

Supplementary Table S1. Inclusion criteria in IgG4-related kidney disease and mimickers

Domains and items (number is weight of each item)	IgG4-RKD (n=51)	Mimickers (n=26)
1. Histopathology (including extra-renal organs)		
0; Uninformative biopsy	1	8
+4; Dense lymphocytic infiltrate	23	18
+6; Dense lymphocytic infiltrate and obliterative phlebitis	0	0
+13; Dense lymphocytic infiltrate and storiform fibrosis with or without obliterative phlebitis	27	0
2. Immunostaining (including extra-renal organs)		
0; the IgG4+:IgG+ ratio is 0-40% or indeterminate and the number of IgG4+cells/hpf is 0-9	1	16
+7; 1) the IgG4+:IgG+ ratio is $\geq 41\%$ and the number of IgG4+cells/hpf is 0-9 or indeterminate; or 2) the IgG4+:IgG+ ratio is 0-40% or indeterminate and the number of IgG4+cells/hpf is ≥ 10 or indeterminate	13	8
+14; 1) the IgG4+:IgG+ ratio is 41-70% and the number of IgG4+ cells/hpf is ≥ 10 ; or 2) the IgG4+:IgG+ ratio is $\geq 71\%$ and the number of IgG4+ cells/hpf is 10-50	26	2
+16; the IgG4+:IgG+ ratio is $\geq 71\%$ and the number of IgG4+ cells/hpf is ≥ 51	11	0
3. Serum IgG4 concentration		
0; normal or not checked	1	20
+4; >Normal but < 2x upper limit of normal	4	2
+6; 2-5x upper limit of normal	9	3
+11; >5x upper limit of normal	37	1
4. Bilateral lacrimal, parotid, sublingual and submandibular glands		
0; No set of glands involved	24	26
+6; One set of glands involved	11	0
+14; Two or more sets of glands involved	16	0
5. Chest		
0; Not checked or neither of the items listed is present	43	26
+4; Peribronchovascular and septal thickening	7	0
+10; Paravertebral band-like soft tissue in the thorax	1	0
6. Pancreas and biliary tree		
0; Not checked or none of the items listed is present	41	26

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+8; Diffuse pancreas enlargement (loss of lobulations)	4	0
+11; Diffuse pancreas enlargement and capsule-like rim with decreased enhancement	3	0
+19; Pancreas (either of above) and biliary tree involvement	3	0
7. Kidney		
0; Not checked or none of the items listed is present	3	23
+6; Hypocomplementemia	16	1
+8; Renal pelvis thickening/soft tissue	4	0
+10; Bilateral renal cortex low-density areas	28	2
8. Retroperitoneum		
0; Not checked or neither of the items listed is present	43	26
+4; Diffuse thickening of the abdominal aortic wall	1	0
+8; Circumferential or anterolateral soft tissue around the infrarenal aorta or iliac arteries	7	0
Total inclusion points, mean \pm SD	48.4 \pm 14.0	8.4 \pm 5.5
Total inclusion points \geq20, n/total	50/51	1/26

Values are the number.