Supplementary table 1a The predictive value of ΔPEG on achievement of remission in PsA patients (Logistic regression analyses)

	Women					Men					
	Odds ratios (95% CI) of patients achieving DAPSA28 remission compared between baseline ΔPEG quartiles										
DAPSA28 remission (≤4)	1st ΔPEG quartile (-100 to 0)	2 nd ΔPEG quartile (1 to 17)	3 rd ΔPEG quartile (18 to 38)	4 th ΔPEG quartile (39 to 100)	p value	1 st ΔPEG quartile (-100 to -1)	2 nd ΔPEG quartile (0 to 9)	3 rd ΔPEG quartile (10 to 30)	4 th ΔPEG quartile (31 to 100)	p value	
6 months	Ref. n=341	1.31 (0.90-1.90) n=328	0.56 (0.37-0.85) n=340	0.55 (0.36-0.83) n=374	<0.001	Ref. n=248	0.83 (0.59-1.17) n=337	0.61 (0.43-0.85) n=378	0.53 (0.37-0.76) n=336	0.001	
12 months	Ref. n=331	1.29 (0.89-1.86) n=275	0.63 (0.42-0.93) n=316	0.49 (0.33-0.73) n=341	<0.001	Ref. n=265	1.05 (0.74-1.48) n=302	0.74 (0.53-1.03) n=377	0.64 (0.45-0.91) n=321	0.01	
24 months	Ref. n=279	1.01 (0.68-1.49) n=233	0.61 (0.41-0.91) n=269	0.38 (0.25-0.59) n=287	<0.001	Ref. n=234	0.76 (0.52-1.10) n=246	0.48 (0.34-0.70) n=314	0.38 (0.26-0.56) n=265	<0.001	
		(Odds ratios (95% CI) o	f patients achieving D	AS28(4)CRI	remission compared	l between baseline ΔI	PEG quartiles			
DAS28(4)CRP remission (<2.6)	1 st ΔPEG quartile (-100 to 0)	2 nd ΔPEG quartile (1 to 17)	3 rd ΔPEG quartile (18 to 38)	4 th ΔPEG quartile (39 to 100)	p value	1 st ΔPEG quartile (-100 to -1)	2 nd ΔPEG quartile (0 to 9)	3 rd ΔPEG quartile (10 to 30)	4 th ΔPEG quartile (31 to 100)	p value	
6 months	Ref. n=380	0.95 (0.71-1.28) n=359	0.64 (0.47-0.86) n=356	0.56 (0.42-0.76) n=379	<0.001	Ref. n=271	1.32 (0.94-1.85) n=366	0.89 (0.64-1.23) n=397	0.85 (0.61-1.19) n=339	0.03	
12 months	Ref. n=362	1.06 (0.78-1.44) n=304	0.65 (0.48-0.88) n=329	0.51 (0.38-0.69) n=348	<0.001	Ref. n=286	1.16 (0.81-1.64) n=324	0.82 (0.59-1.13) n=397	1.01 (0.71-1.43) n=324	0.18	
24 months	Ref. n=299	0.98 (0.69-1.38) n=255	0.58 (0.42-0.81) n=281	0.40 (0.29-0.56) n=293	<0.001	Ref. n=251	1.03 (0.69-1.51) n=265	0.75 (0.52-1.07) n=327	0.59 (0.41-0.86) n=269	0.009	
		C	Odds ratios (95% CI) o	f patients achieving D	AS28(3)CRI	remission compared	l between baseline ΔI	PEG quartiles			
DAS28(3)CRP remission (<2.6)	1 st ΔPEG quartile (-100 to 0)	2 nd ΔPEG quartile (1 to 17)	3 rd ΔPEG quartile (18 to 38)	4 th ΔPEG quartile (39 to 100)	p value	1 st ΔPEG quartile (-100 to -1)	2 nd ΔPEG quartile (0 to 9)	3 rd ΔPEG quartile (10 to 30)	4 th ΔPEG quartile (31 to 100)	p value	
6 months	Ref. n=392	1.07 (0.80-1.42) n=362	0.84 (0.63-1.12) n=365	0.83 (0.63-1.11) n=385	0.25	Ref. n=276	1.25 (0.89-1.75) n=374	0.98 (0.71-1.36) n=404	1.16 (0.82-1.64) n=343	0.36	
12 months	Ref. n=382	1.12 (0.83-1.52) n=314	0.91 (0.68-1.23) n=343	0.78 (0.58-1.05) n=359	0.13	Ref. n=294	1.24 (0.87-1.76) n=330	1.01 (0.73-1.41) n=404	1.27 (0.89-0.81) n=330	0.36	
24 months	Ref. n=312	0.92 (0.66-1.30) n=263	0.67 (0.49-0.94) n=294	0.58 (0.42-0.81) n=301	0.003	Ref. n=257	0.90 (0.60-1.36) n=273	0.71 (0.49-1.04) n=341	0.85 (0.57-1.27) n=276	0.32	

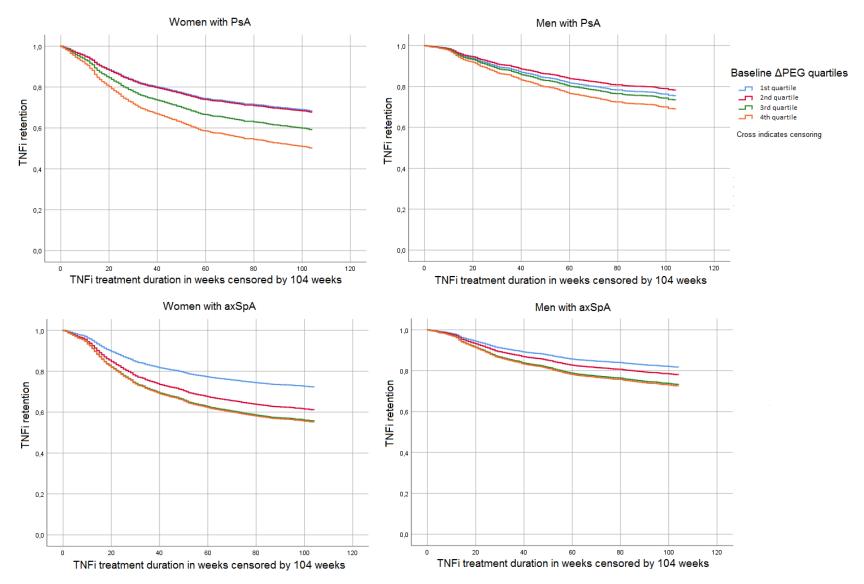
Data are displayed as OR (95% CI). Logistic regression analyses adjusted for age, time since diagnosis and current smoking. DAPSA28, Disease Activity index for Psoriatic Arthritis; DAS28(3)CRP, 28-joint disease activity score with CRP and 3 variables (excluding patient's global); TNFi, Tumor Necrosis Factor inhibitor

Supplementary table 1b The predictive value of ΔPEG on achievement of remission in axSpA patients (Logistic regression analyses)

Activity Index; ΔPEG, patient's minus evaluator's global assessment; TNFi, Tumor Necrosis Factor inhibitor

		Women					Men					
ASDAS<1.3		Odds ratios (95% CI) of patients achieving ASDAS<1.3 compared between baseline ΔPEG quartiles										
	1st ΔPEG quartile (-100 to 2)	2 nd ΔPEG quartile (3 to 20)	3 rd ΔPEG quartile (21 to 42)	4 th ΔPEG quartile (43 to 100)	p value	1st ΔPEG quartile (-100 to -1)	2 nd ΔPEG quartile (0 to 15)	3 rd ΔPEG quartile (16 to 37)	4 th ΔPEG quartile (38 to 100)	p value		
	Ref.	1.09 (0.71-1.69)	0.77 (0.49-1.20)	0.73 (0.49-1.09)		Ref.	1.12 (0.84-1.49)	0.80 (0.59-1.09)	0.82 (0.62-1.08)			
6 months	n=241	n=211	n=235	n=395	0.17	n=395	n=421	n=353	n=551	0.06		
	Ref.	0.85 (0.52-1.39)	0.95 (0.59-1.51)	0.60 (0.39-0.94)		Ref.	1.03 (0.76-1.41)	0.64 (0.46-0.89)	0.73 (0.54-0.98)			
12 months	n=202	n=163	n=196	n=323	0.10	n=347	n=367	n=334	n=457	0.005		
	Ref.	0.71 (0.42-1.20)	0.93 (0.57-1.52)	0.50 (0.30-0.82)		Ref.	0.93 (0.67-1.30)	0.78 (0.55-1.10)	0.57 (0.41-0.79)			
24 months	n=172	n=150	n=171	n=251	0.03	n=295	n=326	n=272	n=391	0.003		
		Odds ratios (95% CI) of patients achieving BASDAI<2 compared between baseline ΔPEG quartiles										
BASDAI<2	1 st ΔPEG quartile (-100 to 2)	2 nd ΔPEG quartile (3 to 20)	3 rd ΔPEG quartile (21 to 42)	4 th ΔPEG quartile (43 to 100)	p value	1 st ΔPEG quartile (-100 to -1)	2 nd ΔPEG quartile (0 to 15)	3 rd ΔPEG quartile (16 to 37)	4 th ΔPEG quartile (38 to 100)	p value		
	Ref.	0.62 (0.46-0.82)	0.47 (0.35-0.63)	0.53 (0.40-0.70)		Ref.	0.77 (0.62-0.96)	0.57 (0.46-0.71)	0.59 (0.47-0.73)			
6 months	n=411	n=400	n=439	n=549	<0.001	n=637	n=795	n=712	n=806	<0.001		
	Ref.	0.56 (0.41-0.75)	0.52 (0.38-0.70)	0.46 (0.35-0.62)		Ref.	0.79 (0.64-0.99)	0.52 (0.41-0.65)	0.53 (0.43-0.67)			
12 months	n=394	n=387	n=400	n=459	<0.001	n=616	n=757	n=696	n=751	<0.001		
24	Ref.	0.50 (0.36-0.69)	0.45 (0.32-0.62)	0.33 (0.24-0.47)		Ref.	0.87 (0.69-1.11)	0.52 (0.41-0.67)	0.51 (0.40-0652)			
24 months	n=313	n=326	n=338	n=363	<0.001	n=515	n=654	n=571	n=611	<0.001		
		C	Odds ratios (95% CI) o	of patients achieving I	BASDAI<2 aı	nd CRP<7mg/I compa	red between baseline	ΔPEG quartiles				
BASDAI<2 and CRP<7mg/I	1 st ΔPEG quartile (-100 to 2)	2 nd ΔPEG quartile (3 to 20)	3 rd ΔPEG quartile (21 to 42)	4 th ΔPEG quartile (43 to 100)	p value	1 st ΔPEG quartile (-100 to -1)	2 nd ΔPEG quartile (0 to 15)	3 rd ΔPEG quartile (16 to 37)	4 th ΔPEG quartile (38 to 100)	p value		
	Ref.	0.63 (0.46-0.86)	0.51 (0.37-0.70)	0.60 (0.44-0.80)		Ref.	0.92 (0.74-1.14)	0.60 (0.48-0.75)	0.69 (0.56-0.86)			
6 months	n=409	n=411	n=453	n=557	<0.001	n=643	n=797	n=717	n=802	<0.001		
	Ref.	0.59 (0.42-0.83)	0.67 (0.48-0.93)	0.57 (0.41-0.79)		Ref.	0.86 (0.69-1.08)	0.60 (0.48-0.76)	0.59 (0.47-0.74)			
12 months	n=395	n=398	n=411	n=460	0.002	n=619	n=756	n=704	n=741	<0.001		
	Ref.	0.58 (0.41-0.84)	0.65 (0.45-0.92)	0.48 (0.33-0.69)		Ref.	0.86 (0.68-1.10)	0.59 (0.46-0.75)	0.56 (0.43-0.72)			

Supplementary figure 1 TNFi retention rates across ΔPEG quartiles, adjusted for age, time since diagnosis and current smoking, censored by 104 weeks.



TNFi, tumor necrosis factor inhibitor; ΔPEG, patient's minus evaluator's global