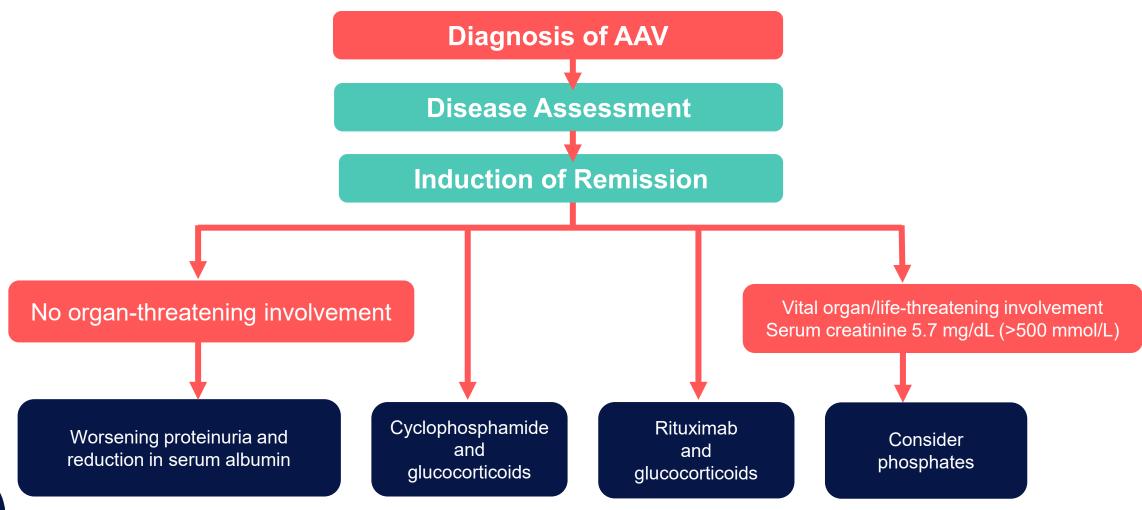
KDIGO: Recommendations in AAV

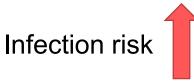




AAV Treatment Comparison and Selection

Rituximab preferred	Cyclophosphamide preferred
 Children and adolescents Premenopausal women and men concerned about fertility Frail older adults Glucocorticoid-sparing especially important Relapsing disease PR3-ANCA disease 	 Rituximab difficult to access Severe GN (SCr > 4 mg/dL [35 mmol/L]), combination of 2 IV pulses of cyclophosphamide with rituximab can be considered

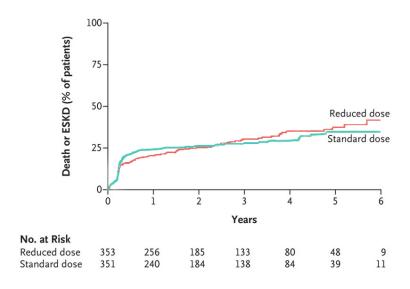
Hypogammaglobulinemia Late-onset neutropenia





PEXIVAS Randomized Controlled Trial

- Conclusions
 - Reduced exposure to oral glucocorticoids was noninferior to a standard-dose regimen with respect to the risk of death or ESKD
 - Risk of serious infections at ≤1 year less common with reduceddose corticosteroids



Results: Steroids – Secondary Outcomes

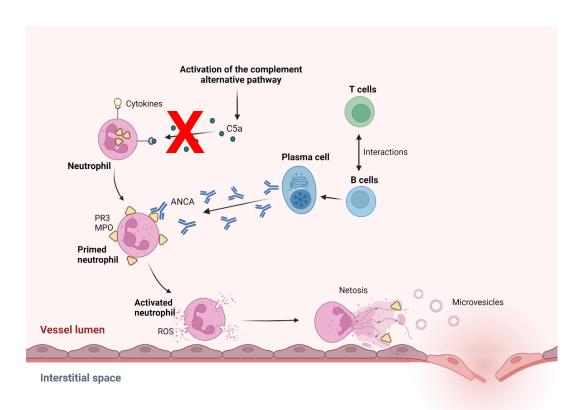
Outcome	Reduced	Standard	Hazard Ratio (95% CI)	P-value
Death, n (%)	46 (13)	53 (15)	0.78 (0.53 – 1.17)	0.23
ESRD, n (%)	70 (20)	68 (19)	0.96 (0.68 – 1.34)	0.65
Sustained Remission, n (%)	204 (58)	193 (55)	1.04 (0.92 – 1.19)	0.48
SAEs, n (%)	231 (65)	218 (62)	1.05 (0.94 – 1.17)	0.20
			Incidence Rate Ratio (95% CI)	
Year 1 Serious Infections, n (%)	96 (27)	116 (33)	0.69 (0.52 – 0.93)	0.02



The cumulative GC dose was 40% of that in a standard dose regimen group at 6 months

C5a Inhibition in ANCA Vasculitis

- Alternative complement pathway: critical role in the pathogenesis
- C5a inhibitors:
 - Antagonize C5a receptors to block C5a-mediated neutrophil activation and migration







ADVOCATE Trial

- Randomized, controlled, phase 3 trial comparing avacopan (C5a inhibitor) to a prednisone taper regimen
- Several benefits for patients with ANCA vasculitis
 - Avacopan was superior to prednisone in sustaining remission at 52 weeks
 - Reduced risk of serious infection vs steroid taper
 - Pneumonia
 - Granulomatosis with polyangiitis
 - Acute kidney injury
 - Urinary tract infection
 - Improved patient quality of life
 - Improved recovery of kidney function compared to glucocorticoids
 - Reduced long-term risk of end-stage renal disease

Clinical Remission at Week 26

Estimated common difference, 3.4 percentage points 95% CI, -6.0 to 12.8 P < 0.001 for noninferiority; P = 0.24 for superiority

