

Table S1

	Patient 1	Patient 2	Patient 3	Patient 4
RA criteria met	1987 and 2010	1987 and 2010	1987 and 2010	2010
Disease duration (yrs)	11	10	23	4
CCP	> 3x ULN	> 3x ULN	> 3x ULN	> 3x ULN
RF	2x ULN	> 3x ULN	> 3x ULN	negative
Active treatment	Methotrexate	NSAIDS	Leflunomide, adalimumab	Sulfasalazine, hydroxychloroquine
Prior treatments	TNF inhibitor	Methotrexate, TNF inhibitor	Methotrexate	Methotrexate, abatacept, adalimumab, certolizumab, infliximab, tocilizumab, tofacitinib
Joint	Knee	Knee	Wrist	Knee
Krenn Score	8	5	6	4
Pathotype	lymphoid	lymphoid	lymphoid	lymphoid
Lining thickness	4-5 cells	> 5 cells	> 5 cells	4-5 cells
Stromal cellularity	Greatly increased	Normal	Normal	Normal
Inflammatory infiltrate	Dense band-like or numerous large follicle-like aggregates	Numerous lymphocytes or plasma cells, sometimes forming follicle-like aggregates	Dense band-like or numerous large follicle-like aggregates	Numerous lymphocytes or plasma cells, sometimes forming follicle-like aggregates