

Supplementary Table 1. Conventional diagnoses in 703 biopsies and biopsies with v-lesions

Conventional diagnosis	All biopsies with v-lesions recorded (n = 673)	Median time post-transplant (range) (days)	Biopsies with v-lesions (n=49)	Median time post-transplant (range) (days)
Rejection-related:				
Pure T cell-mediated rejection (TCMR) ^a	65 (10%)	137 (8 – 3878)	30 (51%)	95 (8 – 4986)
Pure Antibody-mediated rejection (ABMR)	104 (15%)	11453 (6 – 11453)	0 (0%)	-
<i>C4d-positive ABMR</i>	28 (4%)	2256 (6 – 8419)	0 (0%)	-
<i>C4d-negative ABMR</i>	76 (11%)	2076 (6 – 11453)	0 (0%)	-
Mixed rejection	27 (4%)	1835 (26 -5985)	17 (35%)	1011 (26 – 5985)
Borderline	87 (13%)	244 (7 – 8095)	0 (0%)	-
Transplant glomerulopathy (TG)	24 (4%)	1953 (134 – 7191)	0 (0%)	-
Other processes:				
Polyoma virus nephropathy (PVN)	25 (4%)	246 (110 – 1135)	2 (4%)	228 (183 – 272)
Glomerulonephritis (GN)	77 (11%)	1830 (26 – 10436)	0 (0%)	-
Relatively normal	112 (17%)	390 (7 – 9056)	0 (0%)	-
Atrophy-fibrosis of unknown significance (IFTA)	69 (10%)	1703 (52 – 12831)	0 (0%)	-
Other uncommon diagnoses	22 (3%)	277 (10 – 4685)	0 (0%)	-
Total	673	564 (3 – 12831)	49	201 (8 – 5985)

^a One biopsy previously called pure ABMR was recently reviewed and reclassified as TCMR, correcting a data entry error, making these numbers slightly different from previous analyses.

Supplementary Table 2. Response to therapy in 49 v-lesion biopsies

All biopsies (n=49)	Mean Cr at biopsy (range)	Mean Cr at 1mo (range)
i-t-v (n=21)	307 (123 – 1469)	167 (102 – 276) ^a
isolated v (n=28)	236 (123 – 1087)	173 (117 – 287)
Recorded treatment after biopsy (n=27)	Mean Cr at biopsy (range)	Mean Cr at 1mo (range)
i-t-v (n=14)	361 (125 – 1469)	181 (132-276)
isolated v (n=13)	247 (123 – 1087)	158 (117 – 219)
Recorded as no treatment after biopsy (n=5)	Mean Cr at biopsy (range)	Mean Cr at 1mo (range)
i-t-v (n=0)	-	-
isolated v (n=5)	187 (167 – 244)	191 (186 – 198)
No data available for treatment after biopsy (n=17)	Mean Cr at biopsy (range)	Mean Cr at 1mo (range)
i-t-v (n=7)	198 (123 – 335)	125 (102 – 159)
isolated v (n=10)	248 (176 – 397)	189 (125 – 287)

^a p<0.05 when compared to Cr at biopsy in paired Student's t-test

Supplementary Table 3. Relationship of histologic microcirculation inflammation, cg scores, and C4d staining to molecular TCMR and ABMR scores in 28 biopsies with isolated v-lesions

Molecular scores	Microcirculation inflammation		cg>0 (n=12)	cg=0 (n=16)	C4d positive (n=7)	C4d negative ^a (n=20)
	ptc + g-lesions>0 (n=16)	ptc + g-lesions=0 (n=12)				
TCMR>0.1	3	3	2	4	2	4
TCMR<0.1	13	9 ^b	10	12 ^b	5	16 ^b
<i>p-value</i> ^b	1		0.67		0.63	
ABMR>0.2	10	3	11	2	7	6
ABMR<0.2	6	9 ^b	1	14 ^d	0	14 ^c
<i>p-value</i> ^b	0.07		<0.001		0.002	

^a One C4d biopsy did not have C4d testing performed.

^b Fisher's exact test