

Table S1: Probability of radiological progression defined by the occurrence or the worsening in erosion after 2 years follow-up period with regard to the presence of synovitis at baseline defined by either clinical or ultrasonographic evaluation.

Examination	Baseline synovitis		Radiological progression*	OR [+CI 95%]	p value
	Grade	Number of joints	N (%) joints		
Clinical**	0	1101	34 (3.3%)	2.12 [1.26 – 3.56]	0.005
	1-2-3	784	41 (5.5%)		
	0-1	1347	47 (3.7%)	2.12 [1.15-3.90]	0.016
	2-3	538	28 (5.4%)		
Ultrasonography Grey Scale***	0	939	23 (2.6%)	1.98 [1.28-3.05]	0.002
	1-2-3	939	52 (5.9%)		
	0-1	1289	37 (3.1%)	1.84 [1.20-2.83]	0.005
	2-3	589	38 (6.8%)		
Ultrasonography Power Doppler****	0	1410	45 (3.4%)	1.54 [0.97-2.44]	0.065
	1-2-3	468	30 (6.6%)		
	0-1	1589	58 (3.9%)	1.18 [0.64-2.21]	0.594
	2-3	289	17 (6.0%)		

*Radiological progression = occurrence or worsening of erosion

**Score of “clinical” synovitis (0 = no synovitis; 1 = doubtful synovitis; 2 = obvious and moderate synovitis; 3 = obvious and important synovitis)

***Score of ultrasonography Grey Scale evaluation: 0 = absence of synovial thickening; 1 = mild synovial thickening; 2 = moderate synovial thickening; 3 = marked synovial thickening.

****Score of ultrasonographic Power Doppler evaluation: 0 = absence of signal, no intra-articular flow; 1 = mild, one or 2 vessels signal (including 1 confluent vessel) for small joints and 2 to 3 signals for large joints (including 2 confluent vessels); 2 = moderate confluent vessels (>grade 1) and less than 50% of normal area; 3 = marked vessels signal in more than half of the synovial area.

Table S2: Probability of radiological progression defined by the occurrence or the worsening in joint space narrowing after 2 years follow-up period with regard to the presence of synovitis at baseline defined by either clinical or ultrasonographic evaluation.

Examination	Baseline synovitis		Radiological progression*	OR [+CI 95%]	p value
	Grade	Number of joints	N (%) joints		
Clinical**	0	1101	47 (4.6%)	2.13 [1.38 – 3.30]	<0.01
	1-2-3	784	77 (10.2%)		
	0-1	1347	76 (6.0%)	1.57 [1.07-2.31]	0.022
	2-3	538	48 (9.3%)		
Ultrasonography Grey Scale***	0	939	40 (4.4%)	1.66 [0.99-2.79]	0.055
	1-2-3	939	84 (9.6%)		
	0-1	1289	56 (4.6%)	2.01 [1.09-3.72]	0.026
	2-3	589	68 (12.1%)		
Ultrasonography Power Doppler****	0	1410	67 (5.1%)	1.86 [1.11-3.13]	0.019
	1-2-3	468	57 (12.6%)		
	0-1	1589	92 (6.1%)	1.36 [0.74-2.49]	0.317
	2-3	289	32 (11.3%)		

*Radiological progression = occurrence or worsening of joint space narrowing

**Score of “clinical” synovitis (0 = no synovitis; 1 = doubtful synovitis; 2 = obvious and moderate synovitis; 3 = obvious and important synovitis)

***Score of ultrasonography Grey Scale evaluation: 0 = absence of synovial thickening; 1 = mild synovial thickening; 2 = moderate synovial thickening; 3 = marked synovial thickening.

****Score of ultrasonographic Power Doppler evaluation: 0 = absence of signal, no intra-articular flow; 1 = mild, one or 2 vessels signal (including 1 confluent vessel) for small joints and 2 to 3 signals for large joints (including 2 confluent vessels); 2 = moderate confluent vessels (>grade 1) and less than 50% of normal area; 3 = marked vessels signal in more than half of the synovial

Table S3: Probability of radiological progression defined by the occurrence or the worsening in erosion OR in joint space narrowing after a 2 years follow-up period with regard to the presence of synovitis at baseline defined by either clinical or ultrasonographic evaluation.

Baseline synovitis			Radiological progression*	OR [+CI 95%]	p value
Examination	Grade	Number of joints	N (%) joints		
Clinical**	0	1101	68 (6.6%)	2.08 [1.39 – 3.11]	<0.001
	1-2-3	784	91 (12.1%)		
	0-1	1347	101 (8.0%)	1.64 [1.14-2.36]	0.008
	2-3	538	58 (11.3%)		
Ultrasonography Grey Scale***	0	939	53 (5.9%)	1.64 [1.08-2.47]	0.019
	1-2-3	939	106 (12.1%)		
	0-1	1289	76 (6.3%)	1.91 [1.18-3.10]	0.009
	2-3	589	38 (6.8%)		
Ultrasonography Power Doppler****	0	1410	91 (6.9%)	1.80 [1.20-2.71]	0.005
	1-2-3	468	68 (15.0%)		
	0-1	1589	121 (8.1%)	1.36 [0.78-2.38]	0.278
	2-3	289	38 (13.5%)		

*Radiological progression = occurrence or worsening of erosion or joint space narrowing

**Score of “clinical” synovitis (0 = no synovitis; 1 = doubtful synovitis; 2 = obvious and moderate synovitis; 3 = obvious and important synovitis)

***Score of ultrasonography Grey Scale evaluation: 0 = absence of synovial thickening; 1 = mild synovial thickening; 2 = moderate synovial thickening; 3 = marked synovial thickening.

****Score of ultrasonographic Power Doppler evaluation: 0 = absence of signal, no intra-articular flow; 1 = mild, one or 2 vessels signal (including 1 confluent vessel) for small joints and 2 to 3 signals for large joints (including 2 confluent vessels); 2 = moderate confluent vessels (>grade 1) and less than 50% of normal area; 3 = marked vessels signal in more than half of the synovial area.