

ANCA-Associated Vasculitis

Remission induction, maintenance, relapse, and refractory-disease management for GPA/MPA and EGPA, condensed from 41 recommendations and 10 position statements.

2021 ACR/VF Guideline
Guideline for the Management of ANCA-Associated Vasculitis
Chung SA, et al. • Arthritis Care Res 2021;73:1088-1105

GRADE

Cond. For

Cond. Against

Ungraded (UPS)

Virtually all graded recommendations are conditional, low-quality evidence. GCs = glucocorticoids.

1 GPA/MPA — Severe Disease Induction

INDUCTION AGENT

Cond.

Rituximab preferred over cyclophosphamide for remission induction.

UPS

IV pulse or high-dose oral GCs as initial therapy.

PLASMA EXCHANGE & DOSING

Cond.

Against routine addition of plasma exchange for active glomerulonephritis or alveolar hemorrhage.

Cond.

Reduced-dose GC regimen preferred over standard-dose for induction.

2 GPA/MPA — Nonsevere Induction & Maintenance

INDUCTION & AGENT CHOICE

Cond.

Nonsevere induction — methotrexate + GCs preferred over cyclophosphamide, rituximab, azathioprine, mycophenolate, or TMP/SMX; over GCs alone.

Cond.

Maintenance after severe disease — rituximab preferred over methotrexate/azathioprine.

Cond.

Methotrexate/azathioprine preferred over mycophenolate or leflunomide for maintenance.

DOSING & DURATION

Cond.

Rituximab re-dosing — scheduled re-dosing preferred over titrating by ANCA titer or CD19+ B-cell counts.

Cond.

Against adding TMP/SMX to other maintenance therapy in GPA.

UPS

Duration of non-GC and GC maintenance guided by clinical condition and patient values/preferences.

3 GPA/MPA — Relapse, Refractory & Other

RELAPSE & REFRACTORY

Cond.

Severe relapse — rituximab preferred over cyclophosphamide if not on rituximab maintenance; switch to cyclophosphamide if relapse occurs on rituximab maintenance.

Cond.

Refractory disease — switch between rituximab/cyclophosphamide rather than combining; add IVIG if refractory to induction or other agents unavailable.

Cond.

Against dosing therapy by ANCA titer alone.

AIRWAY & PROPHYLAXIS

UPS

Sinonasal/airway lesions — nasal rinses/topical therapy; reconstructive surgery for septal defects if desired.

Cond.

Immunosuppression preferred over surgery alone for subglottic stenosis or mass lesions.

UPS

PJP prophylaxis with rituximab/cyclophosphamide; evaluate renal transplant if ESKD achieves remission.

4 EGPA — Remission Induction

SEVERE DISEASE

UPS

IV pulse or high-dose oral GCs; cyclophosphamide or rituximab as induction options.

Cond.

Cyclophosphamide or rituximab preferred over mepolizumab.

NONSEVERE DISEASE

Cond.

Mepolizumab + GCs preferred over methotrexate/azathioprine/mycophenolate + GCs.

Cond.

Methotrexate/azathioprine/mycophenolate + GCs preferred over cyclophosphamide/rituximab + GCs or GCs alone.

5 EGPA — Maintenance & Relapse

Cond.

Maintenance — methotrexate/azathioprine/mycophenolate preferred over rituximab or mepolizumab after cyclophosphamide induction.

Cond.

Severe relapse — rituximab preferred over cyclophosphamide (or over switching agents if already on rituximab) for re-induction.

Cond.

Nonsevere relapse — add mepolizumab preferred over switching agents, adding csDMARDs, or adding omalizumab (high IgE).

6 EGPA — Other Considerations

LEUKOTRIENE INHIBITORS & WORKUP

UPS

Leukotriene inhibitors — continue rather than discontinue in newly diagnosed EGPA; not contraindicated with active asthma/sinonasal disease.

UPS

Workup — echocardiogram at diagnosis; use the Five-Factor Score to guide therapy intensity.

SINONASAL & PROPHYLAXIS

UPS

Sinonasal disease — nasal rinses and topical therapy may be considered.

UPS

Infection prophylaxis — PJP prophylaxis with cyclophosphamide or rituximab.