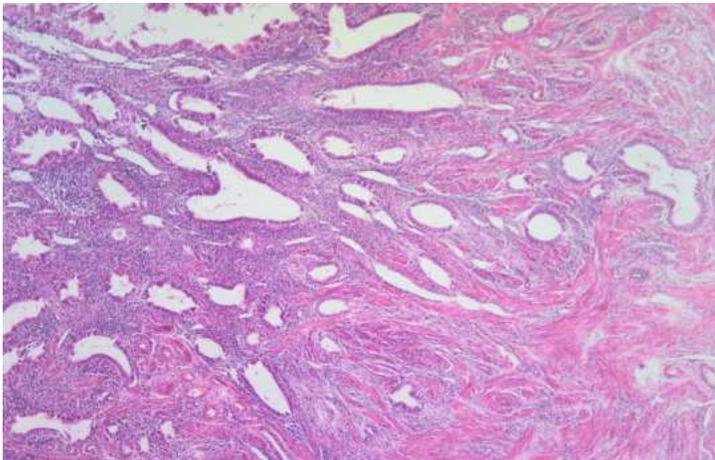
**Endométrio - Basal**



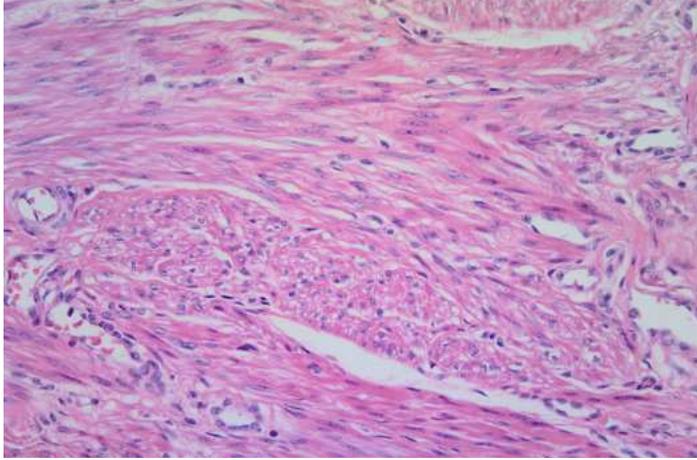
**Endométrio - Funcional**



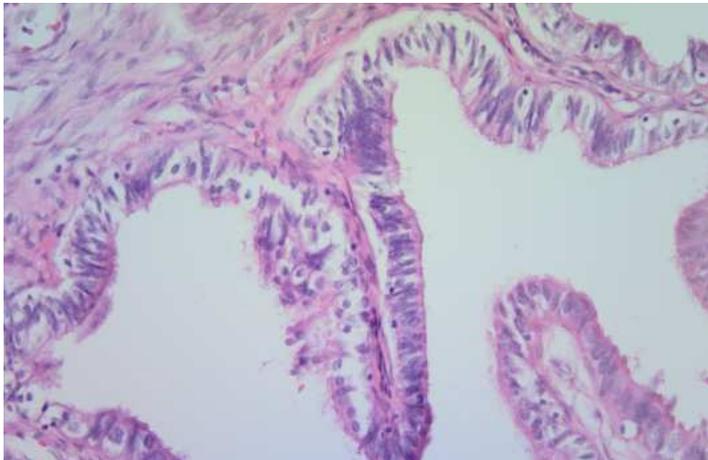
**Endométrio - proliferativo**  
**10x**



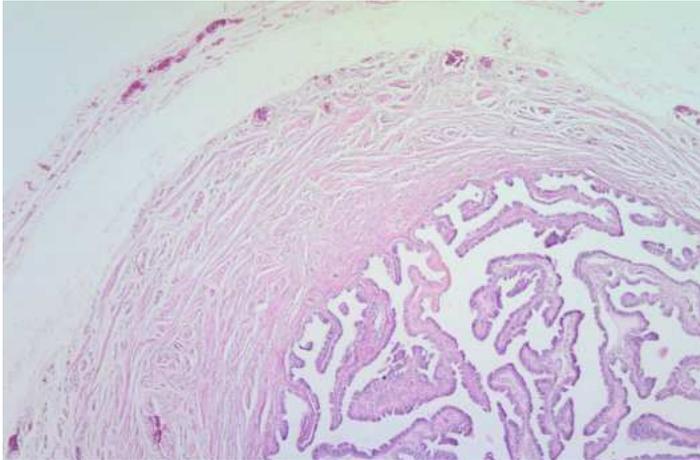
**Endométrio - secretório**  
**10x**



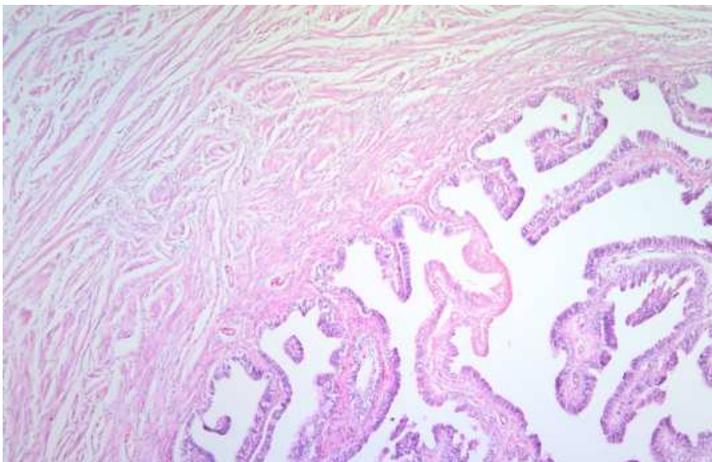
**Miométrio**



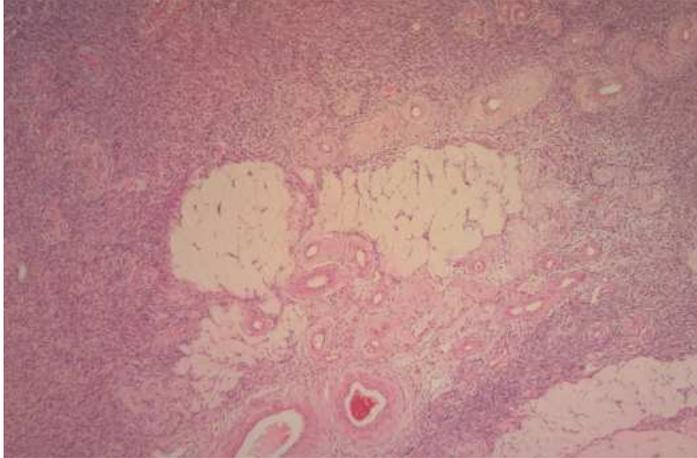
**Tuba Uterina - Mucosa**



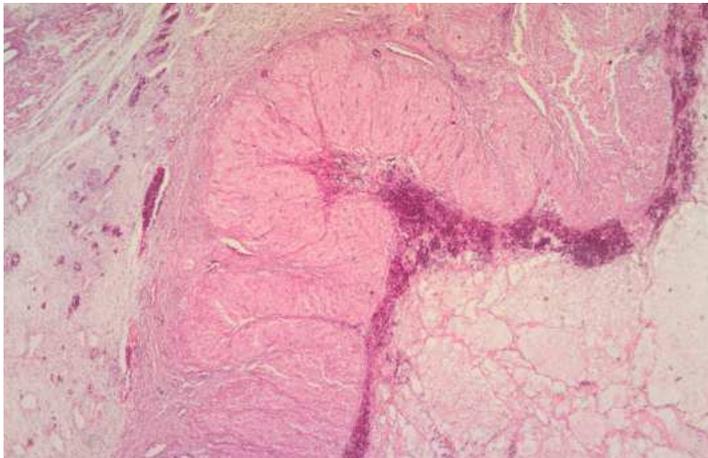
**Tuba Uterina -  
panorâmica**



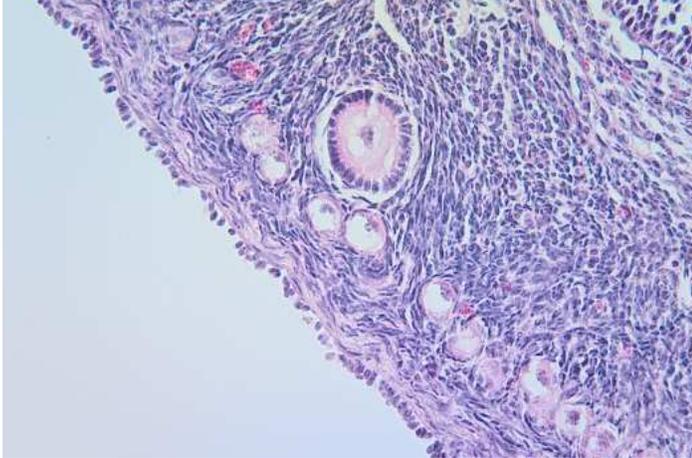
**Tuba Uterina - 4x**



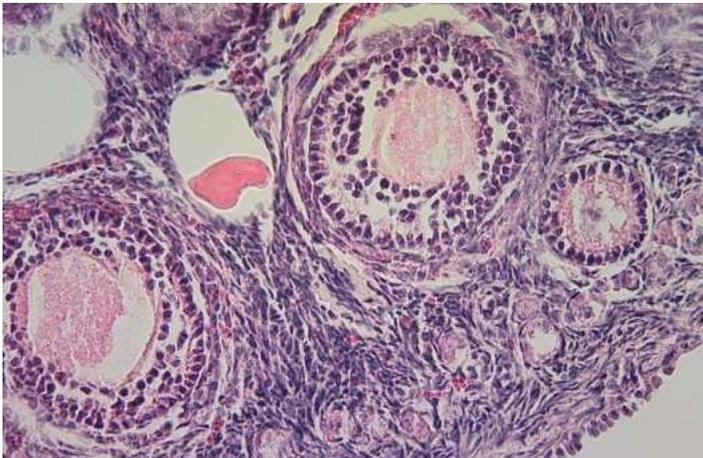
**Ovário - Corpo albicans**



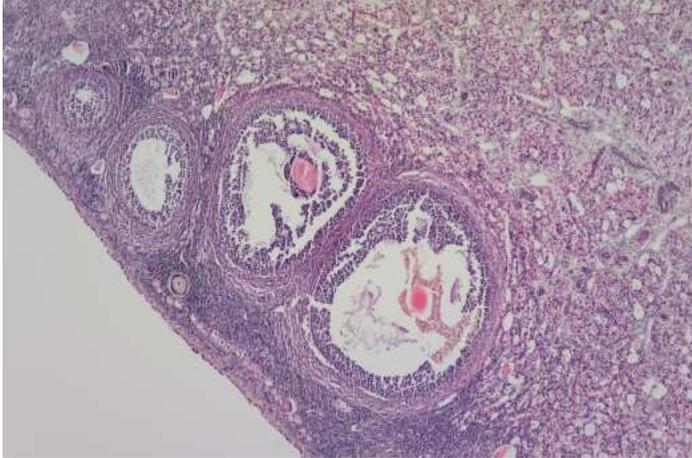
**Ovário - Corpo Lúteo**



**Ovário - Folículos - 20x -  
folículo primário e  
primordiais**



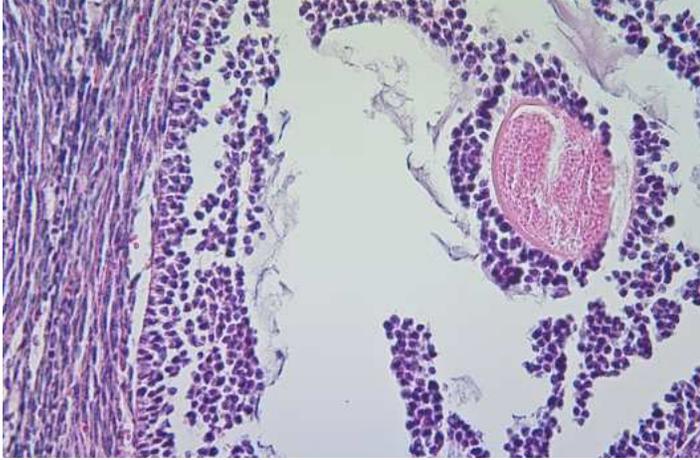
**Ovário - Folículos - 20x -  
folículo primário multilaminar**



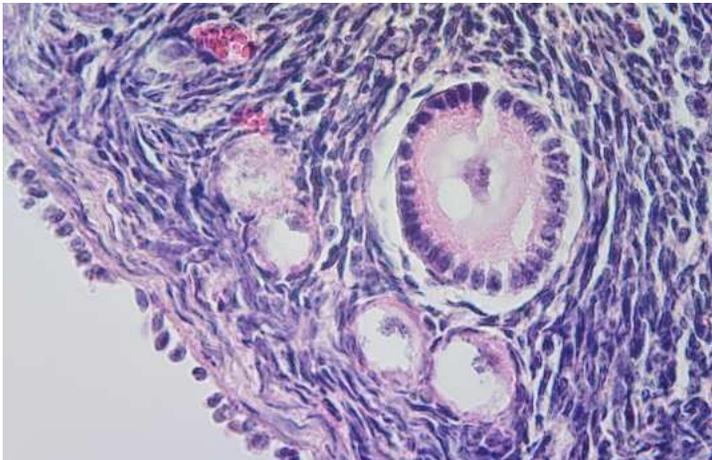
**Ovário - Folículos 4x**



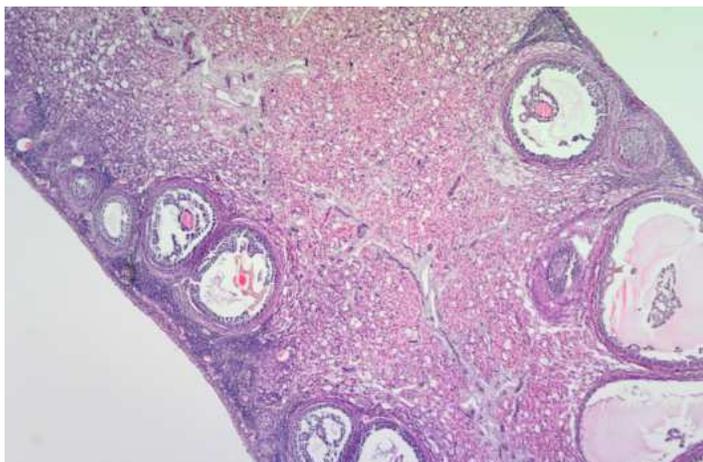
**Ovário - Folículos 20x**



**Ovário - folículos - 20x  
- tecas e ovócito**



**Ovário - folículos - 40x -  
folículo primário e primordiais**



**Ovário - folículos  
(panorâmica)**



**ATLAS DE HISTOLOGIA  
ESPECIAL**

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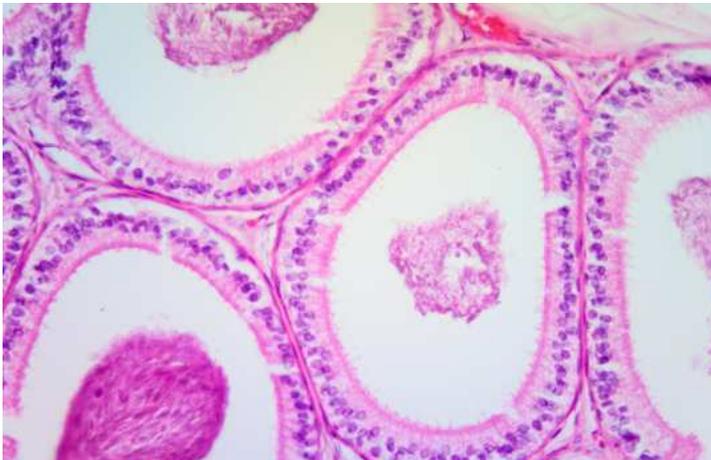
**SISTEMA  
REPRODUTOR  
MASCULINO**

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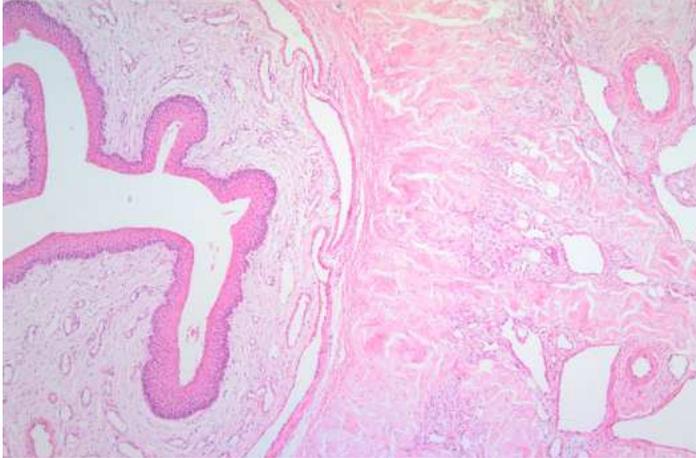
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Saulo Kaizer Leite  
Rachel R. Pinheiro Machado



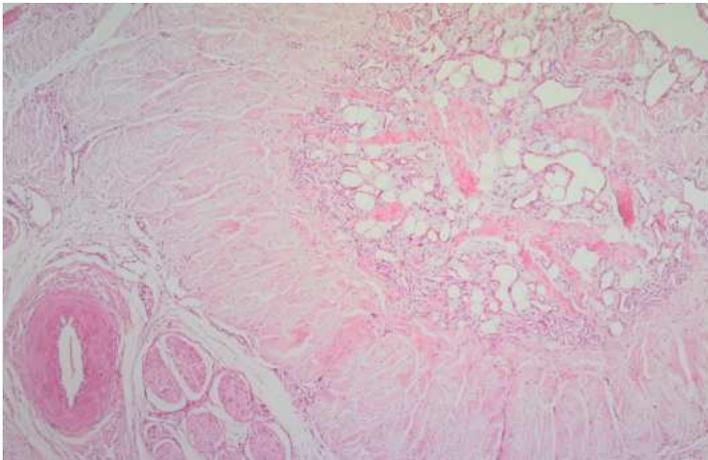
**Epidídimo - 4x**



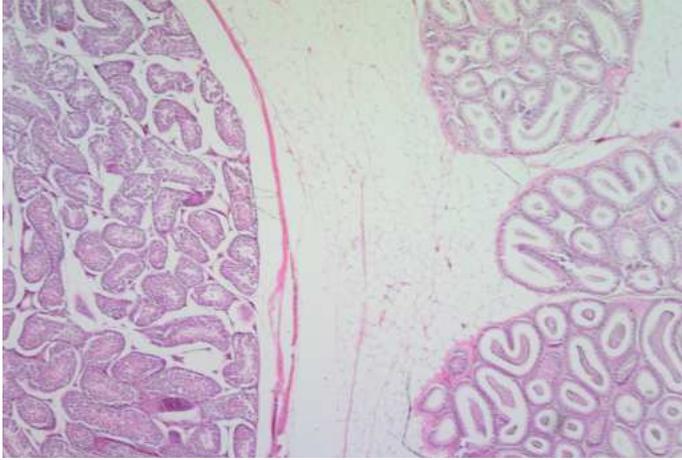
**Epidídimo - 20x**



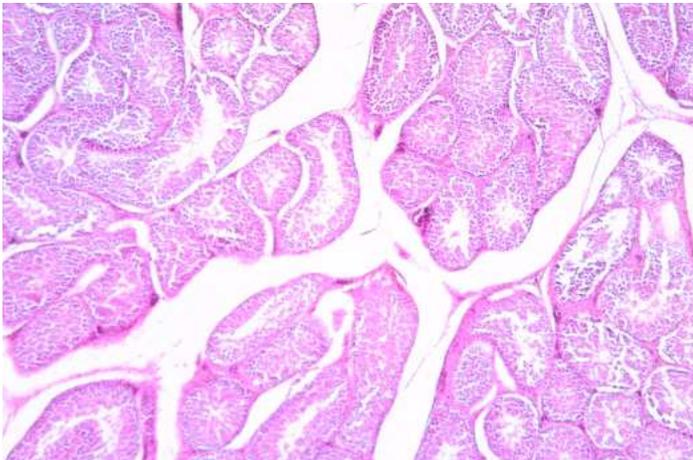
**Pênis - esponjoso e  
cavernoso**



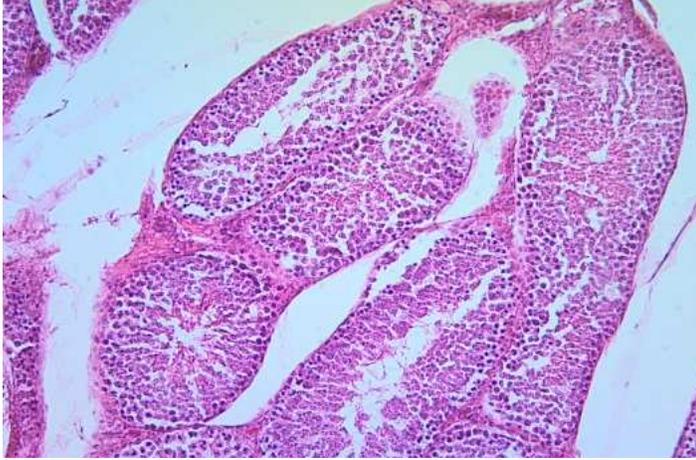
**Pênis - túnica e  
cavernoso**



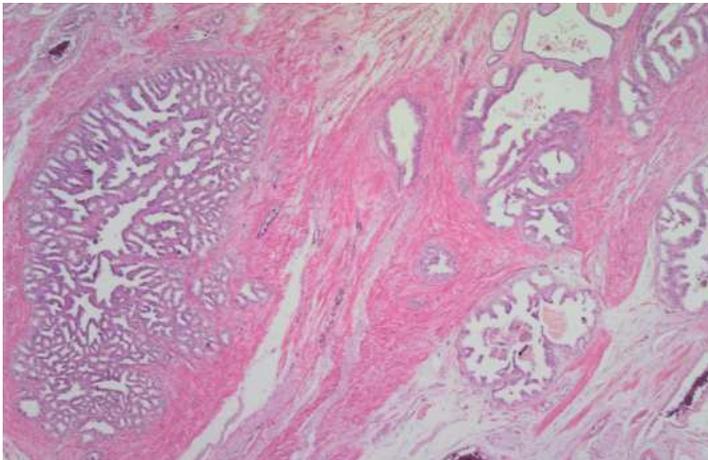
**Testículo e Epidídimo**



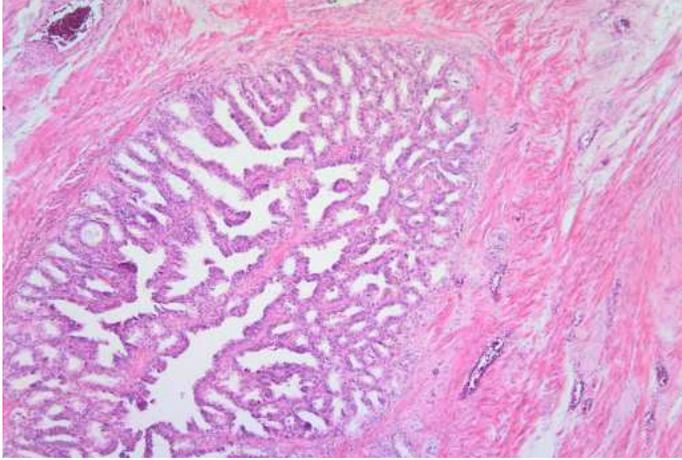
**Testículo 4x**



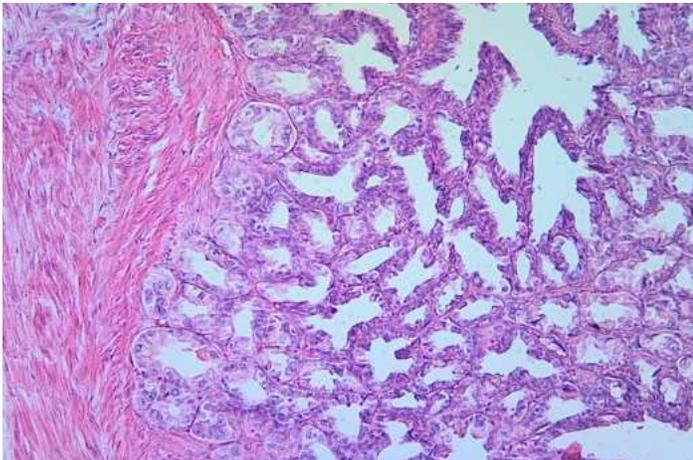
**Testículo - 10x**



**Vesícula Seminal**



**Vesícula Seminal 4x**



**Vesícula Seminal 10x**

A histological section of lymphoid tissue, likely a lymph node, stained with hematoxylin and eosin (H&E). The image shows a dense population of lymphocytes, with several prominent lymphoid follicles (nodules) visible. The follicles are composed of a central area of dark-staining cells (centrocytes) surrounded by a lighter-staining outer layer (mantle zone). The overall architecture is characteristic of a lymphoid organ.

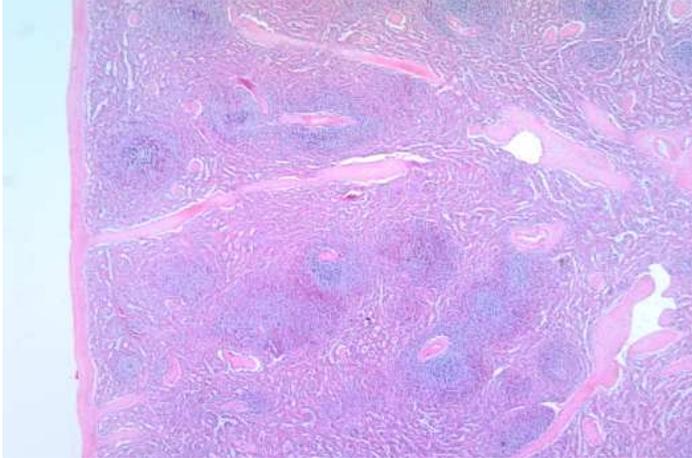
**ATLAS DE HISTOLOGIA  
ESPECIAL**

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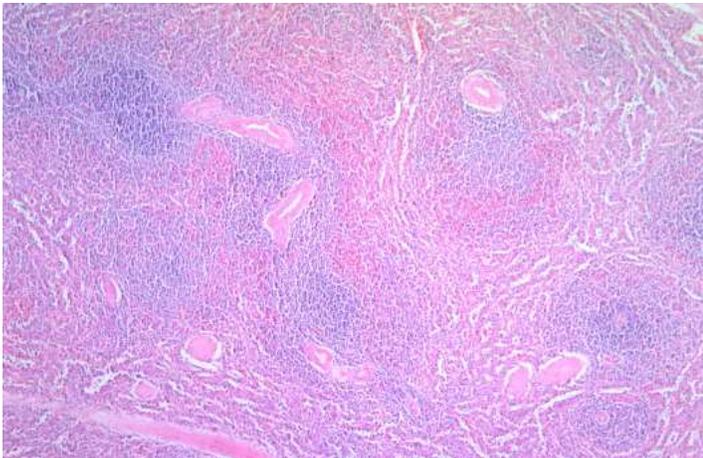
**SISTEMA  
LINFÓIDE**

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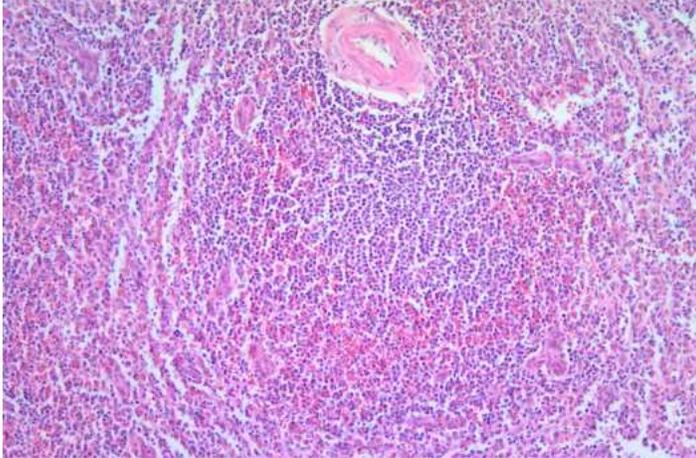
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Saulo Kaizer Leite  
Rachel R. Pinheiro Machado



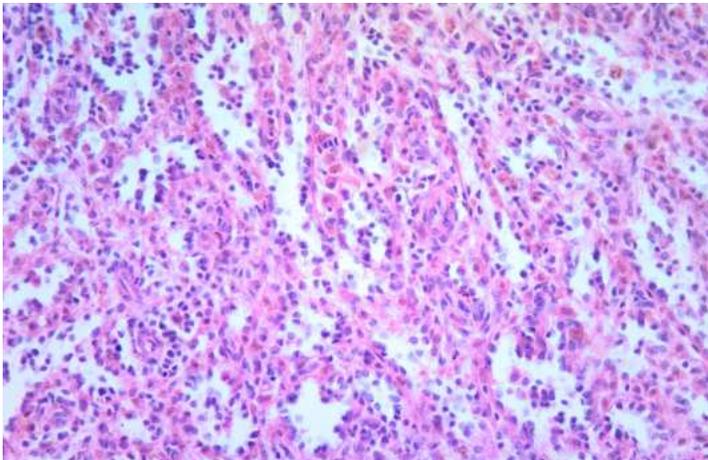
**Baço - panorâmica**



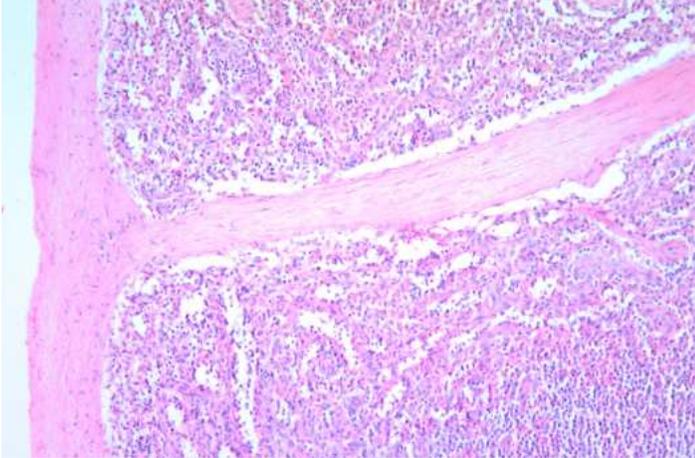
**Baço 4x - Polpa Branca e Polpa Vermelha**



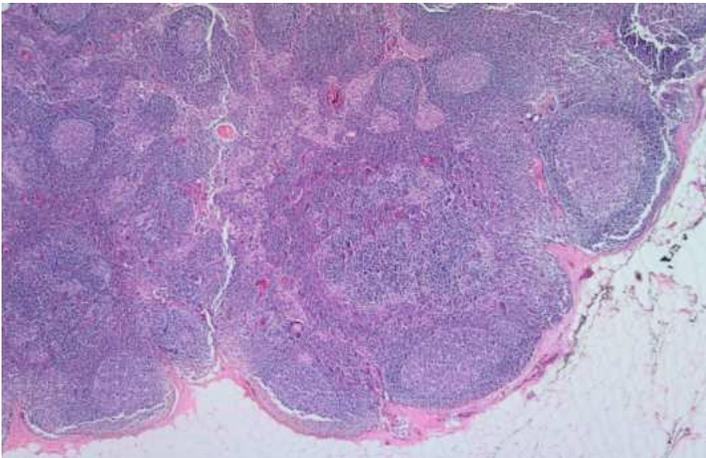
**Baço - polpa branca e  
arteríola 10x**



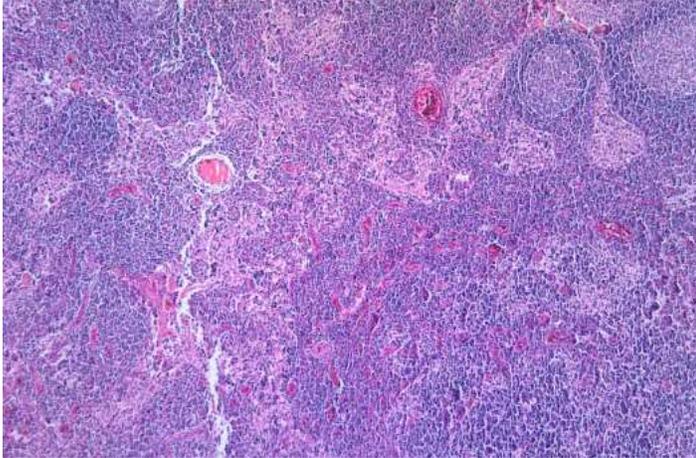
**Baço - polpa vermelha  
20x**



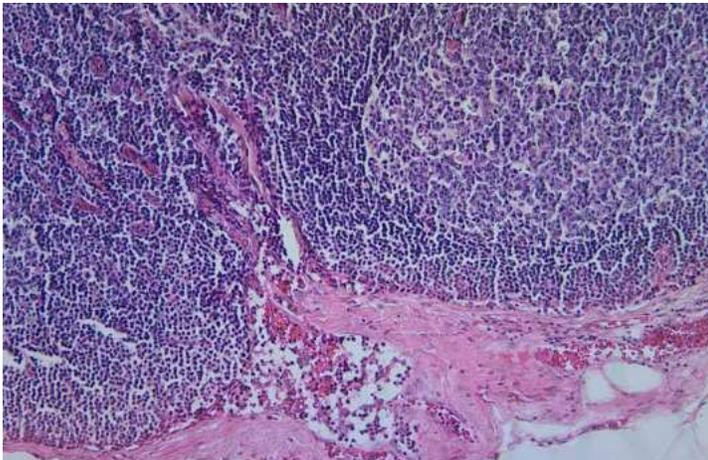
**Baço - Trabécula 10x**



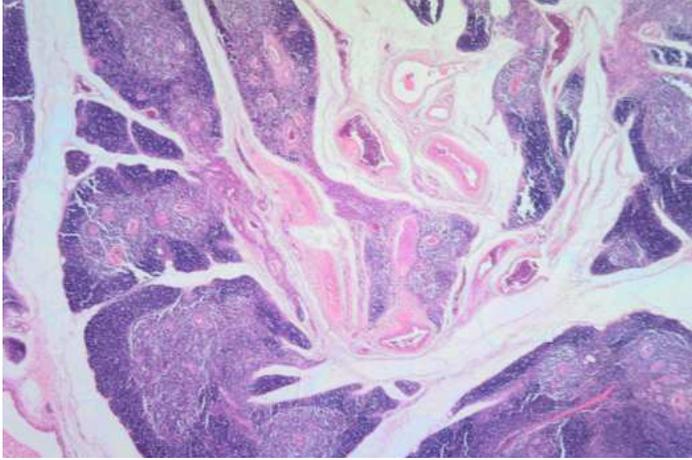
**Linfonodo - Cortical**



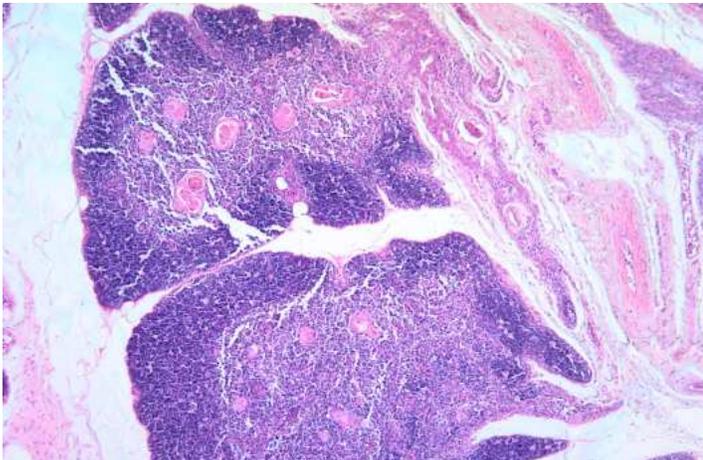
**Linfonodo - Região  
Paracortical**



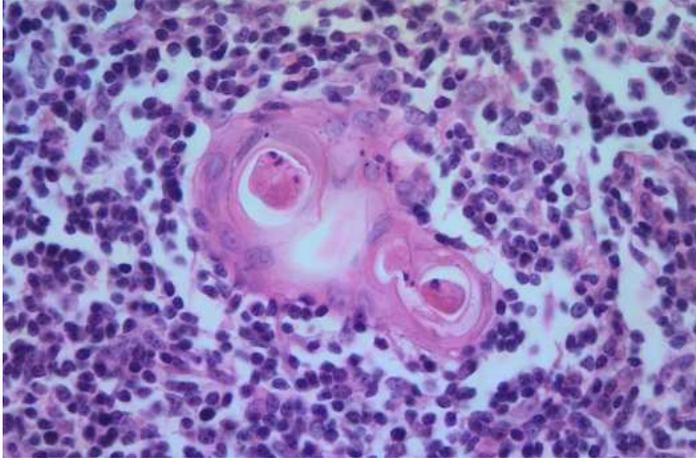
**Linfonodo - seio  
subcapsular**



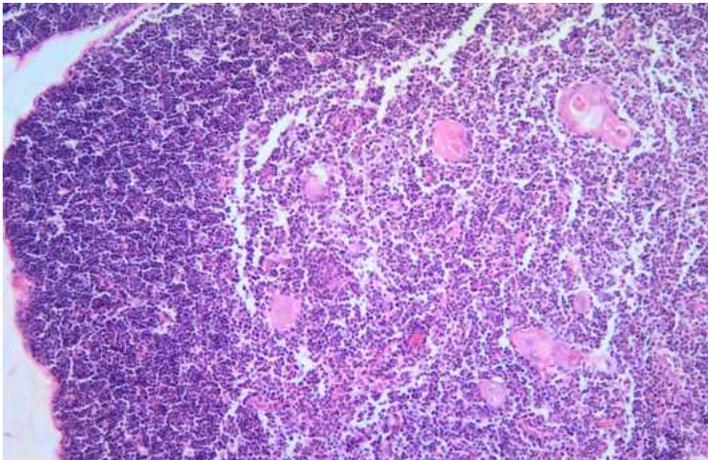
**Timo - panorâmica**



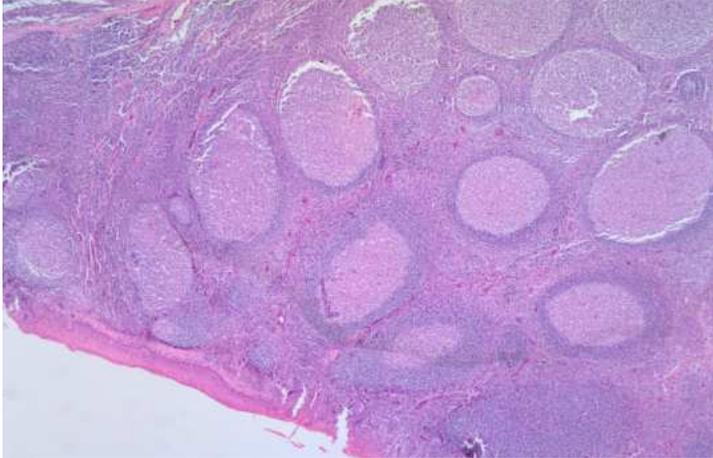
**Timo - Região cortical e medular**



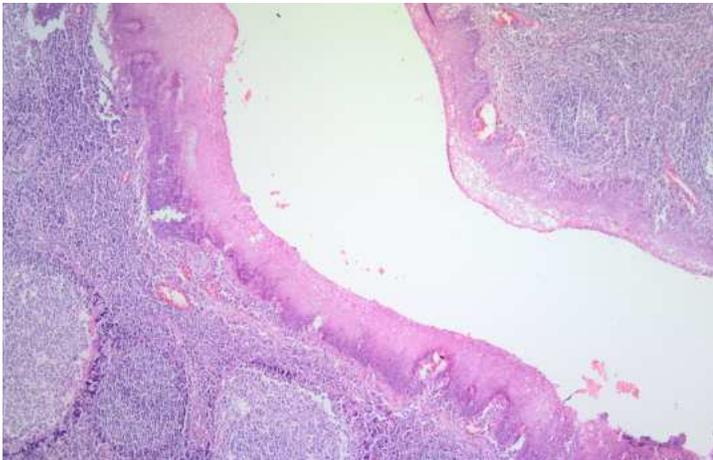
**Timo - Corpúsculo de  
Hassal**



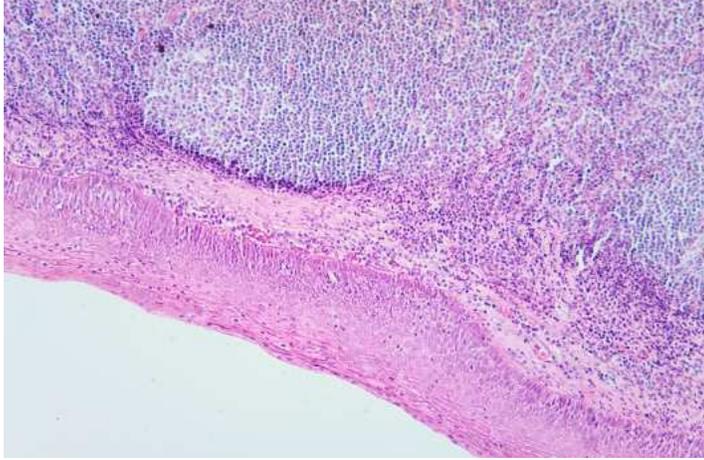
**Timo - região cortical e  
medular e corpúsculos de  
Hassal - 10x**



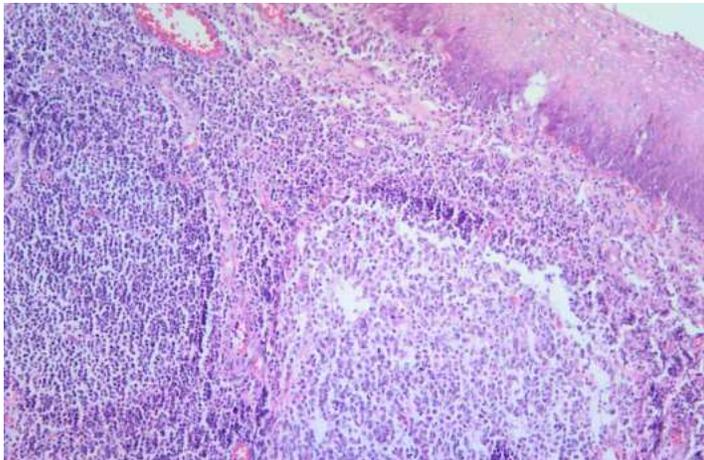
**Tonsila Palatina -  
panorâmica**



**Tonsila palatina -  
cripta**



**Tonsila palatina - 10x**



**Tonsila palatina - 10x - epit lio  
e n dulo linf ide**



Rachel R P Machado é nascida em Niterói-RJ , estudou Ciências Biológicas na Universidade Federal de Juiz de Fora, fez Mestrado em Patologia Experimental na Universidade Federal Fluminense e Doutorado em Ciências na Universidade Federal do Rio de Janeiro.

Professora na FCMS/JF- SUPREMA desde 2005, vem desenvolvendo projetos de iniciação científica em assuntos diversos. O desenvolvimento do Atlas de Histologia Especial surgiu como iniciativa dos próprios estudantes, enquanto cursavam a disciplina Histologia Especial, ao elaborarem uma apostila com imagens e textos curtos explicando os cortes histológicos. Foi uma forma que encontraram para desenvolver melhor o ensino e aprendizagem do conteúdo.

Neste sentido, a existência do material reflete portanto, a importância do exercício da escuta



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**Graduada no ensino médio pela escola St Mary MacKillop College Canberra - Austrália. Acadêmica do curso de Medicina na Faculdade de Ciências Médicas e da Saúde de Juiz de Fora - SUPREMA e mentora do projeto Atlas de Histologia Especial**

A VIDA MELHORA

QUANDO TEMOS CLAREZA SOBRE AQUILO  
QUE PRETENDEMOS

*Criar*



**Suprema**

