

# American College of Rheumatology (ACR) 2024 Lupus Nephritis Guideline—Treatment Overview

**Class III/IV ± V**  
Active, newly diagnosed, or flare

**Pure Class V\***  
Active, newly diagnosed, or flare

Hydroxychloroquine and RAAS-I†

## FIRST LINE (CONTINUOUS) THERAPY

**Preferred:**

### TRIPLE THERAPY

GC pulse/oral taper to ≤5 mg/day by 6 mo.

+ MPAA

+ BEL<sup>a</sup> or CNI<sup>b</sup>

**Alternatives:**

### TRIPLE THERAPY

GC pulse/oral taper to ≤5 mg/d by 6 mo.

+ Low-dose CYC<sup>‡</sup> + BEL

DUAL THERAPY if TRIPLE THERAPY  
is not available or not tolerated

## FIRST LINE (CONTINUOUS) THERAPY

**Preferred:**

### TRIPLE THERAPY

GC pulse/oral taper to ≤5 mg/day by 6 mo.

+ MPAA

+ CNI

**Alternatives:**

### TRIPLE THERAPY

GC pulse/oral taper to ≤5 mg/d by 6 mo.

+ MPAA + BEL or Low-dose CYC<sup>‡</sup> + BEL

DUAL THERAPY if TRIPLE THERAPY  
is not available or not tolerated

## Lack of Response

If Initial TRIPLE THERAPY: Change to ALTERNATE TRIPLE THERAPY  
If Initial DUAL THERAPY: Escalate to TRIPLE THERAPY

## Refractory Disease

Consider adherence and/or other diagnoses (e.g., aPL nephropathy) or advanced chronicity

Escalate to a more intensive regimen, including addition of anti-CD20 agents, combination therapy with 3 immunosuppressives (i.e., MPAA, belimumab and CNI), or referral for investigational therapy.

\* For ≥1 g protein; for less than 1 g, treat with GC and/or immunosuppression

† Discuss adjunctive treatment with systemic anticoagulation with nephrology for patients with LN and significant risk factors for thrombosis (e.g., low serum albumin in context of severe proteinuria)

‡ Substitute MPAA once low-dose CYC cycle is completed

<sup>a</sup> Recommended preferentially when significant extrarenal manifestations present

<sup>b</sup> Recommended preferentially when proteinuria ≥3.0 g

Goal: Complete renal response (CRR)

■ Within 6-12 mo, reduction in proteinuria to ≤0.5 g/g and ■ Stabilization or improvement in kidney function (±20% baseline)

Duration of therapy: at least 3-5 years after achievement of CRR

RAAS-I, renin-angiotensin-aldosterone system inhibitors; GC, glucocorticoid; MPAA, mycophenolic acid analogs (including mycophenolate mofetil, or MMF); BEL, belimumab; CNI, calcineurin inhibitor; CYC, cyclophosphamide.

GC pulse/oral taper: Pulse intravenous glucocorticoids (250-1000 mg methylprednisolone daily x 1-3 days) followed by oral glucocorticoid ≤0.5 mg/kg/day (maximum dose 40 mg/day) and taper.

Low-dose cyclophosphamide: as per ELNT protocol<sup>§</sup>, 500 mg IV CYC every 2 weeks for 6 doses.

DUAL THERAPY: GC pulse/oral taper plus one immunosuppressive agent, usually MPAA or low-dose CYC.

<sup>§</sup>Houssiau FA, Vasconcelos C, D'Cruz D, et al. Immunosuppressive therapy in lupus nephritis: the Euro-Lupus Nephritis Trial, a randomized trial of low-dose versus high-dose intravenous cyclophosphamide. *Arthritis Rheum* 2002;46:2121-2131.