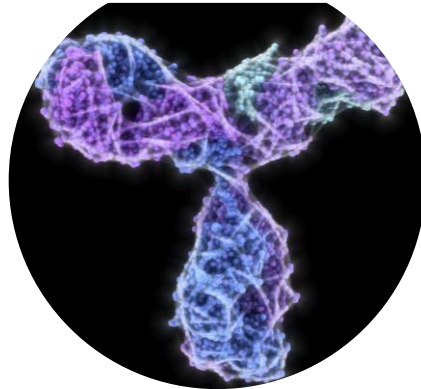




Actualización en el tratamiento de la Nefritis Lúpica

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Grupo Español de Enfermedades Glomerulares (GLOSEN) - RedInRen

Immunonephrology Working Group (IWG) - European Renal Association (ERA)

Conflictos de Interés

- GlaxoSmithKline España (GSK)
- Alexion Pharma Spain S.L.
- Otsuka Pharmaceutical S.A.

Puntos a presentar y discutir

1. El paciente con LES en Nefrología: ¿Qué le interesa al nefrólogo?
2. Objetivos del tratamiento y necesidades no resueltas
3. ¿Cómo estamos tratando a los pacientes con Nefritis lúpica en 2021?
4. Nuevas evidencias y perspectivas en el tratamiento:
 - *Terapias combinadas (antiguos y nuevos fármacos)*
 - *Terapias biológicas dirigidas (inmunomodulación)*
5. Conclusiones

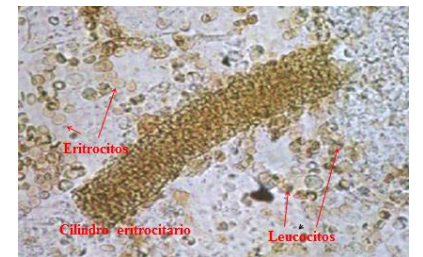
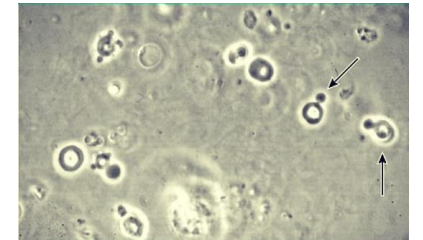
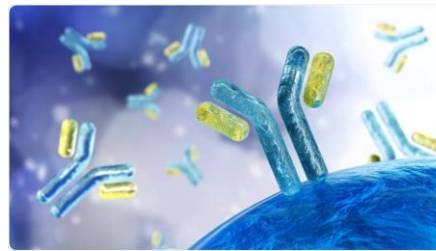
¿Qué le interesa al Nefrólogo en el LES?

Hasta 40%-60% de los pacientes con LES pueden desarrollar afectación renal a lo largo de su vida

❖ La afectación renal y vascular:

- Proteinuria (> 150 mg/24 h) $\sim 100\%$.
- Hematuria (> 3 -5 hematíes/campo en orina) $\sim 80\%$.
- Deterioro de función renal (CrS/eGFR) ~ 40 -80%.
- Desarrollo de Hipertensión arterial ~ 15 -50% (con o sin MAT).

❖ La actividad inmunológica y sistémica.



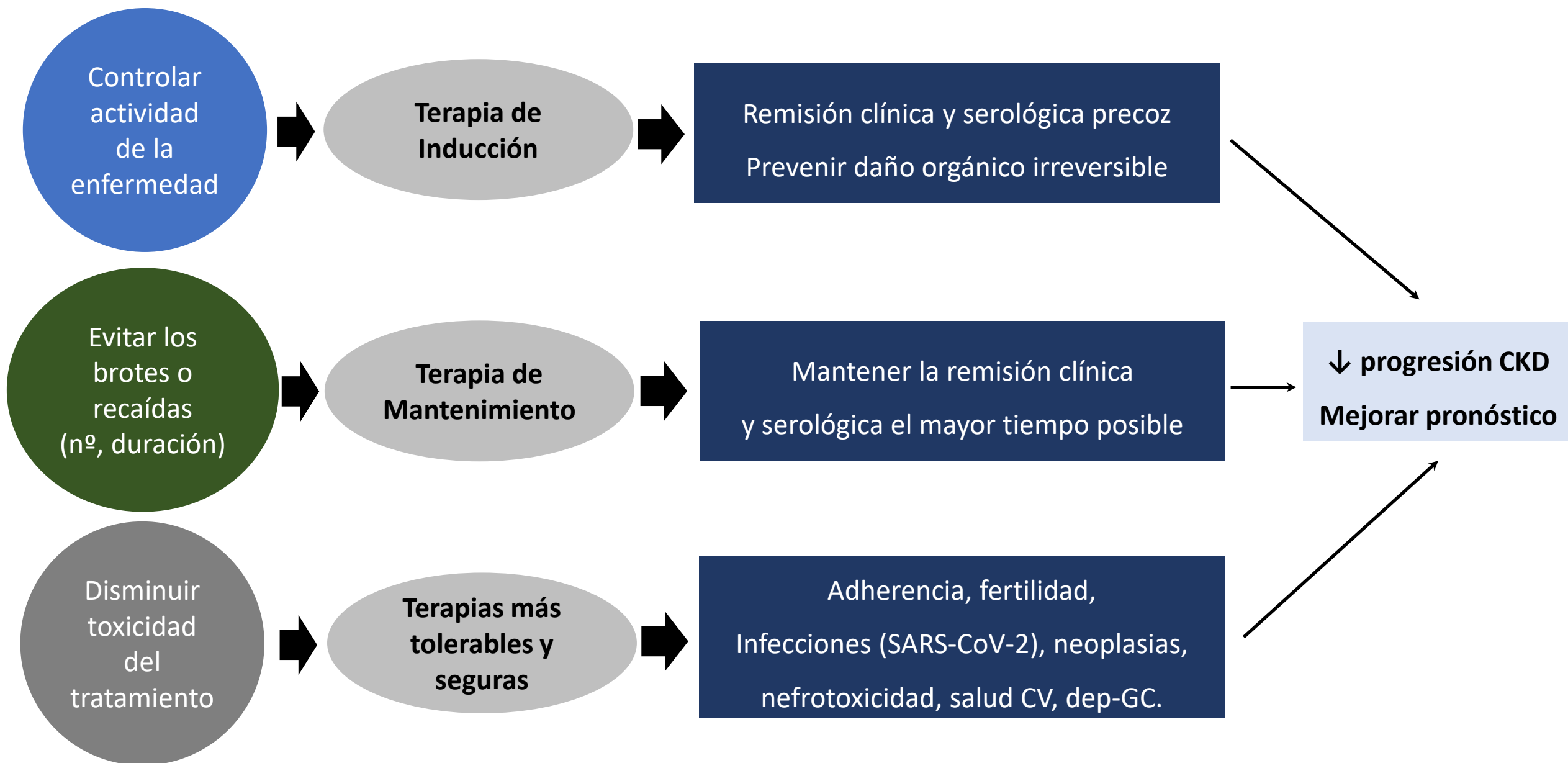
¿Qué le podemos ofrecer en el 2021 a nuestros pacientes?



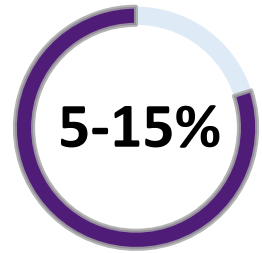
- Mujer 33 años, caucásica, IMC 30, DM-2 (HbA1c 6%), DL y HTA controladas.
- Cuadro debut LES: renal, cutáneo/articular, inmunológico.
- Afectación renal:
 - *Edemas en tercio inferior de ambos MMII.*
 - *Proteinuria subnefrótica (3.2 g/24h), UACR 1.1 g/g.*
 - *Microhematuria (30 H/c), cilindros eritrocitarios, leucocitos.*
 - *FRA AKIN 1 (Cr 1.3, eGFR 60.6), 3 meses antes Cr 0.85, eGFR 96.7.*
- Actividad inmunológica: anti-DNAds ++, C3 y C4 bajos, anti-Sm +.
- Indicación de biopsia renal: valorar pronóstico y guiar tratamiento.

Informe de la Biopsia renal: NL clase IV-V, IA 7/24, IC 1/12, IF: IgG 3+, IgA 2+, IgM 2+, C1q 3+, sin datos de nefropatía diabética ni de afectación vascular relevante

¿Cuáles son los grandes objetivos de nuestra intervención?



Necesidades no resueltas en el tratamiento de Nefritis Lúpica



➡ **Riesgo de muerte
(26X)**



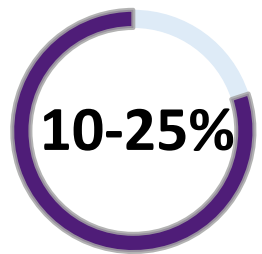
➡ **Riesgo de ESKD
a 10-15 años
(~73% < 50a)**



➡ **Remisión completa
post-tratamiento**



➡ **Recaídas o brotes
post-remisión**



➡ **Enfermedad refractaria o
resistente**

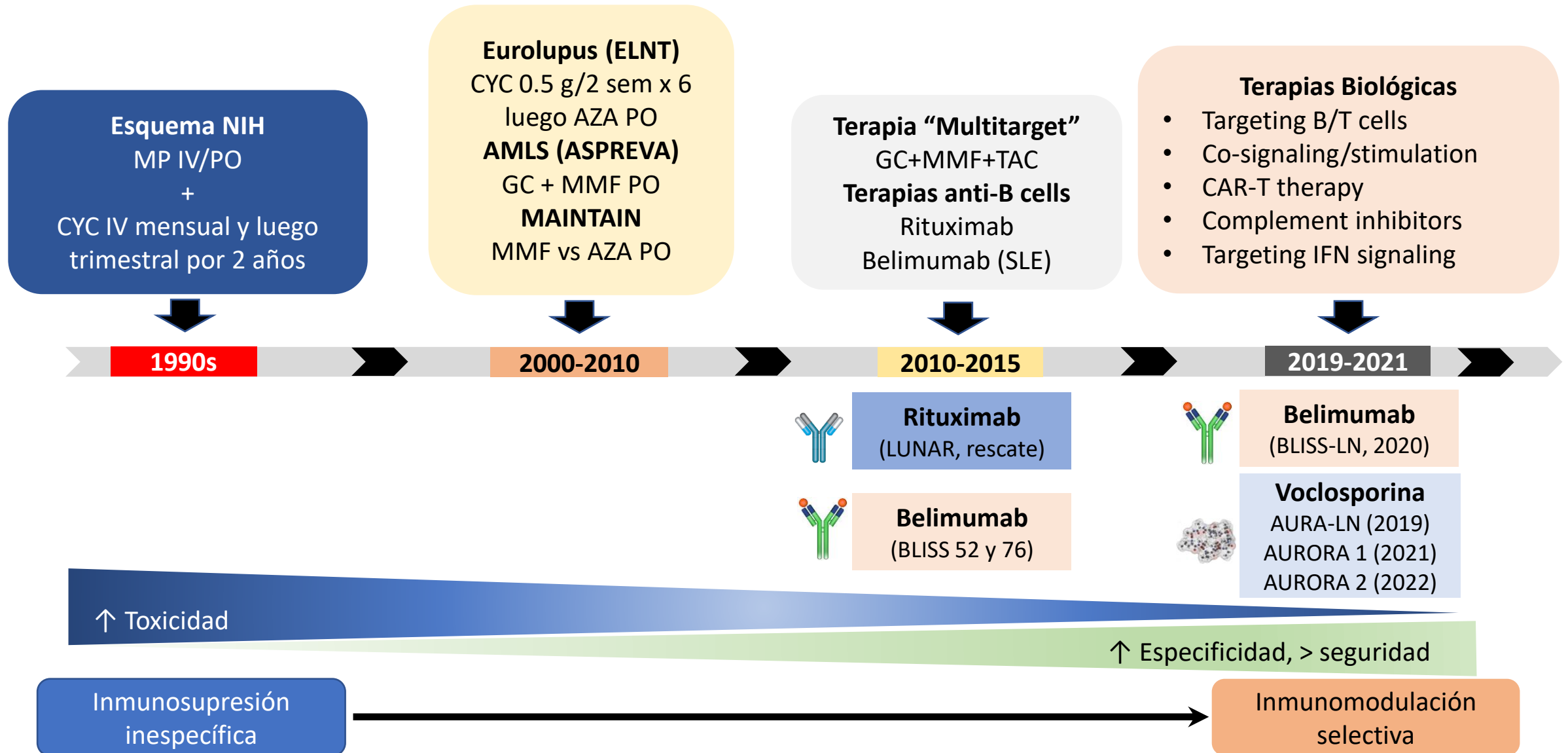


➡ **¿Duración del tratamiento?**

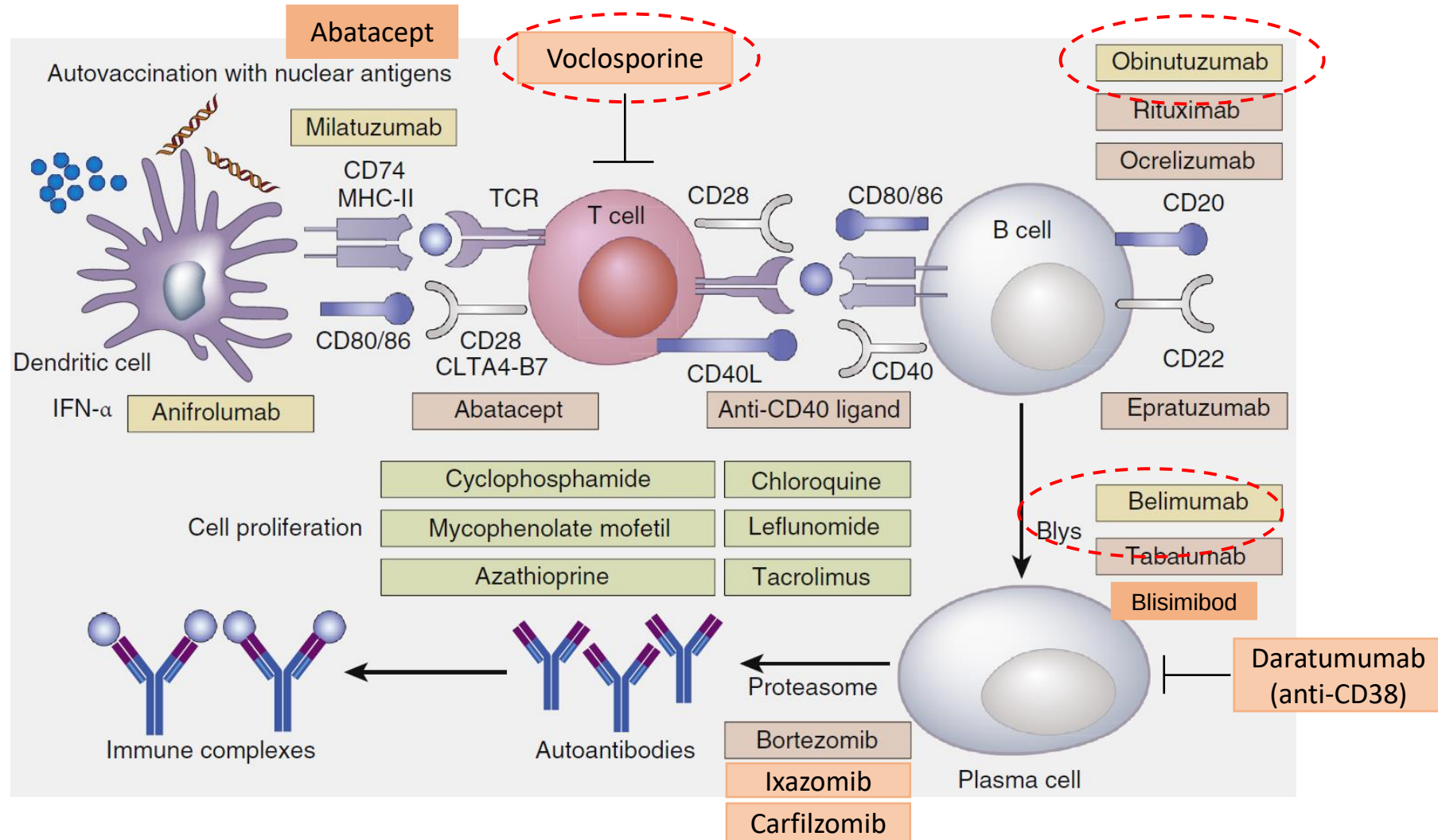


**Costes (2006-2014)
43000-107000 USD/año**

Cambios en el enfoque terapéutico de la NL en los último 30 años



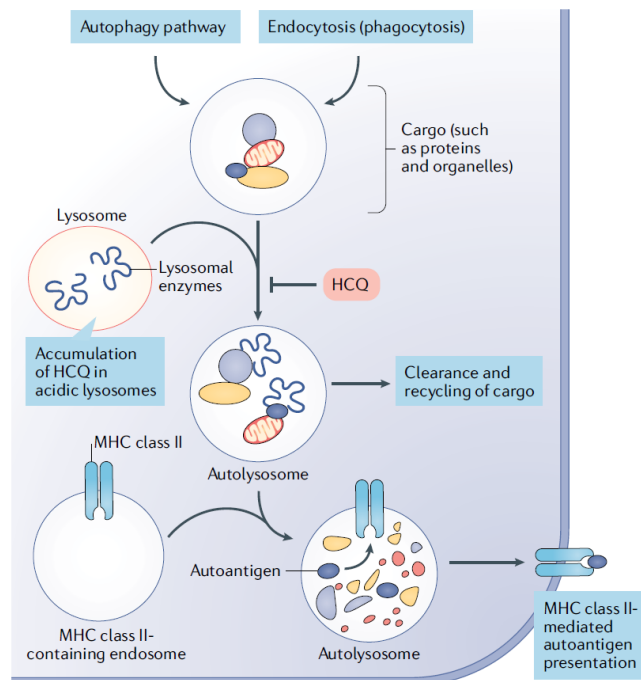
Terapia dirigida a la patogénesis en Nefritis Lúpica (“targeted therapy”)



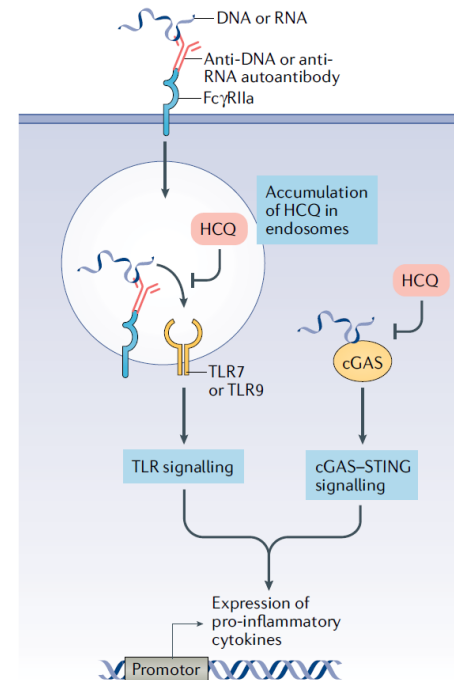
KDIGO 2021 GCP for the Management of Glomerular Diseases

Recommendation 10.2.1.1: We recommend that patients with SLE, including those with lupus nephritis (LN), be treated with hydroxychloroquine or an equivalent antimalarial unless contra-indicated (1C).

a Autoantigen presentation

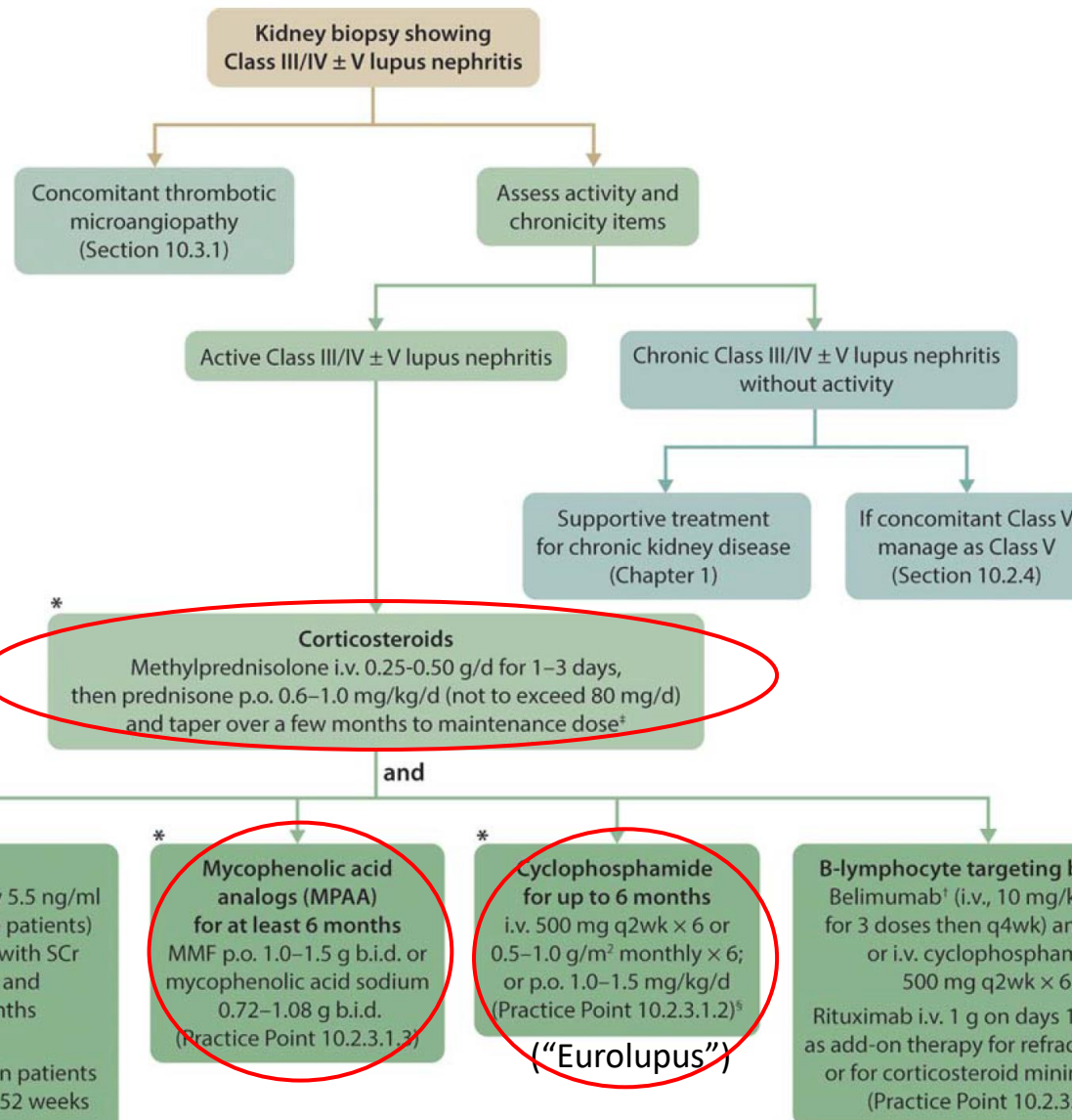


b TLR signalling



- Acumulación en liso/autofagosomas y cambio pH local.
- Inhibe expresión de MHC class II.
- Inhibe presentación de Antígenos.
- Inhibe actividad inmune (↓ CD154 LT).
- Inhibe citocinas inflamatorias (IL-1, IFN α , TNF).
- Interfiere la señalización TLR7/TLR9.
- Evidencia clínica y epidemiológica de disminuir riesgo de brote renal y de progression de ERC.

Induction Therapy for Active LN



Practice Point 10.2.3.1.6: Belimumab can be added to standard therapy in the treatment of active LN. Rituximab may be considered for patients with persistent disease activity or repeated flares.



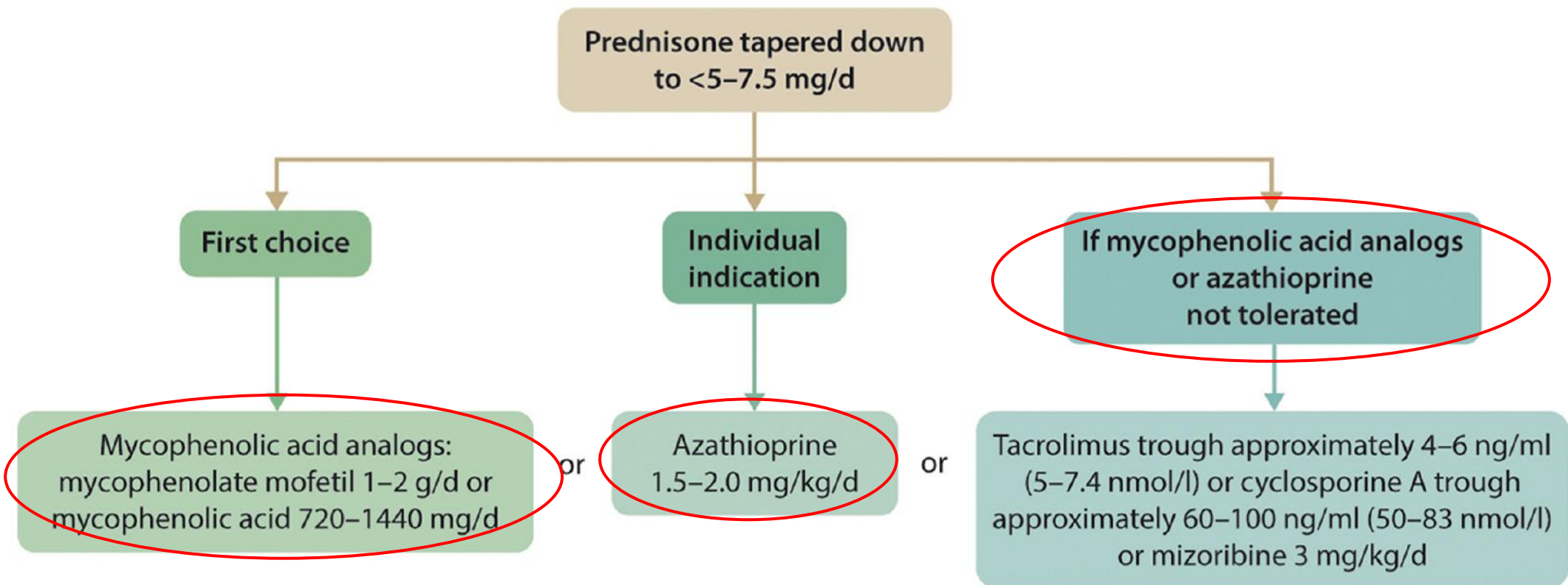
Practice Point 10.2.3.1.5: In patients with baseline eGFR ≥ 45 mL/min/1.73 m², Voclosporin can be added to MPAA and GC as initial therapy for 1-y.



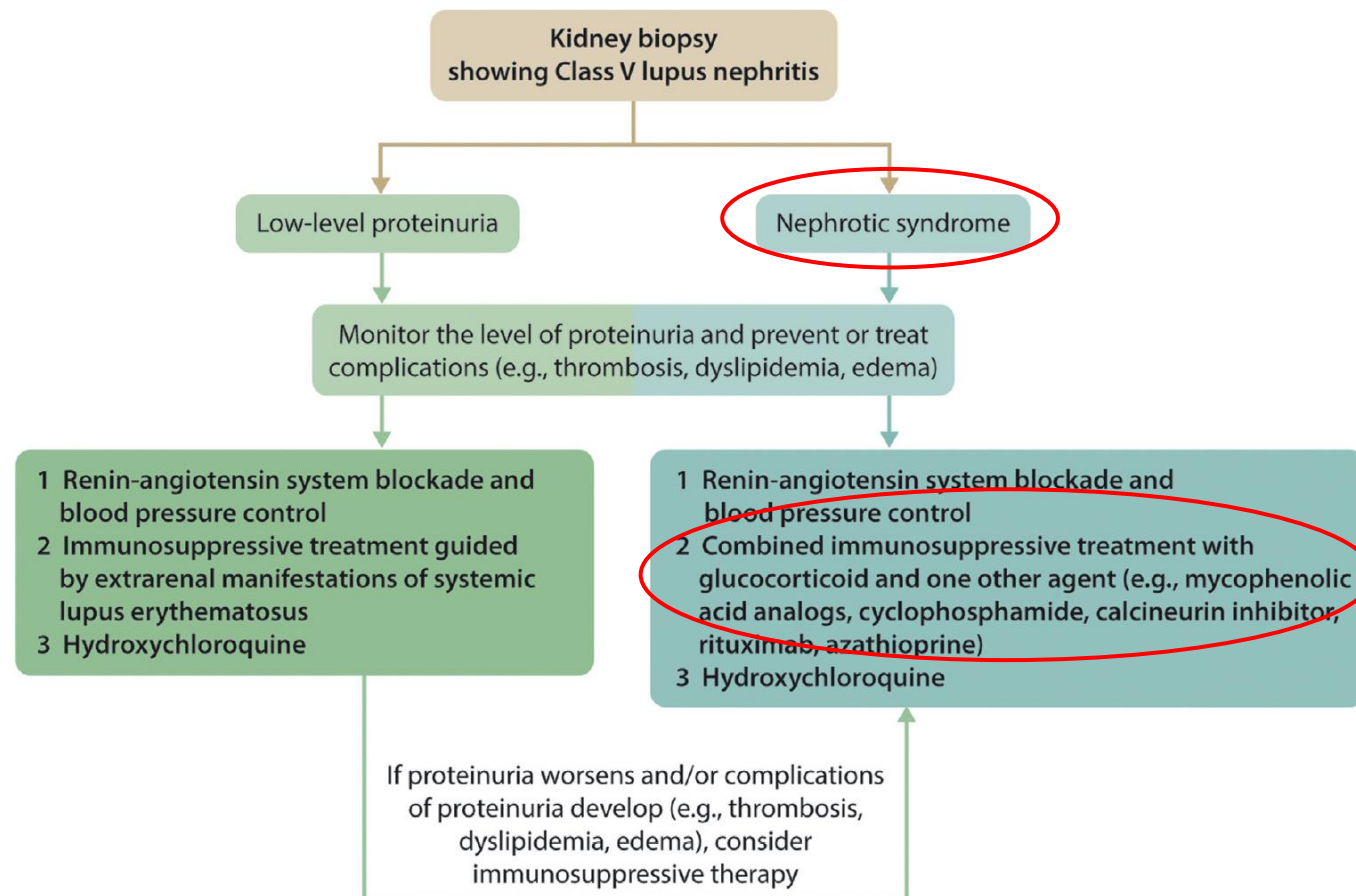
KDIGO 2021 GCP for the Management of Glomerular Diseases

Maintenance Therapy for Class III, IV LN

Recommendation 10.2.3.2.1: We recommend that after completion of initial therapy, patients should be placed on MPAA for maintenance (1B).



Management of patients with pure Class V LN



Quick tapering of corticoids dose

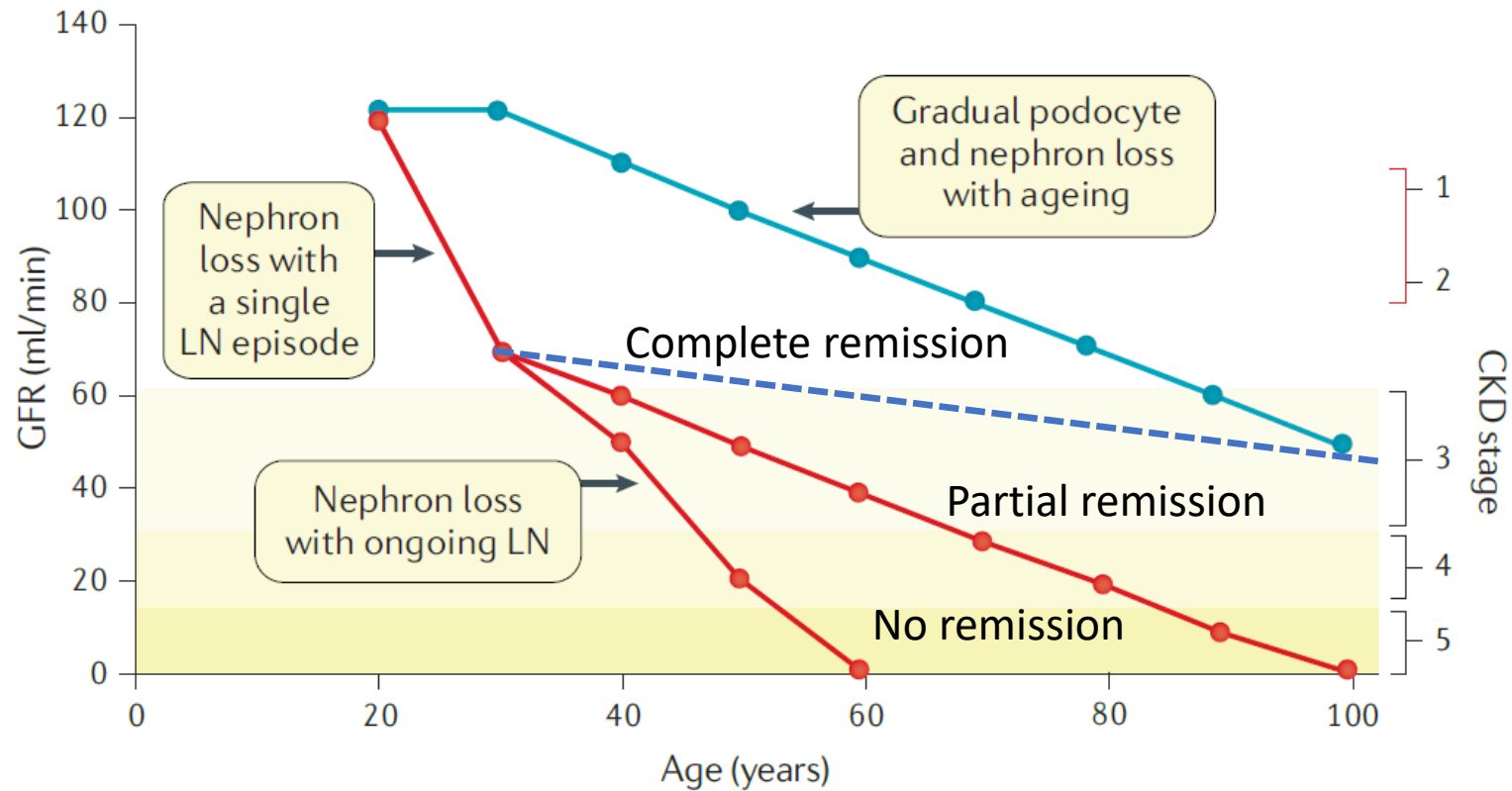
	Standard-dose scheme	Moderate-dose scheme	Reduced-dose scheme
Methylprednisolone intravenous pulses	Nil or 0.25–0.5 g/day up to 3 days as initial treatment	0.25–0.5 g/day up to 3 days often included as initial treatment	0.25–0.5 g/day up to 3 days usually included as initial treatment
Oral prednisone equivalent (/day)			
Week 0–2	0.8–1.0 mg/kg (max 80 mg)	0.6–0.7 mg/kg (max 50 mg)	0.5–0.6 mg/kg (max 40 mg)
Week 3–4	0.6–0.7 mg/kg	0.5–0.6 mg/kg	0.3–0.4 mg/kg
Week 5–6	30 mg	20 mg	15 mg
Week 7–8	25 mg	15 mg	10 mg
Week 9–10	20 mg	12.5 mg	7.5 mg
Week 11–12	15 mg	10 mg	5 mg
Week 13–14	12.5 mg	7.5 mg	2.5 mg
Week 15–16	10 mg	7.5 mg	2.5 mg
Week 17–18	7.5 mg	5 mg	2.5 mg
Week 19–20	7.5 mg	5 mg	2.5 mg
Week 21–24	5 mg	<5 mg	2.5 mg
Week >25	<5 mg	<5 mg	<2.5 mg

KDIGO 2021 GCP for the Management of Glomerular Diseases

Definitions of clinical responses used in the treatment of LN

Criteria	Definition
Complete response*	• Reduction in proteinuria <0.5 g/g (50 mg/mmol) measured as the PCR from a 24-h urine collection • Stabilization or improvement in kidney function ($\pm 10\%$–15% of baseline) • Within 6–12 mo of starting therapy, but could take more than 12 mo
Partial response	• Reduction in proteinuria by at least 50% and to <3 g/g (300 mg/mmol) measured as the PCR from a 24-h urine collection • Stabilization or improvement in kidney function ($\pm 10\%$–15% of baseline) • Within 6–12 mo of starting therapy
No kidney response	• Failure to achieve a partial or complete response within 6–12 mo of starting therapy

Risk of ESKD in patientes with Lupus Nephritis throughout life



2019 EULAR/ERA-EDTA

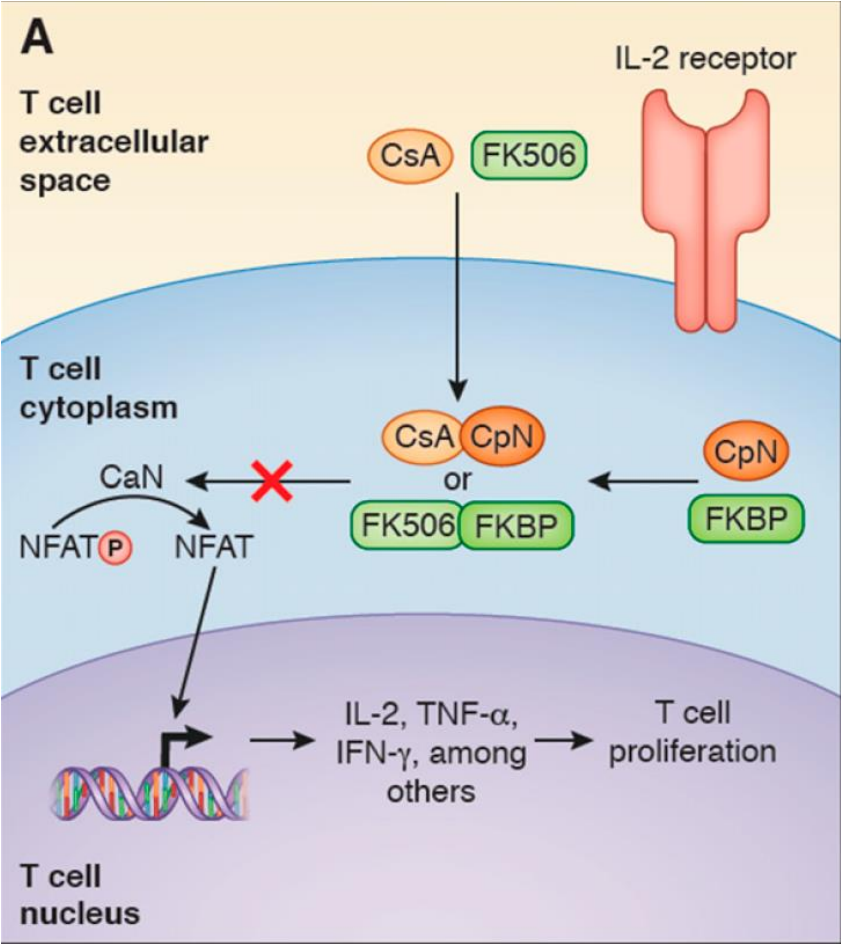
Goals of treatment

- At 3-mo: $\downarrow \geq 25\%$ proteinuria
- At 6-mo: $\downarrow \geq 50\%$ proteinuria
- At 12-mo: $<0.5-0.7$ g/24h
(Complete clinical remission)
- In Nephrotic pts: 18-24-mo

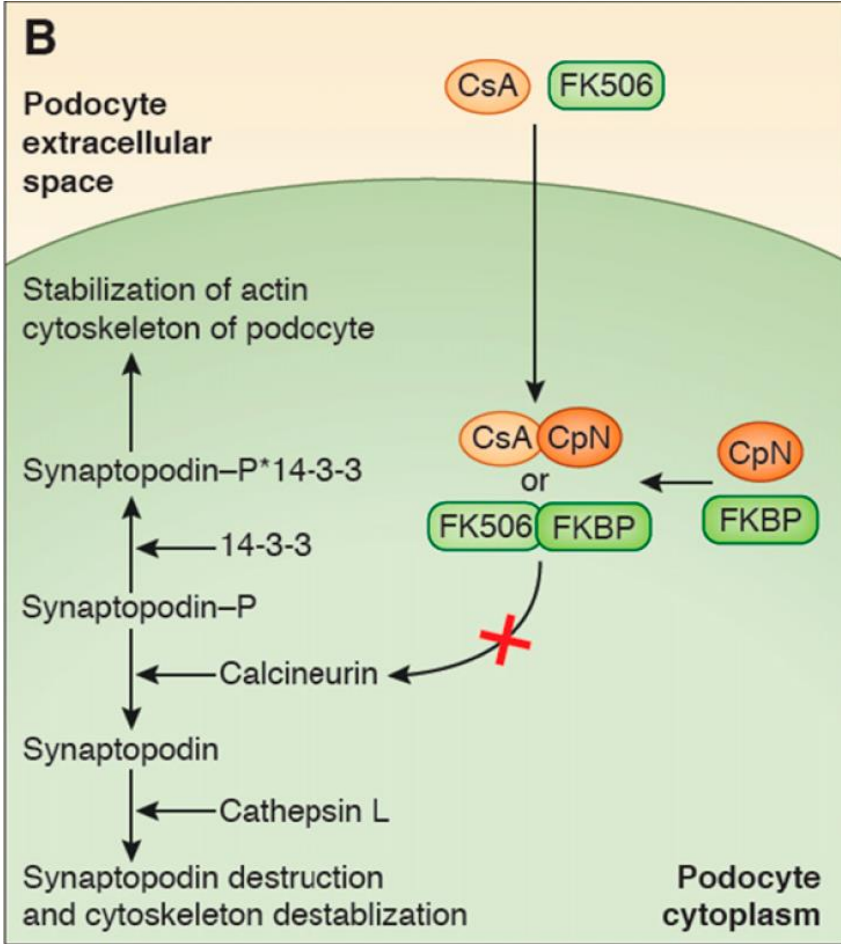
The Evolving Role of Calcineurin Inhibitors in Treating Lupus Nephritis

Yonatan Peleg, Andrew S. Bomback, and Jai Radhakrishnan

Immunosuppressive effect



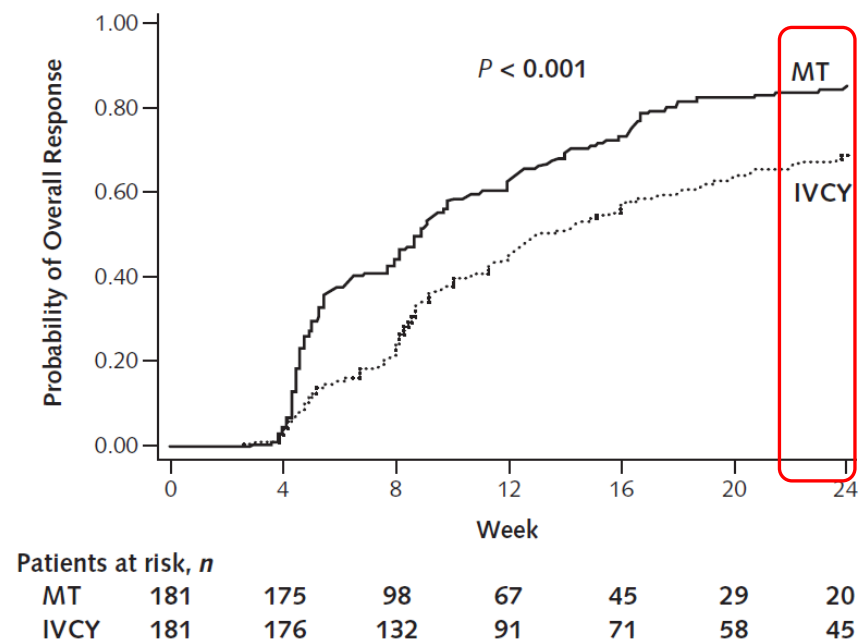
Effect on podocyte cytoarchitecture



Multitarget Therapy for Induction Treatment of Lupus Nephritis

A Randomized Trial

Zhihong Liu, MD; Haitao Zhang, MD; Zhangsuo Liu, MD; Changying Xing, PhD; Ping Fu, MD; Zhaohui Ni, MD; Jianghua Chen, MD; Hongli Lin, MD; Fuyou Liu, MD; Yongcheng He, MD; Yani He, MD; Lining Miao, MD; Nan Chen, MD; Ying Li, MD; Yong Gu, MD; Wei Shi, MD; Weixin Hu, MD; Zhengzhao Liu, MD; Hao Bao, MD; Caihong Zeng, PhD; and Minlin Zhou, MD

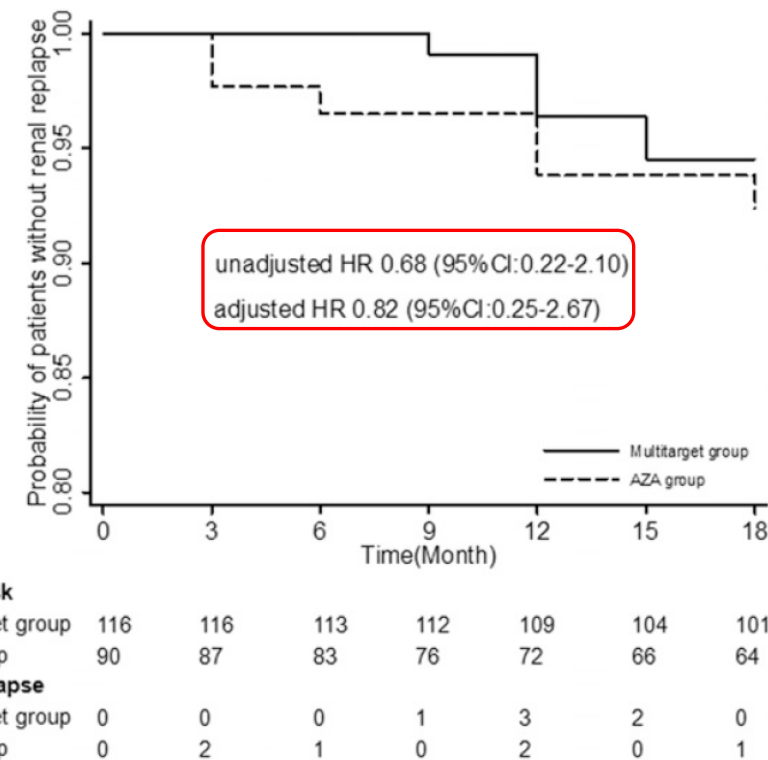


MT vs. CYC

CRR: 45.9% vs. 25.6%

SAEs: 50% vs. 52%

Multitarget Therapy for Maintenance Treatment of Lupus Nephritis



MT = multitarget; IVCY = intravenous cyclophosphamide.

Annals of Internal Medicine • Vol. 162 No. 1 • 6 January 2015

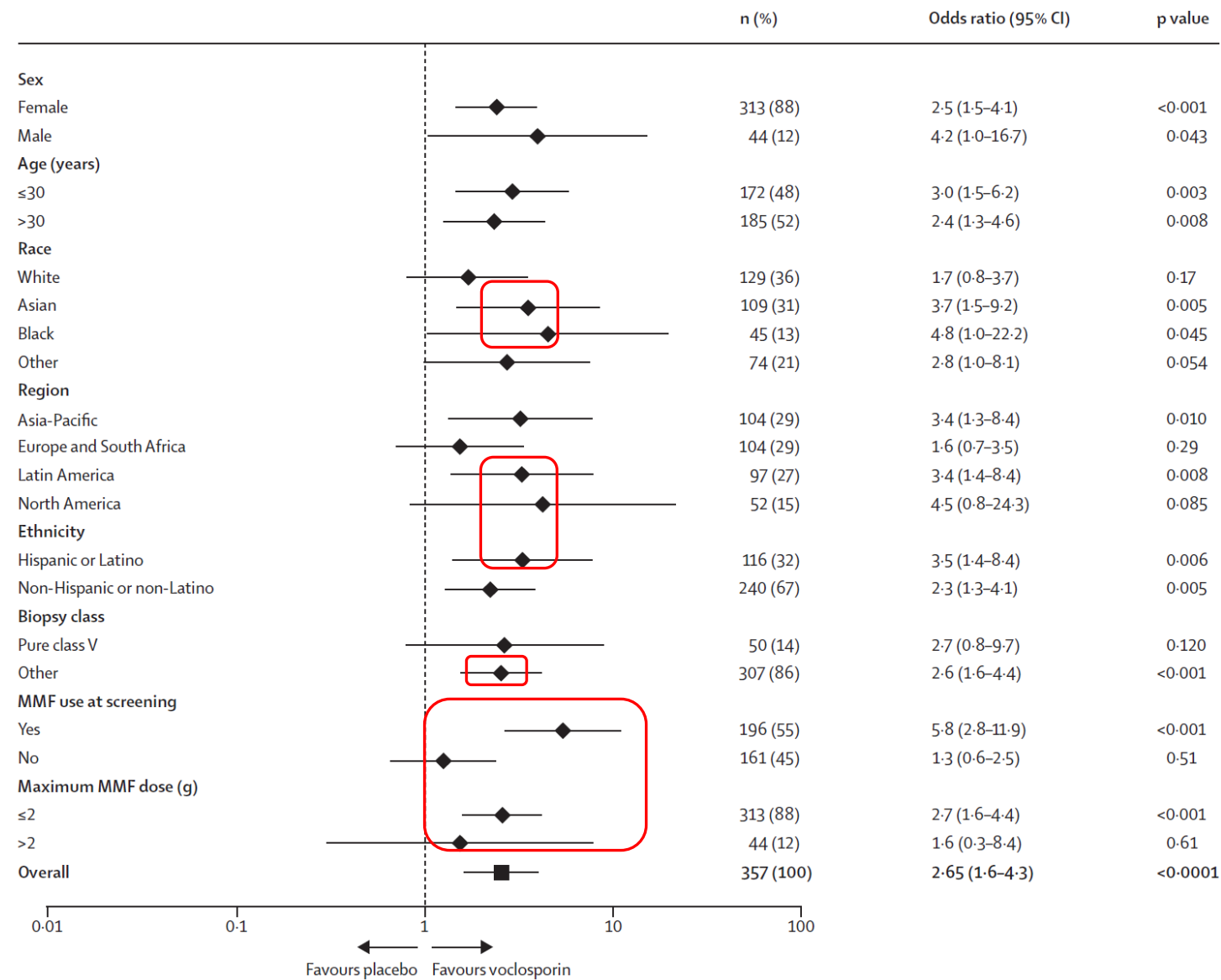
J Am Soc Nephrol 28: ●●●—●●●, 2017. doi: <https://doi.org/10.1681/ASN.2017030263>

Practice Point 10.2.3.1.4: Initial therapy with a triple immunosuppressive regimen that includes a CNI (tacrolimus or cyclosporine) with reduced-dose MPAA and glucocorticoids is reserved for patients who cannot tolerate standard-dose MPAA or are unfit for or will not use cyclophosphamide-based regimens.

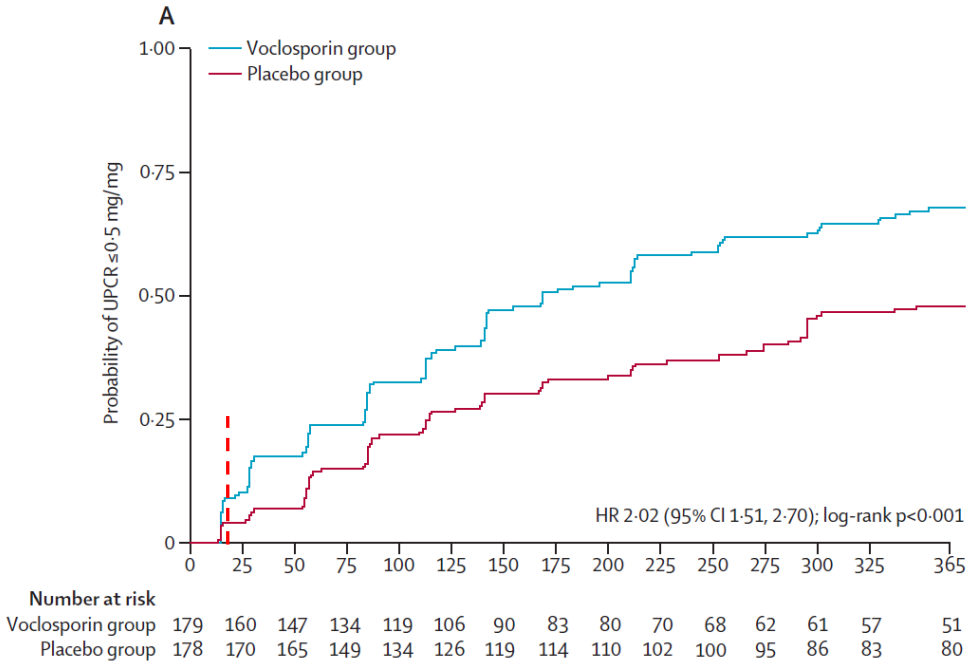
Studies with Voclosporin added on SoC in Lupus Nephritis: What is the Evidence?

Characteristic	AURA-LN (2019)			AURORA 1 (2021)		
Design	Phase 2			Phase 3		
N	265 (88 vs. 88 vs. 88)			367 (179 vs. 178)		
Sex, female	76 (85.4%) vs. 81 (92%) vs. 73 (83%)			161 (90%) vs. 152 (85%)		
Age (SD or IQR)	33.1 (10) vs. 31.4 (11.8) vs. 30.6 (9.6)			31 (18-62) vs. 32 (18-72)		
Patients with LN	Class III, IV $\pm$ V on SoC (GC + MMF),			Class III, IV $\pm$ V on SOC (GC + MMF)		
Comparisons	VCS (23.7 mg b.i.d.)	Placebo		VCS (23.7 mg b.i.d.)	Placebo	
UPCR (SD) (mg/mg)	5.16 (4.2)	4.43 (3.6)		4.14 (2.71)	3.87 (2.36)	
GFR (mL/min/1.73m ²)	95.3 (28.4)	100.2 (27.1)		92.1 (30.6)	90.4 (29)	
SLEDAI (SD)				13.2 (6.5)	11.8 (6.1)	
Efficacy	Response	P-value	OR (95%CI)	Response	P-value	OR (95%CI)
Primary endpoint	CRR at 24-w 32.6% vs. 19.3 %	0.046	2.0 (1.0-4.1)	CRR at 52-w 73 (41%) vs. 40 (23%)	< 0.0001	2.7 (1.6-4.3)
Secondary endpoint	CRR at 48-w 49.4% vs. 23.9%	< 0.001	3.2 (1.7-6.1)	CRR at 24-w 58 (32%) vs. 35 (20%)	0.002	2.2 (1.3-3.7)
Any AE with death	10 (11.2%)	1 (1.1%)		1 (<1%)	5 (3%)	

Subgroup analysis of primary outcome of complete renal response at week 52 (intention-to-treat population)



Rovin BH, Onno Teng YK, Ginzler EM, et al. *Lancet* 2021.



	Voclosporin group (n=178)	Placebo group (n=178)
Adverse event summary		
Adverse event	162 (91%)	158 (89%)
Serious adverse event	37 (21%)	38 (21%)
Serious adverse event of infections and infestations	18 (10%)	20 (11%)
Treatment-related serious adverse event	8 (4%)	8 (4%)
Adverse event leading to study drug discontinuation	20 (11%)	26 (15%)
Death*	1 (<1%)	5 (3%)
Treatment-related adverse event leading to death	0	0

Mensajes claves del estudio AURORA 1 en pacientes con NL

1. El 2º ensayo más grande en NL con seguimiento y adherencia adecuadas.
2. Representación geográfica y étnica mejor balanceada que el BLISS-LN.
3. El endpoint primario fue más exigente: CR (UPCR $\leq$ 0.5 mg/mg).
4. RC al año 41% (mejor que 30% del BLISS-LN) y caída más precoz de UPCR.
5. Permitió un esquema con dosis bajas de GCs (2.5 mg: 16s ~ 82%, 52s ~ 75%)
6. Mayor efecto en formas proliferativas (III, IV) vs. Membranosa (clase V).
7. Las biopsias con > 6 meses pre-screening posible pronóstico diferente.
8. Más RC con uso reciente de MMF y dosis $\leq$ 2 g/d → ¿casos menos graves?.
9. Perfil de seguridad y cardio-metabólico aceptable, no evidencia de nefrotoxicidad.
10. El paso siguiente: seguimiento a largo plazo (AURORA 2) y análisis C-E y C-U.

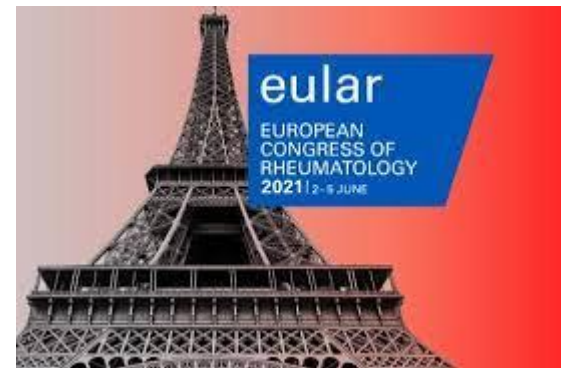
VOCLOSPORIN FOR LUPUS NEPHRITIS: INTERIM ANALYSIS OF THE AURORA 2 EXTENSION STUDY

A. Saxena¹, P. Mina-Osorio², C. Mela³, V. Berardi². ¹NYU Langone Health, Rheumatology, New York, United States of America; ²Aurinia Pharmaceuticals, Inc., Medical Affairs, Victoria, Canada; ³Aurinia Pharmaceuticals, Inc., Clinical Science, Victoria, Canada

Table 1. UPCR

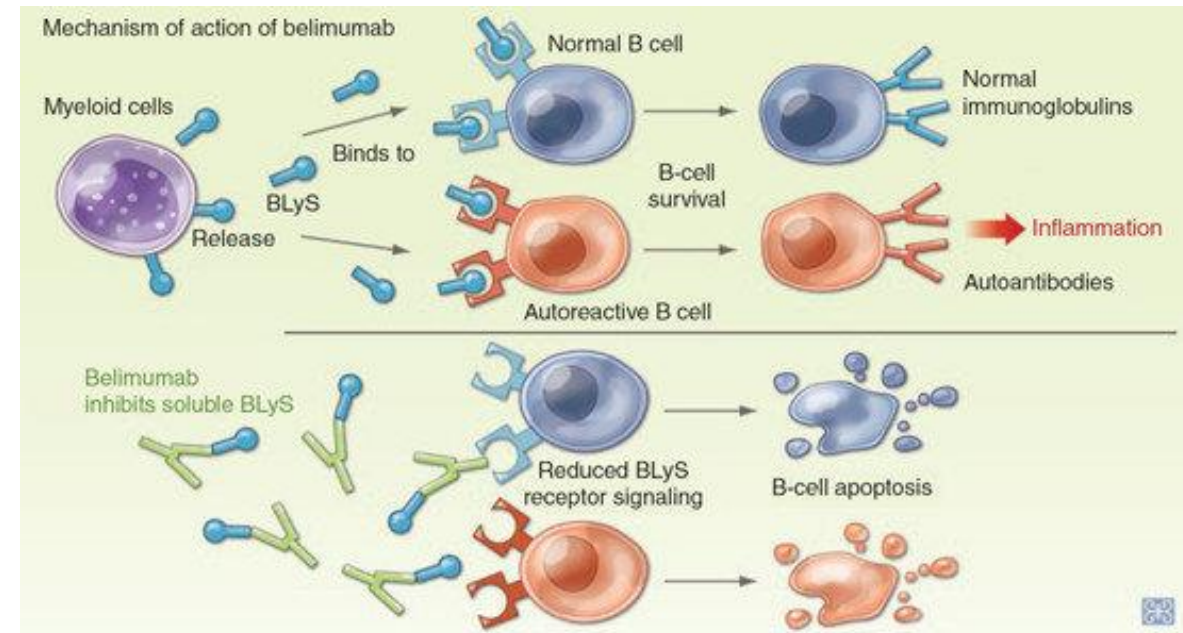
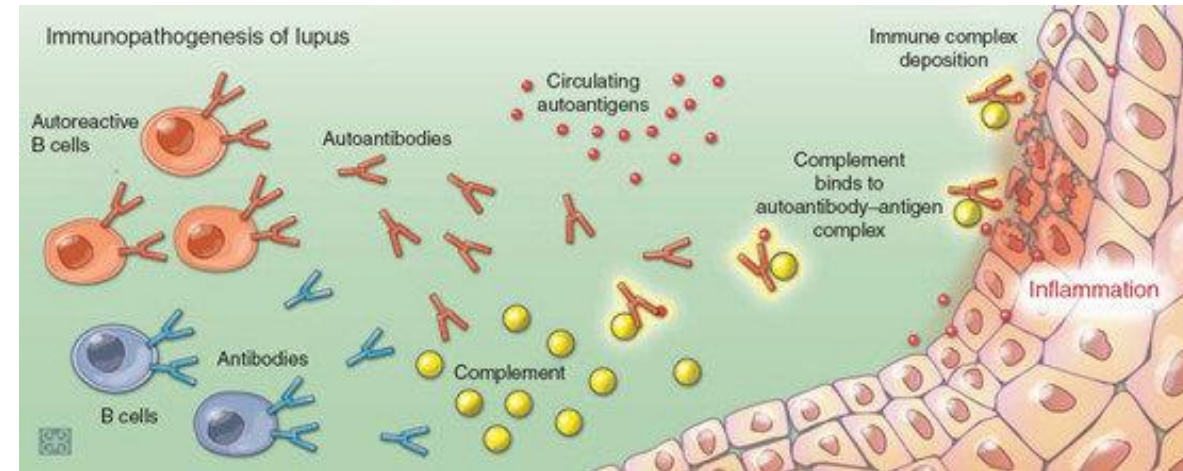
	Control (n=100)		Voclosporin (n=116)		Treatment Comparison of Voclosporin to Control	
	n	UPCR (mg/mg)	n	UPCR (mg/mg)	UPCR (mg/mg)	p-value
Pre-treatment baseline, mean	100	3.87	116	3.94	NC	NC
Change from pre-treatment baseline, LS mean						
Year 1	100	-2.4	116	-3.0	-0.6	0.0080
Year 2	51	-2.1	73	-3.1	-1.0	0.0004

Conclusion: Patients in the voclosporin treatment arm maintained meaningful reductions in proteinuria with no change in mean eGFR at two years of treatment. Additional AURORA 2 efficacy and safety data will be provided at the conclusion of the study.



Terapia mejorada anti-células B: Belimumab

- mAb humano de IgG1 λ .
- Belimumab se une a sBLyS (BAAF).
- Inhibe las señales que produce BLyS en sus receptores de B-cells.
- ↓ supervivencia cél B (autorreactivas).
- ↓ diferenciación cél B → plasmocitos.
- Evidencia previa: BLISS-52 y BLISS-76.



Dennis GJ. Belimumab: a BlyS specific inhibitor for the treatment of systemic lupus erythematosus.
Clin Pharmacol Ther 2012.

ORIGINAL ARTICLE

Two-Year, Randomized, Controlled Trial
of Belimumab in Lupus Nephritis

N ENGL J MED 383;12 NEJM.ORG SEPTEMBER 17, 2020

PERR

- eGFR ≥ 60 mL/min/1.73m² o no $\downarrow$ pre-brote $>20\%$
- uPCR ≤ 0.7 g/g
- No tratamiento de rescate

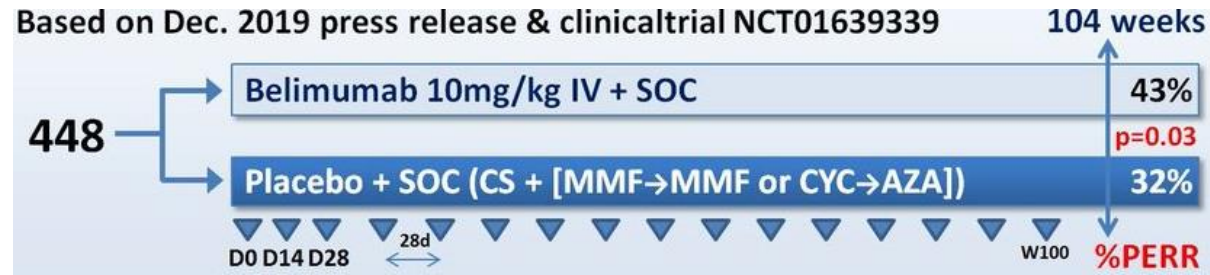
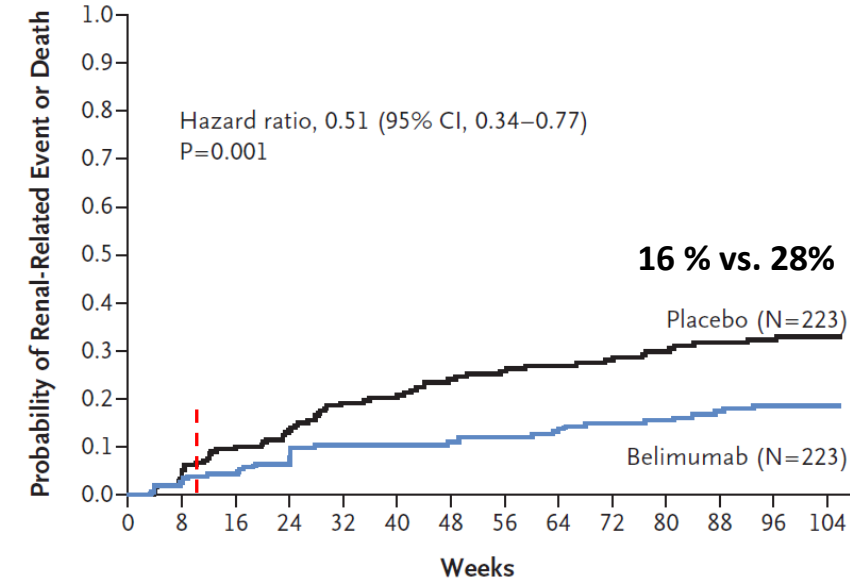
At 24-w
GC $10 \leq$ mg/d

Table 2. Primary and Major Secondary Efficacy End Points in the Modified Intention-to-Treat Population.

End Point	Belimumab (N=223) number (percent)	Placebo (N=223) number (percent)	Difference percentage points	Odds Ratio or Hazard Ratio (95% CI)*	P Value
Primary end point: primary efficacy renal response at wk 104†	96 (43)	72 (32)	11	1.6 (1.0 to 2.3)	0.03
Major secondary end points					
Complete renal response at wk 104‡	67 (30)	44 (20)	10	1.7 (1.1 to 2.7)	0.02
Primary efficacy renal response at wk 52§	104 (47)	79 (35)	11	1.6 (1.1 to 2.4)	0.02
Time to renal-related event or death¶	NA	NA	NA	0.5 (0.3 to 0.8)	0.001
Ordinal renal response without urinary sediment at wk 104					
Complete renal response	67 (30)	44 (20)	10	NA	0.01
Partial renal response**	39 (18)	38 (17)	<1	NA	
No response	117 (52)	141 (63)	-11	NA	

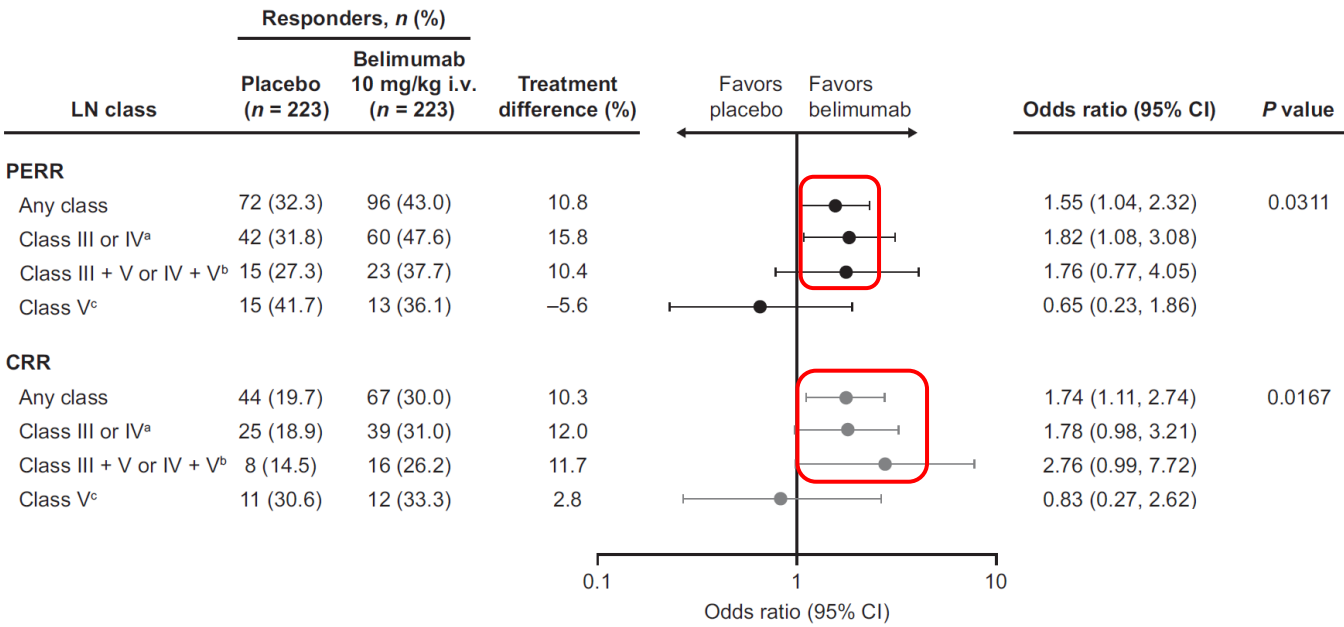
Richard A. Furie MD
Rheumatologist
NY, USBrad H. Rovin MD
Nephrologist
Ohio, US

No. at Risk

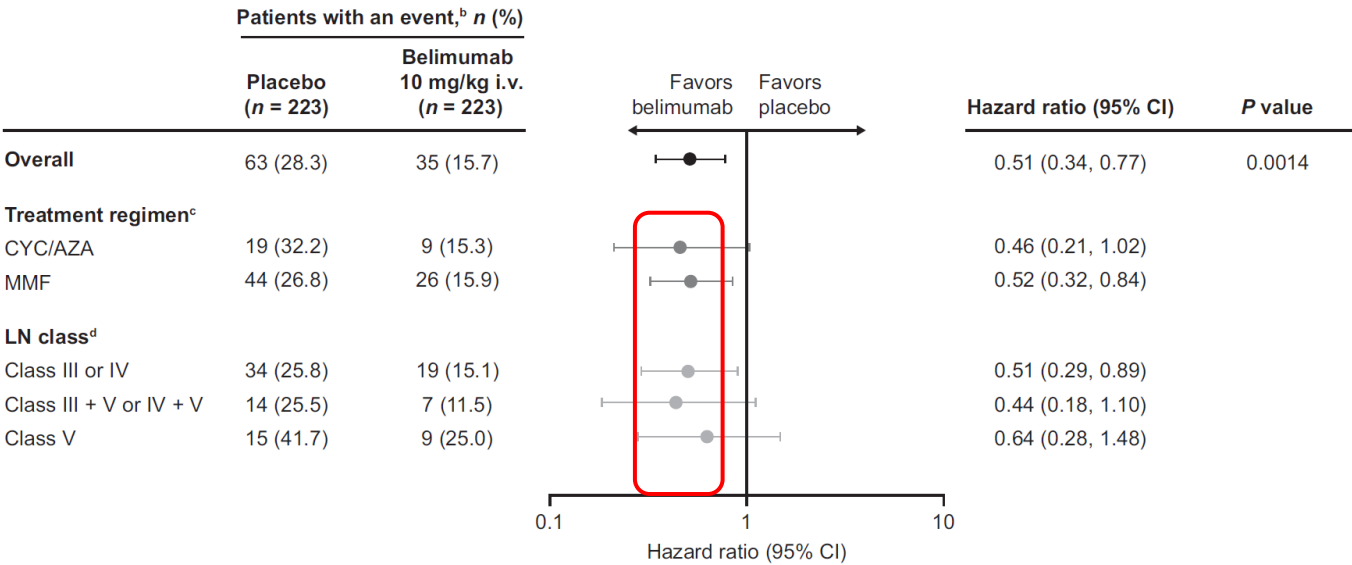
Placebo	203	185	175	154	147	137	129	126	120	116	112	110	78
Belimumab	209	192	186	167	162	159	157	151	142	139	133	130	102

BLISS-LN: Secondary analysis on kidney outcomes

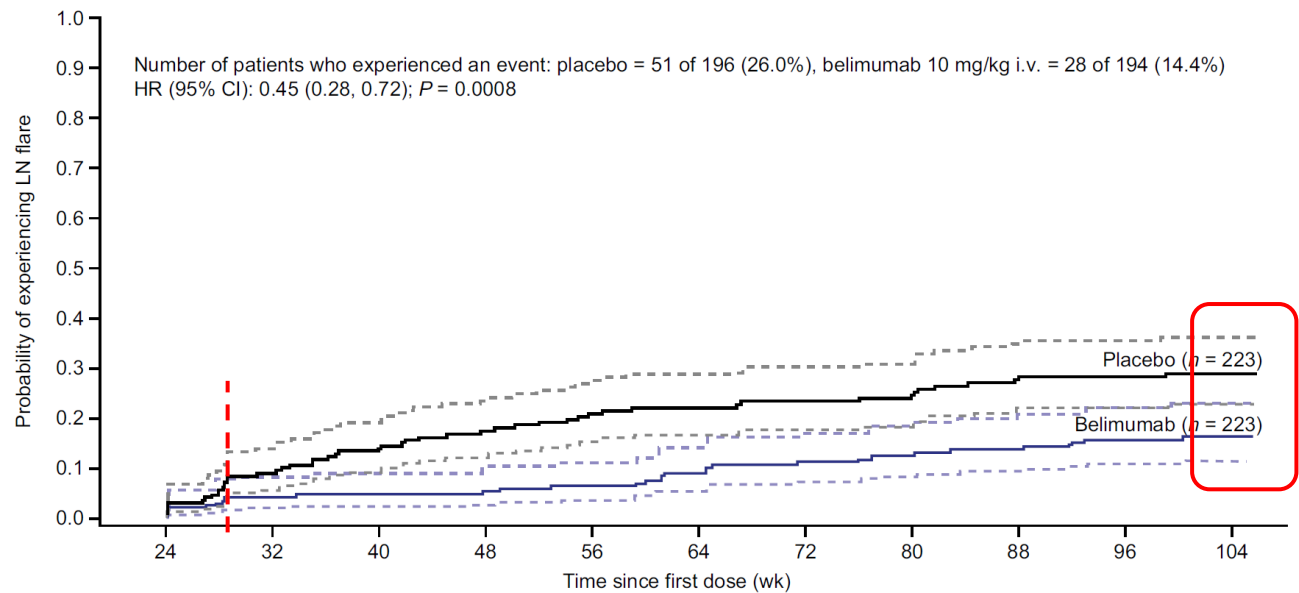
PEER and CCR at 104 weeks (mITT analysis)



Time to kidney-related event or death (mITT analysis)



Lupus Nephritis flares with Belimumab



Number of patients at risk												Patients with an LN flare, ^b n (%)			Hazard ratio (95% CI)	P value
Placebo	196	167	154	142	133	131	127	124	117	115	68	Placebo (n = 223)	Belimumab 10 mg/kg i.v. (n = 223)			
Belimumab	194	175	167	164	161	153	144	139	134	130	93					
Overall^c												51 (26.0)	28 (14.4)		0.45 (0.28, 0.72)	0.0008
Treatment regimen^d																
CYC/AZA												18 (35.3)	7 (14.3)		0.30 (0.12, 0.75)	
MMF												33 (22.8)	21 (14.5)		0.55 (0.32, 0.96)	
LN class^e																
Class III or IV												27 (23.3)	16 (14.3)		0.51 (0.27, 0.95)	
Class III + V or IV + V												13 (27.1)	7 (13.5)		0.43 (0.17, 1.13)	
Class V												11 (34.4)	5 (16.7)		0.40 (0.14, 1.15)	

Rovin BH, Furie R, Onno Teng YK, et al. *Kidney Int* 2021.

Preservation of kidney function with Belimumab

eGFR slope from week 24 to week 104 (modified ITT analysis)

Variable	On treatment ^b		On study ^c	
	Placebo (n = 223)	Belimumab 10 mg/kg i.v. (n = 223)	Placebo (n = 223)	Belimumab 10 mg/kg i.v. (n = 223)
Patients with ≥ 1 eGFR value from week 24, n	198	196	198	196
Patients with eGFR value at week 104, n	128	140	163	173
eGFR (SE) at week 24 ^d	106.6 (2.49)	109.4 (2.36)	106.8 (2.55)	109.5 (2.39)
eGFR slope (SE), ml/min per 1.73 m ² per yr ^d	-3.18 (1.10)	-0.99 (0.77)	-5.72 (1.46)	-2.12 (0.97)
eGFR slope difference vs. placebo (SE) ^d		2.19 (1.34)		3.61 (1.76)
95% CI ^d		-0.45 to 4.84		0.15 to 7.06
P value ^d		0.1041		0.0407

Variable	Placebo (n = 223)	Belimumab 10 mg/kg i.v. (n = 223)
Sustained 30% decrease in eGFR		
n (%)	25 (11.2)	8 (3.6)
Observed difference vs. placebo (%)		-7.62
OR (95% CI)		0.29 (0.13-0.68)
P value		0.0042
Sustained 40% decrease in eGFR		
n (%)	15 (6.7)	4 (1.8)
Observed difference vs. placebo (%)		-4.93
Odds ratio (95% CI)		0.25 (0.08-0.78)
P value		0.0166

Comentarios “PRO” a los estudios con Belimumab en pacientes con NL

1. El estudio sobre NL con la N más grande y un seguimiento adecuado.
2. Belimumab como terapia añadida al SoC alcanzó los objetivos primarios (PERR) y secundarios (CR, PR) de mejor respuesta.
3. Este beneficio fue consistente en las clases histológicas III y IV y en los pacientes que recibieron MMF como terapia de inducción.
4. Redujo el riesgo de brote renal, especialmente en las clases III y IV (post-hoc).
5. Preservó mejor la función renal a los 2 años de seguimiento (post-hoc).
6. Permitted reducir precozmente dosis de esteroides.
7. Menos eventos renales negativos vs. placebo y relativamente seguro.

Comentarios “CON” a los estudios con Belimumab en pacientes con NL

1. Mayoría asiáticos, poca representación Lat-Am/negra (LES/NL más grave).
2. Sólo dos de cada 3 pacientes estaban con RASi.
3. Definición del “endpoint” primario diferente a los habituales (PERR).
4. PERR sólo fue 11% mejor que grupo control (43% vs. 32%).
5. Remisión completa 30% (10% mejor que control) y los no respondedores > 50%.
6. La respuesta parece ser menor si la terapia de inducción es con CYC.
7. La respuesta no fue clara en la clase V (n pequeña).
8. Pendiente análisis costo-efectividad.

¿Y qué nos dice la vida real?: el estudio BeRLiSS-LN (cohorte Italiana)

Achievement of complete renal response and primary efficacy renal response: N (%).

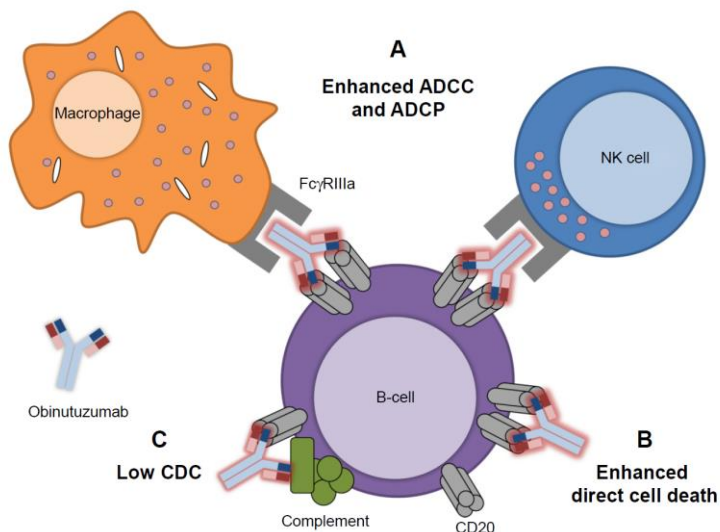
	6 months N = 91	12 months N = 81	24 months N = 59
Primary Efficacy Renal Response	44 (48.4)	50 (61.7)	39 (66.1)
Complete Renal Response	22 (24.2)	28 (34.5)	22 (37.3)
Proteinuria <0.5 g/24 h	43 (47.2)	46 (56.7)	28 (47.4)
Proteinuria <0.7 g/24 h	49 (53.8)	51 (62.9)	31 (52.4)
Inactive sediment	57 (62.6)	49 (60.5)	51 (86.4)
eGFR ≥90 ml/min/1.73m ²	44 (48.4)	45 (55.6)	32 (54.2)
eGFR ≥60 ml/min/1.73m ²	74 (81.3)	73 (90.1)	55 (93.2)

Baseline predictors of PERR at different timepoints.

	6 months N = 91	12 months N = 81	24 months N = 59
Proteinuria levels at baseline	OR 0.21 CI95% 0.09–0.53 <i>p</i> = 0.001	OR 0.19 CI95% 0.069–0.57 <i>p</i> = 0.003	OR 0.89 CI95% 0.44–1.8 <i>p</i> = 0.77
Baseline creatinine	OR 0.97 CI95% 0.94–0.99 <i>p</i> = 0.008	OR 0.99 CI95% 0.99–1.01 <i>p</i> = 0.46	OR 0.98 CI95% 0.95–1.02 <i>p</i> = 0.19
Hypertension	OR 0.26 CI95% 0.076–0.81 <i>p</i> = 0.021	OR 0.27 CI95% 0.06–1.18 <i>p</i> = 0.08	OR 0.57 CI95% 0.09–3.39 <i>p</i> = 0.54
Smoke	OR 0.25 CI95% 0.06–1.7 <i>p</i> = 0.19	–	–
PERR at 6 months	–	OR 14.4 CI95% 3.28–63.6 <i>p</i> = 0.001	OR 11.7 CI95% 2.7–48.7 <i>p</i> = 0.001
Anti-Sm positivity	–	OR 5.52 CI95% 0.98–30.9 <i>p</i> = 0.05	OR 19.8 CI95% 2.01–186.7 <i>p</i> = 0.009

ABSTRACT NUMBER: 0988

Two-Year Results from a Randomized, Controlled Study of Obinutuzumab for Proliferative Lupus Nephritis



Phase 2 study, OBI vs. PBP + SoC (MMF + PRD)

126 pts with classs III and IV active LN.

OBI: 0, 2, 4, 24 and 26-w, CRR at 52 and 104-w

	OBI (n=63)	PBO (n=62)	Difference (80% CI)	P value
Week 104 endpoint				
CRR	41%	23%	19% (8, 29)	0.026
ORR	54%	29%	25% (14, 36)	0.005
mCRR	56%	33%	22% (11, 33)	0.015
C3 >90 mg/dL	76%	47%	29% (19, 40)	0.008
C4 >10 mg/dL	95%	74%	21% (13, 29)	0.001
Mean change in eGFR from baseline (mL/min/1.73 m ²)	+6.5	-3.2	9.7 (1.7, 18)	0.018
Mean change in UPCR from baseline	-2.3	-1.4	-0.96 (-1.4, -0.57)	0.002

CRR=UPCR <0.5, serum creatinine (SCr) ≤upper limit of normal (ULN) and ≤115% of baseline, <10 red blood cells per high power field (RBCs/HPF), and no RBC casts.
 ORR = CRR or partial renal response=UPCR <1 (<3 if baseline UPCR ≥3) and ≤50% of baseline, SCr ≤115% of baseline, and ≤50% increase in urinary RBCs (or <10 RBCs/HPF).
 mCRR = UPCR <0.5, SCr ≤ ULN.

¿Por qué sería interesante añadir Belimumab o Voclosporina en este paciente?



33 años, obesidad, DM2,
DL, HTA, NL IV-V

Tratamiento general

1. Actividad física y estilos de vida
2. Nefrocardioprotección:
RASi, SGLT2i, HbA1c, DL, PA
3. Uso de antimaláricos

Objetivo de la IS

1. Remisión precoz (clínica y serológica)
2. Usar baja dosis de GC (es diabética)
3. Mejorar tolerancia
4. Evitar riesgo de infecciones y toxicidad
5. Mantener bajo riesgo CV (FRCV)
6. Preservar fertilidad

Bx
renal

¿Enfoque tradicional?

Inducción

(↑↑ GC + MMF o CYC)

Mantenimiento

(GC + MMF o AZA)

¿Cambio de paradigma en el abordaje de la NL?

Una sola fase: terapia combinada continuada

(↓GC+MMF+Beli o VCS → ↓MMF+Beli o VCS)

Stop IS?

Necesidades no resueltas

RC, ↓precoz UPCR, sin brotes, ↓toxicidad (GC)

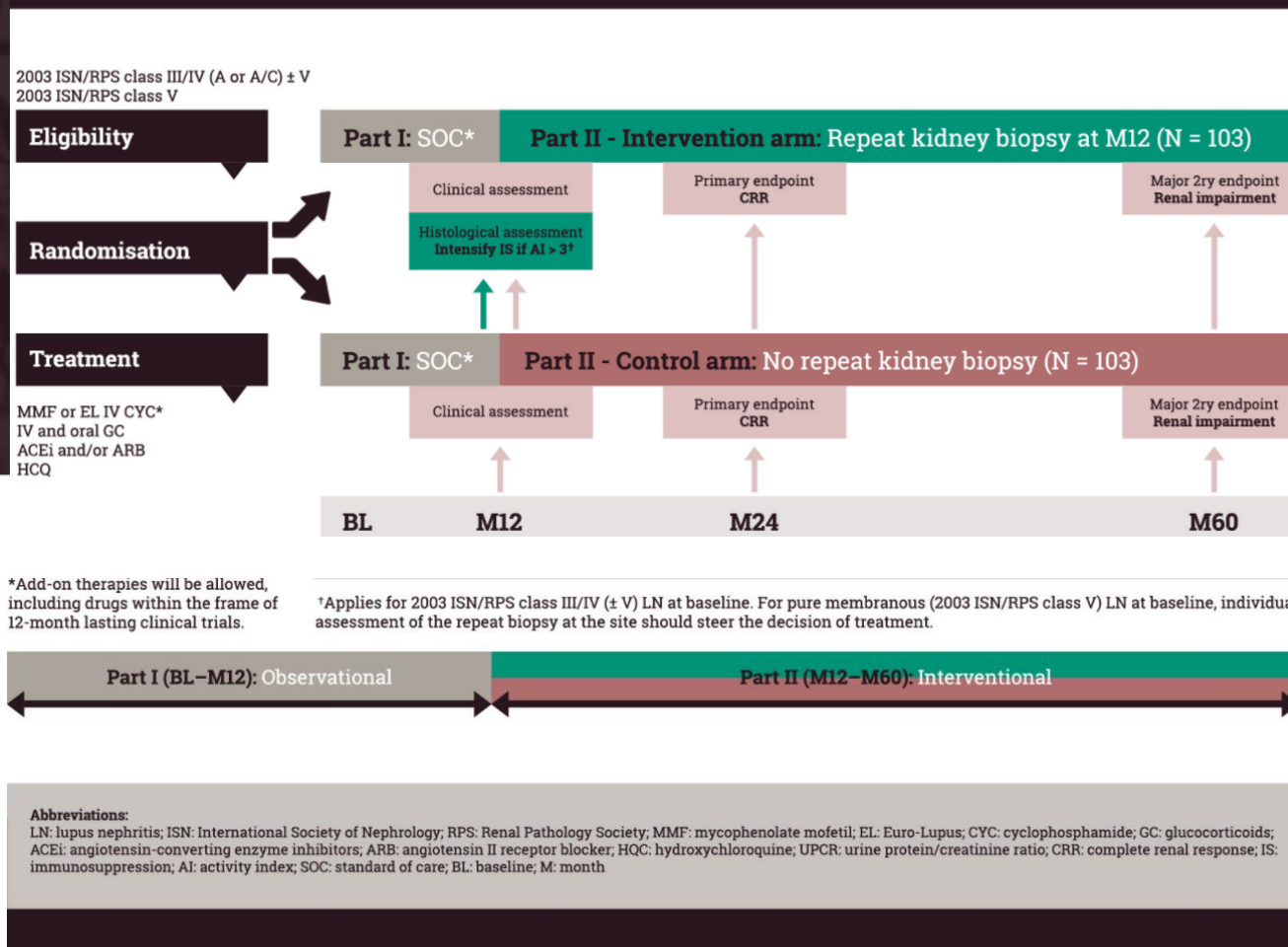
Mejorar pronóstico

- Preservar eGFR
- ↑ calidad de vida

Per-protocol repeat kidney biopsy in incident cases of lupus nephritis

NCT04449991

Per-protocol repeat kidney biopsy in incident cases of lupus nephritis



Conclusiones (Take-home messages)



- 1. Nuestros objetivos de tratamiento en NL clases III, IV $\pm$ V:**
 - ❖ *Corto plazo: abortar la inflamación aguda precozmente con baja toxicidad.*
 - ❖ *Largo plazo: mantener remisión clínica/serológica, $\downarrow$ brote y toxicidad (GCs).*
- 2. EULAR-ERA 2019 y KDIGO 2021:**
 - ❖ *Recomiendan dosis más bajas de GCs en inducción y mantenimiento $\rightarrow$ stop.*
 - ❖ *MMF+GC y CYC-IV+GC (Euro lupus) continúan siendo el tto de elección para la NL proliferativa.*
- 3. La terapia “multitarget” (GC+MMF+CNIs) es una opción eficaz y segura (ya no sólo en Asiáticos).**
- 4. Belimumab y Voclosporina: ¿nueva terapia “multitarget” continuada?**
 - ❖ *Han demostrado buena tolerancia, eficacia y seguridad como terapia añadida al SoC.*
 - ❖ *Permiten $\downarrow$ precoz de GCs, $\downarrow$ riesgo de brotes y preserva mejor eGFR (belimumab).*
- 5. Nuevos biológicos:** B-cells (OBN), plasma cells (anti-CD38), IFN-sig, con resultados alentadores.
- 6. Pendiente:** ensayos pragmáticos, $\uparrow$ tasas de RC, monoterapia vs. retiro de IS, evaluación económica.

¡MUCHAS GRACIAS POR LA ATENCIÓN PRESTADA!

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