

Organizado por:



Clínica
Universidad
de Navarra

PUESTA AL DÍA
HEMATOLOGÍA
EN 48H [LO QUE DEBES
CONOCER PARA TU
PRÁCTICA CLÍNICA]
X EDICIÓN

ACTUALÍZATE



48 HORAS

Amiloidosis AL: una visión contemporánea

Ramón Lecumberri

Clínica Universidad de Navarra, Pamplona

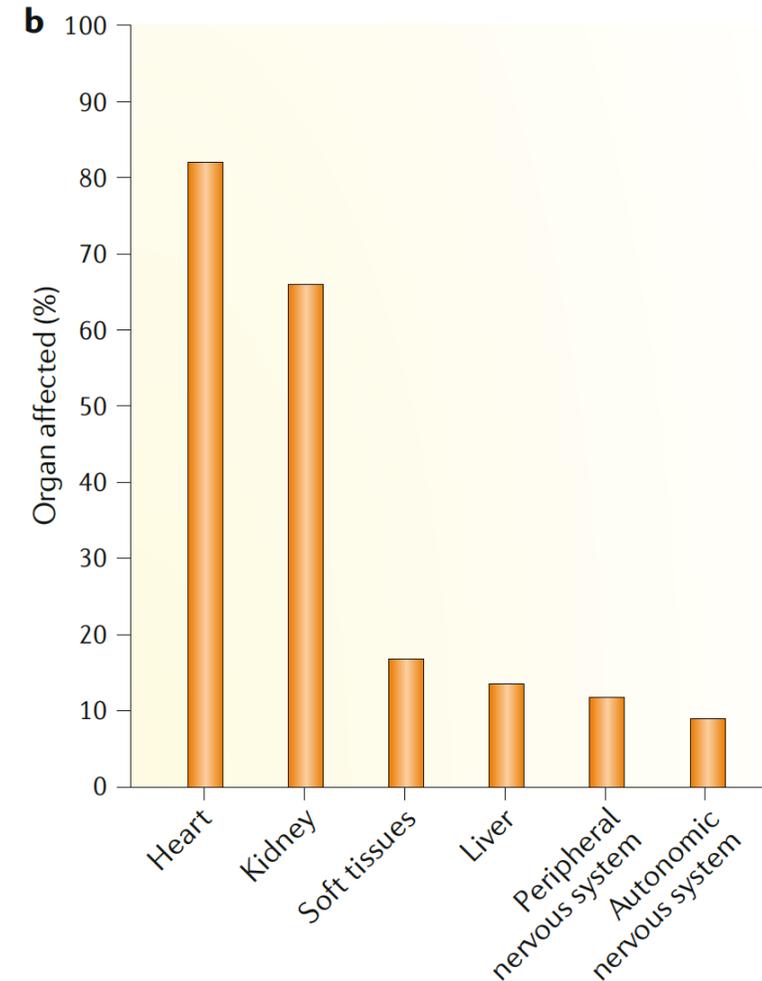
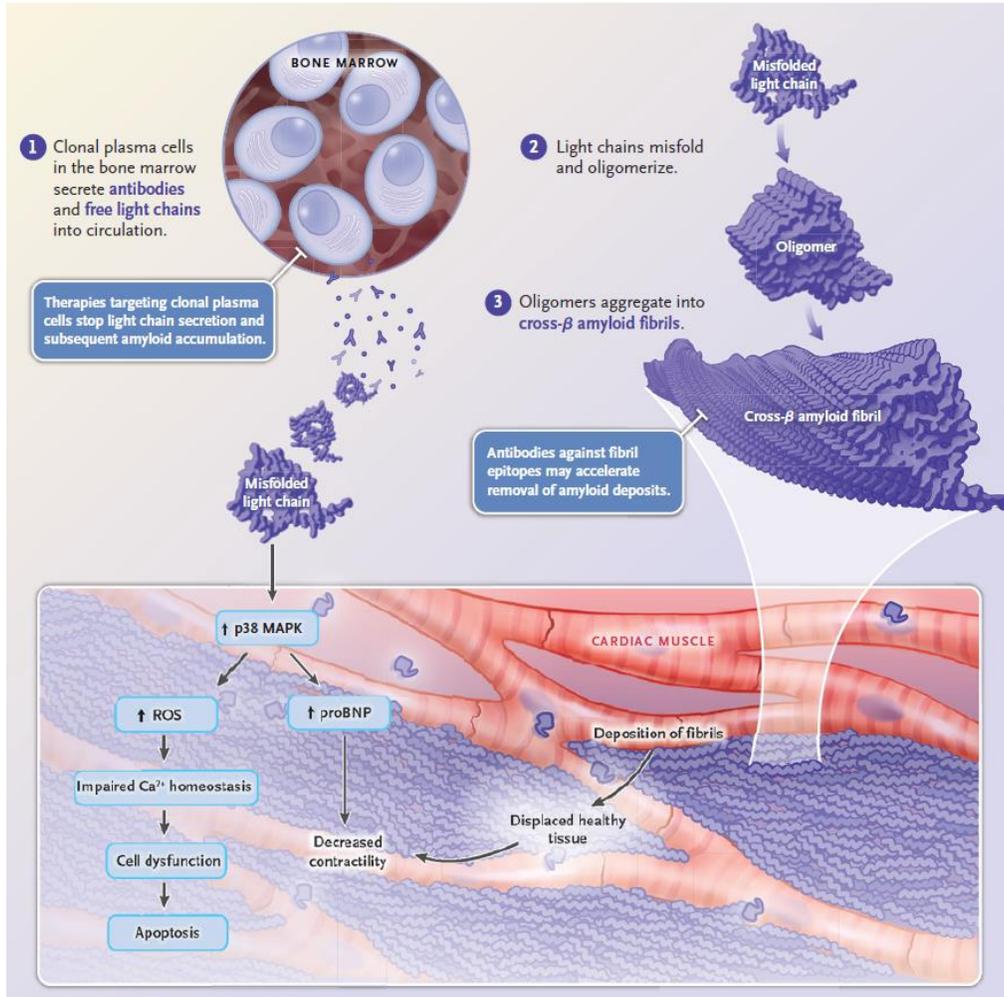
Conflictos de interés

Ayudas a la investigación	Haemalogix
Empleado	N/A
Consultor	N/A
Acciones	N/A
Ponente	Janssen
Honorarios	N/A
Advisory Board	Janssen, Regeneron, Prothena

Amiloidosis AL

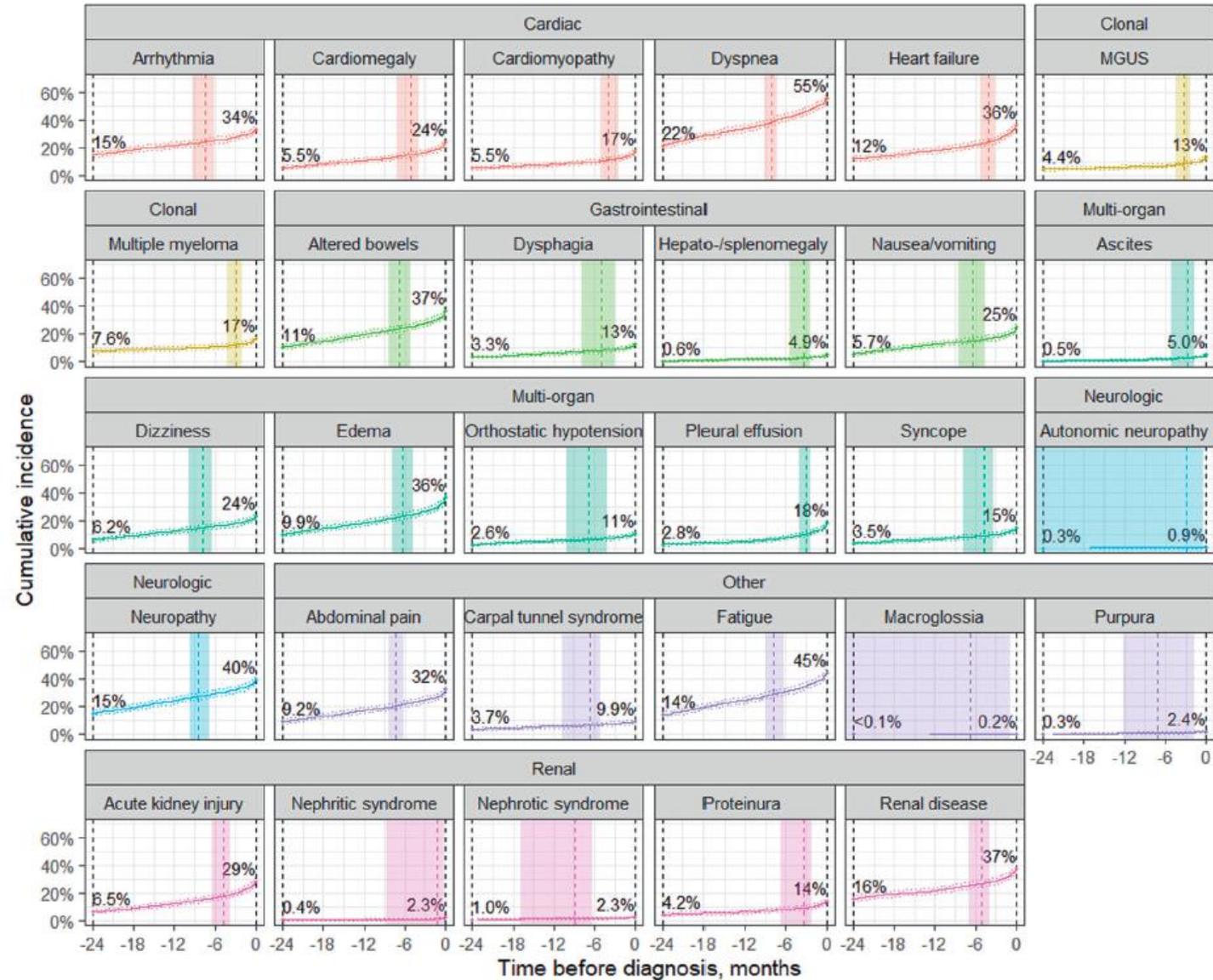
Incidencia: 10-15 casos por millón de personas-año

10% de los pacientes con mieloma múltiple pueden asociar depósitos de amiloide AL



Agenda

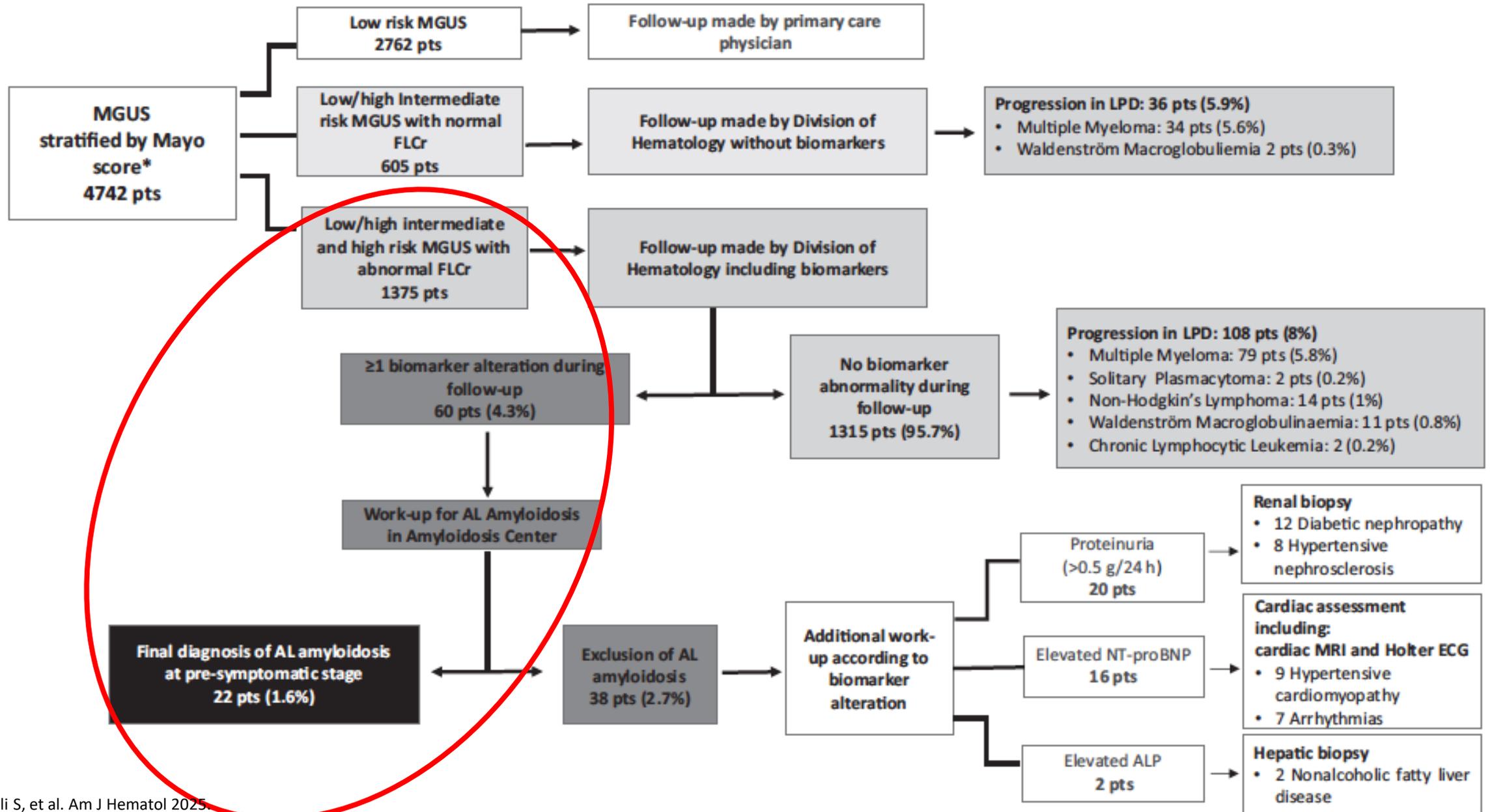
- Diagnóstico precoz
- Tratamiento de primera línea
 - Objetivos de respuesta
 - Enfermedad mínima residual
 - Papel del mantenimiento
 - Rol del auto-TPH
- Tratamiento de la recaída
- Perspectivas de futuro



- Median time between symptoms and diagnosis > 1 year
- Median number of specialists visited: 4-5
- Monoclonal Gammopathy already known in 30% before diagnosis

Louzada I, et al. Adv Ther 2015.
 Hester LL, et al. Eur J Haematol 2021.
 Palladini G, et al. Blood 2021.
 Singh A, et al. Blood Cancer J 2024.

- MGUS with FLC impairment
 - Pro-BNP
 - 24h proteinuria (albuminuria)
 - Alkaline phosphatase
- MGUS/Multiple Myeloma with:
 - Atypical symptoms
 - Carpal tunnel syndrome (bilateral)
 - Low-voltage ECG





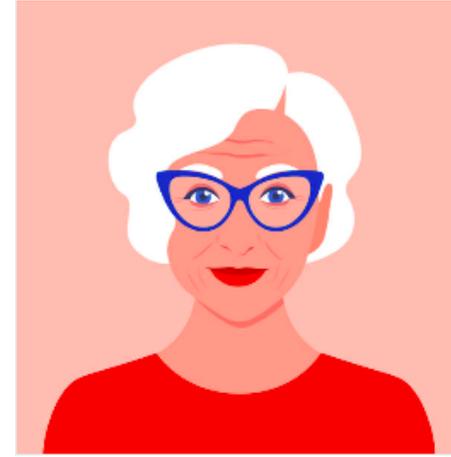
En un futuro próximo:

- Propiedades de la cadena ligera monoclonal circulante
- Caracterización del clon de células plasmáticas
- Pruebas de imagen de órganos afectados

Algoritmos de IA/Machine learning

Caso clínico

Mujer de 79 años



ANTECEDENTES PERSONALES

- Dislipemia
- Fibrilación auricular
- ERC 4 A2 no filiada
- Proteína monoclonal desde hace 20 años
- Ingesta de AINES de forma crónica

Medicación habitual:

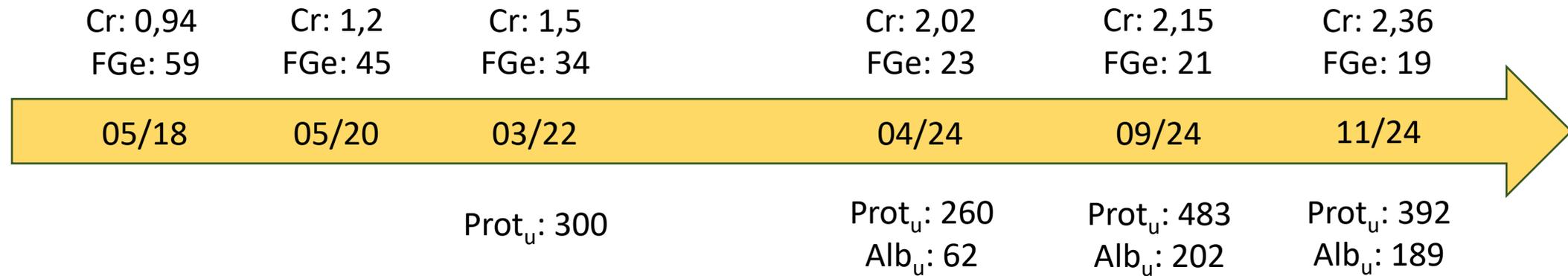
- Apixabán 2.5 mg: 1-0-1
- Pravastatina 20 mg: 0-0-1
- Clonazepam 1 mg: 0-0-1
- Calcio y omega 3

No antecedentes familiares de interés

Caso clínico

HISTORIA ACTUAL

En seguimiento por Medicina interna y Nefrología en otro centro.



Desestimada biopsia renal por edad

Caso clínico

Estudios complementarios

- C3 y C4 normales
- Proteinuria mixta, con presencia de albúmina e inmunoglobulinas policlonales
- sCM IgG-lambda de 0,97g/dL
- Cadenas ligeras libres kappa: 57 mg/L
- Cadenas ligeras libres lambda: 98 mg/L
- Cociente kappa/lambda: 0,64
- No hipercalcemia, anemia ni lesiones esqueléticas
- BMO: 5% CP (97% con fenotipo patológico)
- Sin alteraciones citogenéticas/FISH



Biopsia renal

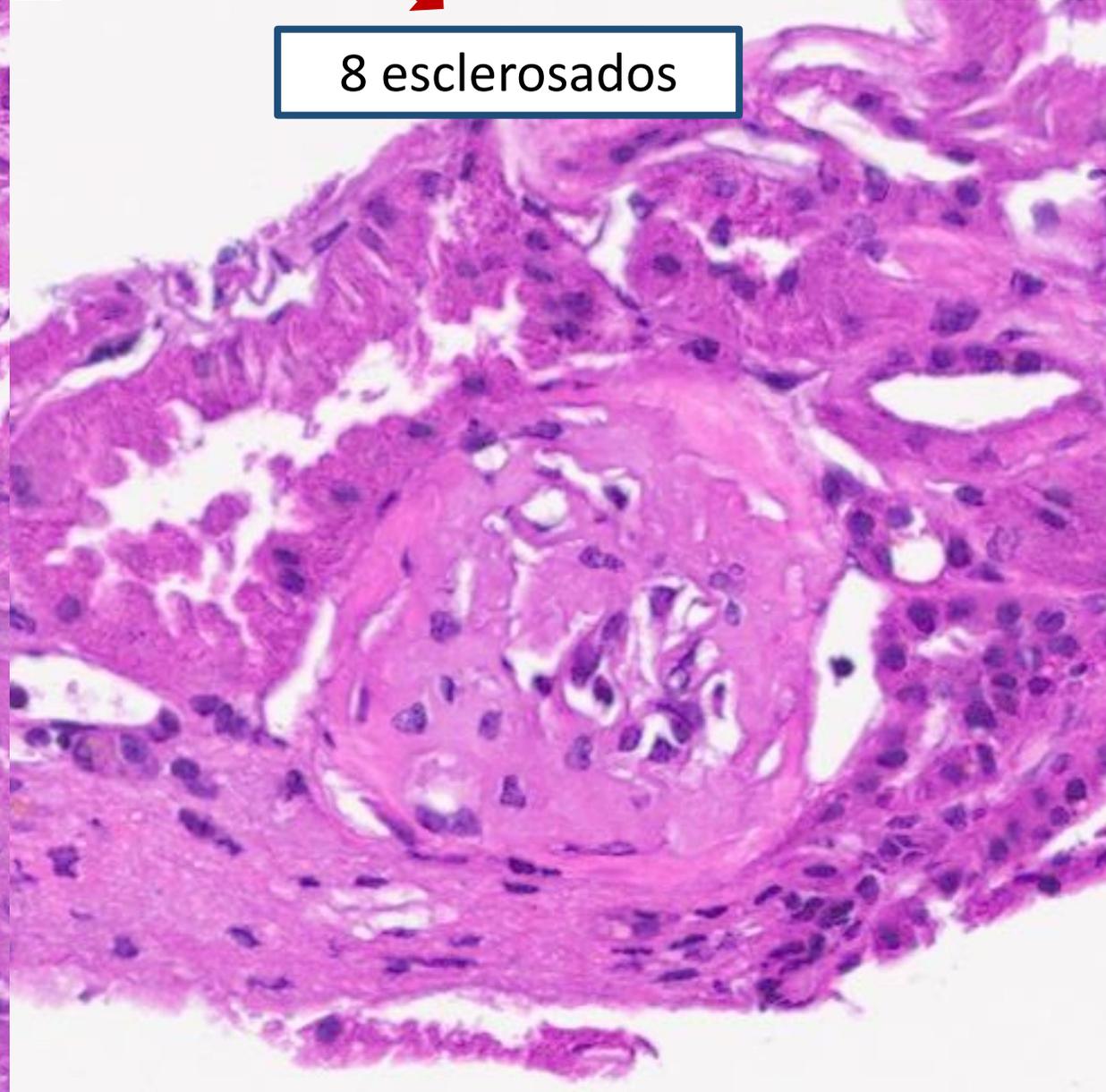
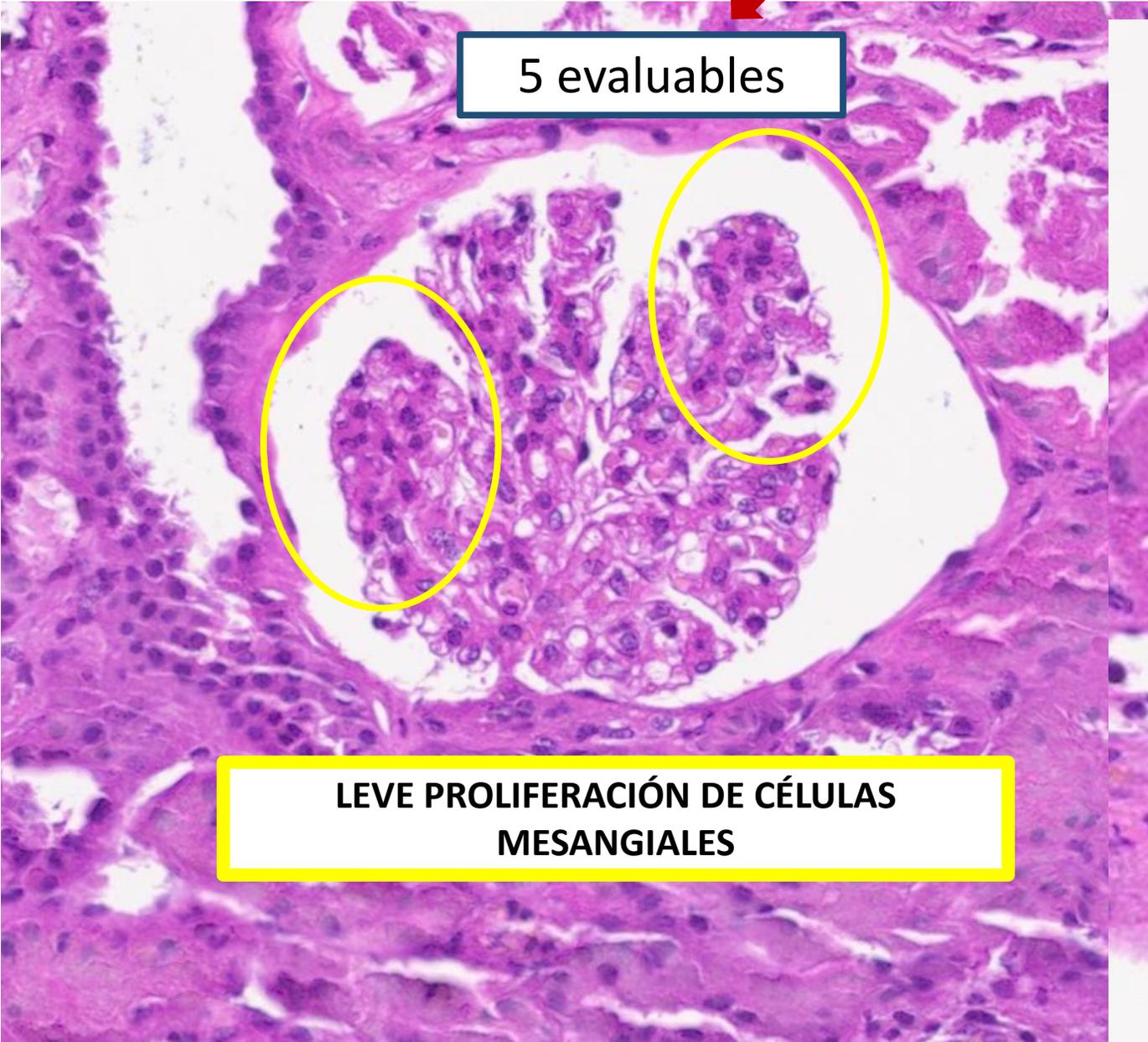
Biopsia renal

13 GLOMÉRULOS

5 evaluables

8 esclerosados

LEVE PROLIFERACIÓN DE CÉLULAS
MESANGIALES



Biopsia renal

INTERSTICIO

FIBROSIS INTERSTICIAL <5%
ATROFIA TUBULAR <5%

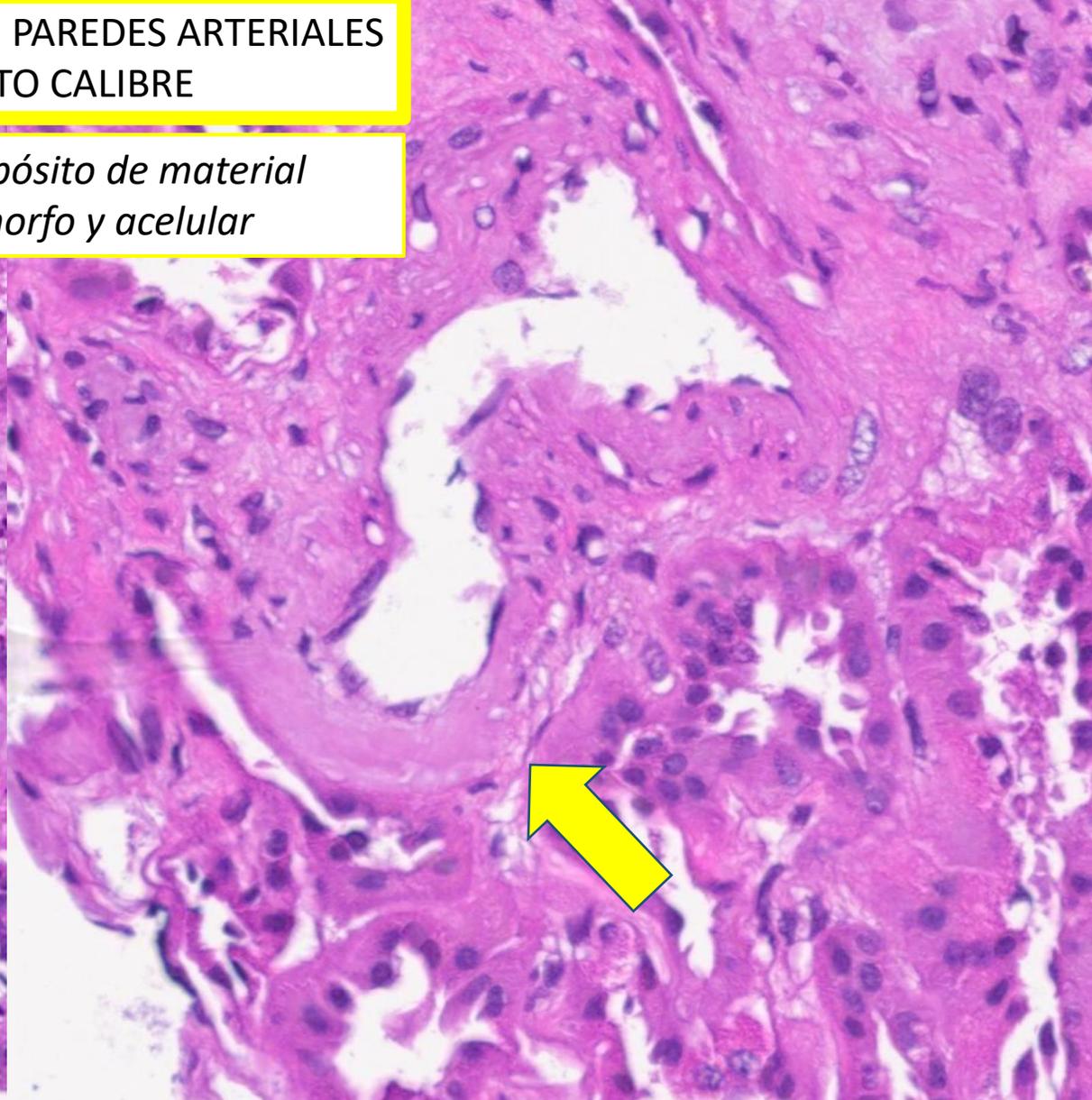
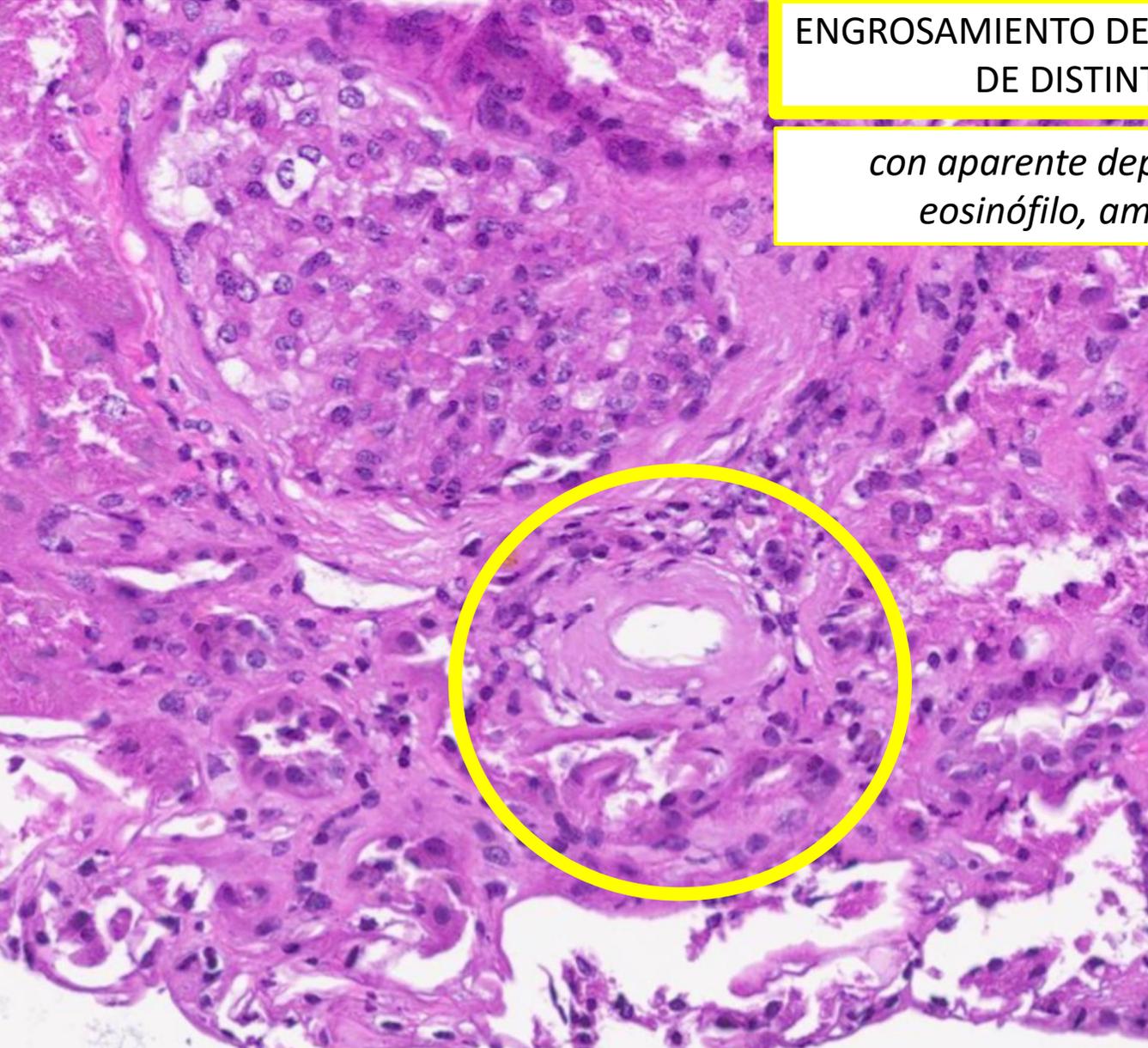


Biopsia renal

VASOS

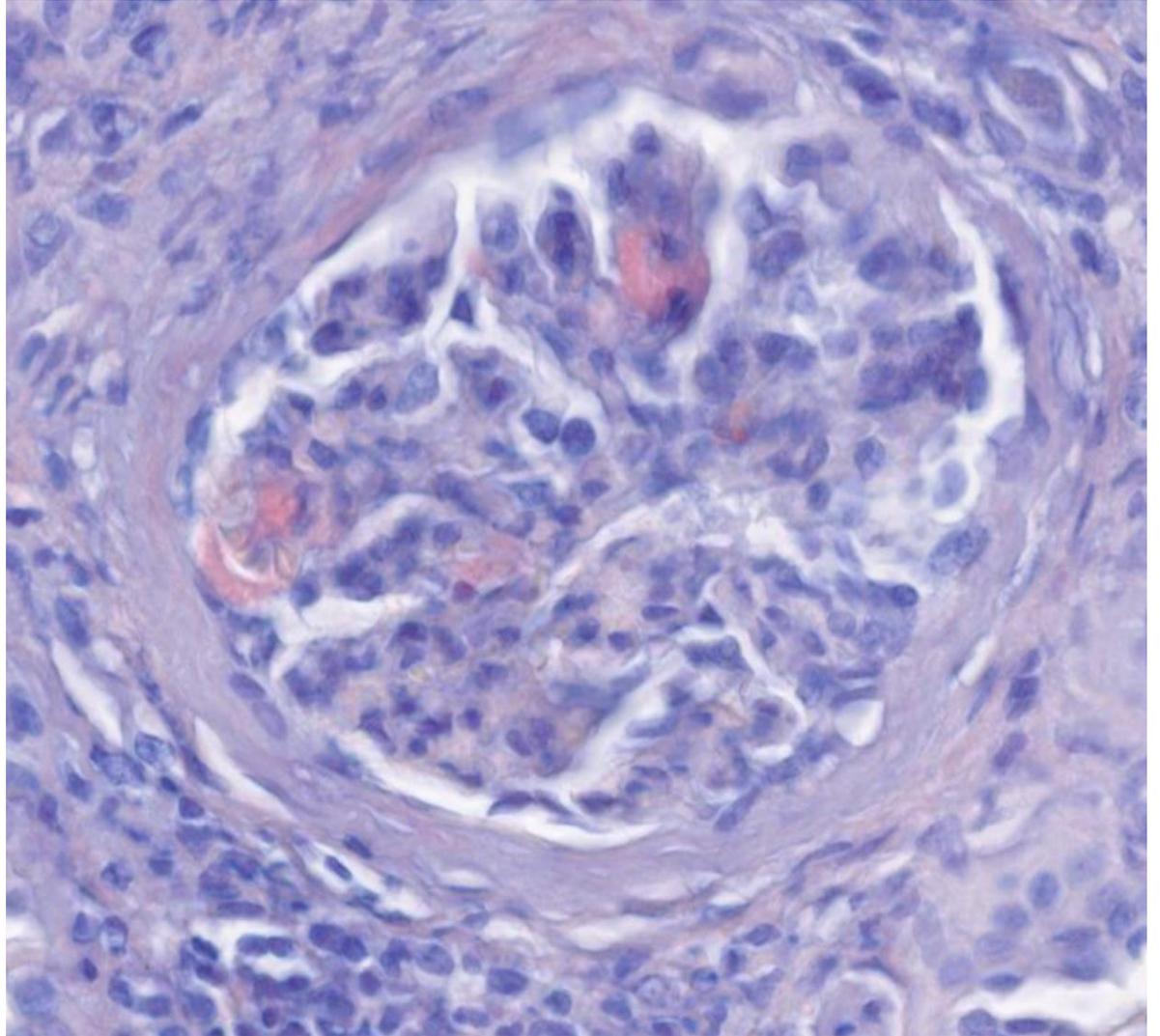
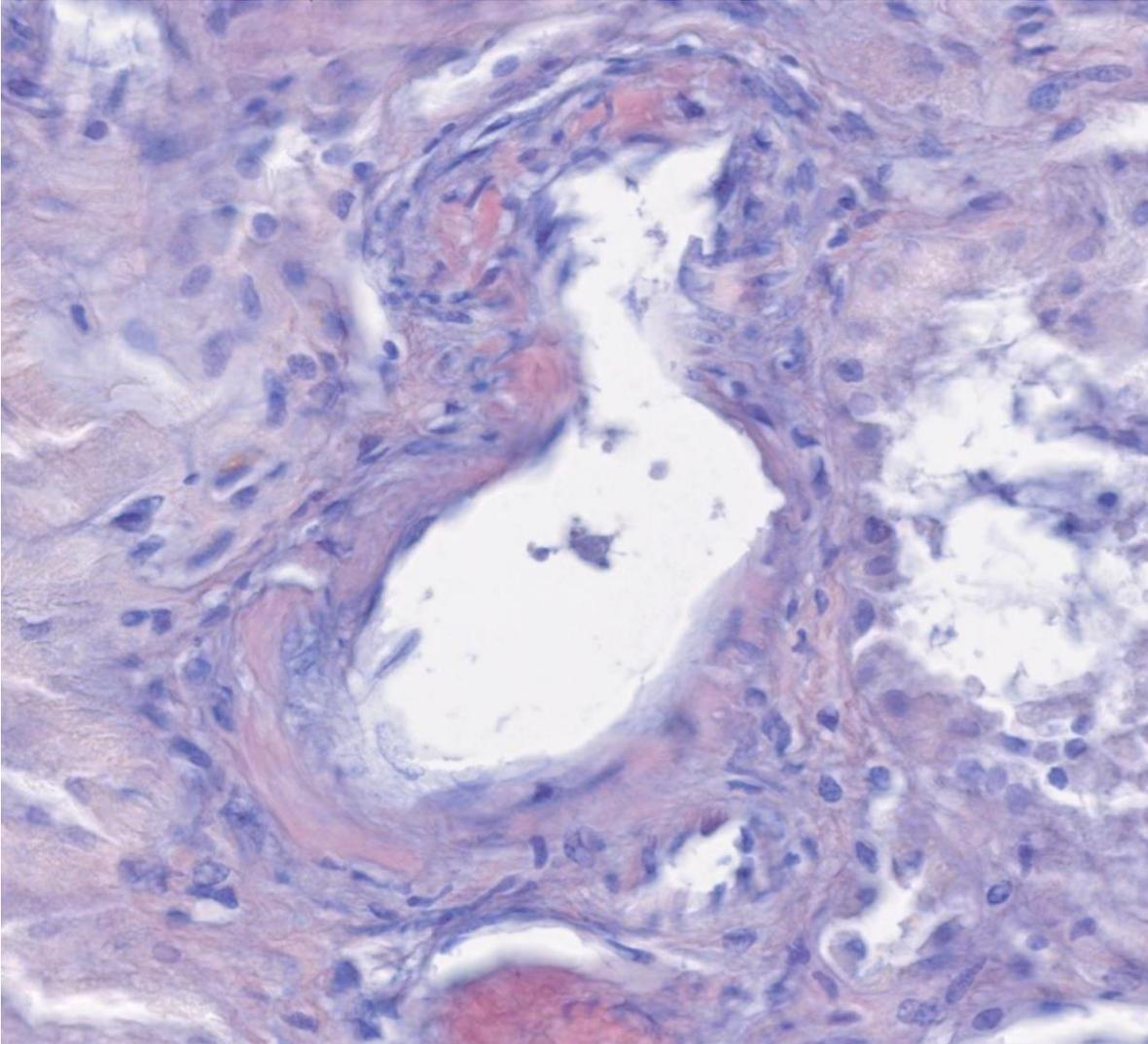
ENGROSAMIENTO DE PAREDES ARTERIALES
DE DISTINTO CALIBRE

*con aparente depósito de material
eosinófilo, amorfo y acelular*



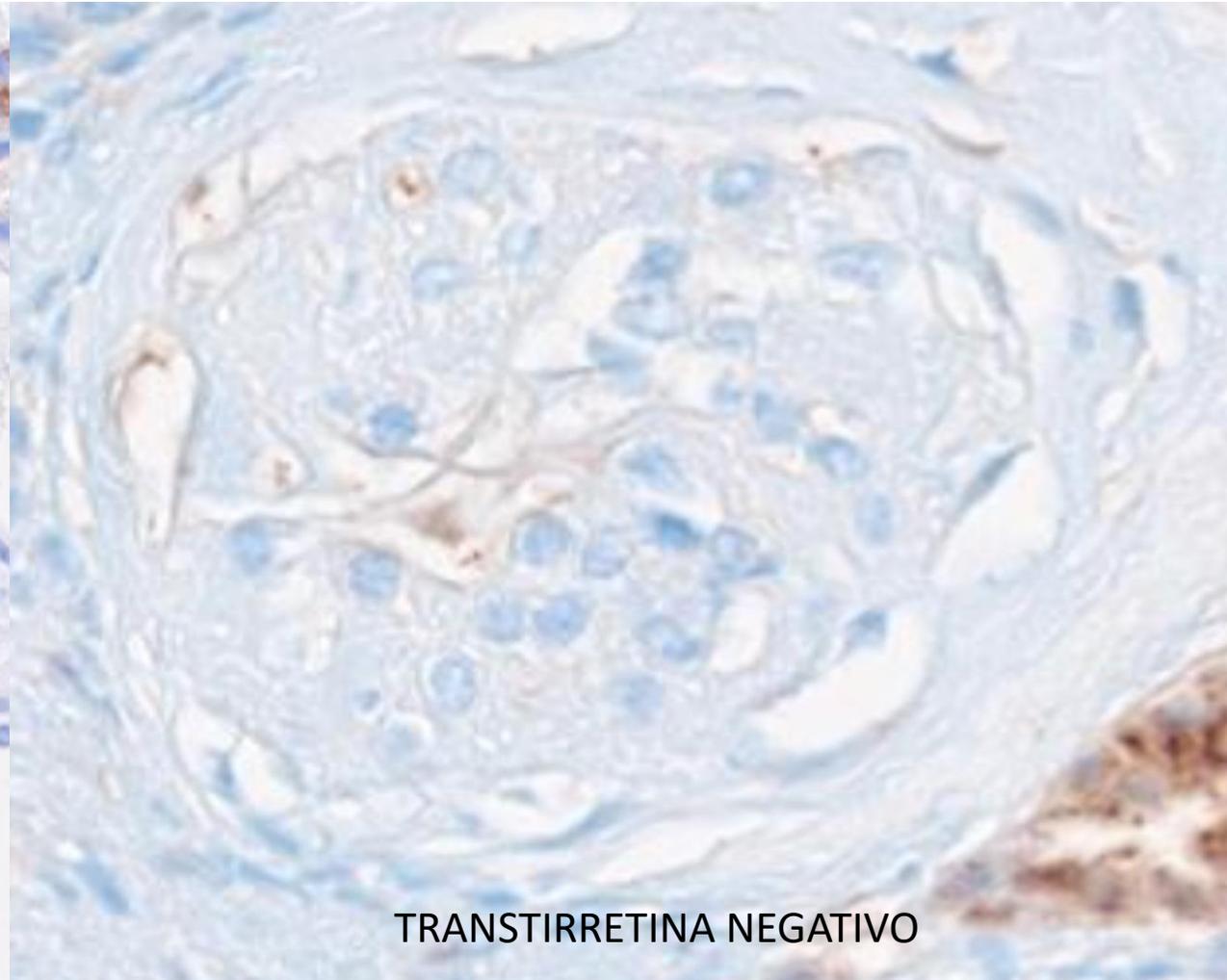
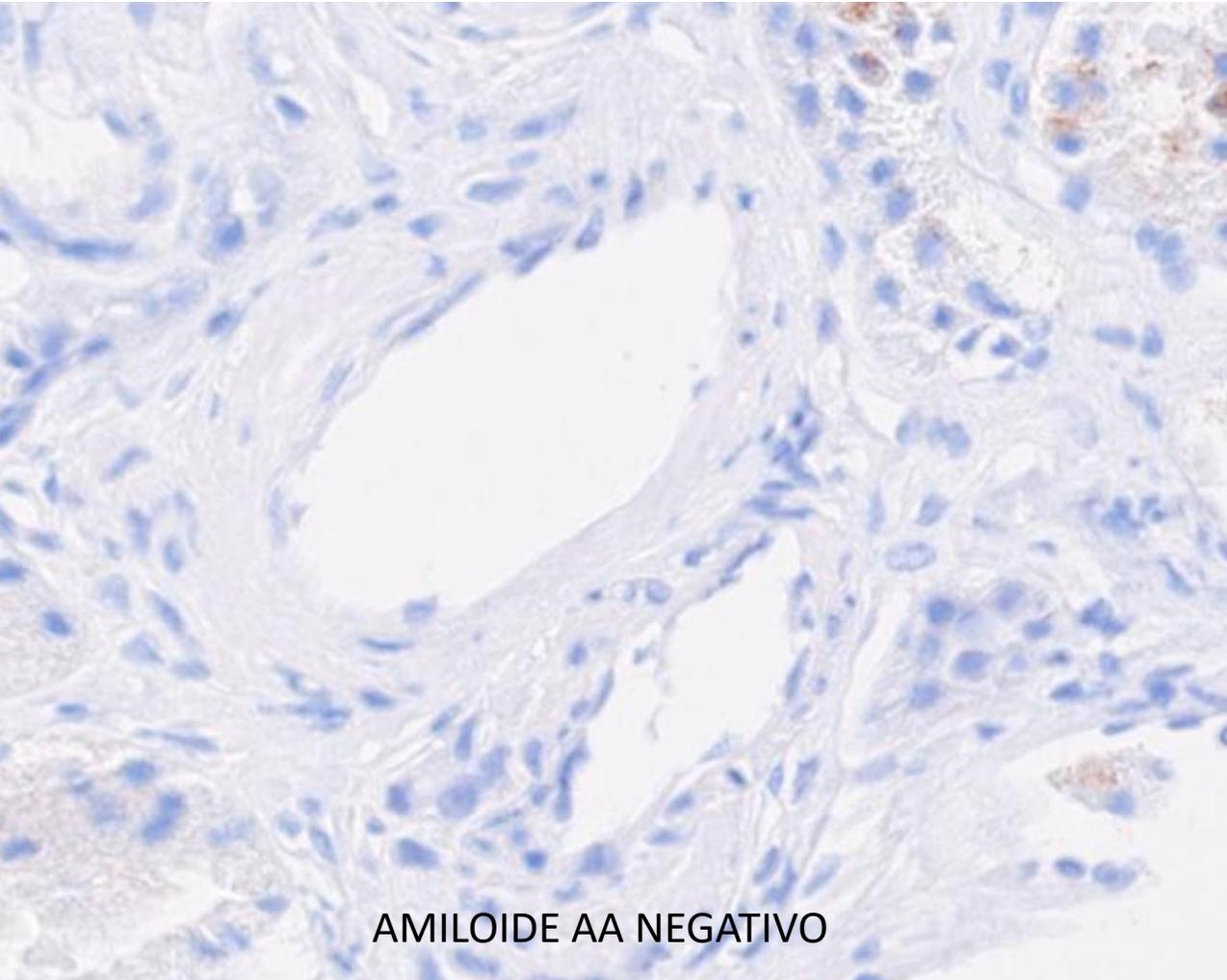
Biopsia renal

ROJO CONGO +



Biopsia renal

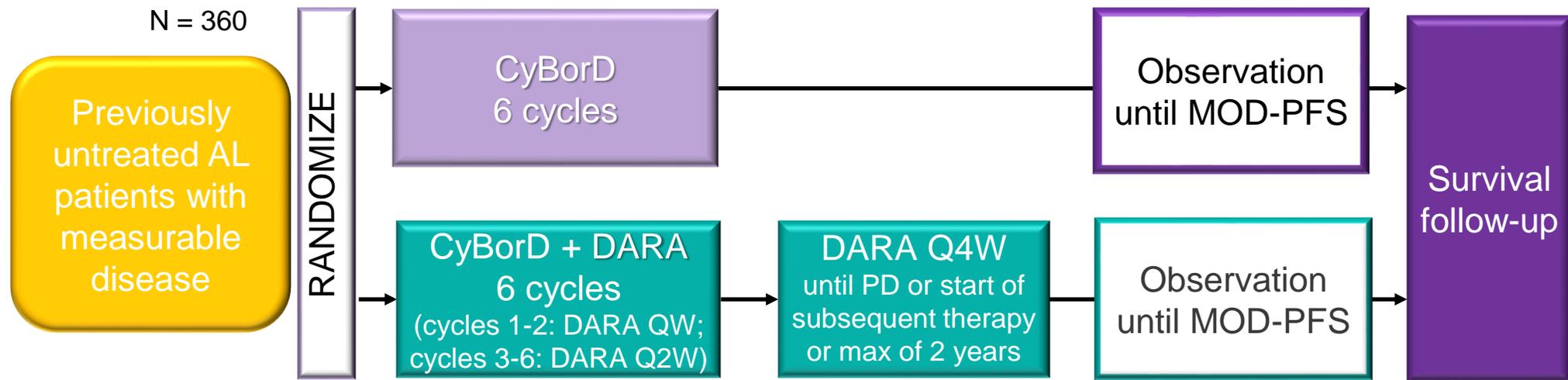
IHQ TIPIFICACIÓN AMILOIDE



Kappa y Lambda no valorable

1	Accession	Score	Mass	Num. of significant matches	Num. of significant sequences	emPAI	Description
2	P35527	37679	62255	1063	37	231,36	Keratin, type I cytoskeletal 9 OS=Homo sapiens OX=9606 GN=KRT9 PE=1 SV=3
3	P04264	54490	66170	1310	39	100,92	Keratin, type II cytoskeletal 1 OS=Homo sapiens OX=9606 GN=KRT1 PE=1 SV=6
4	P02533	15609	51872	480	31	98,89	Keratin, type I cytoskeletal 14 OS=Homo sapiens OX=9606 GN=KRT14 PE=1 SV=4
5	P13645	27050	59020	738	29	77,91	Keratin, type I cytoskeletal 10 OS=Homo sapiens OX=9606 GN=KRT10 PE=1 SV=6
6	P02649	9935	36246	272	20	65,44	Apolipoprotein E OS=Homo sapiens OX=9606 GN=APOE PE=1 SV=1
7	P08670	9673	53676	285	32	58,61	Vimentin OS=Homo sapiens OX=9606 GN=VIM PE=1 SV=4
8	P13647	11469	62568	344	27	18,63	Keratin, type II cytoskeletal 5 OS=Homo sapiens OX=9606 GN=KRT5 PE=1 SV=3
9	P06727	5532	45344	204	21	17,94	Apolipoprotein A-IV OS=Homo sapiens OX=9606 GN=APOA4 PE=1 SV=4
10	P68871	2213	16102	58	9	17,6	Hemoglobin subunit beta OS=Homo sapiens OX=9606 GN=HBB PE=1 SV=2
11	P02768	8267	71317	272	35	16,91	Albumin OS=Homo sapiens OX=9606 GN=ALB PE=1 SV=2
12	P0DOY2	1461	11458	50	4	6,69	Immunoglobulin lambda constant 2 OS=Homo sapiens OX=9606 GN=IGLC2 PE=1 SV=1
13	P07355	2229	38808	64	15	6,11	Annexin A2 OS=Homo sapiens OX=9606 GN=ANXA2 PE=1 SV=2
14	P0DP23	293	16827	23	5	6,06	Calmodulin-1 OS=Homo sapiens OX=9606 GN=CALM1 PE=1 SV=1
15	P08727	3991	44079	145	14	6,01	Keratin, type I cytoskeletal 19 OS=Homo sapiens OX=9606 GN=KRT19 PE=1 SV=4
16	P06703	316	10230	15	2	2,92	Protein S100-A6 OS=Homo sapiens OX=9606 GN=S100A6 PE=1 SV=1
17	P63104	1259	27899	35	7	2,91	14-3-3 protein zeta/delta OS=Homo sapiens OX=9606 GN=YWHAZ PE=1 SV=1
18	P35625	793	24813	26	6	2,8	Metalloproteinase inhibitor 3 OS=Homo sapiens OX=9606 GN=TIMP3 PE=1 SV=2
19	P67936	1234	28619	46	8	2,77	Tropomyosin alpha-4 chain OS=Homo sapiens OX=9606 GN=TPM4 PE=1 SV=3
20	P08758	773	35971	28	9	2,76	Annexin A5 OS=Homo sapiens OX=9606 GN=ANXA5 PE=1 SV=2
21	P02743	1603	25485	47	6	2,67	Serum amyloid P-component OS=Homo sapiens OX=9606 GN=APCS PE=1 SV=2
22	P15924	7454	334021	272	88	2,65	Desmoplakin OS=Homo sapiens OX=9606 GN=DSP PE=1 SV=3
23	P06100	297	10885	17	2	2,61	Protein S100-A8 OS=Homo sapiens OX=9606 GN=S100A8 PE=1 SV=1

Daratumumab in AL amyloidosis: ANDROMEDA Phase 3 study in newly diagnosed AL (stage 1-3A)



Primary outcome: Overall complete hematologic response

Secondary outcomes : Major organ deterioration progression-free survival (MOD-PFS), progression-free survival (PFS), organ response rate (OrRR), overall survival (OS), QOL measurements, time to next treatment (TNT), hematologic VGPR, time to CR and time to hematologic VGPR or better, duration of CR and duration of hematologic VGPR or better, time to organ response, duration of organ response

FDA grants accelerated approval to Darzalex Faspro for newly diagnosed light chain amyloidosis

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Resources for Information | Approved Drugs

Oncology (Cancer) / Hematologic Malignancies Approval Notifications

On January 15, 2021, the Food and Drug Administration granted accelerated approval to daratumumab plus hyaluronidase (Darzalex Faspro, Janssen Biotech Inc.) in combination with bortezomib, cyclophosphamide and dexamethasone for newly diagnosed light chain (AL) amyloidosis.

Efficacy was evaluated in ANDROMEDA (NCT03201965), an open-label, randomized, active-controlled trial in 388 patients with newly diagnosed AL amyloidosis with

Content current as of: 01/15/2021



Medicines - Human regulatory - Veterinary regulatory - Committees - News & events - Partners & networks - About us

Home > Medicines > Darzalex

Darzalex

daratumumab

Medicine Human

Share RSS

Authorised

This medicine is authorised for use in the European Union

Page contents

Overview

Product Information

Overview

Darzalex is a medicine used to treat adults with multiple myeloma (a cancer of the bone marrow) and light chain (AL) amyloidosis (a blood disease in which deposits of abnormal proteins, called amyloids, accumulate and cause damage in tissues and organs).



Informe de Posición de la SEHH

Daratumumab, ciclofosfamida, bortezomib y dexametasona para el tratamiento de los pacientes con amiloidosis AL de nuevo diagnóstico



REValMed SNS
Comisión Permanente de Farmacia

**INFORME DE POSICIONAMIENTO TERAPÉUTICO
PT 95-2023/V1/12012023**

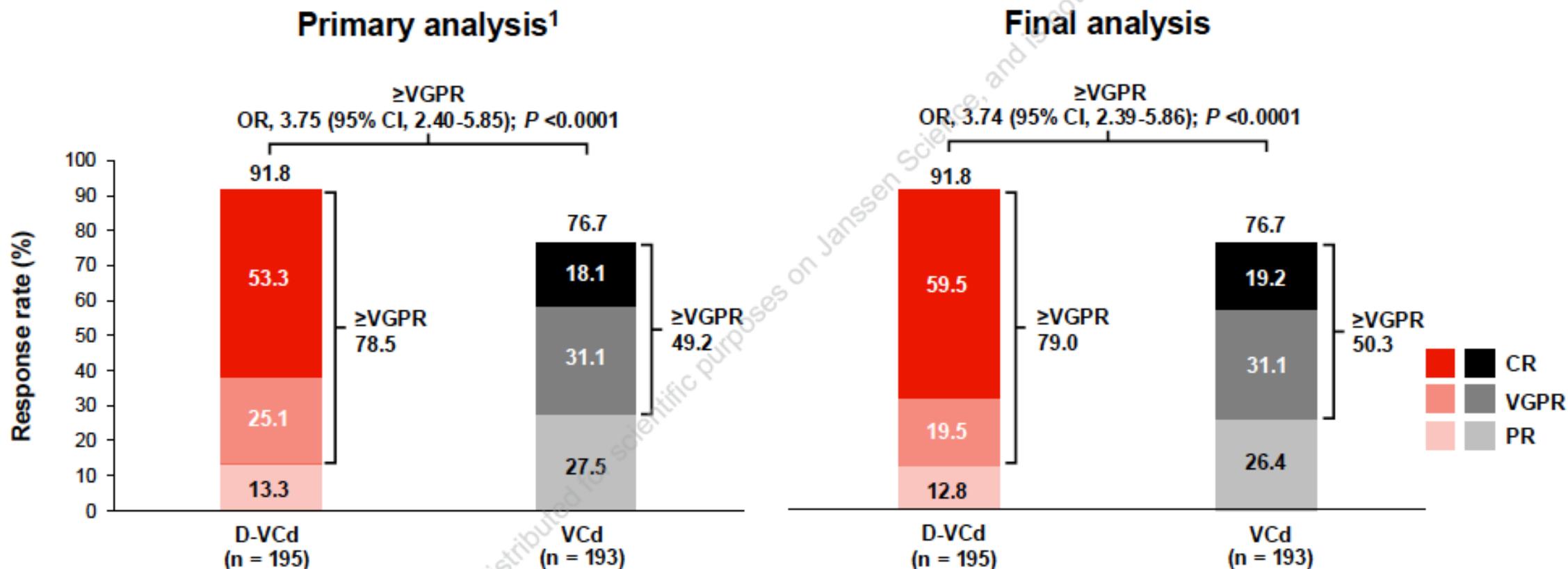
Informe de Posicionamiento Terapéutico de Daratumumab (Darzalex®) en combinación con ciclofosfamida, bortezomib y dexametasona en pacientes con Amiloidosis Sistémica de Cadenas Ligeras

Fecha de publicación: 12/01/2023

CONSIDERACIONES FINALES DEL GC REVALMED SNS

*La Dirección General de Cartera Común de Servicios del SNS y Farmacia (DGCCSSNSYF) ha emitido resolución de no financiación para la indicación de **DARZALEX®** (daratumumab) en combinación con ciclofosfamida, bortezomib y dexametasona para el tratamiento de pacientes adultos con amiloidosis sistémica de cadenas ligeras de nuevo diagnóstico.*

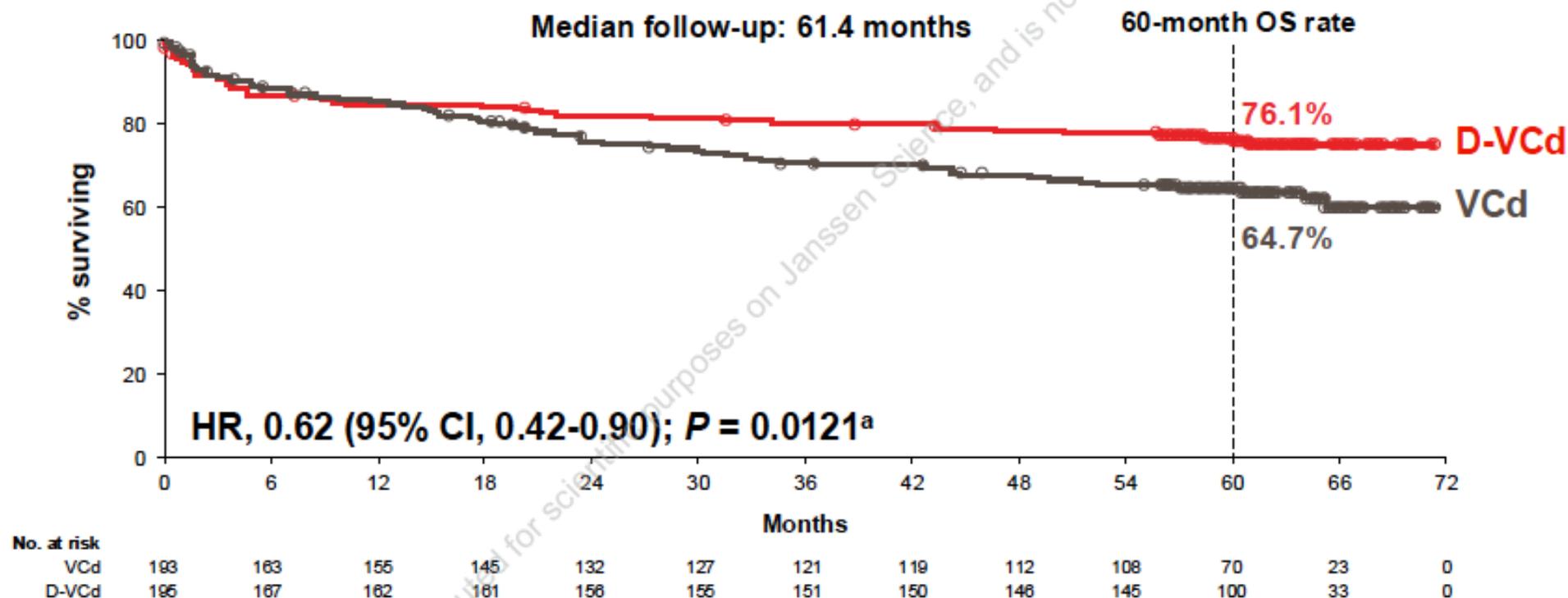
ANDROMEDA: Overall Hematologic Response at the Final Analysis



The addition of DARA to VCd consistently led to higher rates of hematologic response



ANDROMEDA: Overall Survival

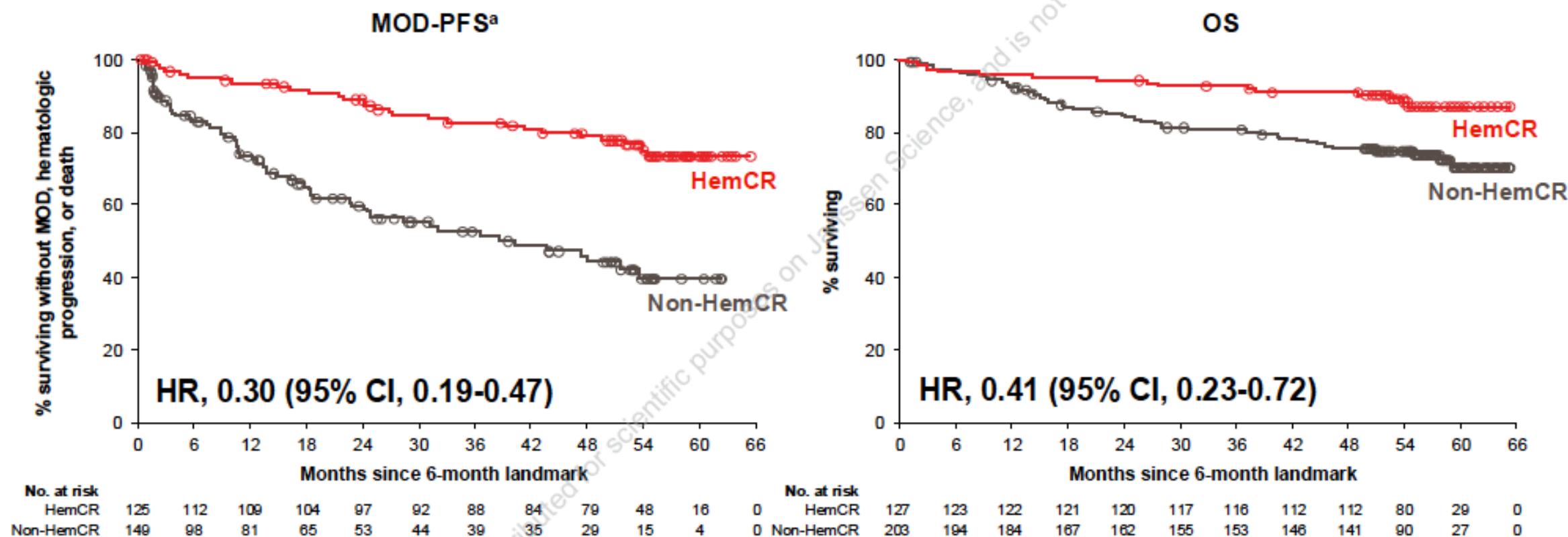


The addition of DARA to VCd significantly improved OS versus VCd despite cross-over in >70% of VCd patients who received DARA as subsequent therapy, highlighting the importance of DARA use in frontline treatment

^aCrossing the prespecified stopping boundary of 0.0163.



ANDROMEDA: Major Organ Deterioration (MOD)–PFS and Overall Survival by Hematologic Complete Response



Achieving HemCR was associated with improved MOD-PFS and OS from the 6-month landmark analysis and beyond

^aMOD-PFS is a composite endpoint defined as end-stage cardiac disease (requiring cardiac transplant, left ventricular assist device, or intra-aortic balloon pump), end-stage renal disease (requiring hemodialysis or renal transplant), hematologic progression per consensus guidelines, or death. Kaplan-Meier estimates in those patients who achieved HemCR versus those who did not achieve HemCR.



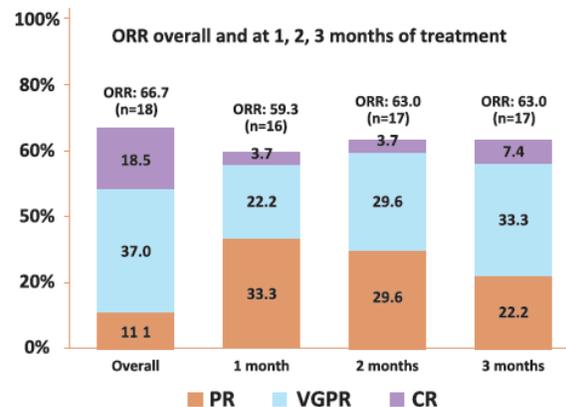
Efficacy And Safety of Daratumumab Monotherapy in Newly Diagnosed Patients with Stage 3B Light Chain Amyloidosis: A Phase 2 Study by the European Myeloma Network

Patient Characteristics At Screening (N=27)

Besides the heart, the median number of organs involved was 2 (range 0–5), most commonly kidneys (14 pts, 52%) and peripheral nerves (11 pts, 41%).

Intention-To-Treat patients (N=27)	
Age, median (Min-Max)	68.0 (45.0-84.0)
Gender	
Male	16 (59.3%)
Female	11 (40.7%)
NYHA classification screening, n(%)	
II	10 (37%)
IIIA, n (%)	17 (63%)
NT-proBNP (pg/mL), median (Min-Max)	15,512 (8,816–72,522)
HS Troponin T (pg/mL), median (Min-Max)	133 (60–692)
dFLC (mg/dL), median (Min-Max)	40.6 (2.4-337.7)
Patients with Organ involvement apart from heart, n (%)	24 (88.9%)

Response Evaluation (N=27)

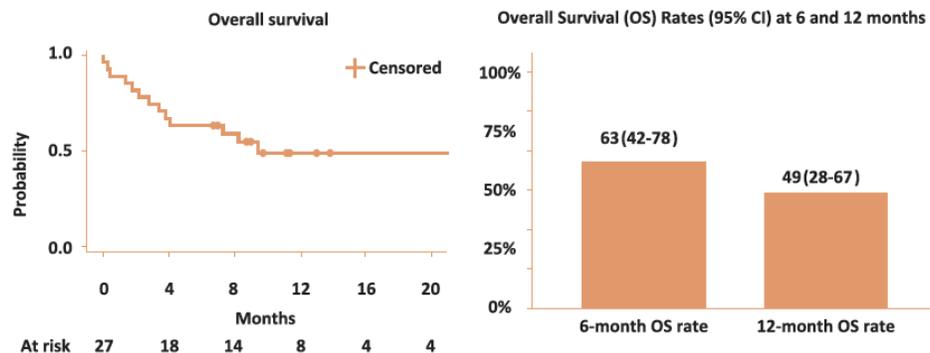


The median duration of DARA therapy was 7 months (range <1–24); seven (26%) pts received additional Vd. At a median observation time of 8 months (range <1–11).

Median time to first response was 7 days (range 6–114), and to VGPR or better 54 days (range 6–219)

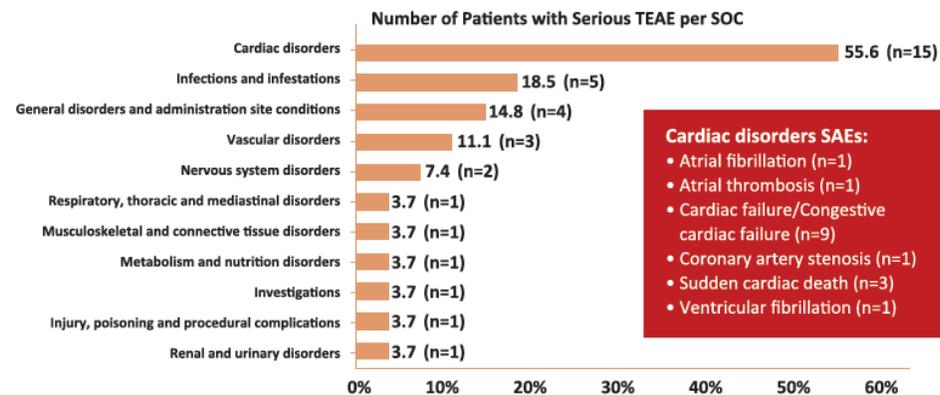
Overall Survival

Median OS was 9 months (95% CI, 3–not reached).



The median (95% confidence interval [CI]) OS and the respective 6- and 12-month rates was obtained by Kaplan-Meier analysis

Patients with serious TEAEs by SOC term



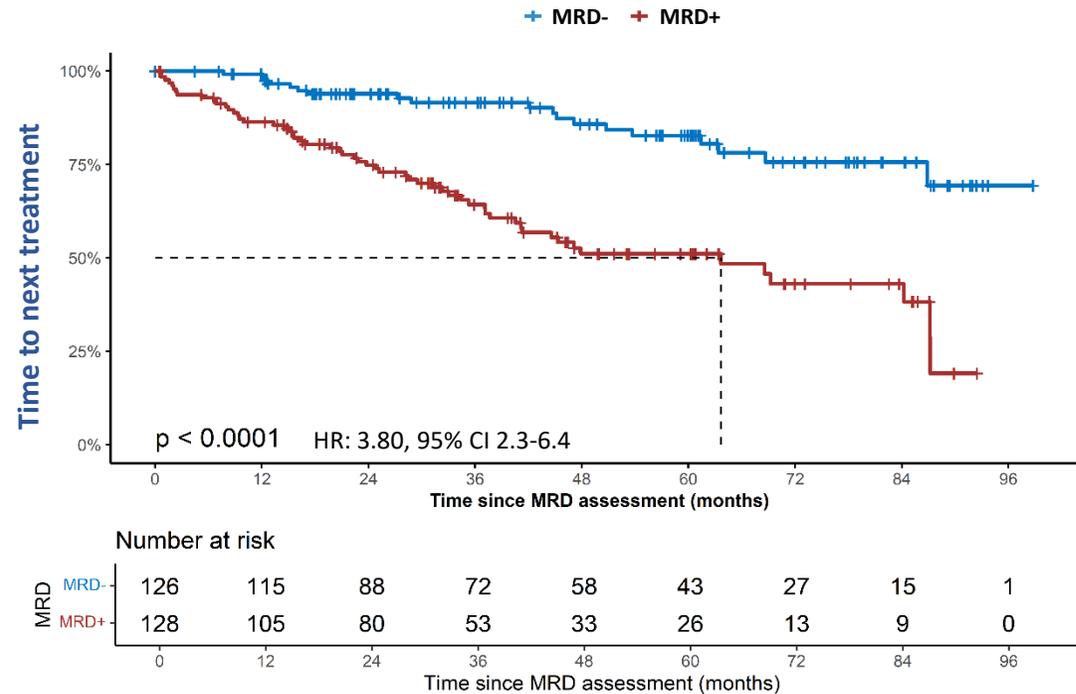
Cardiac disorders SAEs:

- Atrial fibrillation (n=1)
- Atrial thrombosis (n=1)
- Cardiac failure/Congestive cardiac failure (n=9)
- Coronary artery stenosis (n=1)
- Sudden cardiac death (n=3)
- Ventricular fibrillation (n=1)

20 patients (74.1%) with at least one SAE, 4 patients with at least one treatment-related SAE and in total 6 treatment-related SAEs overall

Detectable MRD redefines the prognosis of patients in hematological CR

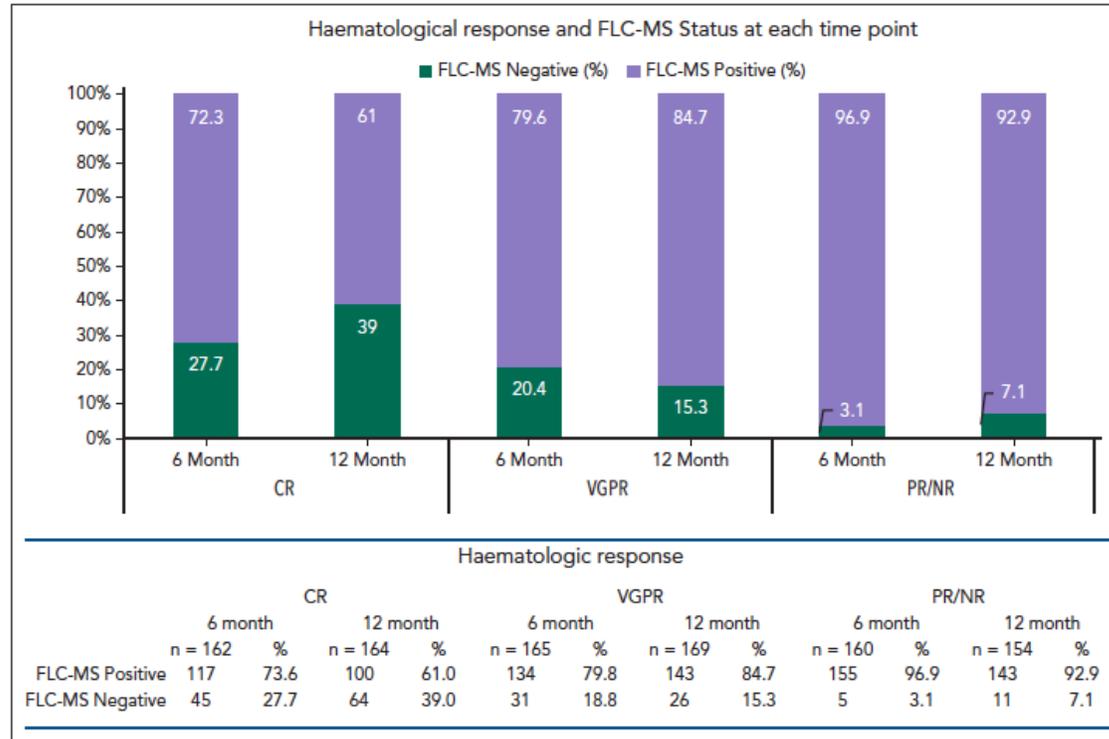
Patients in hematological CR (n = 254)



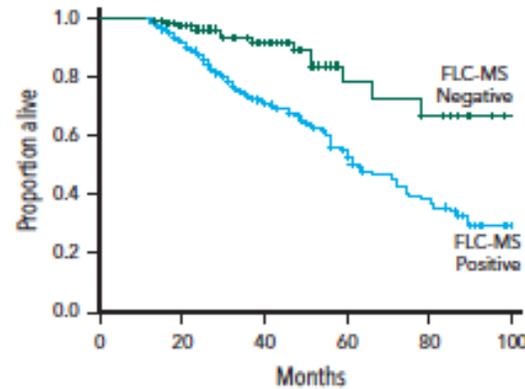
MRD status by serum FLC-MS

KEY POINTS

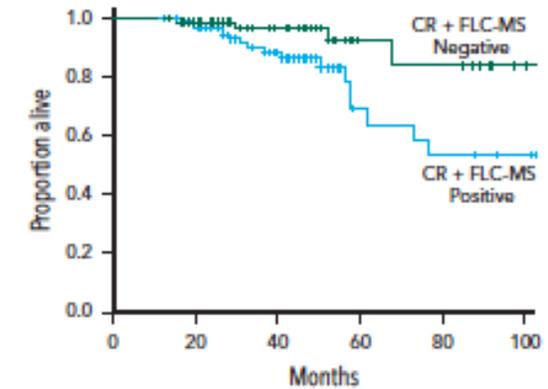
- **FLC-MS can detect persistent light chains in a significant proportion of patients in a conventional hematologic CR.**
- **Patients with no detectable FLC by FLC-MS have significantly better OS and organ response irrespective of conventional hematologic response.**



A

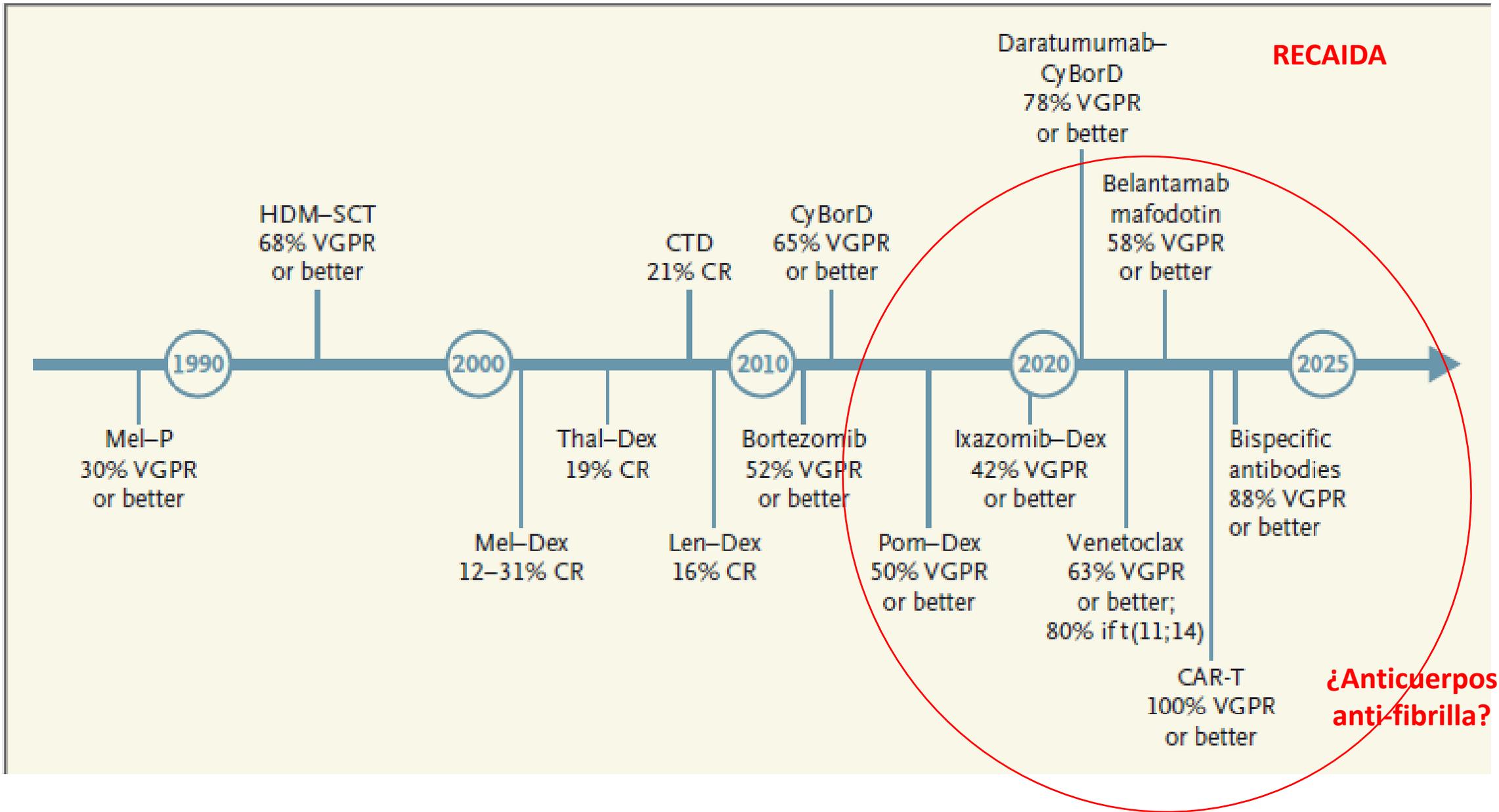


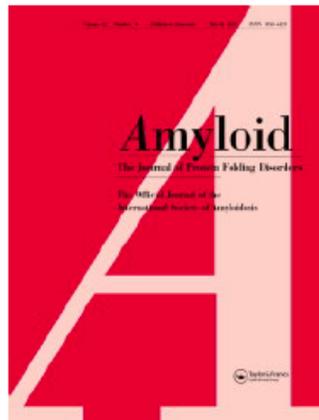
B



Objetivos de respuesta (opinión personal):

- Mínimo: hVGPR + RO (o estabilidad si afectación muy leve)
- Pacientes jóvenes: hRC + RO
- ¿EMR?
 - Info pronóstico en pacientes con hRC
 - Si no RO a pesar de hRC → ¿consolidación?
- AutoTPH:
 - Consolidación si respuesta subóptima (y candidato)
 - Recaída
- ¿Mantenimiento con daratumumab? ¿No si RC y EMR-?





Supportive care for systemic amyloidosis: International Society of Amyloidosis (ISA) expert panel guidelines

Eli Muchtar, Martha Grogan, Fabian aus dem Siepen, Marcia Waddington-Cruz, Yohei Misumi, Antonia S. Carroll, John O. Clarke, Vaishali Sanchorawala, Paolo Milani, Riccardo Caccialanza, Valentina Da Prat, Rajiv Pruthi, Luis F. Quintana & Frank Bridoux





World
Amyloidosis
Day

October 26th

