

XX congreso de la SEC

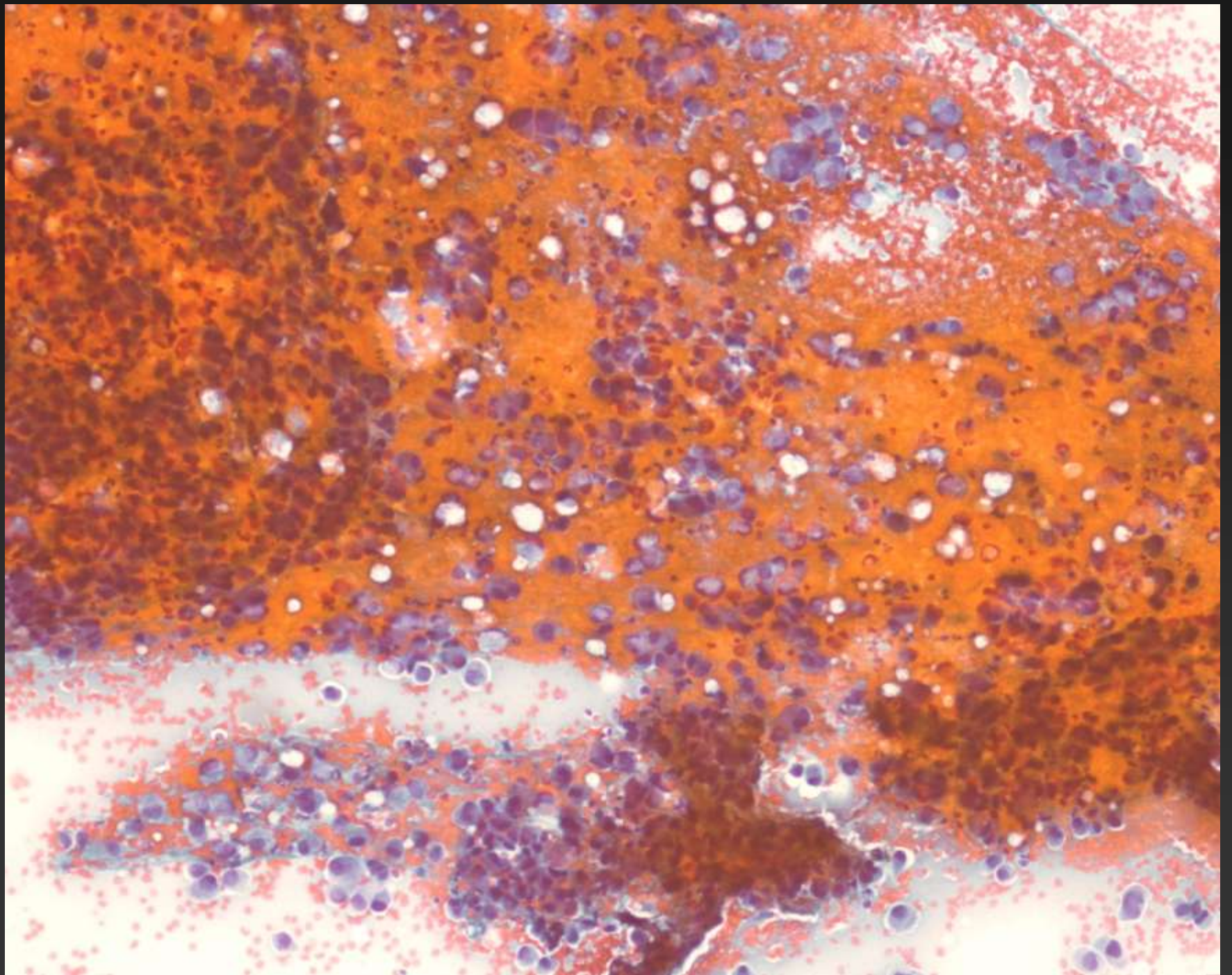
Gran seminario interactivo de citopatología

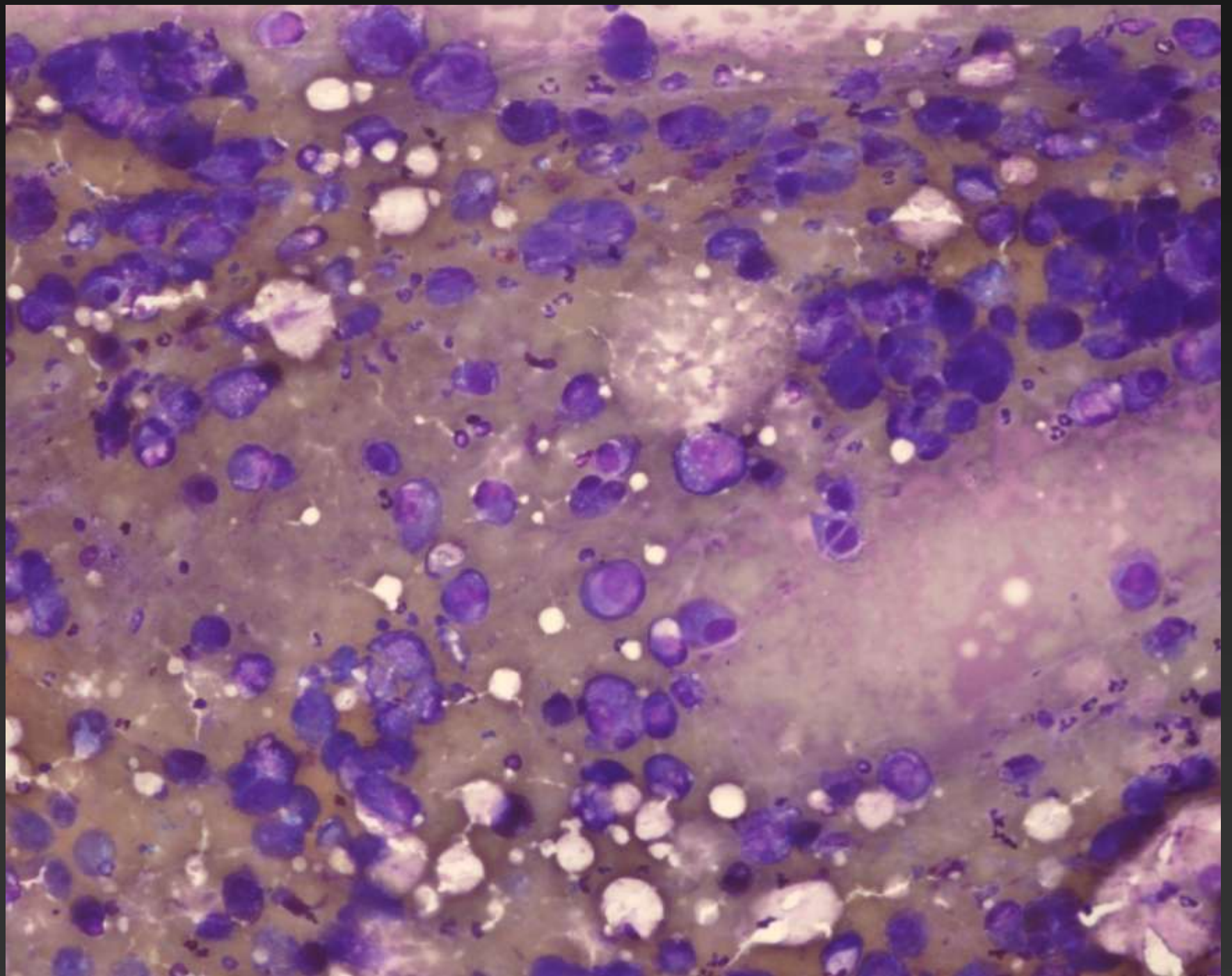
Zaragoza, 18 de Mayo de 2011

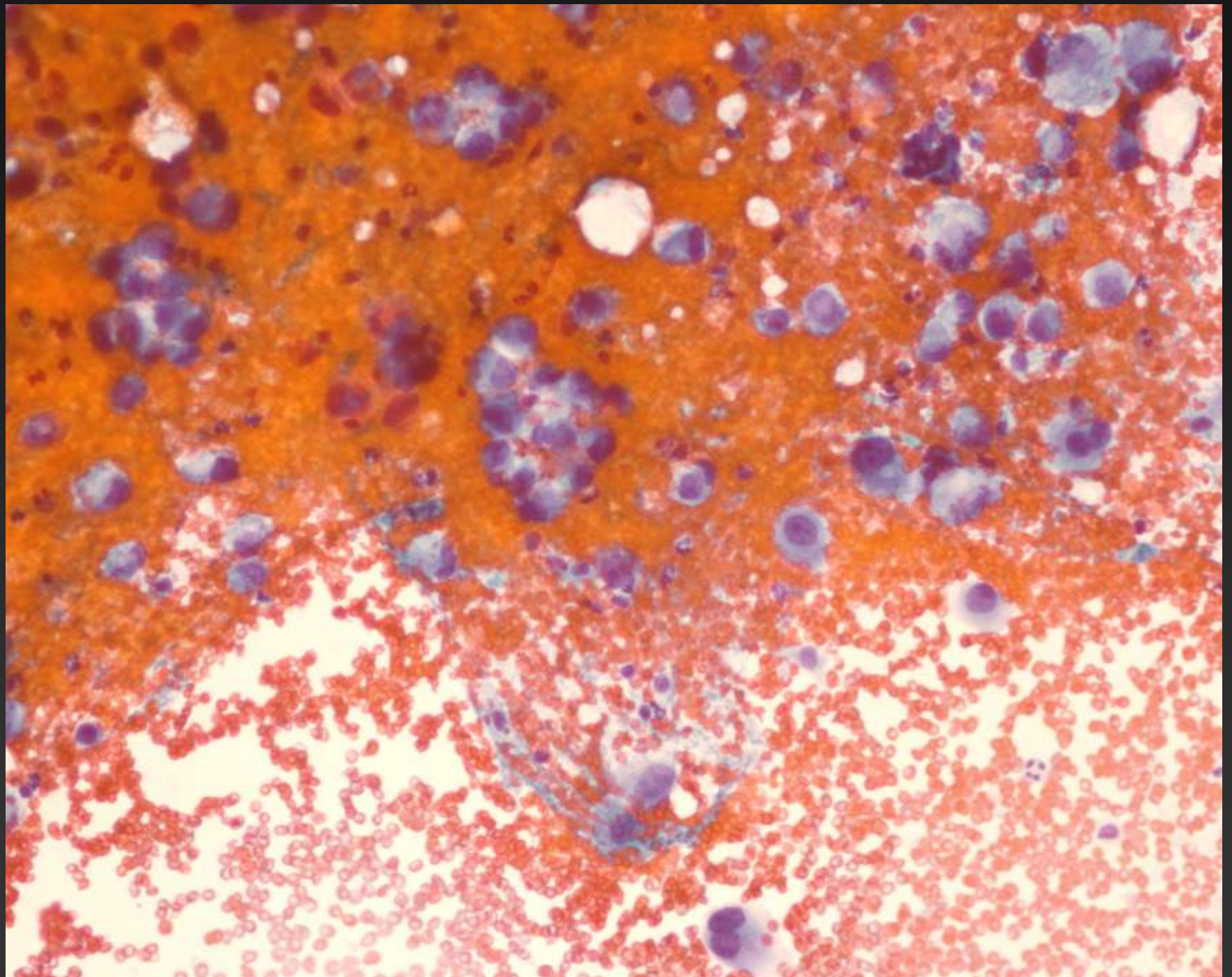
Víctor M. Castellano Megías, Montserrat López Carreira,
Luz Martín Fragueiro, Angel Castaño Pascual
Anatomía Patológica. Hospital de Fuenlabrada

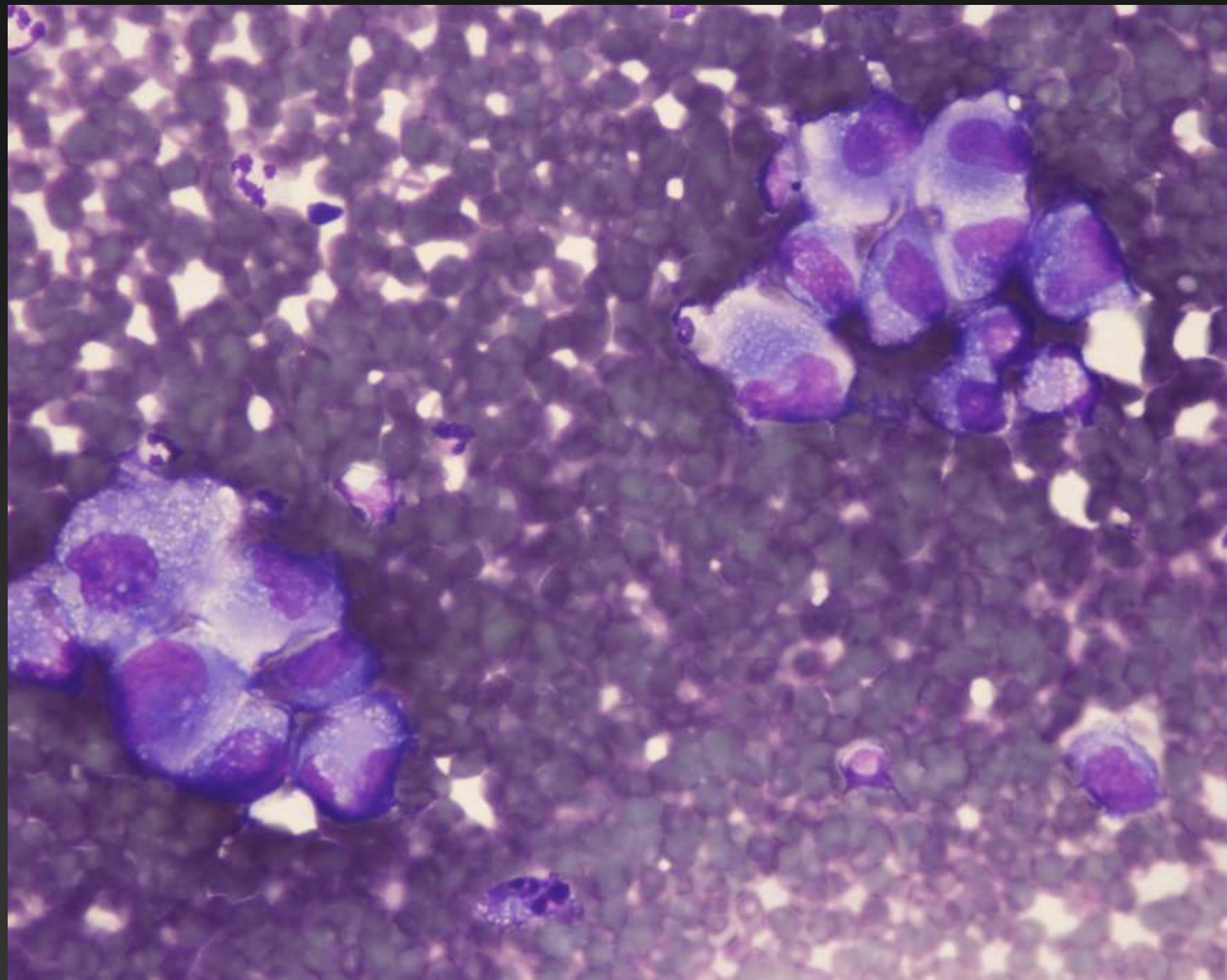
Resumen clínico

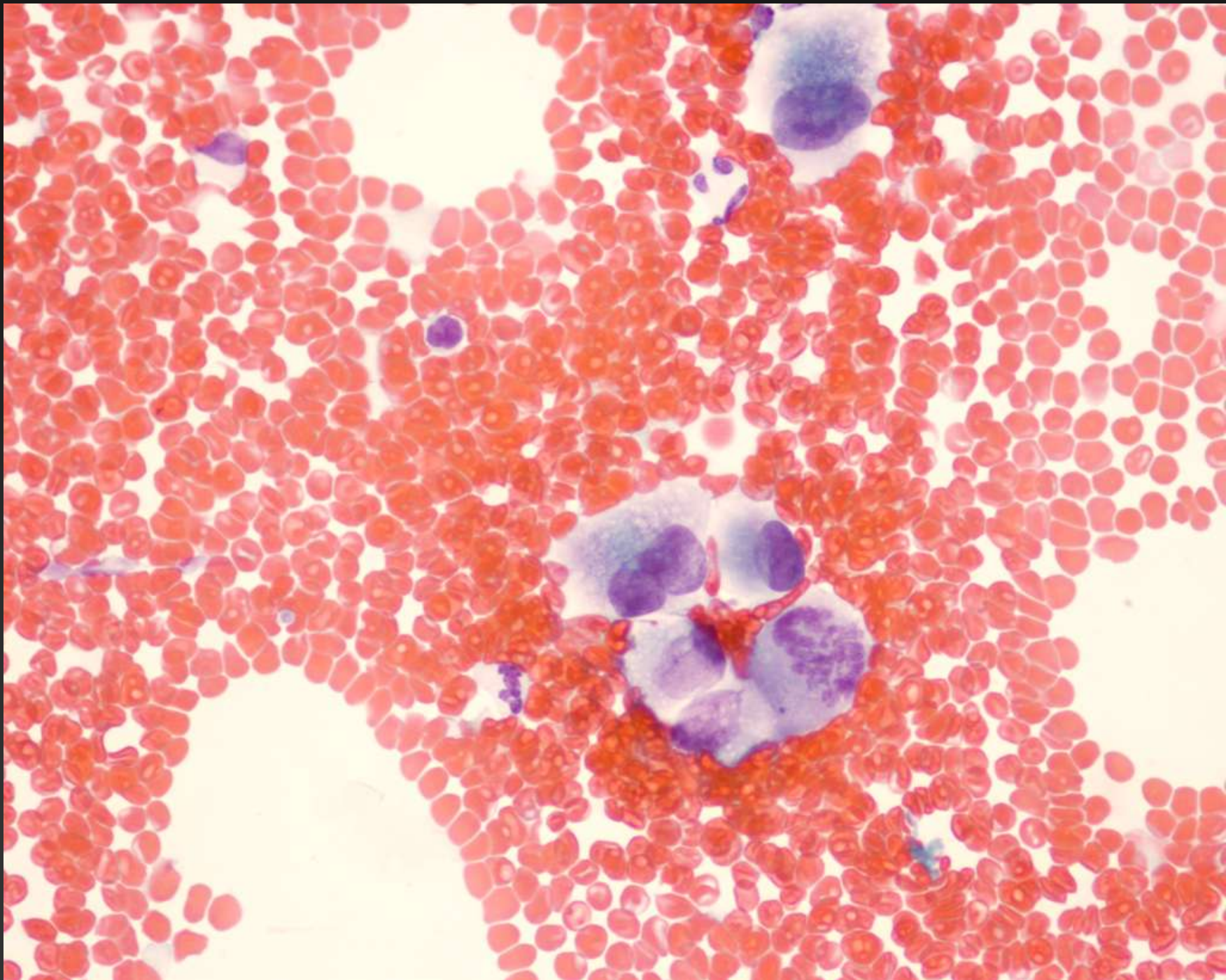
- Mujer, 71 años de edad
- Bocio palpable y doloroso
- ECO: nódulo heterogéneo compresivo de 4 x 4 cm en LTD
- Hemitiroidectomía derecha
- 1 mes después: Ampliación a tiroidectomía total
- 5 meses después: área ecográfica mal definida en el lecho de la tiroidectomía
 - SE REALIZA PAAF

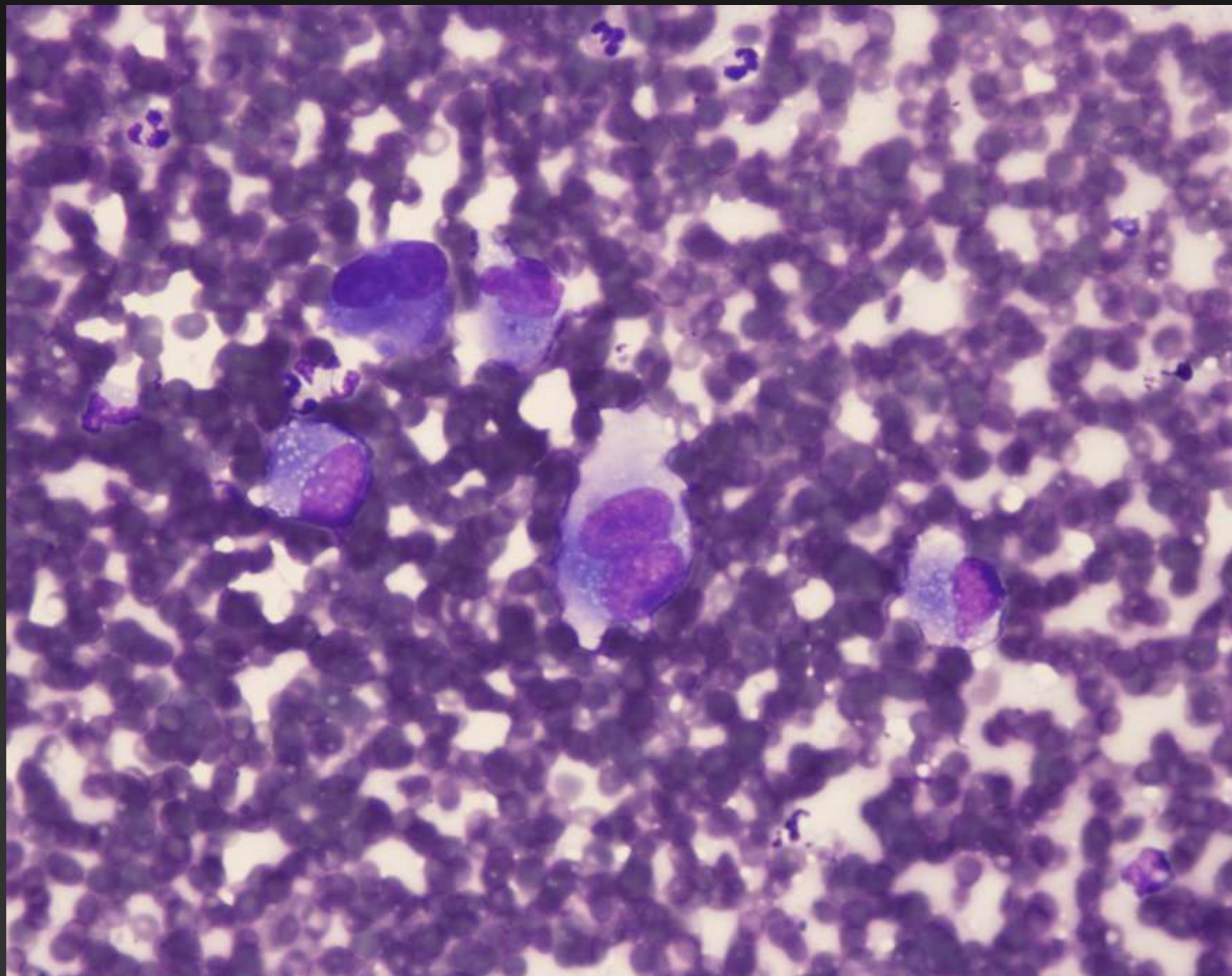


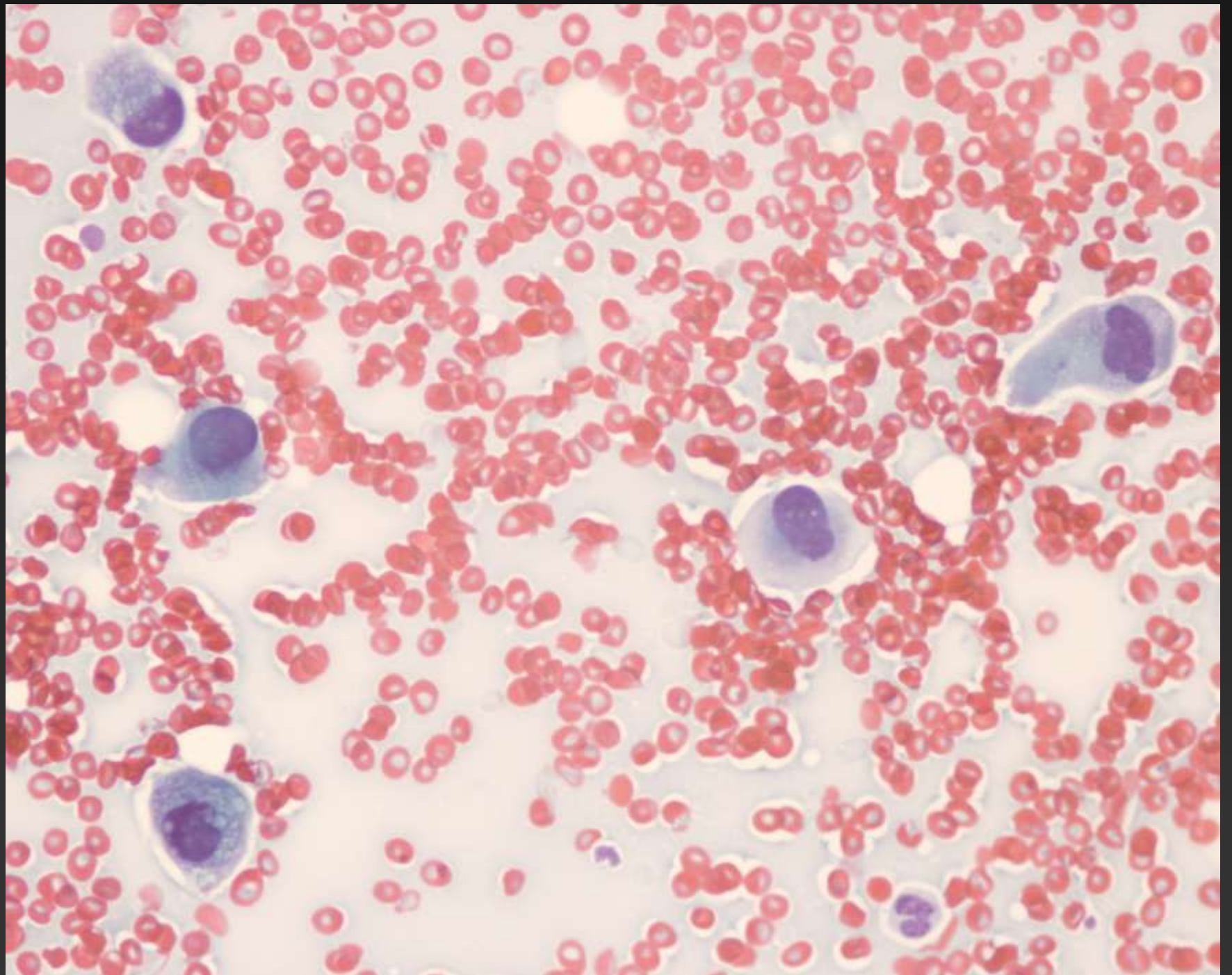


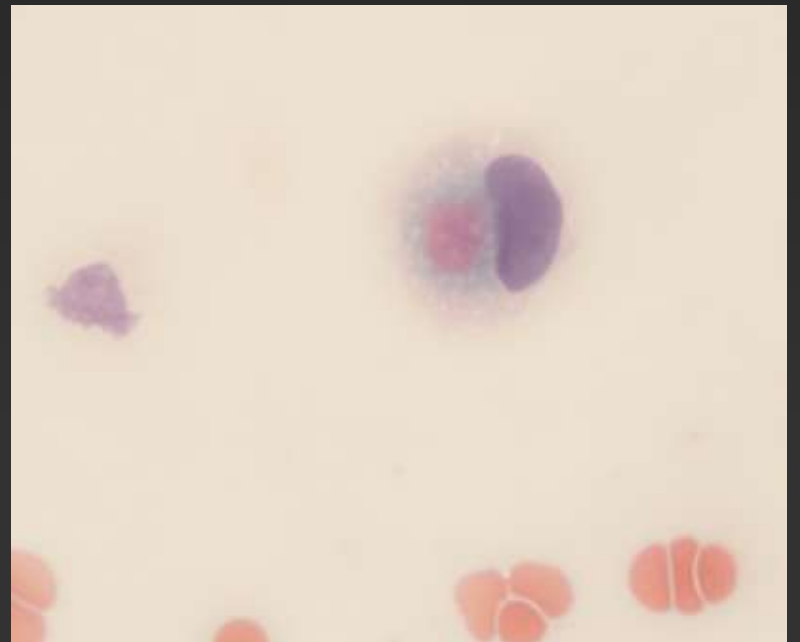
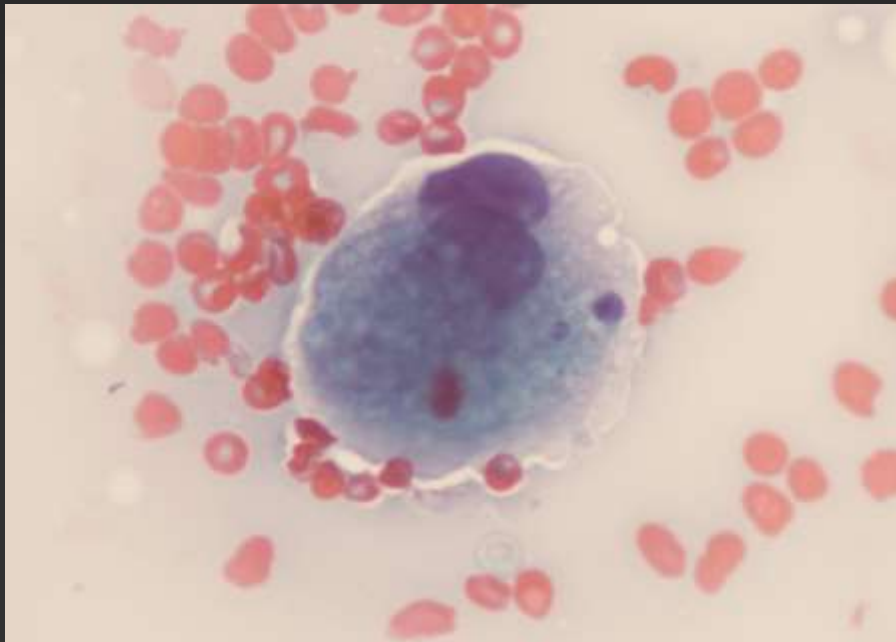
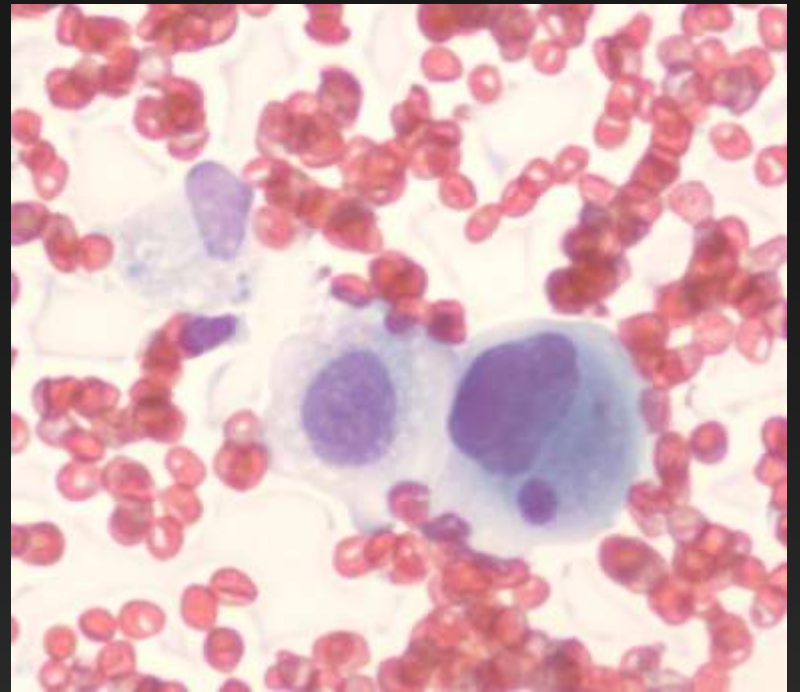
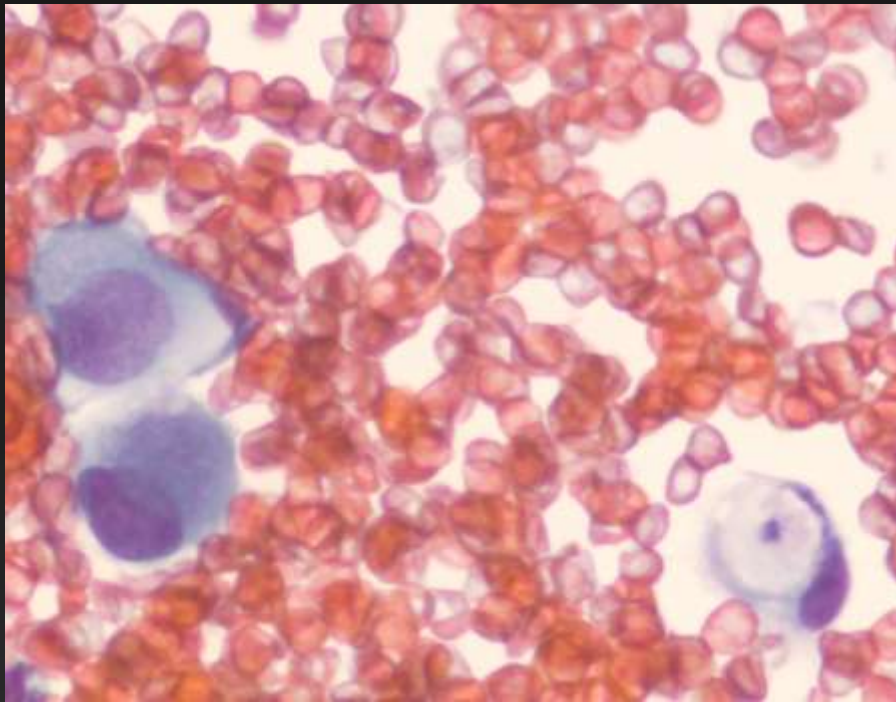








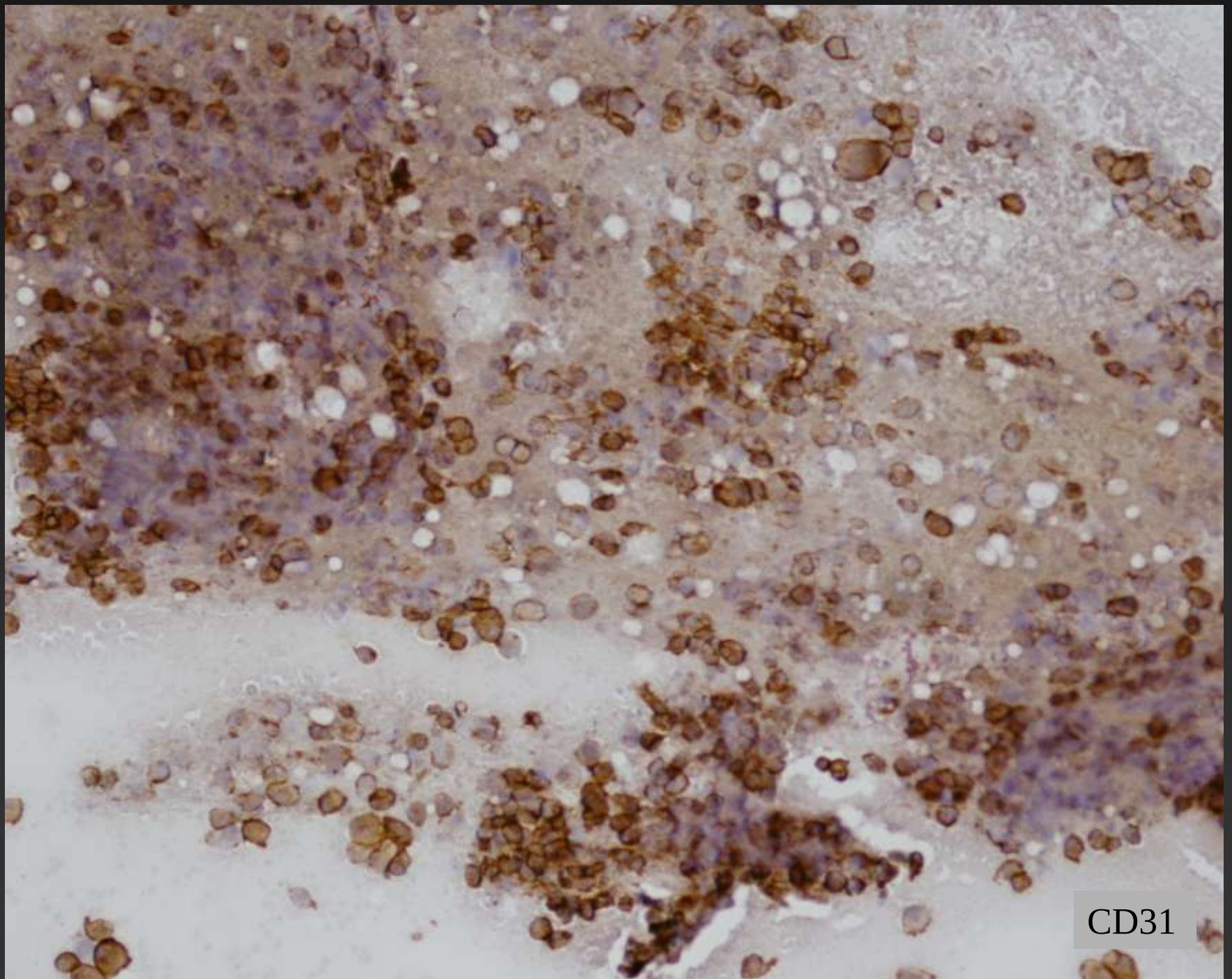




Diagnósticos citológicos

A microscopic image of a cell, likely a tumor cell, with a large, dark, irregular nucleus and a prominent nucleolus. The cell is surrounded by numerous red blood cells, which appear as small, round, pinkish-red structures. The background is a light, pale blue color.

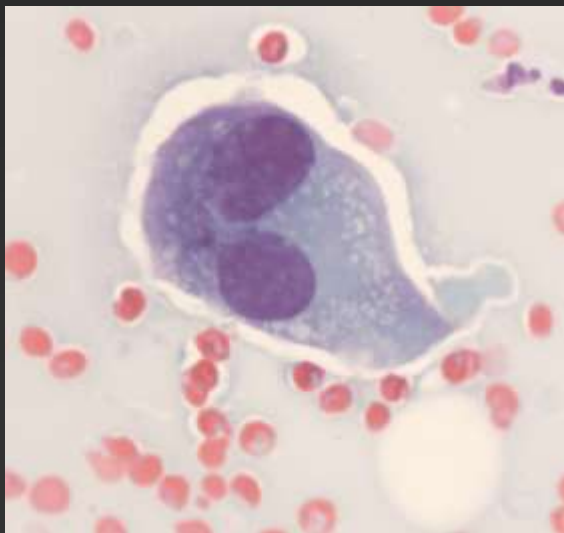
- **1.-Angiosarcoma epitelioides**
- **2.-Cambios inflamatorios postquirúrgicos**
- **3.-Carcinoma medular**
- **4.- Melanoma maligno**

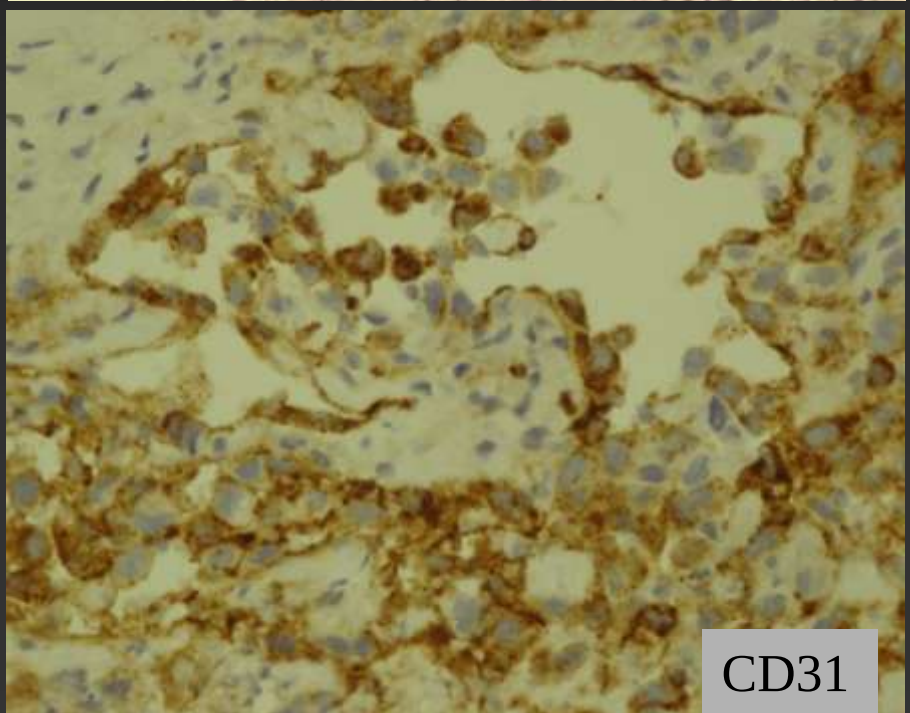
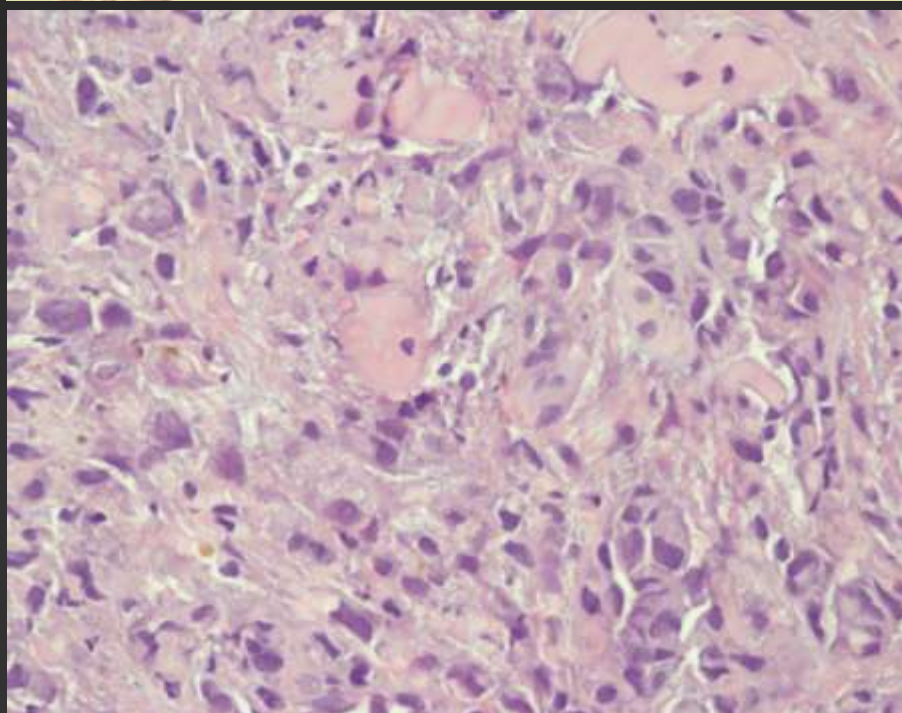
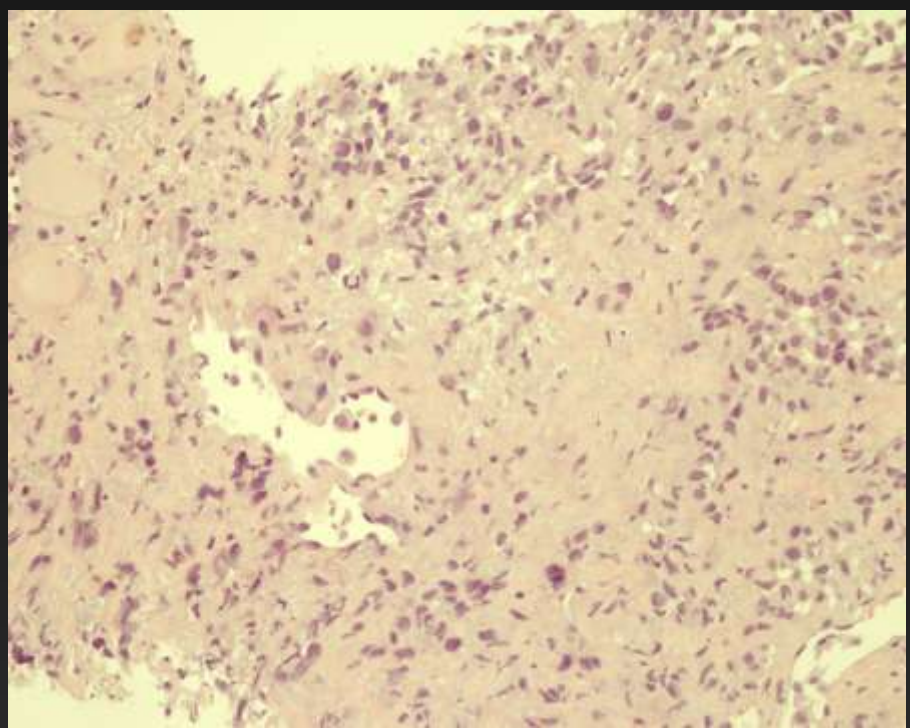
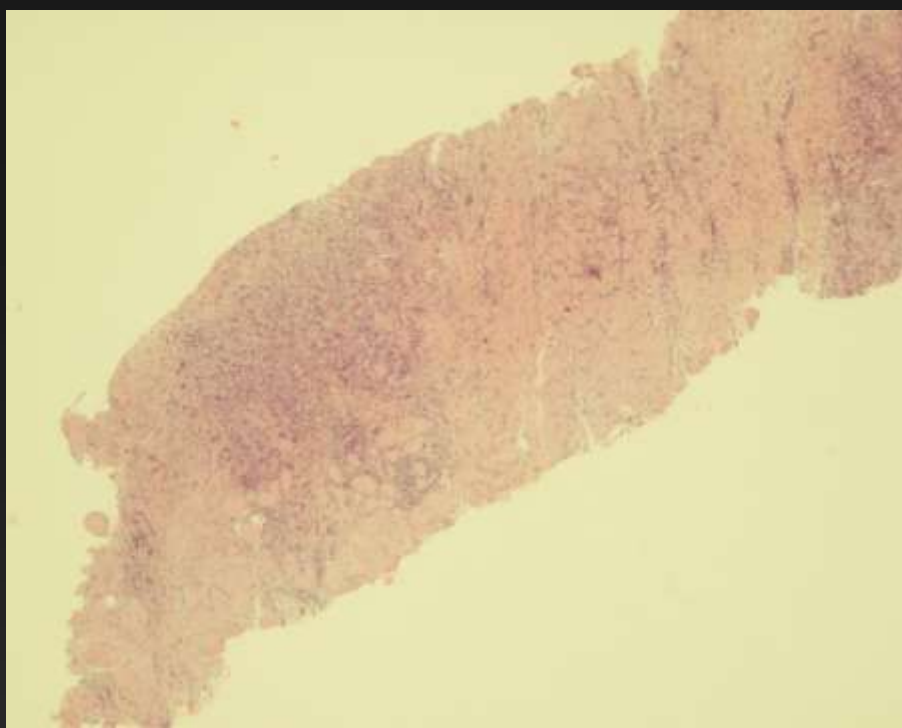


CD31

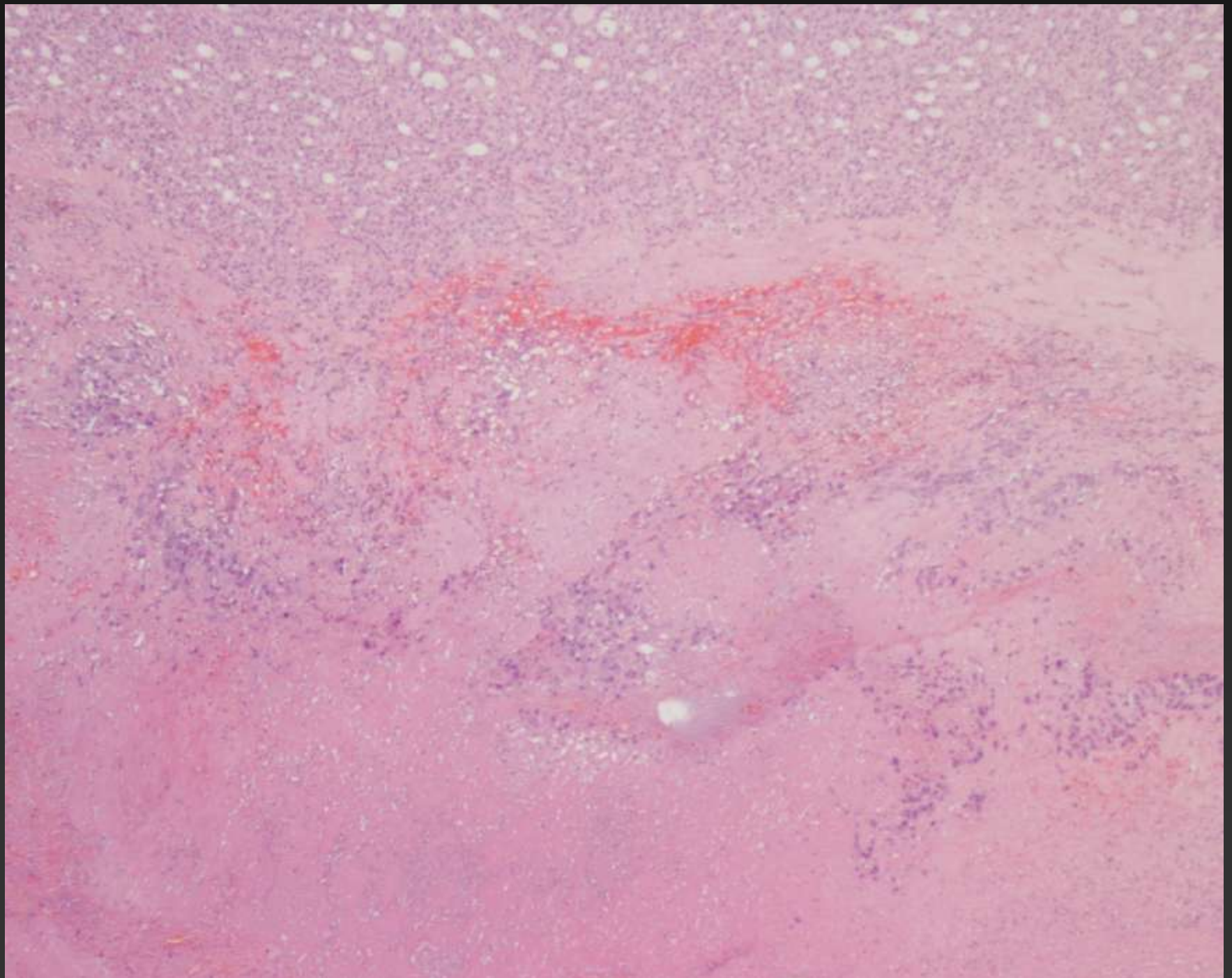
Diagnóstico:

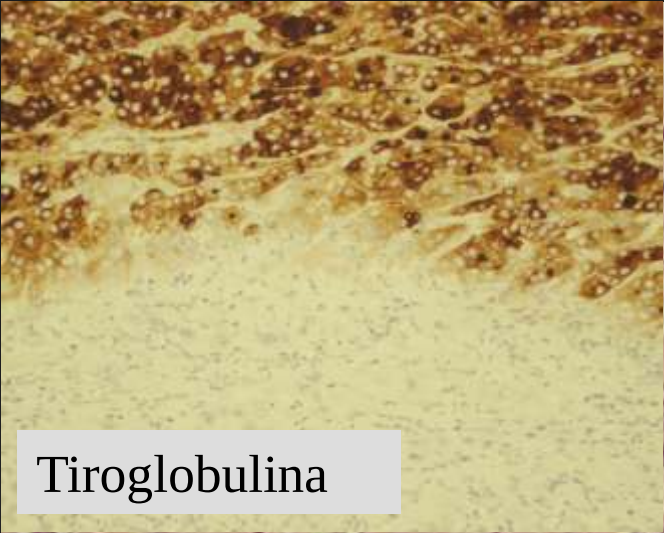
Recidiva de ANGIOSARCOMA
EPITELIOIDE de tiroides en el lecho
quirúrgico de la tiroidectomía



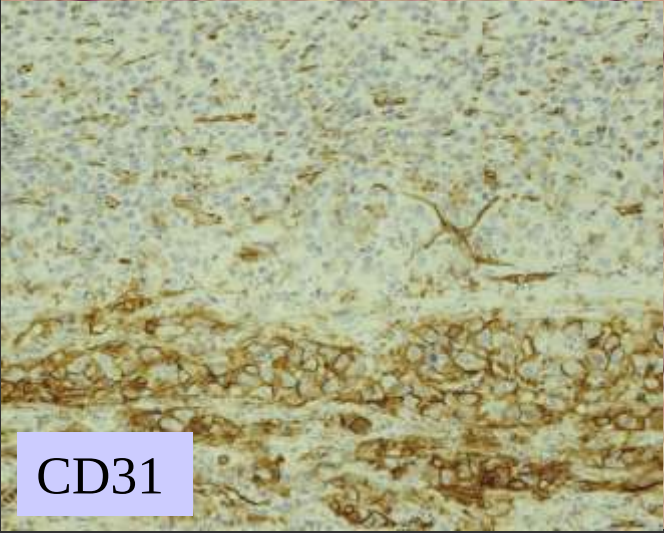


CD31

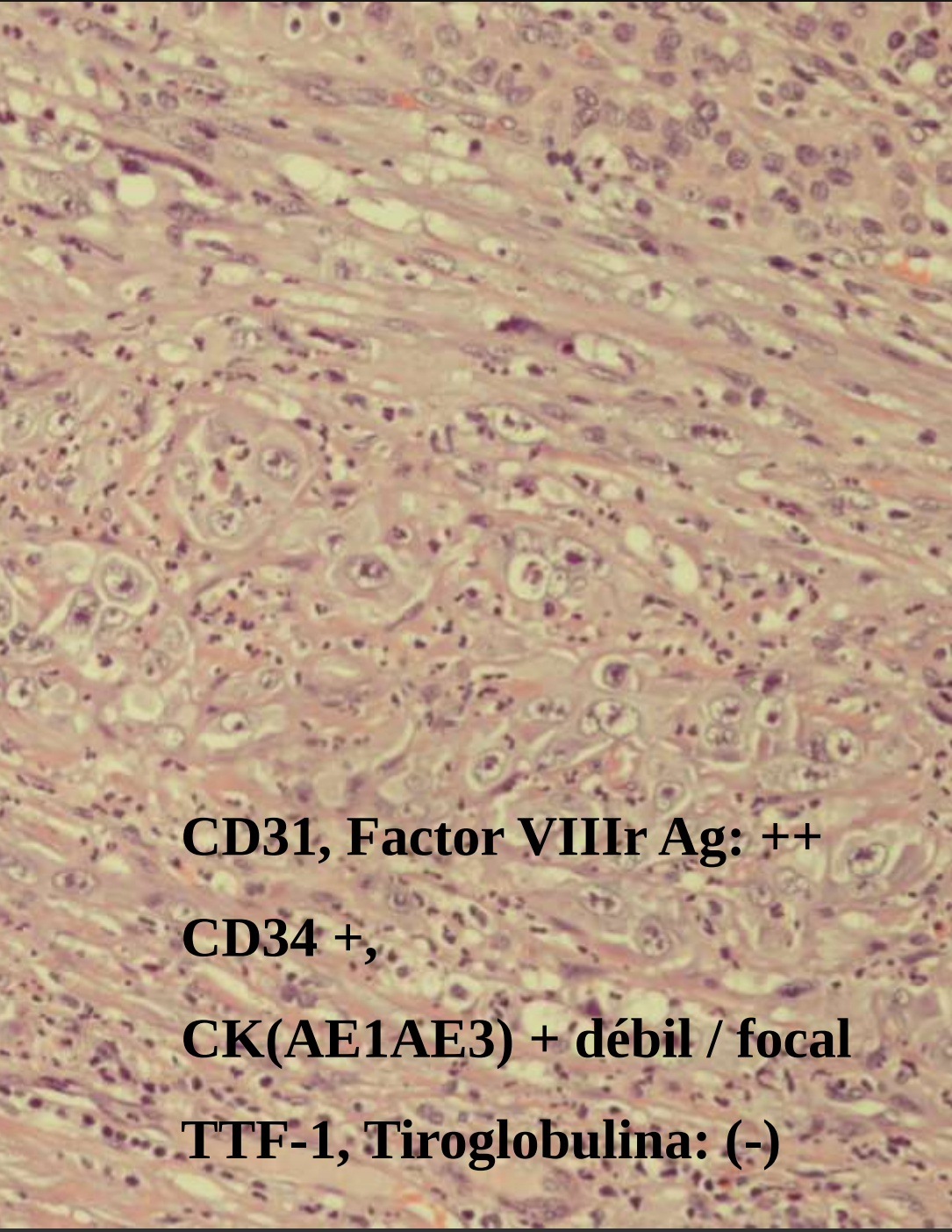




Tiroglobulina



CD31



CD31, Factor VIIIr Ag: ++

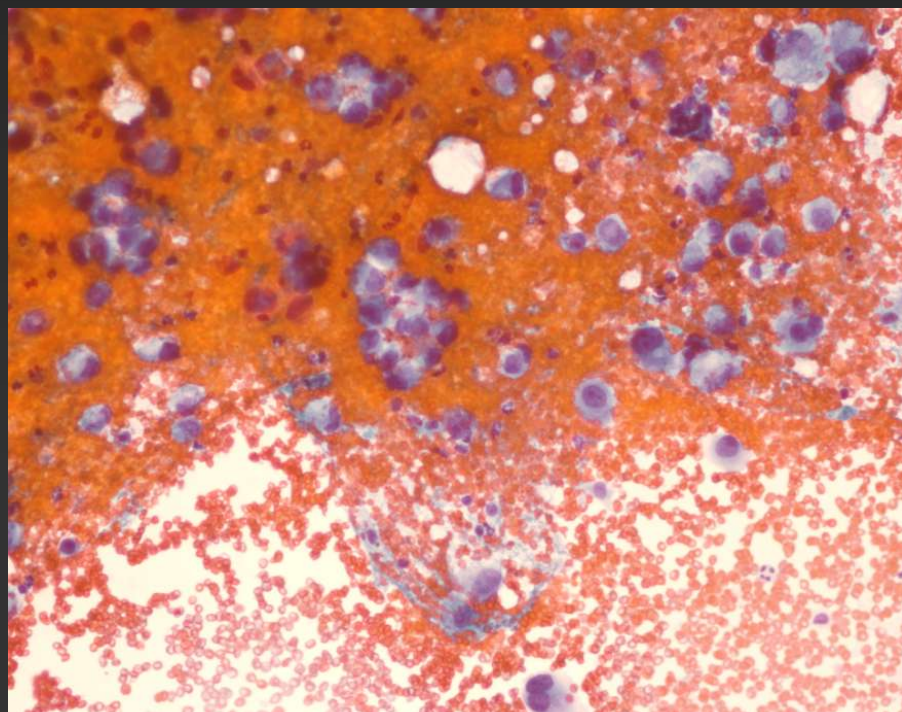
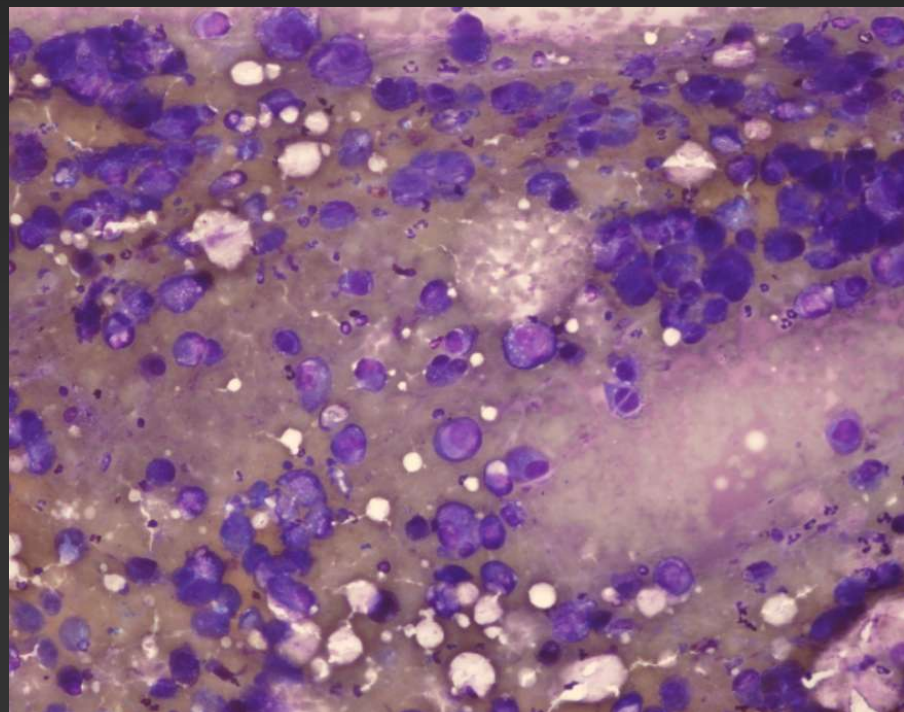
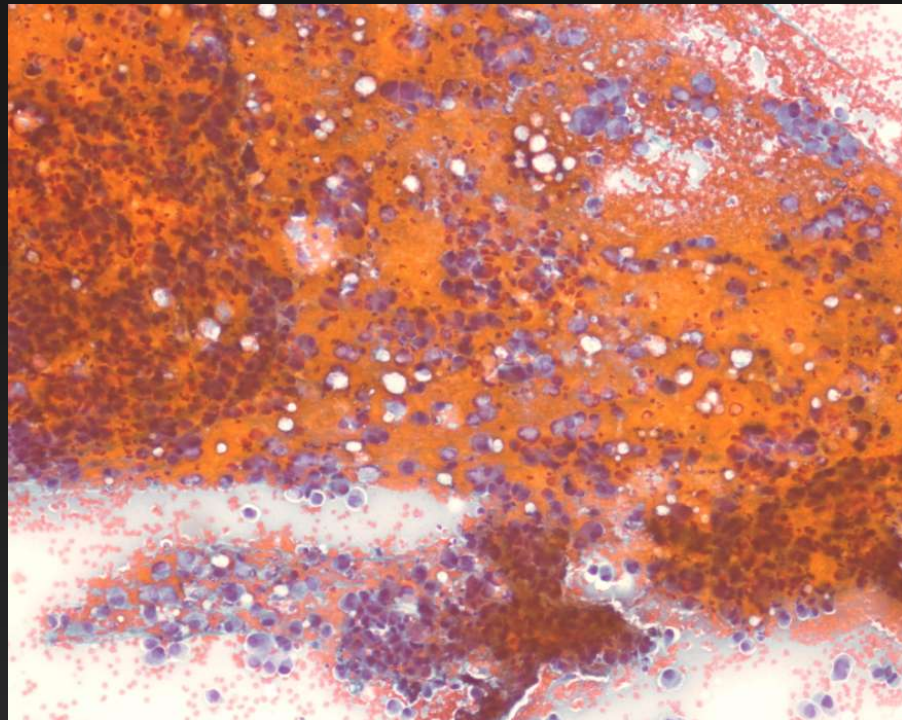
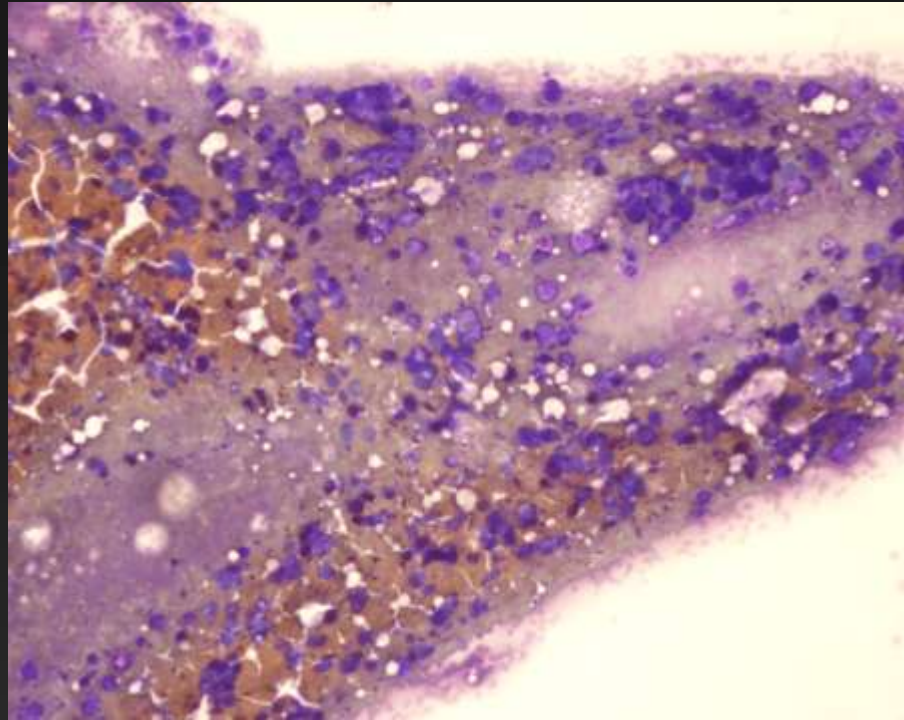
CD34 +,

CK(AE1AE3) + débil / focal

TTF-1, Tiroglobulina: (-)

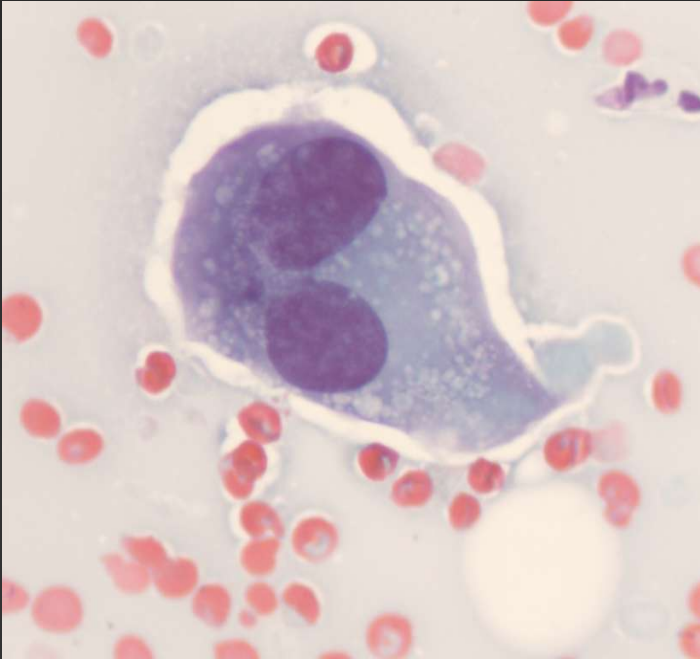
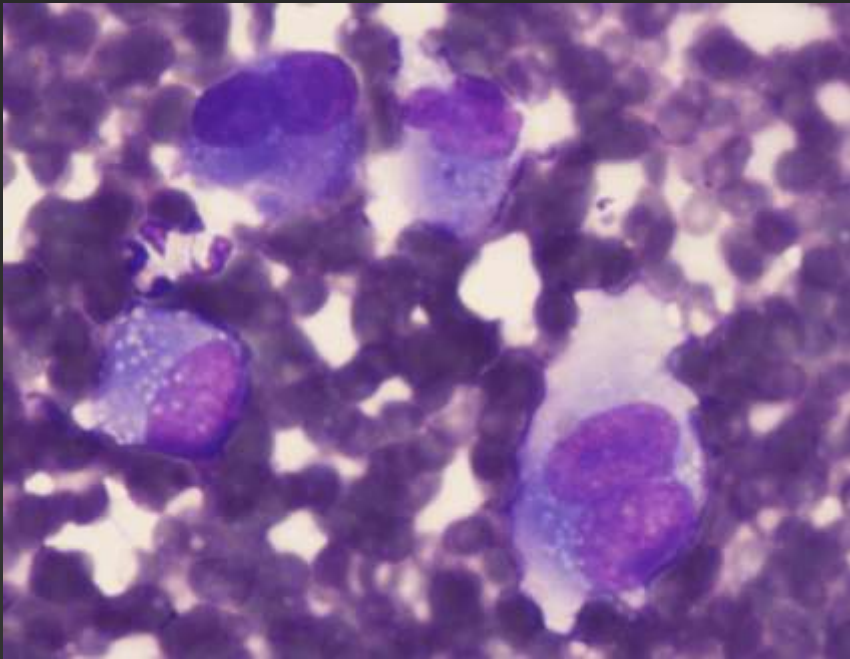
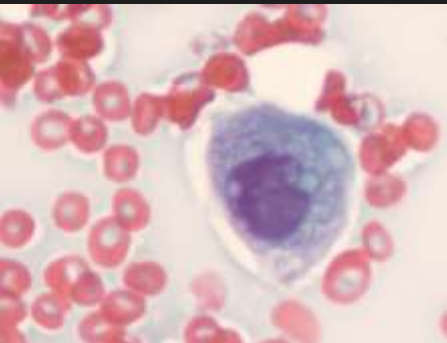
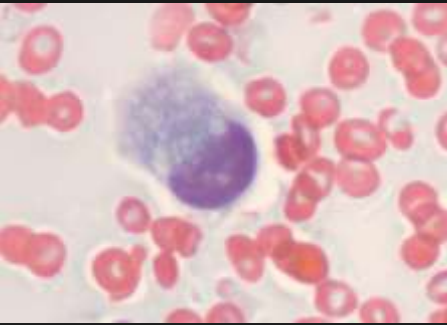
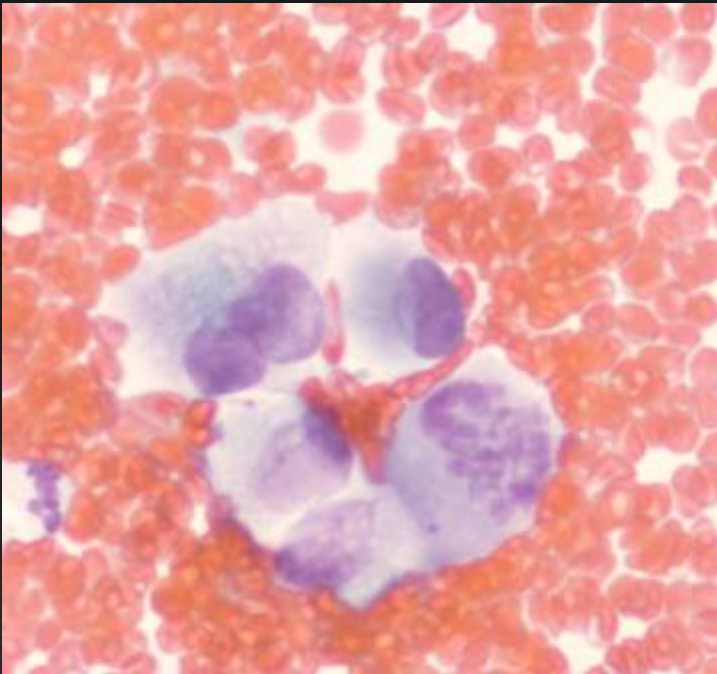
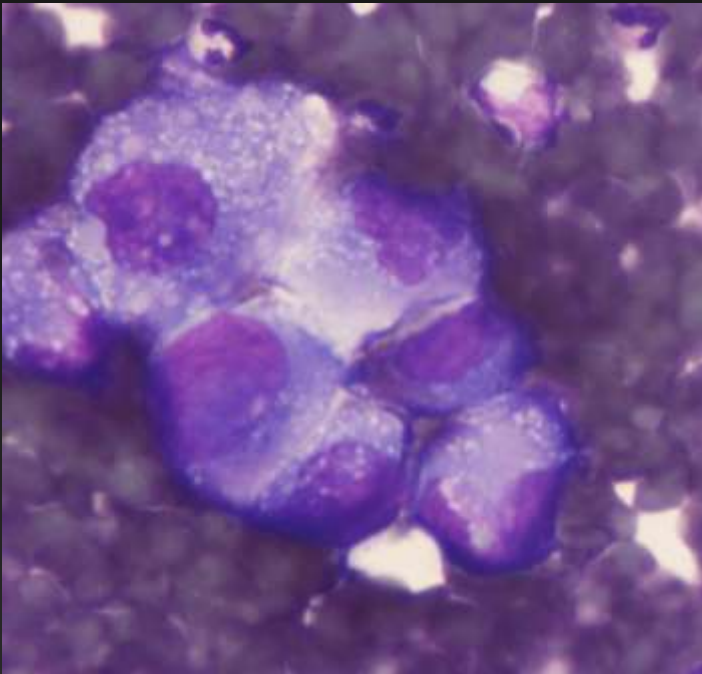
Citología del angiosarcoma epitelioides

- Celularidad en general abundante, aunque en algunos casos se describe como escasa
- Células sueltas y en pequeños grupos discohesivos
- Fondo hemorrágico y, a veces, con inflamación



Citología del angiosarcoma epitelioides

- Células grandes redondeadas u ovaladas
- Formas plasmocitoides y formas bi y multinucleadas
- Citoplasmas moderados o amplios, multivacuolados
- Núcleos redondos u ovales, hipercromáticos, con membrana irregular y nucleolo prominente
- Pleomorfismo moderado o severo, mitosis típicas o atípicas



Citología del angiosarcoma epitelioides

- Rasgos sugestivos de diferenciación vascular:
 - Microfragmentos tisulares arborescentes endoteliales
 - Acinos, microacinos,seudorosetas yseudopapilas
 - Vacuolas citoplásmicas con o sin eritrocitos, linfocitos o neutrófilos
 - Eritrofagocitosis o hemosiderina intracitoplásmica

Fine Needle Aspiration Cytology of Epithelioid Angiosarcoma

A Case Report

ACTA CYTOLOGICA Volume 52 Number 1 January-February 2008

Neelaiah Siddaraju, M.D., Jayanthi Soundararaghavan, M.D.,
Manish Mahadeorao Bunde, M.D., and Sumit Kumar Roy, M.D.

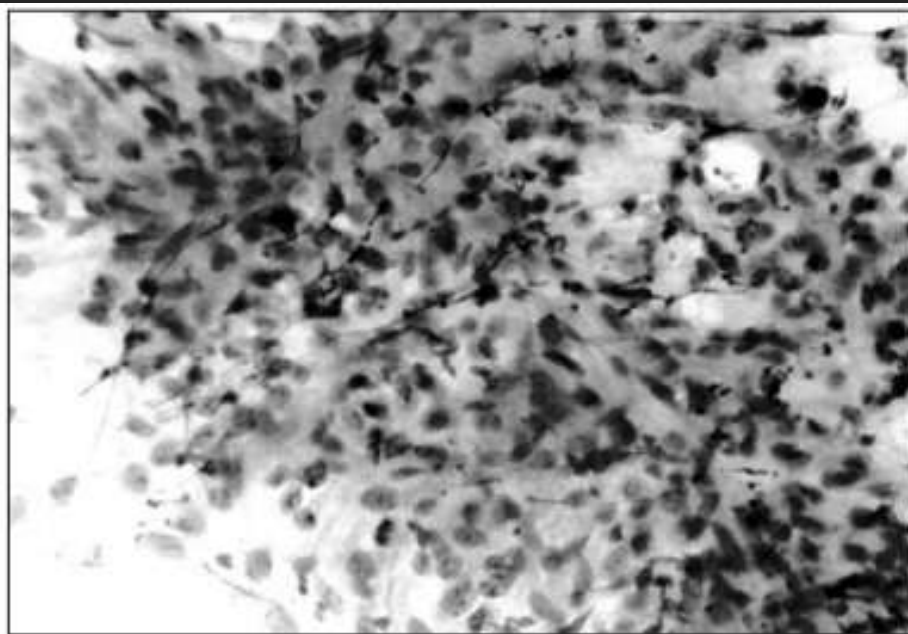
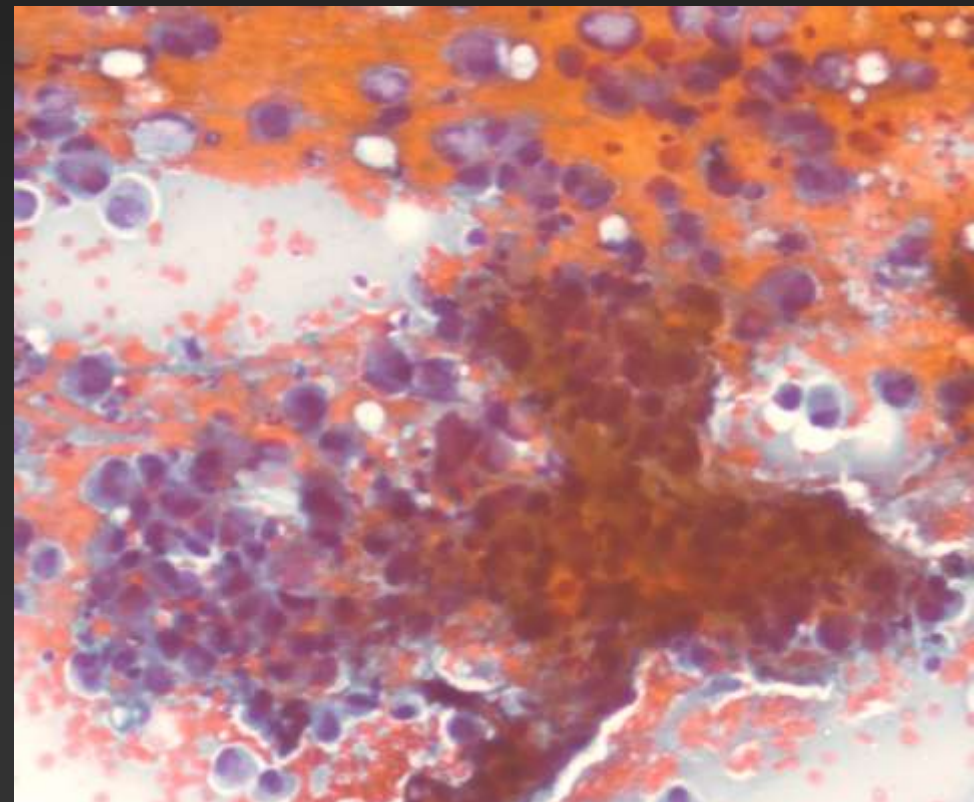


Figure 2 Higher magnification highlighting the cytomorphologic features of neoplastic vascular strand and adherent histiocytoid cells (Papanicolaou stain, $\times 400$).



Angiosarcoma in FNA smears: diagnostic accuracy, morphology, immunocytochemistry and differential diagnoses

Ž. Pohar-Marinšek* and J. Lamovec†

Cytovathology 2010. 21. 311-319

Departments of *Cytopathology and †Pathology, Institute of Oncology, Ljubljana, Slovenia

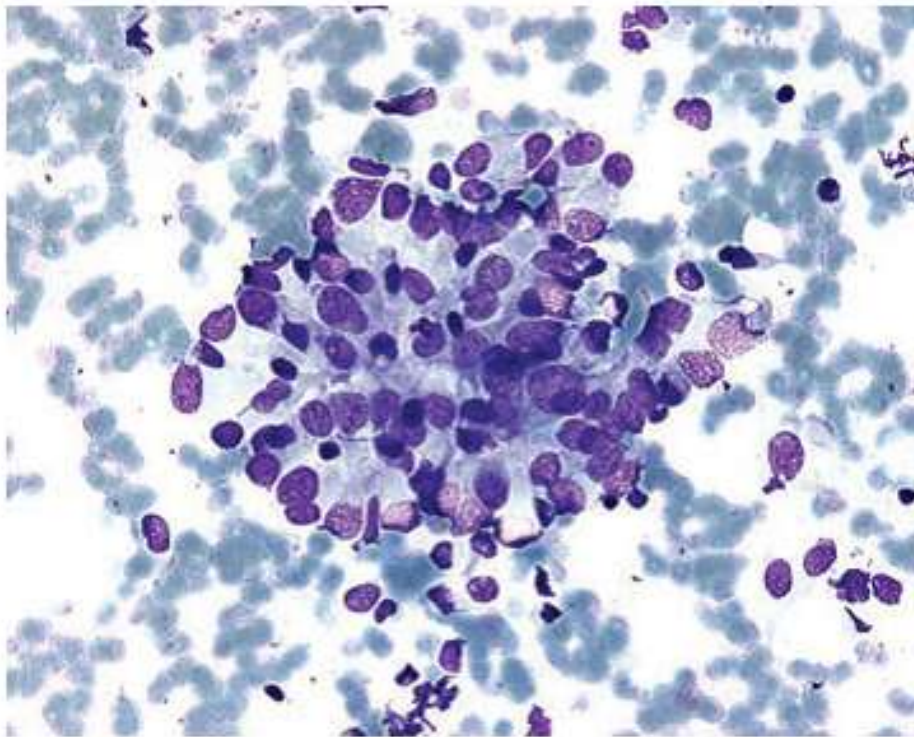


Figure 1. A group of monomorphous cells arranged in a gland-like structure. Giemsa, $\times 40$.

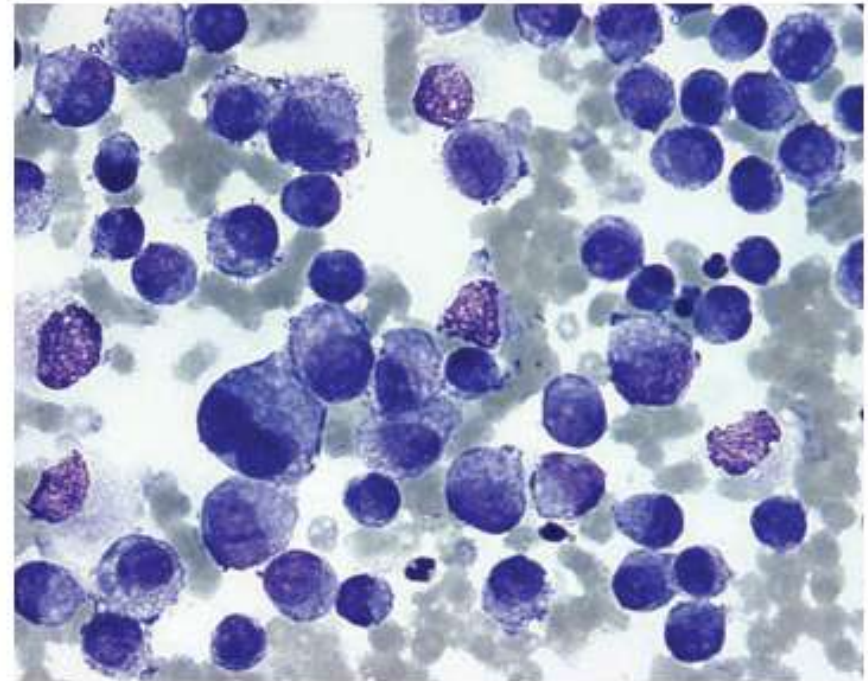


Figure 2. Dissociated tumour cells with eccentric nuclei from an epithelioid angiosarcoma. Two binucleated cells, degenerative vacuoles in cytoplasm. Giemsa, $\times 60$. Insert: A larger vacuole in cytoplasm simulates secretory vacuole. Giemsa, $\times 60$.

Cytohistic Correlations in Angiosarcoma Including Classic and Epithelioid Variants: Institut Curie's Experience

Jerzy Klijanienko, M.D.,^{1*} Jean-Michel Caillaud, M.D.,²
Réal Lagacé, M.D., F.R.C.P.C.,³ and Philippe Vielh, M.D., Ph.D.¹

Diagnostic Cytopathology, Vol 29, No 3

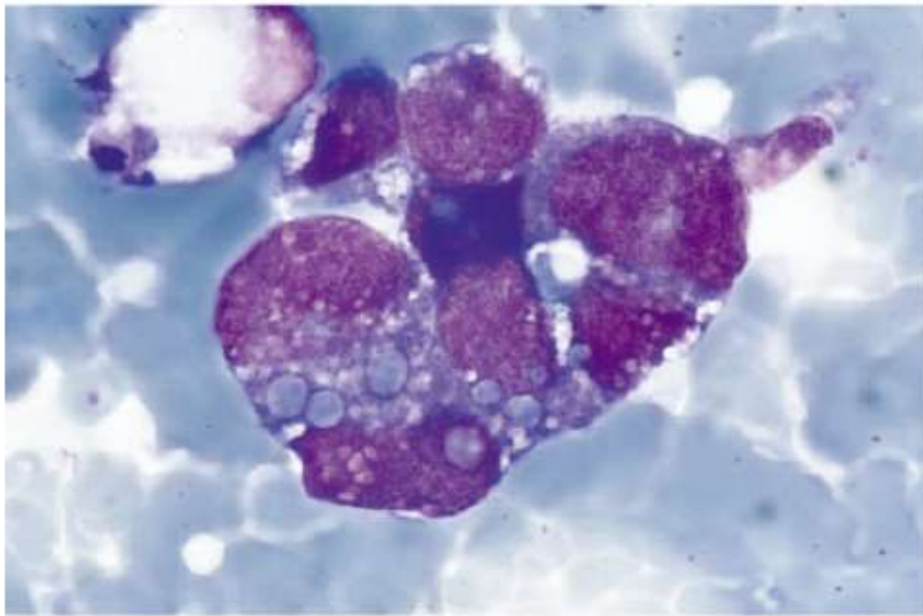


Fig. C-5

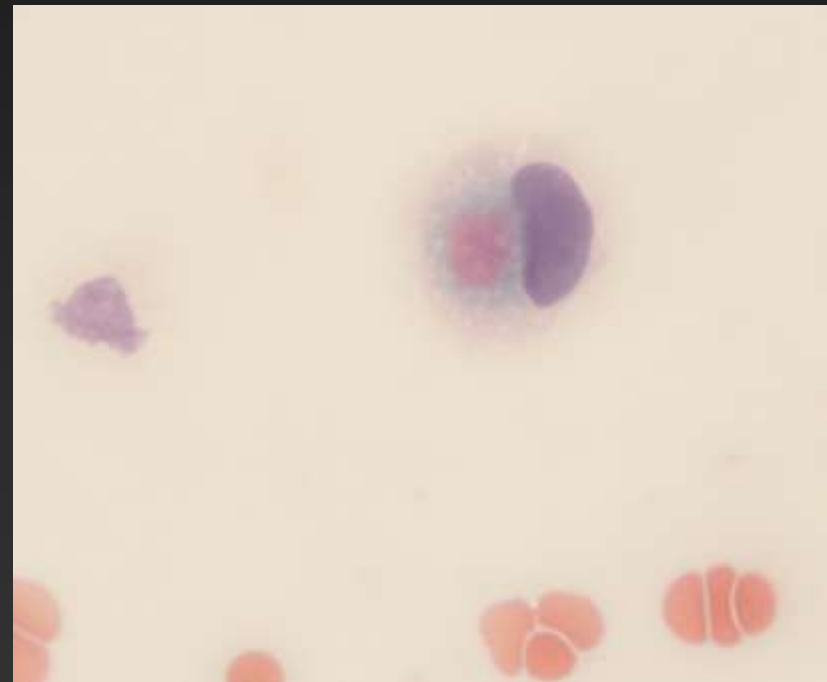


Fig. C-5. Case 16. Epithelioid angiosarcoma. Erythrophagocytosis (May-Grünwald-Giemsa stain, $\times 1,000$).

Cytologic Findings of Epithelioid Angiosarcoma of the Thyroid

A Case Report

(Acta Cytol 2002;46:767-771)

Oscar Lin, M.D., Rene Gerhard, M.D., Sheila Aparecida Coelho Siqueira, M.D., and Ines Vieira de Castro, M.D.

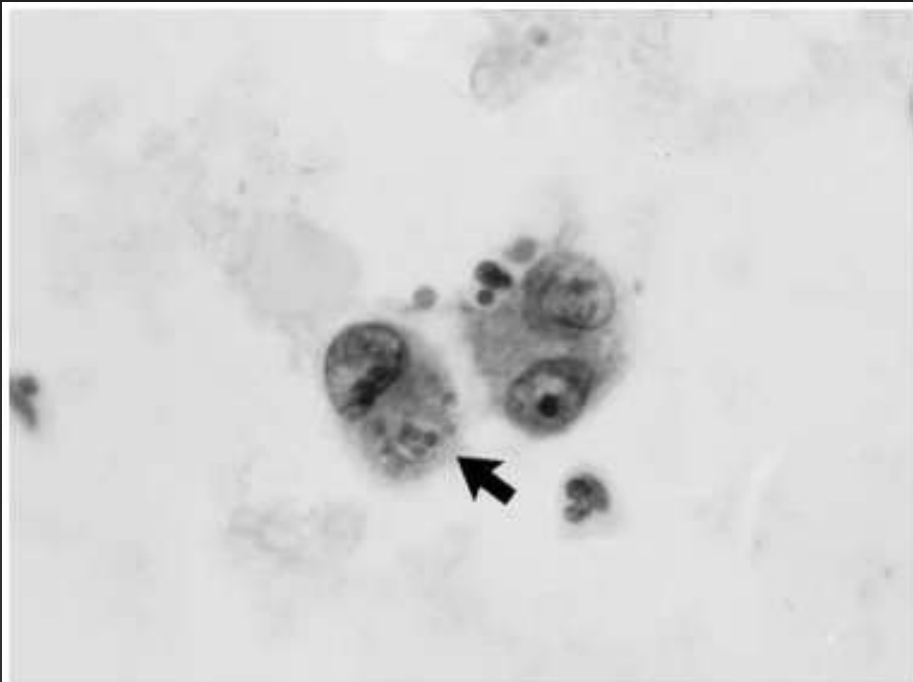
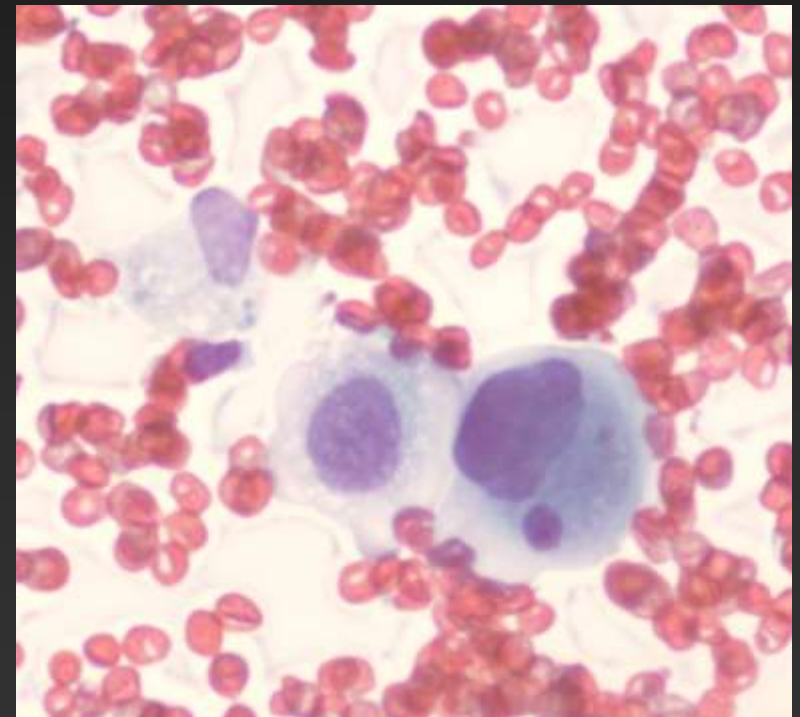


Figure 2 Binucleated cells were identified. The nuclear membranes were slightly irregular, the chromatin pattern was coarse, and a single, prominent nucleolus was evident in the neoplastic cells. Features suggestive of intracytoplasmic lumens containing red blood cells or neutrophils were seen (arrow) (Papanicolaou stain, $\times 400$).



Findings in Fourteen Fine-Needle Aspiration Biopsy Specimens and One Pleural Fluid Specimen

Leslie D. Boucher, MD,¹ Paul E. Swanson, MD,¹ Michael W. Stanley, MD,²
Jan F. Silverman, MD,³ Stephen S. Raab, MD,³ and Kim R. Geisinger, MD⁴

From the ¹Lauren V. Ackerman Laboratory of Surgical Pathology, Washington University Medical Center, St Louis, MO; the ²Department of Pathology, Hennepin County Medical Center, Minneapolis, MN; the ³Department of Pathology and Laboratory Medicine, Allegheny General Hospital, Pittsburgh, PA; and the ⁴Department of Pathology, Wake Forest University School of Medicine, Winston-Salem, NC.

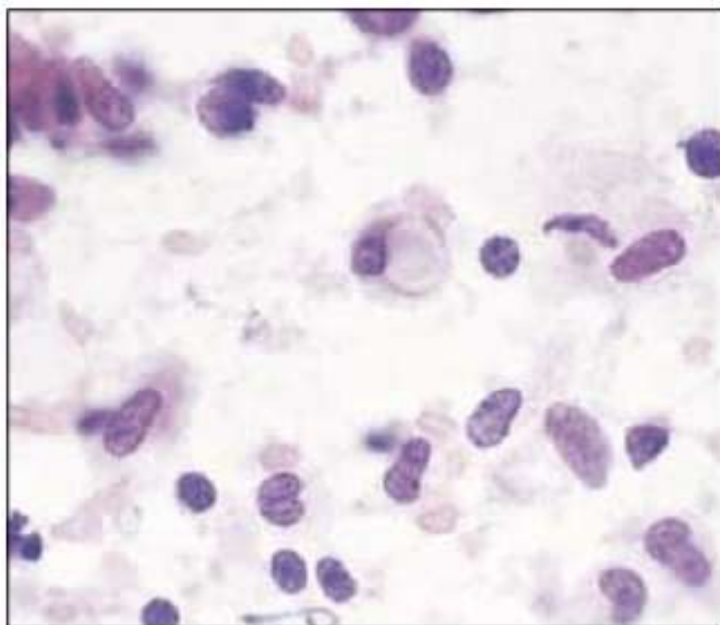
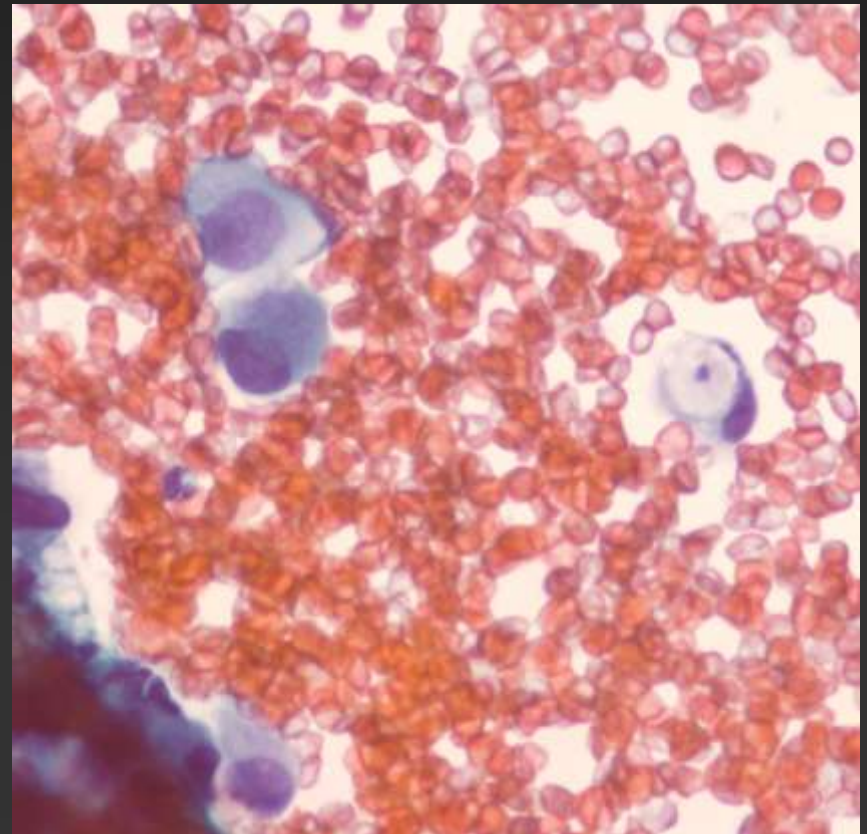


Image 31 (Case 3) Fine-needle aspiration specimen displaying small atypical spindle to oval single cells, with the cell in the center containing a vasoformative feature manifested by the distinct intracytoplasmic lumen. Numerous erythrocytes are present in the background (H&E, $\times 1,000$).



Diagnóstico diferencial citológico

- Carcinomas
 - Carcinoma medular
 - Carcinoma anaplásico
 - Metástasis de carcinoma pobremente diferenciado
- Melanoma maligno
- Otros sarcomas
 - Sarcoma epitelióide, ...
- Mesotelioma maligno
- Linfomas de alto grado

INMUNOCITOQUÍMICA

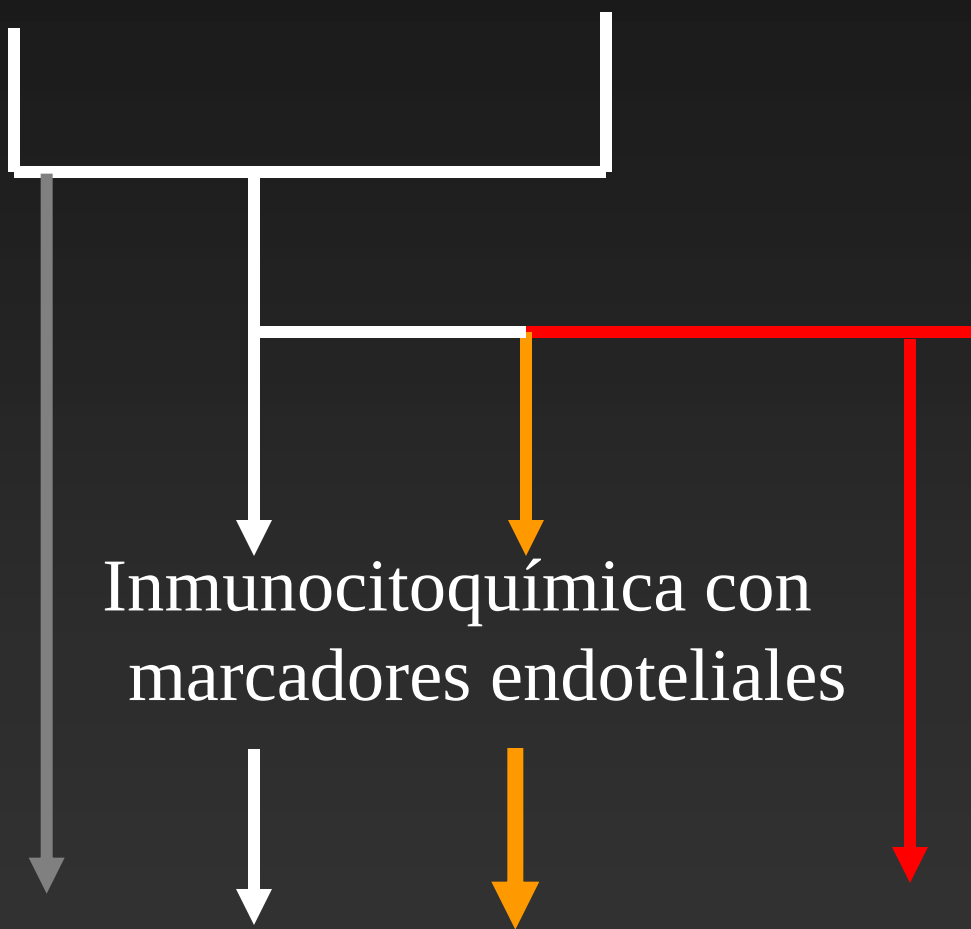
- Fundamental para el diagnóstico diferencial
- Angiosarcoma epitelioides:
 - Marcadores vasculares:
 - CD31: +
 - CD34: +
 - Factor VIIIr-Ag: +
 - Ulex Europeus: +
 - Vimentina: +
 - Citoqueratinas: +/-
 - TTF-1: -
 - Tiroglobulina: -

<i>Autores</i>	<i>Pacientes / tumores / tiroides / PAAFs</i>	<i>Diagnostico citológico</i>	<i>Recidiva / Diagnóstico histológico previo</i>	<i>Inmunocitoquímica</i>
<i>Minimo C, 2002</i>	5 / 5 / 1 / 5	-	-	-
<i>Pohar- Marinsek Z, 2010</i>	- / 9 / 6 / 9	Carcinoma Carcinoma anaplásico (3) Sosp.Carcinoma medular Sosp. Carcinoma Insatisfactorio Mtx Carcinoma Mtx Maligno	1 de 9 / No	-
<i>Jeon YK, 2004</i>	1 / 1 / 0 / 1	Maligno	No / No	No
<i>Cho NH, 1997</i>	1 / 1 / 0 / 1	Maligno	No / No	No
<i>Lin O, 2002</i>	1 / 1 / 1 / 1	Carcinoma	No / No	Sí, en extendidos: AE1AE3+, CK7+, vimentina+, LCA-,CD45RO-,CD20- ,CD30-,EMA-,pS100- No se estudiaron marcadores endoteliales

<i>Autores</i>	<i>Pacientes / tumores / tiroides / PAAFs</i>	<i>Diagnostico citológico</i>	<i>Recidiva / diagnóstico histológico previo</i>	<i>Inmunocitoquímica</i>
<i>Liu K, 1999</i>	1 / 2 / 0 / 2	Angiosarcoma	-	No
<i>Siddaraju N, 2008</i>	1 / 1 / 0 / 2	Insatisfactorio Angiosarcoma epitelioides (vs hemangioendotelioma)	No / No	No
<i>Boucher LD , 2000</i>	2 / 2 / 0 / 1 +1 derrame pleural	Angiosarcoma Sosp. Adenocarcinoma	No / No	Sí (2) - En bloque celular: CD31+,Ulex europeus+ variable, CK+ variable - En bloque celular: B72.3+, no se estudiaron marcadores endoteliales
<i>Vesoulis Z, 2002</i>	1 / 1 / 0 / 1	Angiosarcoma epitelioides	No / No	Sí - En bloque cel: CD31+, F VIIIr-Ag+, CD34+débil, AE1AE3-, EMA-, pS100, HMB45-, REst-, Rprog-
<i>Klijanienko J , 2003</i>	3 / 5 / 0 / 5	Angiosarcoma (2) Sarcoma (2) Sospechoso	Sí (2) / Sí (2)	No
<i>Isa NM, 2009</i>	1 / 1 / 1 / 2	Contenido quístico Angiosarcoma	Sí (1) / Sí (1)	No
<i>Fulciniti F, 2008</i>	2 / 2 / 1 / 2	Angiosarcoma (2)	Sí (2) / Sí (2)	Sí (2) - En extendidos: CD31+,vimentina+ - En extendidos: CD34+, vimentina+

Material citológico
adecuado

Conocimiento citológico
de la entidad



Existencia de un
diagnóstico previo

recidiva

DIAGNÓSTICO CITOLÓGICO DE
ANGIOSARCOMA EPITELIOIDE

XX congreso de la SEC

Gran seminario interactivo de citopatología

Zaragoza, 18 de Mayo de 2011

Víctor M. Castellano Megías, Montserrat López Carreira,
Luz Martín Fragueiro, Angel Castaño Pascual
Anatomía Patológica. Hospital de Fuenlabrada