

Supplementary Material

Supplementary table 1. Factors associated with relapse at 1 year: univariate and multivariate analysis*.

Variables	Univariate analysis		Multivariate analysis	
	HR (95% CI)	P-value	HR (95% CI)	P-value
Baseline variables				
Male vs female	0.85 (0.28-2.15)	0.749		
Age	1.00 (0.97-1.04)	0.877		
Disease duration	1.02 (0.98-1.06)	0.311		
Duration of clinical remission	0.96 (0.79-1.18)	0.717		
Current smoking (vs never)	1.30 (0.45-3.34)	0.604		
Pain at night	2.55 (0.60-7.50)	0.132		
Baseline TJC	1.42 (1.05-1.91)	0.022		
Baseline SJC	1.13 (0.69-1.86)	0.636		
Baseline ESR	1.00 (0.94-1.07)	0.999		
Baseline CRP	0.85 (0.71-1.02)	0.076		
Baseline DAS28-ESR	1.87 (0.55-6.32)	0.316		
Baseline DAS28-CRP	1.16 (0.58-2.63)	0.722		
Rheumatoid factor-positive	1.50 (0.56-5.19)	0.464		
Anti-CCP positive	1.64 (0.56-6.97)	0.427		
Radiographic erosion	1.61 (0.68-4.06)	0.291		
At least one baseline PDUS	1.48 (0.61-4.13)	0.412		
Variables during follow-up				

AUC DAS28-CRP	0.99 (0.93-1.04)	0.599		
At least one persistent PDUS	2.07 (0.87-5.41)	0.113		
Variables at visit before relapse				
TJC at visit before relapse	1.14 (1.03-1.26)	0.012		
SJC at visit before relapse	1.51 (1.15-1.98)	0.003		
Patient global assessment at visit before relapse	1.02 (0.99-1.04)	0.061		
CRP at visit before relapse	0.96 (0.88-1.05)	0.397		
DAS28-CRP > 3.2 and delta DAS > 0.6 at visit before relapse	4.72 (1.53-12.25)	0.003	3.71 (1.32-10.43)	0.013
DAS28 CRP at visit before relapse	1.80 (1.17-2.79)	0.008		
At least one PDUS at visit before relapse	2.98 (1.23-8.32)	0.023	3.16 (1.13-8.82)	0.028

HR = hazard ratio; CI = confidence interval; SJC = swollen joint count; TJC = tender joint count; ESR = erythrocyte sedimentation rate; CRP = C-reactive protein; DAS28 = Disease Activity Score in 28 joints; PDUS = power Doppler ultrasonography synovitis; AUC = area under the receiver operating characteristic curve

**Included variables: ≥ 1 PDUS at visit before relapse, ≥ 1 persistent PDUS, pain at night, DAS28-CRP > 3.2 and delta DAS > 0.6 at visit before relapse, CRP, TJC.*

Note: the following were excluded from the model because of collinearity among variables: DAS28-CRP > 3.2 at visit before relapse; DAS28-CRP at visit before relapse; TJC at visit before relapse; SJC at visit before relapse; patient global assessment at visit before relapse.