

Supplementary Fig. S1. Receiver operating curve analyses and the cut-off values of estimated glomerular filtration rate (eGFR) for predicting end-stage renal disease (ESRD) in elderly and non-elderly patients with anti-neutrophil cytoplasmic antibody-associated vasculitis.
(a) In elderly patients, an eGFR <14.6 mL/min/1.73 m², which was calculated by the Youden index, predicted the occurrence of ESRD (area under the curve [AUC]: 0.905 [95% confidence interval 0.813–0.998], sensitivity: 1.000, specificity: 0.788).
(b) In non-elderly patients, an eGFR <11.4 mL/min/1.73 m², calculated by the Youden index, predicted the occurrence of ESRD (AUC: 0.975 [95% confidence interval 0.933–0.999], sensitivity: 1.000, specificity: 0.867).

Supplementary Table S1. Details of the cause of death in both elderly and non-elderly patients with AAV.

	Elderly (age ≥75 years)	Non-elderly (age <75 years)		
Infectious complications (n)	3	1		
Complications due to AAV (n)	2	1		
Cardiovascular diseases (n)	2	1		
Other (n)	1	2		

AAV: anti-neutrophil cytoplasmic antibody-associated vasculitis.

Supplementary Table S2. Details of the infectious complications in both elderly and nonelderly patients with AAV.

	Elderly (age ≥75 years)	Non-elderly (age <75 years)		
Bacterial pneumonia (n)	3	4		
Sepsis (n)	2	2		
CMV infection (n)	2	2		
Fungal infection (n)	2	1		
Other (n)	2	_		

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Supplementary Table S3. Initial dose of TMP/SMX in both elderly and non-elderly patients with AAV.

Primary dose of TMP/SMX		Elderly (Age ≥75 years) (n=41)		Non-elderly (Age <75 years) (n=38)	
TMP: 160 mg/SMX: 800 mg /day (n, %)	0	0	1	2.6	
TMP: 160 mg/SMX: 800 mg / every other day (n, %)	3	7.3	4	10.5	
TMP: 160 mg/SMX: 800 mg / twice a week (n, %)	1	2.4	1	2.6	
TMP: 80 mg/SMX: 400 mg /day (n, %)	9	22.0	10	26.3	
TMP: 80 mg/SMX: 400 mg /every other day (n, %)	0	0	0	0	
TMP: 80 mg/SMX: 400 mg /three times a week (n, %)	17	41.5	12	31.6	
TMP: 80 mg/SMX: 400 mg /twice a week (n, %)	5	12.2	5	13.1	
TMP: 40 mg/SMX: 200 mg /day (n, %)	3	7.3	1	2.6	
No use (n, %)	3	7.3	4	10.5	

TMP-SMX: trimethoprim-sulfamethoxazole.

Supplementary Table S4. Association between the occurrence of clinical infectious (pulmonary/ENT infection or all infectious complications) events and standard dose of TMP/SMX treatment in both elderly and non-elderly patients with AAV.

	Elderly (Age \geq 75 years)			Non-elderly (Age < 75 years)		
	OR	95% CI	P value	OR	95% CI	p value
Pulmonary/ENT infection within six months	4.5	0.65-31.4	0.13	1.57	0.36-6.84	0.55
All infectious complications within six months	1.57	0.36-6.84	0.55	0.31	0.05-1.73	0.18

CI: confidence interval; ENT: ear, nose and throat; OR: odds ratio; TMP-SMX: trimethoprim-sulfamethoxazole.

Supplementary Table S5. Duration of TMP/SMX treatment in both elderly and non-elderly patients with AAV.

Duration of TMP/SMX treatment	Elderly (Age ≥75 years) (n=41)		Non-elderly (Age <75 years) (n=38)	
More than six months or total follow-up period $(n,\%)$	31	75.6	26	68.4
Between one and six months $(n,\%)$	3	7.3	3	7.9
Within one month or no use $(n,\%)$	7	17.1	9	23.7

TMP-SMX: trimethoprim- sulfamethoxazole.

Supplementary Table S6. Association between the occurrence of clinical infectious (pulmonary/ENT infection or all infectious complications) events and full length of TMP/SMX treatment in both elderly and non-elderly patients with AAV.

	Elderly (Age ≥75 years)			Non-elderly (Age <75 years)		
	OR	95% CI	P value	OR	95% CI	p value
Pulmonary and ENT infection within six months	-	-	-	0.08	0.01-0.82	0.034*
All infectious complications within six months	-	-	-	0.26	0.05-1.22	0.09

CI: confidence interval; ENT: ear, nose and throat; OR: odds ratio; TMP-SMX: trimethoprim-sulfamethoxazole.

Because of the separation of the events in elderly patients, logistic regression analyses could not statistically evaluate the results (all the patients who developed pulmonary/ENT infection or all infectious complications received full length of the TMP/SMX treatment).