

**Supplementary Table 1. Itemized analysis of BD patients who had ANCA but were not reclassified as having OS-BD-MPA, OS-BD-GPA, or OS-BD-EGPA according to the 2022 ACR/EULAR criteria for MPA, GPA, or EGPA**

Patient's number	Scores based on the 2022 ACR/EULAR criteria for MPA	1 (-3)	2 (+6)	3 (+3)	4 (+3)	5 (-1)	6 (-4)
1	3	1	1	0	0	0	0

1 = Nasal involvement (discharge, ulcers, crusting, congestion, septal defect/perforation); 2 = MPO-ANCA (or P-ANCA) positivity; 3 = Fibrosis or interstitial lung disease on chest imaging; 4 = Pauci-immune glomerulonephritis on biopsy; 5 = PR3-ANCA (or C-ANCA) positivity; 6 = Serum eosinophil count  $\geq 1,000/\mu\text{L}$

Patient's number	Scores based on the 2022 ACR/EULAR criteria for GPA	1 (+3)	2 (+2)	3 (+1)	4 (+5)	5 (+2)	6 (+2)	7 (+1)	8 (+1)	9 (-1)	10 (-4)
1	3	1	0	0	0	0	0	1	0	1	0

1 = Nasal involvement (discharge, ulcers, crusting, congestion, septal defect/perforation); 2 = Cartilaginous involvement; 3 = Conductive or sensorineural hearing loss; 4 = PR3-ANCA (or C-ANCA) positivity; 5 = Pulmonary nodules, mass or cavitation; 6 = Granuloma, granulomatous inflammation, or giant cells on biopsy; 7 = Nasal/paranasal sinusitis or mastoiditis on imaging; 8 = Pauci-immune glomerulonephritis on biopsy; 9 = MPO-ANCA (or P-ANCA) positivity; 10 = Serum eosinophil count  $\geq 1,000/\mu\text{L}$

Patient's number	Scores based on the 2022 ACR/EULAR criteria for EGPA	1 (+3)	2 (+3)	3 (+1)	4 (+5)	5 (+2)	6 (-3)	7 (-1)
1	0	0	0	0	0	0	0	0

1 = Obstructive airway disease; 2 = Nasal polyps; 3 = Mononeuritis multiplex; 4 = Serum eosinophil count  $\geq 1,000/\mu\text{L}$ ; 5 = Extravascular eosinophilic predominant inflammation on biopsy; 6 = PR3-ANCA (or C-ANCA) positivity; 7 = Haematuria

BD, Behçet's disease; ANCA, antineutrophil cytoplasmic antibody; OS, overlap syndrome; MPA, microscopic polyangiitis; GPA, granulomatosis with polyangiitis; EGPA, eosinophilic GPA; ACR, the American College of Rheumatology; EULAR, the European Alliance of Associations for Rheumatology; MPO, myeloperoxidase; P, perinuclear; PR3, proteinase 3; C, cytoplasmic.