

Supplementary table 2. Factors associated with radiographic progression at 1 year: univariate analysis and Stepwise logistic regression analysis*.

Variables	Univariate analysis		Multivariate analysis	
	HR (95% CI)	P-value	HR (95% CI)	P-value
Baseline variables				
Male vs female	Non convergent model			
Age	1.04 (0.98-1.09)	0.200		
Disease duration	1.08 (1.02-1.14)	0.008	1.07 (1.00-1.14)	0.037
Duration of clinical remission	0.93 (0.69-1.25)	0.614		
Current smoking (vs never)	0.59 (0.12-3.05)	0.531		
Pain at night	Non convergent model			
Baseline TJC	0.93 (0.43-2.04)	0.859		
Baseline SJC	1.21 (0.61-2.41)	0.584		
Baseline ESR	1.09 (0.99-1.17)	0.058		
Baseline CRP	0.99 (0.90-1.09)	0.788		
Baseline DAS28-ESR	7.25 (1.01-52.09)	0.049		
Baseline DAS28-CRP	1.02 (0.32-3.26)	0.979		
Rheumatoid factor-positive	4.30 (0.53-35.04)	0.173		
Anti-CCP antibody-positive	3.14 (0.38-25.83)	0.287		
Radiographic erosion	2.99 (0.74-12.04)	0.123		
At least one baseline PDUS	7.33 (0.91-59.28)	0.062		
Variables during follow-up				
AUC DAS28-CRP	0.94 (0.87-1.02)	0.110		

At least one persistent PDUS	13.75 (1.70-111.05)	0.014	13.25 (1.56-115.72)	0.018
Variables at visit before relapse				
TJC at visit before relapse	0.78 (0.39-1.56)	0.481		
SJC at visit before relapse	1.31 (0.80-2.13)	0.286		
Patient global assessment at visit before relapse	0.98 (0.95-1.02)	0.375		
CRP at visit before relapse	1.04 (0.95-1.15)	0.390		
DAS28-CRP > 3.2 and delta DAS > 0.6 at visit before relapse	1.03 (0.12-9.15)	0.982		
DAS28 CRP at visit before relapse	1.00 (0.41-2.46)	1.00		
At least one PDUS at visit before relapse	2.50 (0.70-8.90)	0.157		

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 signal; AUC = area under the receiver operating characteristic curve

**Included variables: ≥ 1 baseline PDUS, ≥ 1 PDUS at visit before relapse, ≥ 1 persistent PDUS, rheumatoid factor, radiographic erosion, disease duration, ESR, baseline DAS28-ESR, AUC of DAS28-CRP.*