

# Caso do mês

## Janeiro/2016 - 2

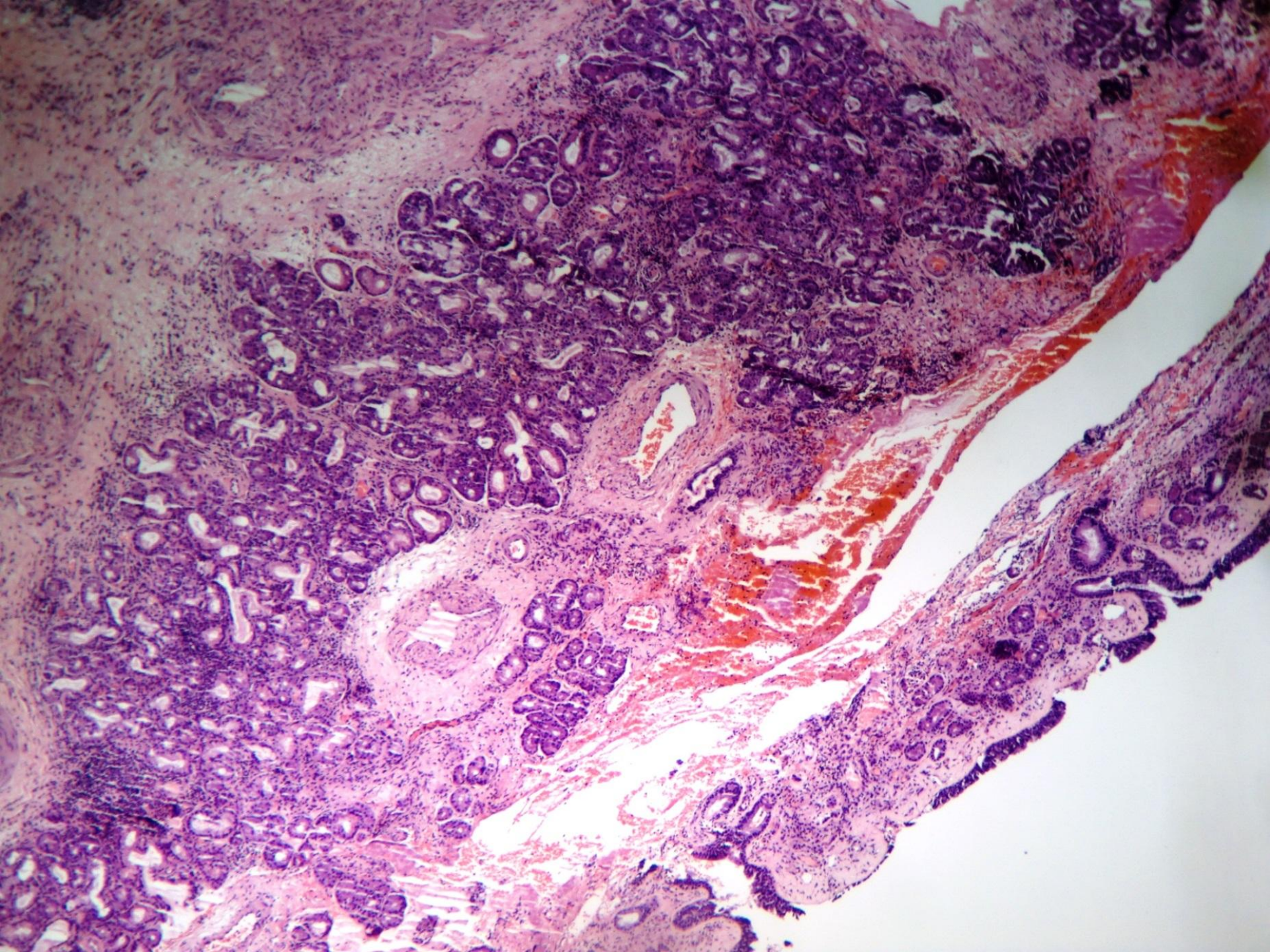
Carlos Camilo Neto

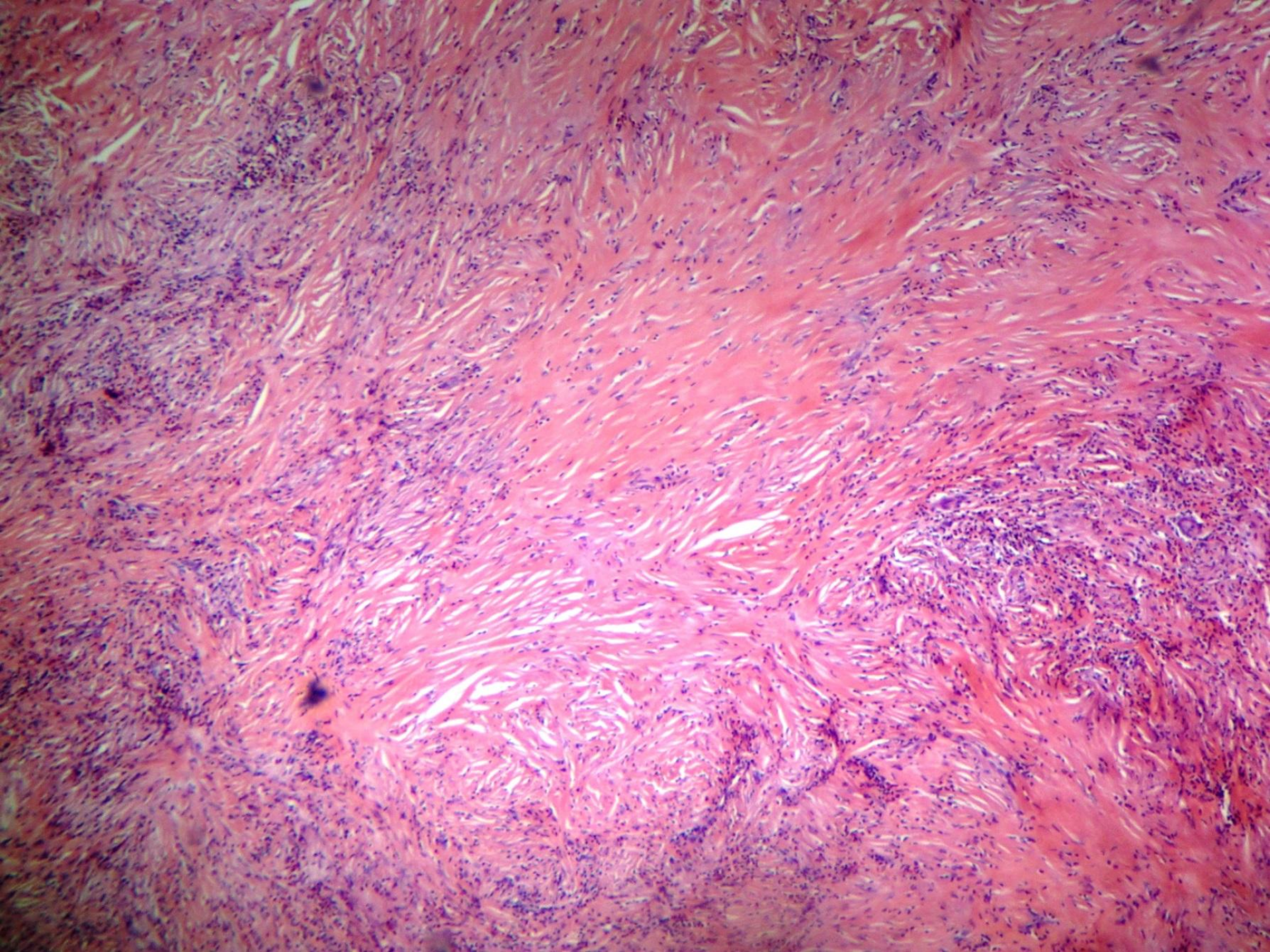
# História clínica

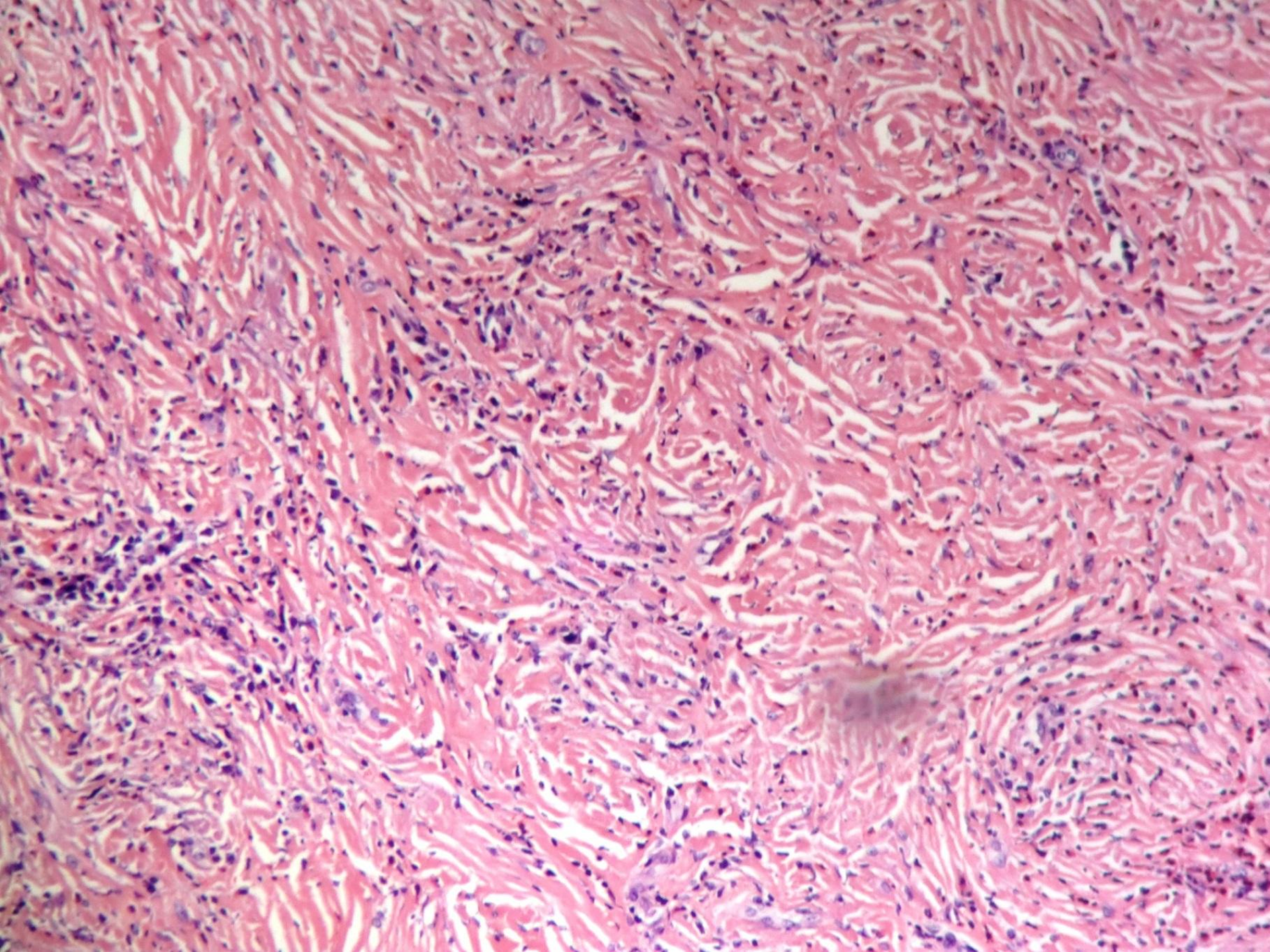
- . RAS, masculino, 34 anos
- . Paciente com história de trauma nasal
- . HD: Condroma?

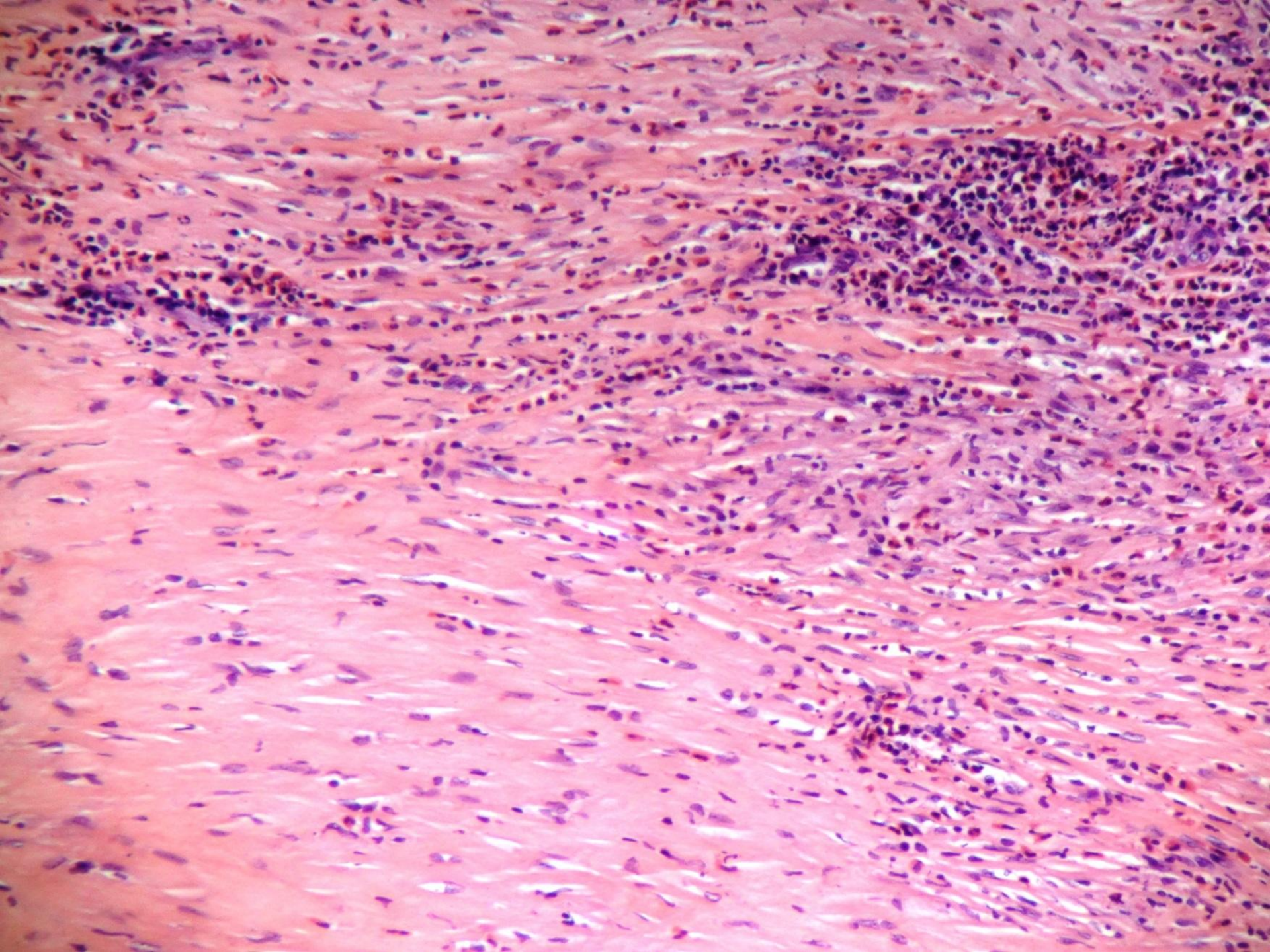
# História clínica

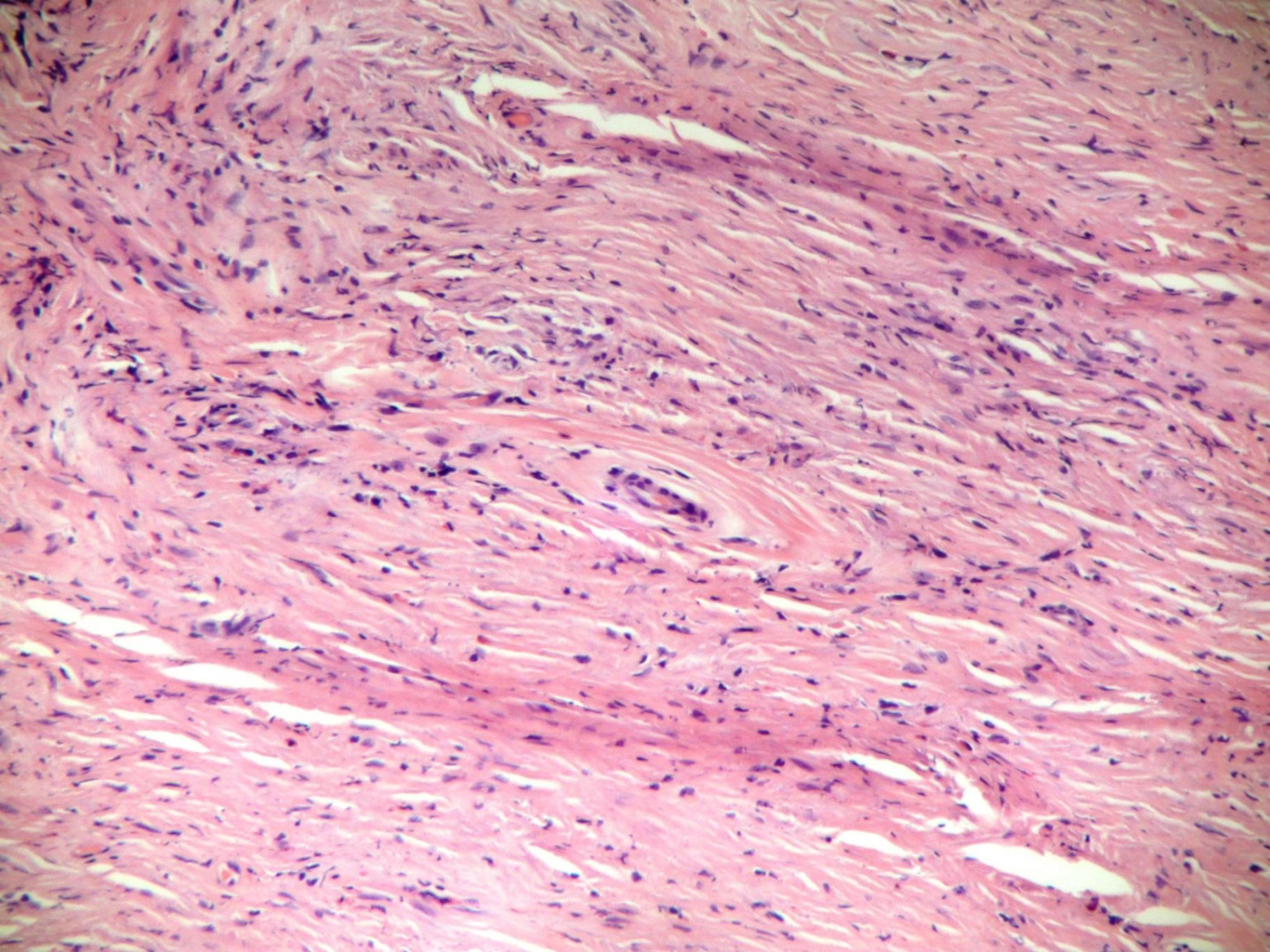
Não há informações de testes laboratoriais ou história patológica pregressa



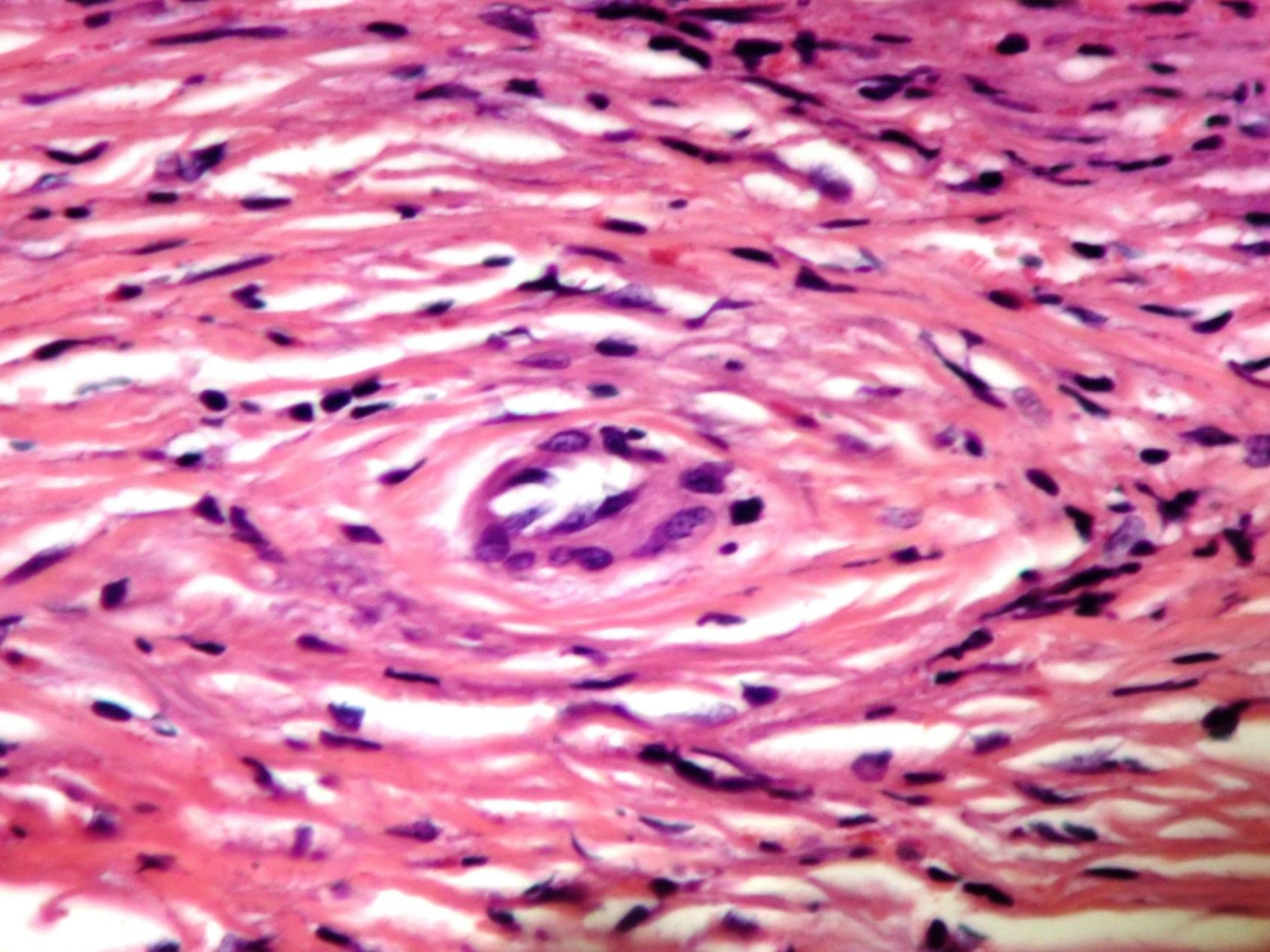


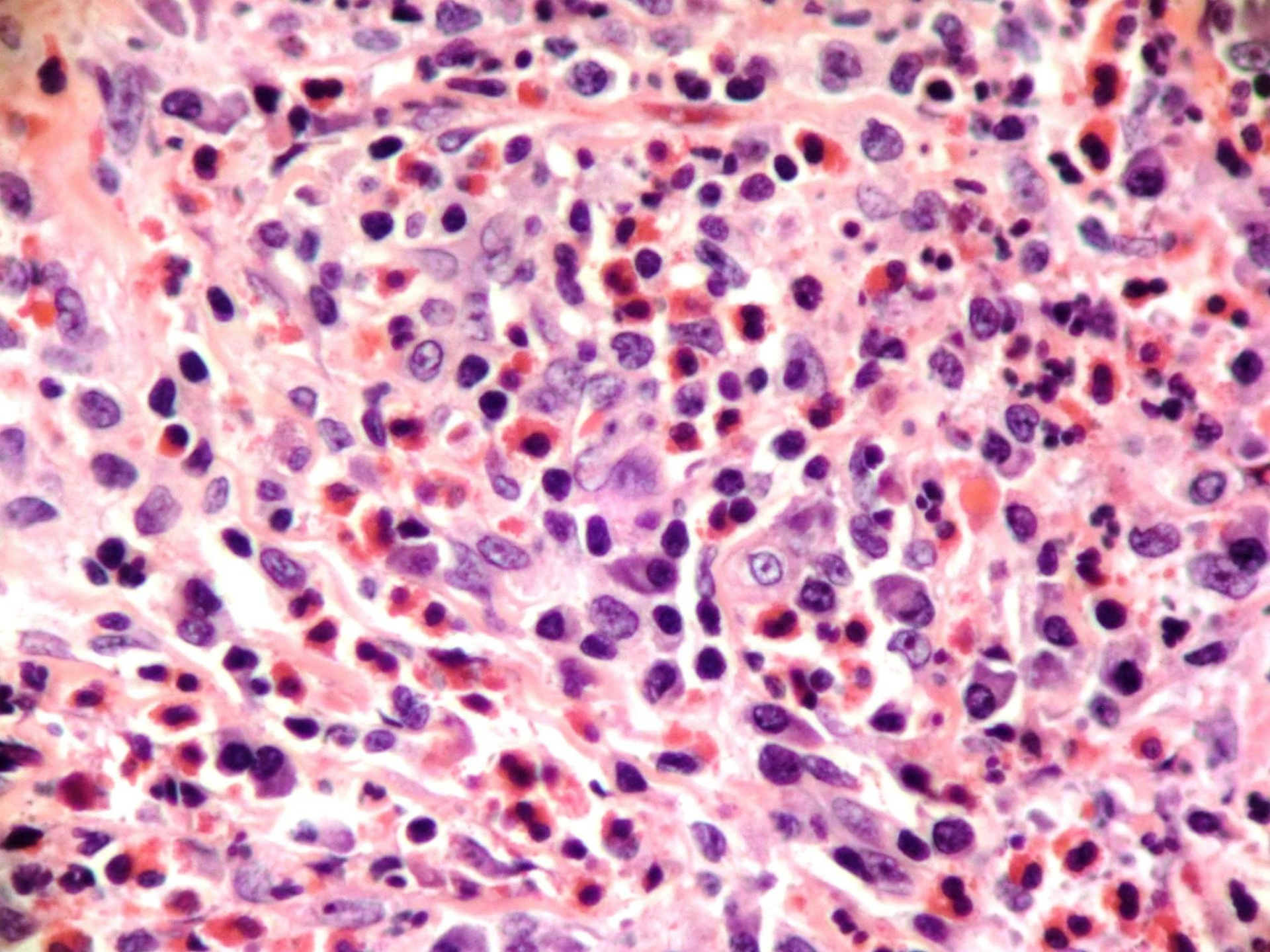










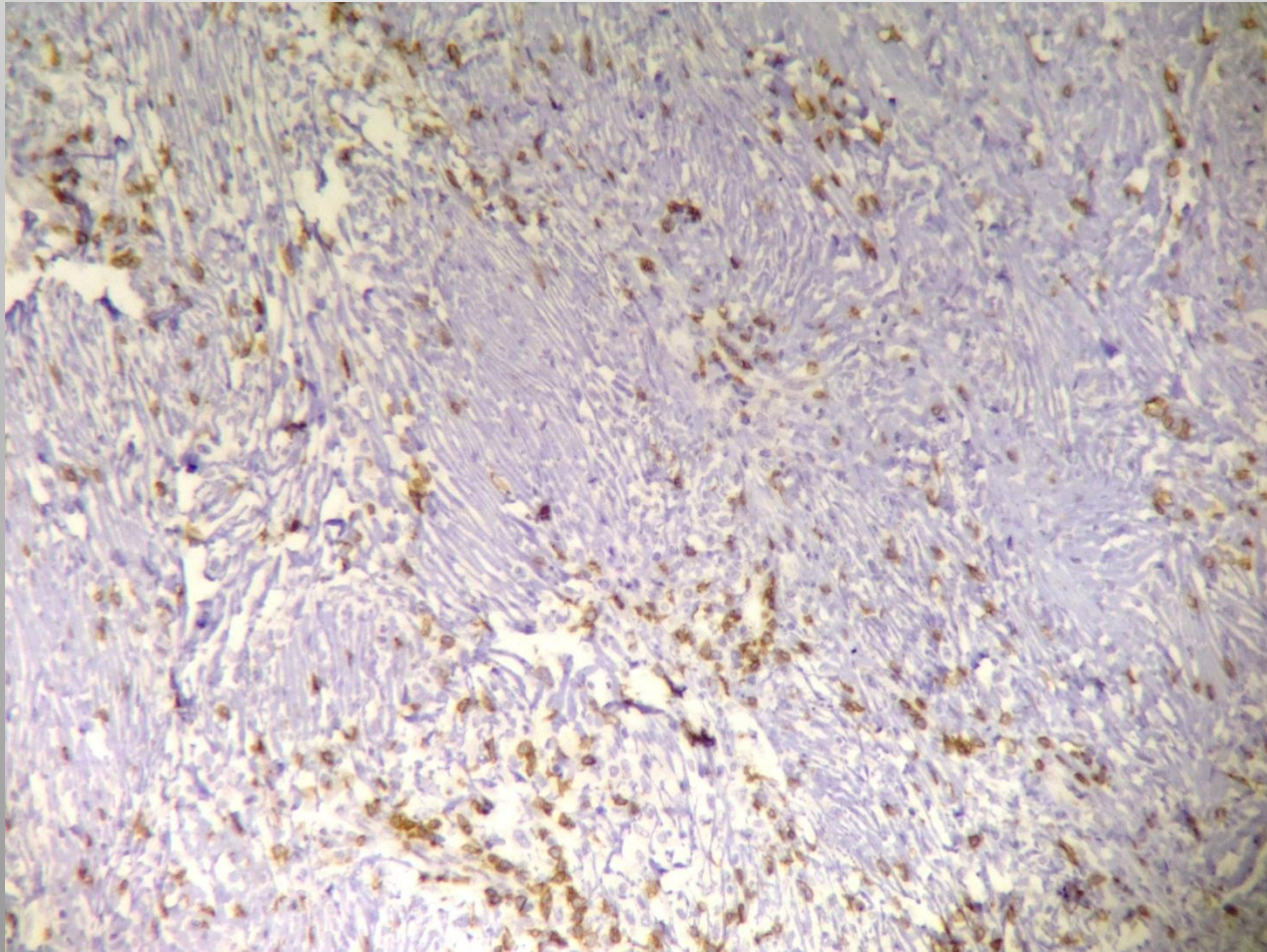


# Histologia

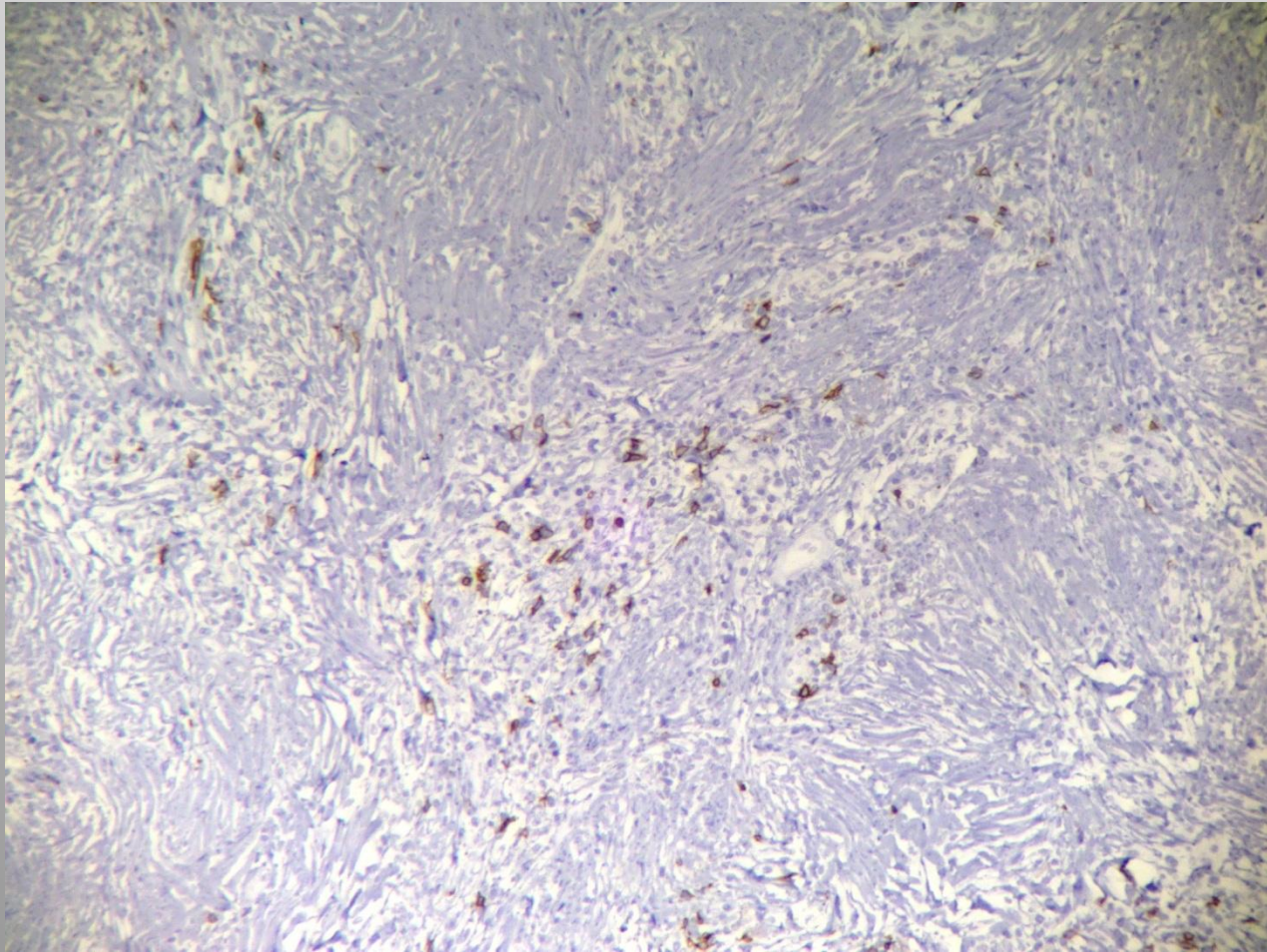
Ausência de:

- . Granulomas
- . Vasculite
- . Necrose
- . Flebite obliterativa

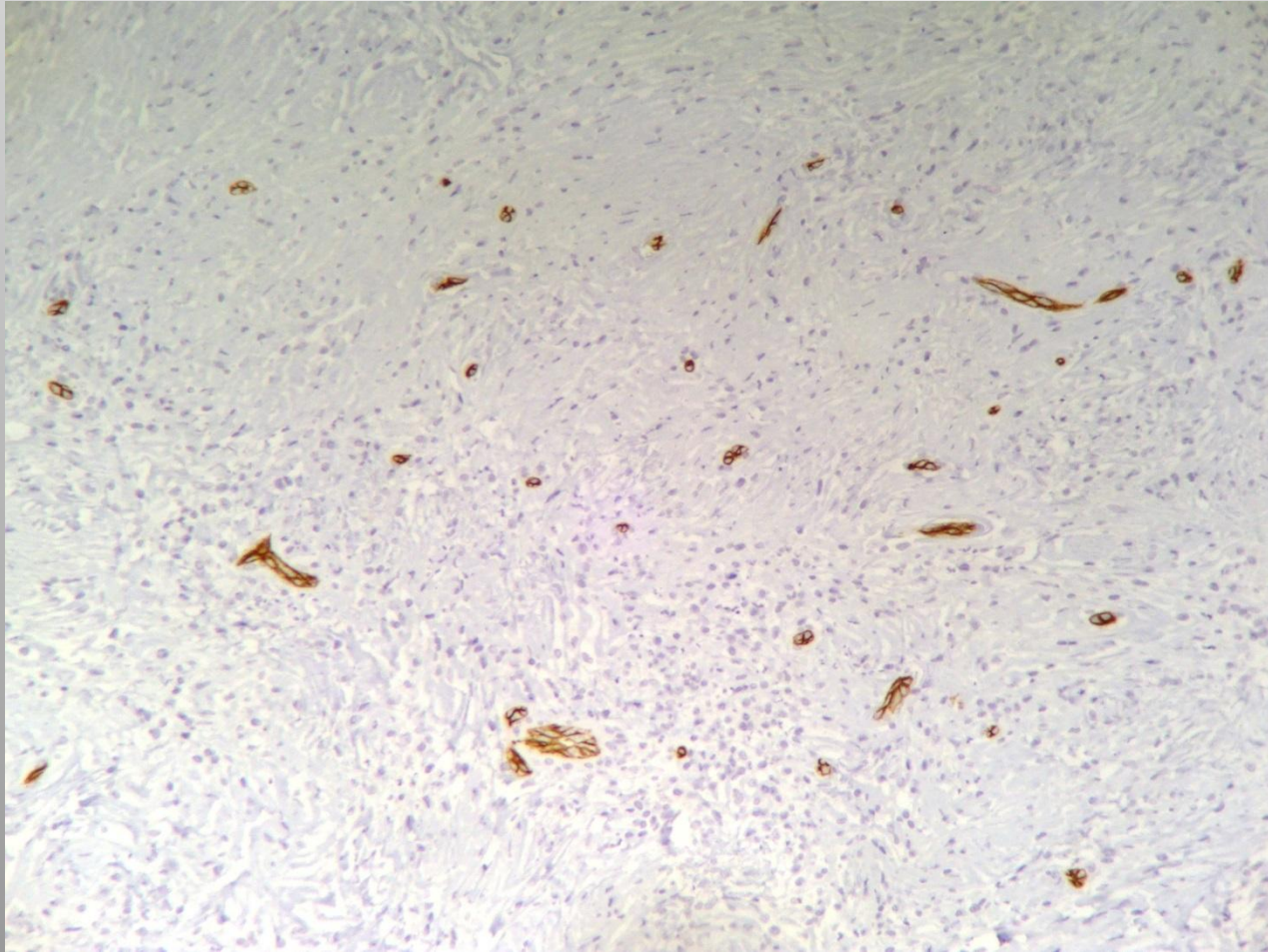
# CD3



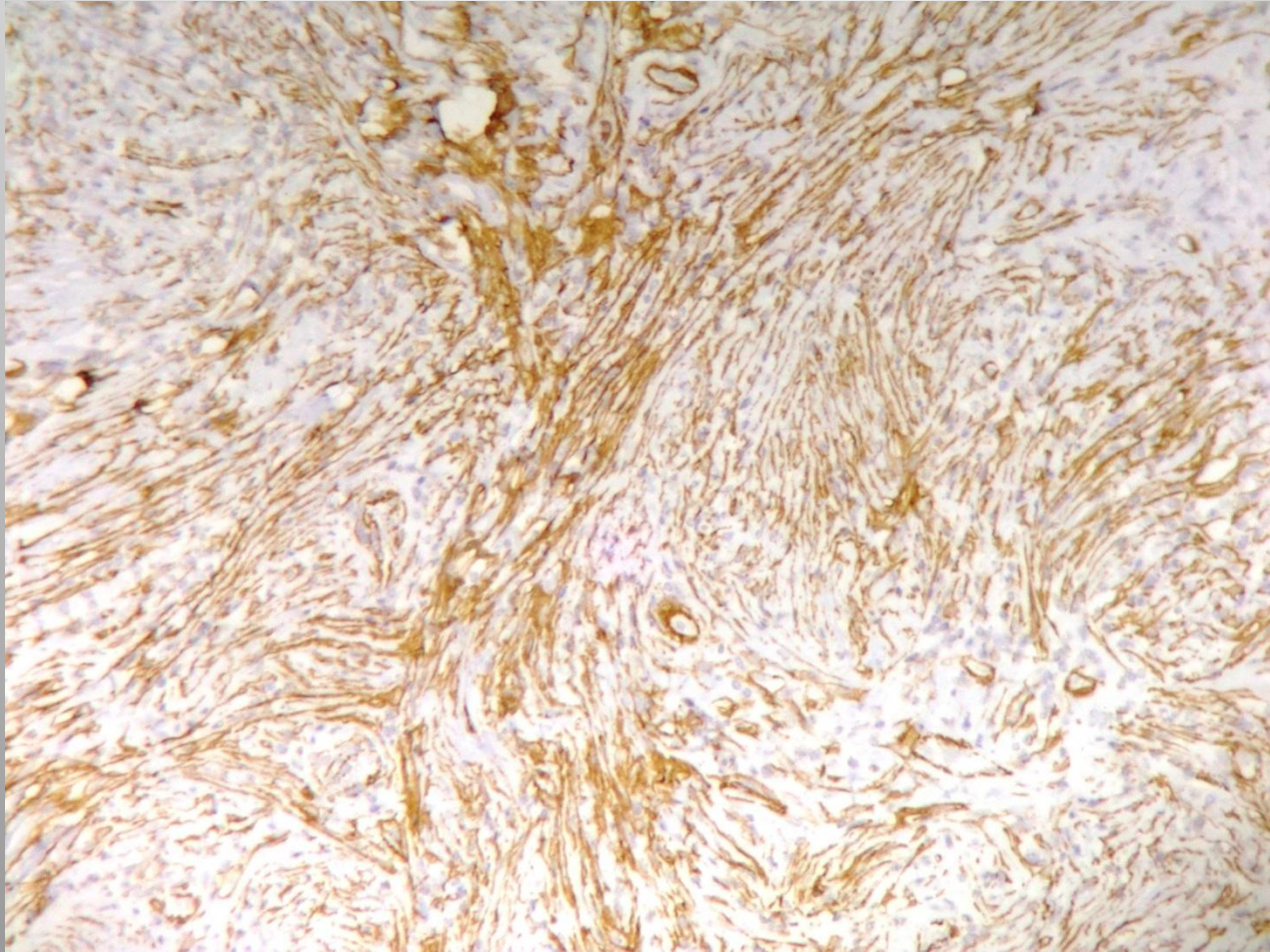
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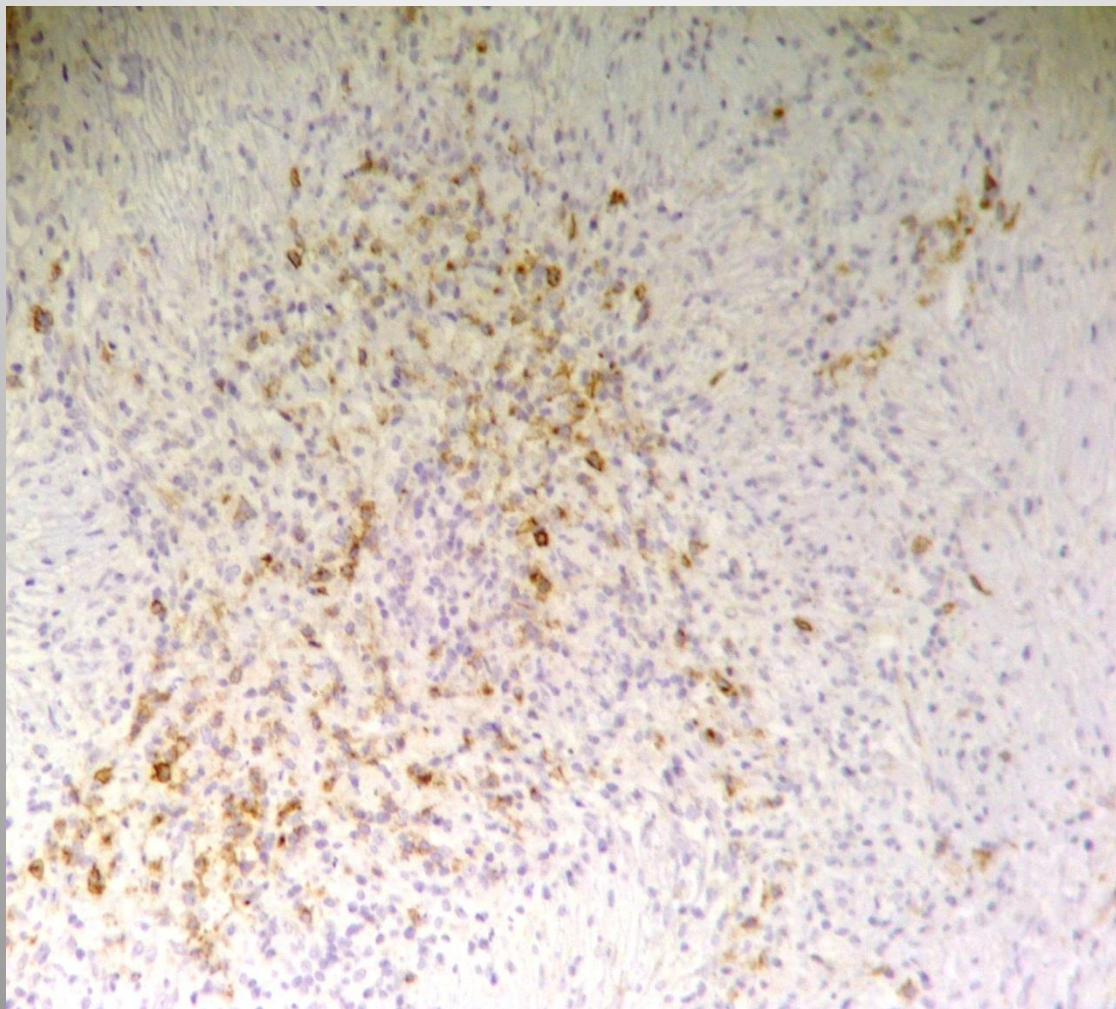
# CD34



# AML

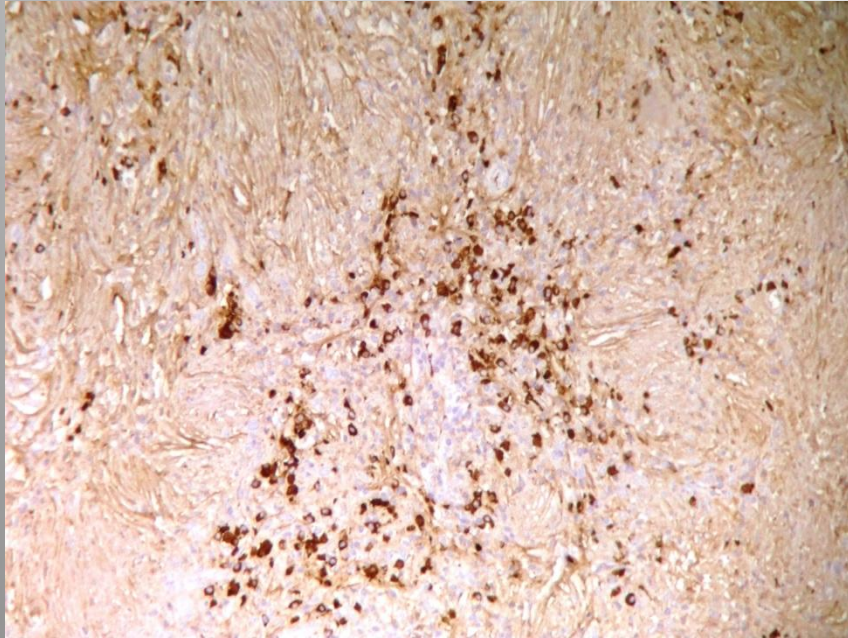


# CD 138

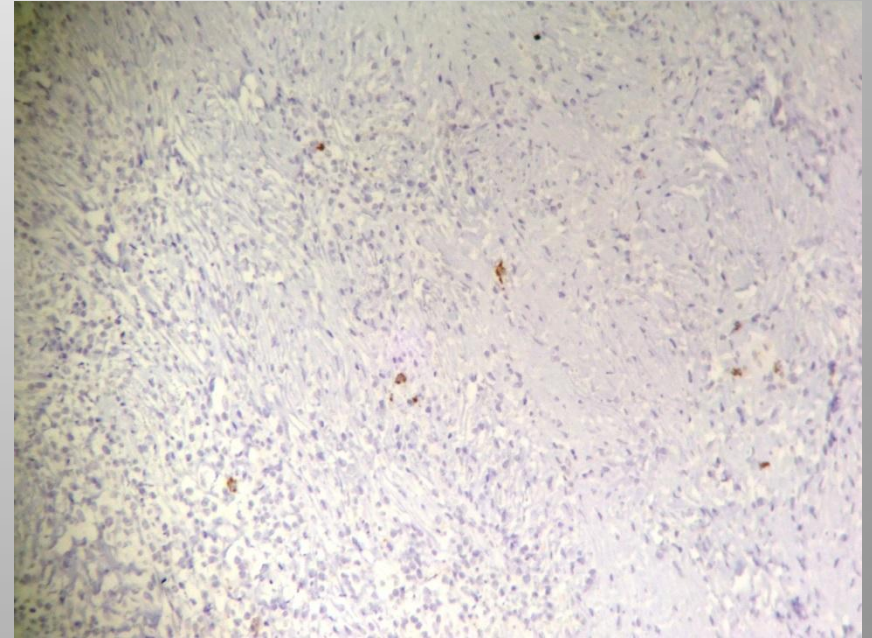




IgG



IgG4



# Anticorpos pesquisados

- . CD30 - negativo
- . Desmina - negativo
- . EBV - negativo
- . EMA - negativo
- . S100 - negativo
- . AE1/AE3 – negativo
- . CD15 – positivo nos granulócitos
- . Ki-67 – baixo índice proliferativo

Com base nestes  
aspectos, qual o  
diagnóstico?

# Diagnóstico

Fibrose angiocêntrica eosinofílica  
(que pode estar no espectro da doença  
esclerosante associada a IgG4)

## History of IgG4-related disease

- 1892 Mikulicz's disease
- 1961 Hyper-gammaglobulinemia in CP
- 1967 Familial multifocal fibrosclerosis
- 1972 Kuttner tumor
- 1991 Lymphoplasmacytic sclerosing pancreatitis
- 1995 Autoimmune pancreatitis
- 2001 High IgG4 levels in sclerosing pancreatitis (N Eng J Med)
- 2002 Japan Pancreas Society-Clinical diagnostic criteria for AIP
- 2003 Doença sistêmica relacionada ao *IgG4*
- 2006 Clinical diagnostic criteria for AIP
- 2006 Mayo criteria
- 2006 IgG4-related sclerosing disease
- 2006 IgG4-related plasmacytic disease
- 2008 IgG4-multiorgan lymphoproliferative syndrome (MOLPS)
- 2011 International Consensus Diagnostic Criteria (ICDC) for AIP
- 2012 Concept and comprehensive Diagnostic Criteria for IgG4-related disease
- 2012 International Pathological Consensus for IgG4-RD
- 2012 Nomenclatures of individual organ manifestation of IgG4- RD

# Mayo Clinic Diagnostic Criteria for Autoimmune Pancreatitis (IgG4-related Sclerosing Pancreatitis): The **HISORt** Criteria

- **Criterion H-Histology**
- (at least one of the following)
- 1. Periductal lymphoplasmacytic infiltrate, obliterative phlebitis, storiform fibrosis
- 2. Lymphoplasmacytic infiltrate, storiform fibrosis, abundant IgG4+ cells ( $\geq 10$  HPF)
  
- **Criterion I-Imaging of pancreas**
- 1. Typical-diffusely enlarged gland with delayed (rim) enhancement; diffusely irregular, attenuated main pancreatic duct
- 2. Others-Focal pancreatic mass/enlargement; focal pancreatic duct stricture; pancreatic atrophy; pancreatic calcification; pancreatitis
  
- **Criterion S-Serology**
- Elevated serum IgG4 (normal: 8-140 mg/dL)
- 
  
- **Criterion O-Other organ involvement** (can be confirmed by biopsy or resolution/ improvement with steroid therapy)
- Hilar/intrahepatic biliary strictures; persistent distal biliary stricture; parotid/lacrimal gland involvement; mediastinal lymphadenopathy;
- retroperitoneal fibrosis
  
- **Criterion R-Response to steroid therapy**
- Resolution or marked improvement of pancreatic/extrapancreatic manifestation with steroid therapy
  
- Diagnostic of autoimmune pancreatitis when any of the following is fulfilled
- **1. Criterion H**
- 2. Criterion I+S
- 3. Strong clinical suspicion of autoimmune pancreatitis
- (idiopathic pancreatic disease+Criterion S and/or O)+Criterion R

# Doença esclerosante IgG4 relacionada

IgG4: >10 células / CGA

Relação IgG4/IgG: > 40%

Esclerose do parênquima

Presença de flebite obliterativa

Boa resposta ao corticoide

Recidivante (20-60% dos casos)

**OBS: Após Vias pancreatobiliares, cabeça e pescoço é sítio mais comum de Dç IgG4 relacionada**

# Fibrose angiocêntrica eosinofílica

- . Doença rara e benigna, descrita em 1983 por Holmes e Pajes
- . Pode acometer cav. nasal, órbita e laringe
- . Etiologia desconhecida
- . Há artigos que relatam pacientes com história prévia de trauma nasal e alergia



# Fibrose angiocêntrica eosinofílica

- . Estudos recentes mostram relação com Doença IgG4-relacionada (ainda não estabelecido)
- . Artigos com casuísticas pequenas
- . Não há artigos relatando Fibrose angiocêntrica eosinofílica com outras doenças esclerosantes IgG4

# Fibrose angiocêntrica eosinofílica

Histologia:

- . Fibrose angiocêntrica (arteriolar)
- . Fibrose estoriforme
- . Infiltrado inflamatório constituído por eosinófilos, linfócitos, plasmócitos e alguns neutrófilos

## CASE REPORT

## Sinonasal Eosinophilic Angiocentric Fibrosis: A Report of Four Cases and Review of Literature

Reena Jain · Jennifer V. Robblee · Emerald O'Sullivan-Mejia ·  
Jane Lea · Andrew Heller · William C. Faquin · Celeste N. Powers

Case	Age/sex	Clinical symptoms	Site	Laboratory tests	Radiological findings	Treatment	Follow-up
1	31/F	Right epiphora, left orbital mass	Sinuses (left maxillary & ethmoid), orbit	ANCA, p29, MPO	Not done	Multiple biopsies, steroids, single resection	Rec. × 3,4 years; SOB
2	57/M	Nasal congestion, epiphora, proptosis, decreased sense of smell	Nose (bilateral lateral wall), multiple sinuses, lacrimal gland	ANCA, p29, MPO, ANA, anti-DNA, peripheral eosinophilia	Mass involving lacrimal gland and multiple sinus cavities	Steroids, single resection	Rec. × 2 years; SOB
3	27/F	Nasal obstruction	Nose (bilateral lateral wall)	ANA, ANCA	Not done	Biopsy	Lost to follow-up
4	51/F	Nasal mass, obstruction & epiphora	Nose (right lateral wall)	Not done	Mass involving right nasal cavity, medial canthus and nasolacrimal duct	Single resection (debulking)	Persistent mass; small increase in size

Rec., recurrence; SOB, shortness of breath

Não pesquisado Imunoglobulinas neste artigo de 2008  
Testes laboratoriais negativos

# Eosinophilic Angiocentric Fibrosis Is a Form of IgG4-related Systemic Disease

Vikram Deshpande, MD,\* Arezou Khosroshahi, MD,† Gunnlaugur P. Nielsen, MD,\*  
Daniel L. Hamilos, MD,† and John H. Stone, MD, MPH†

*Am J Surg Pathol* • Volume 35, Number 5, May 2011

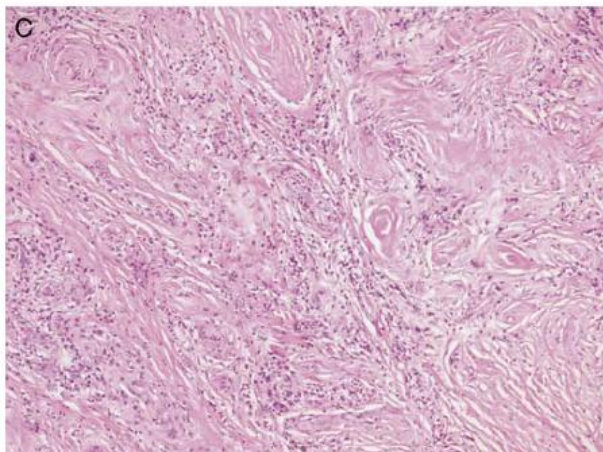
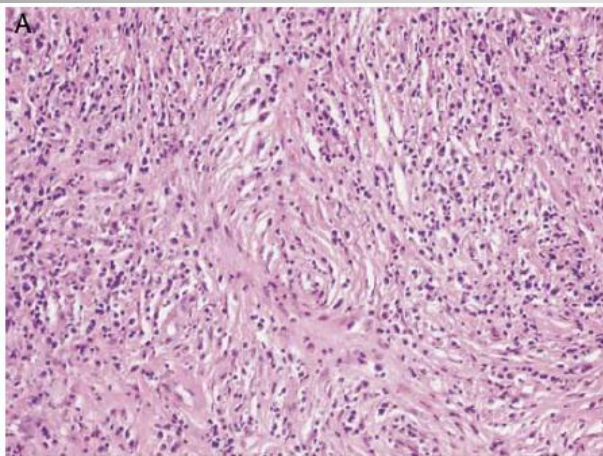


TABLE 1. Clinical and Immunohistochemical Data on 5 Cases of EAF

No.	Age/ Sex	Site(s)	Duration of Disease	Surgical Procedures	Allergy History	ANCA	Tissue IgG4/ HPF	Tissue IgG4/ IgG Ratio
1	63/M	Nasal and lacrimal glands, lung	6 y	2	None	Negative	118	0.8
2	81/F	Left nasal	3 y	2	Allergic rhinitis	NA	43	0.87
3	31/F	Orbit, maxillary sinus, ethmoid, nasal	20 y	7	None	NA	0	0
4	54/F	Right lacrimal gland	Unknown	1	None	NA	115	0.97
5	55/M	Orbit	6 mo	1	None	Negative	59	0.68

ANCA indicates antineutrophil cytoplasmic antibodies; F, female; M, male; NA, not applicable.

- . Não detectada venulite obliterativa em nenhum caso
- . Caso 3 poderia ser uma fase tardia da dç com pouca inflamação e consequente falta de expressão de IgG4?

## Eosinophilic angiocentric fibrosis of the nose and sinuses

TABLE I

SUMMARY OF NINE CASES OF SINONASAL EOSINOPHILIC ANGIOCENTRIC FIBROSIS

Patient no	Age	Sex	Presentation	Management	Follow up
1	37	F	Frontonasal swelling; frontonasal/intranasal mass (first excised 18 years earlier)	Surgical excision: lateral rhinotomy ×2; oral steroids & azathioprine	NSR, 18 years
2	68	M	Frontonasal swelling & nasal obstruction 5 years; frontonasal/septal mass	Surgical excision: extended lateral rhinotomy	NSR, 15 years
3	52	F	Nasal mass extending into midface/orbit, 25 years	Surgical excision: lateral rhinotomy ×2; dapsone, hydroxychloroquine, azathioprine, oral steroids	Residual disease in orbit
4	58	F	Nasal swelling, 1 year	Surgical excision: lateral rhinotomy	NSR, 8 years
5	47	M	Nasal obstruction, 1 year; septal thickening	Surgical excision: external rhinoplasty	NSR, 8 years
6	46	F	Nasal obstruction & swelling, 2 years: septal/lateral wall thickening	Surgical excision: external rhinoplasty	NSR, 3 years
7	65	F	Nasal obstruction & swelling, 2 years; septal/alar cartilage mass with subcutaneous extension	Surgical excision: subtotal rhinectomy	Developed GPA after 17 months
8	43	M	Nasal obstruction & shape change, 2 years	Surgical excision: external rhinoplasty	NSR, 9 months
9	63	M	Nasal obstruction & pain, 7 years; shape change post-septoplasty, 6 years; septal thickening	Surgical excision: external rhinoplasty	NSR, 5 months

No = number; NSR = no sign of recurrence; GPA = granulomatosis with polyangiitis (Wegener's granulomatosis)

- . Caso 7: Gran. Wegener após 17 meses com ANCA negativo no primeiro teste
- . Caso 9: ANCA e IgG4 negativos
- . Casos 7,8 e 9: IgG4 sérico negativo
- . Não realizado estudo IH
- . Sem relação com trauma nasal prévio

## Sinonasal Eosinophilic Angiocentric Fibrosis: A Report of Four Cases and Review of Literature

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Table 3 Differential diagnosis of eosinophilic angiocentric fibrosis in sinonasal and upper respiratory tract

Disease	Sites	Clinical presentation	Laboratory tests	Histopathological features
Eosinophilic angiocentric fibrosis	Upper respiratory tract, lacrimal sac, orbit	Nasal obstruction, epiphora, proptosis	None	Dense fibrosis with perivascular 'onion-skin' whorling pattern, eosinophil-rich inflammatory infiltrate
Wegener's granulomatosis	Upper respiratory tract, lungs, kidneys	Nasal pain, stuffiness, rhinitis, hearing loss, saddle-nose deformity (later stage)	Cytoplasmic (antiproteinase 3) c-ANCA positive (85%)	Geographic zones of bionecrosis, foreign-body giant cells, granuloma (rare)
Churg-Strauss syndrome	Upper and lower respiratory tract, skin, kidney, gastrointestinal tract, heart, nerve	Asthma, sinusitis	Blood eosinophilia, perinuclear (anti-myeloperoxidase) p-ANCA positive	Fibrinoid necrosis, extravascular granulomas with eosinophilia
Kimura's disease	Skin (head and neck)	Subcutaneous nodules, lymphadenopathy, salivary gland enlargement	Blood eosinophilia, raised ESR and serum IgE levels	Dense lymphoid aggregates with prominent germinal centers, fibrous tissue
Granuloma faciale	Skin (face)	Plaques and nodules	None	Polymorphous infiltrate (N, E) in the dermis, fibrosis, Grenz zone

ANCA, antineutrophil cytoplasmic antibodies; ESR, erythrocyte sedimentation rate; N, neutrophils; E, eosinophils

# Tratamento

- Cirúrgico
- Alta taxa de recidiva
- Baixa resposta ao corticoide
- Acompanhamento a longo prazo
- Reconsiderar o diagnóstico no caso de mudanças clínicas

# Questionamentos

- Alguns casos da literatura são IgG4 negativos
- Flebite obstrutiva?
- Outras doenças IgG4 relacionadas a FEA concomitantes?
- Pouca resposta ao corticoide
- **Conclusão: Estudos futuros serão necessários para relacionar a FAE como Dç IgG4 relacionada**



OBRIGADO

