

Supplementary table S1 Demographics and disease activity measures

		General population (n=2323)	RA (n=3898)	PsA (n=1515)	p-value
Age (years), mean (SD)		44.9 (16.5)	55.9 (31.6)	48.1 (12.6)	<0.001
Female, n/total (%)		1192/2323 (51.3)	2776/3886 (71.4)	759/1510 (50.3)	<0.001
Disease duration (years), median (25th, 75th percentile)		NA	1.9 (0.1, 11.0)	2.0 (0.1, 9.6)	0.97
28 tender joint count, median (25th, 75th percentile)	Baseline	NA	6 (3, 11)	4 (2, 8)	<0.001
	Baseline minus 3 months	NA	-2 (-6, 0)	-1 (-4, 1)	<0.001
	Baseline minus 6 months	NA	-3 (-7, 0)	-1 (-4, 0)	<0.001
28 swollen joint count, median (25th, 75th percentile)	Baseline	NA	6 (3, 10)	2 (1, 5)	<0.001
	Baseline minus 3 months	NA	-2 (-6, 0)	-1 (-3, 0)	<0.001
	Baseline minus 6 months	NA	-3 (-6, 0)	1 (-3.75, 0)	<0.001
Patient's global assessment, mean (SD)	Baseline	NA	49.7 (24.2)	51.0 (22.6)	0.05
	Baseline minus 3 months	NA	-14.6 (27.1)	-14.7 (23.3)	0.89
	Baseline minus 6 months	NA	-14.8 (27.5)	-16.6 (26.6)	0.08
Evaluator's global assessment, mean (SD)	Baseline	NA	39.6 (18.8)	33.5 (16.3)	<0.001
	Baseline minus 3 months	NA	-15.8 (20.5)	-13.6 (19.1)	0.001
	Baseline minus 6 months	NA	-18.9 (21.8)	-16.3 (19.8)	<0.001
DAS28, mean (SD)	Baseline	NA	4.9 (1.4)	4.2 (1.3)	<0.001
	Baseline minus 3 months	NA	-1.1 (1.5)	-0.9 (1.2)	<0.001
	Baseline minus 6 months	NA	-1.4 (1.5)	-1.2 (1.3)	<0.001
SDAI, mean (SD)	Baseline	NA	25.8 (13.8)	19.2 (10.4)	<0.001
	Baseline minus 3 months	NA	-10.1 (13.8)	-6.2 (11.4)	<0.001
	Baseline minus 6 months	NA	-12.1 (14.6)	-8.0 (10.4)	<0.001
CDAI, mean (SD)	Baseline	NA	23.5 (13.0)	17.6 (9.9)	<0.001
	Baseline minus 3 months	NA	-9.2 (12.9)	-5.7 (10.6)	<0.001
	Baseline minus 6 months	NA	-11.0 (13.6)	-7.3 (9.8)	<0.001

CDAI, clinical disease activity index; DAS28, 28-joint Disease Activity Score with erythrocyte sedimentation rate; NA, non-applicable; PsA, psoriatic arthritis; RA, rheumatoid arthritis; SDAI, simplified disease activity index

Supplementary table S2 Unadjusted means (ANOVA) and estimated marginal means (ANCOVA) adjusted for age and gender of SF-36 component summaries, norm-based scale scores and SF-6D utility scores at 3 and 6 months follow-up

3 months						
Component summary/ scale score	Unadjusted analyses, mean (SD)		p-value	Estimated marginal means (95%CI)		p-value
	RA	PsA		RA	PsA	
PCS	34.4 (11.1)	35.1 (10.8)	0.06	36.4 (36.0-36.8)	36.1 (35.5-36.8)	0.55
MCS	48.8 (10.8)	48.9 (11.2)	0.92	48.2 (47.8-48.6)	48.0 (47.4-48.6)	0.60
SF-6D	0.61 (0.10)	0.61 (0.20)	0.42	0.62 (0.61-0.62)	0.61 (0.60-0.62)	0.04
Physical Functioning	32.3 (14.9)	34.9 (14.1)	<0.001	33.4 (32.9-34.0)	34.5 (33.7-35.4)	0.03
Role Physical	37.1 (11.2)	38.2 (11.4)	0.003	37.5 (37.1-37.9)	38.1 (37.4-38.7)	0.16
Bodily Pain	39.2 (8.8)	38.8 (8.5)	0.13	39.6 (39.3-39.9)	38.7 (38.2-39.2)	0.003
General Health	39.0 (9.9)	38.5 (10.2)	0.16	39.3 (38.9-39.7)	38.5 (37.9-39.0)	0.02
Vitality	43.3 (10.6)	42.5 (10.4)	0.03	44.0 (43.6-44.4)	42.5 (41.9-43.1)	<0.001
Social Functioning	42.9 (11.8)	43.1 (11.8)	0.59	43.4 (43.0-43.9)	43.0 (42.3-43.7)	0.30
Role Emotional	42.8 (13.1)	44.2 (12.9)	0.002	42.9 (42.4-43.4)	43.9 (43.2-44.6)	0.03
Mental Health	46.9 (10.9)	46.9 (10.7)	0.89	47.4 (47.0-47.8)	46.8 (46.2-47.4)	0.15
6 months						
Component summary/ scale score	Unadjusted analyses, mean (SD)		p-value	Estimated marginal means (95%CI)		p-value
	RA	PsA		RA	PsA	
PCS	35.5 (11.2)	36.1 (10.8)	0.16	36.3 (35.9-36.8)	35.9 (35.2-36.6)	0.30
MCS	49.6 (10.6)	49.5 (10.7)	0.76	50.1 (49.6-50.5)	49.5 (48.8-50.1)	0.14
SF-6D	0.62 (0.10)	0.62 (0.10)	0.92	0.62 (0.62-0.63)	0.62 (0.61-0.63)	0.33
Physical Functioning	33.9 (15.0)	36.7 (13.6)	<0.001	35.1 (34.6-35.7)	36.3 (35.5-37.2)	0.03
Role Physical	38.6 (11.7)	39.7 (11.7)	0.01	39.2 (38.7-39.7)	39.5 (38.8-40.2)	0.50
Bodily Pain	40.1 (9.0)	39.7 (8.7)	0.14	40.6 (40.3-41.0)	39.6 (39.0-40.1)	0.001
General Health	39.6 (10.1)	38.7 (10.2)	0.02	39.9 (39.5-40.3)	38.6 (38.0-39.2)	0.001
Vitality	44.2 (10.8)	43.5 (11.1)	0.06	45.1 (44.7-45.5)	43.5 (42.8-44.1)	<0.001
Social Functioning	44.1 (11.5)	44.3 (11.2)	0.68	44.8 (44.4-45.3)	44.2 (43.5-44.9)	0.12
Role Emotional	43.8 (13.0)	45.0 (12.5)	0.007	44.1 (43.6-44.7)	44.8 (44.0-45.6)	0.16
Mental Health	47.8 (10.7)	47.7 (10.5)	0.78	48.4 (48.0-48.9)	47.6 (47.0-48.3)	0.05

PCS, Physical Component Summary; MCS, Mental Component Summary; PsA, psoriatic arthritis; RA, rheumatoid arthritis; SF-6D, short form-6 dimensions utility scores

Supplementary table S3 Unadjusted means (ANOVA analyses) and estimated marginal means (ANCOVA analyses) adjusted for age and gender (comparisons with the general population) and the respective 28-joint disease activity scores (comparisons between rheumatoid and psoriatic arthritis patients) of SF-36 component summaries, norm-based scale scores and SF-6D utility scores

Baseline								
Component summary/ scale score	Unadjusted analyses, mean (SD)			p-value	Estimated marginal means (95%CI)			p-value
	General population	RA	PsA		General population	RA	PsA	
PCS	50.0 (10.1)	29.7 (9.9)	30.5 (9.5)	<0.001 ^{1,2} 0.02 ³	49.7 (49.2-50.1)	30.6 (30.3-30.9)	28.8 (28.3-29.3)	<0.001 ^{1,2,3}
MCS	50.0 (10.2)	46.8 (11.3)	47.1 (11.4)	<0.001 ^{1,2} 0.59 ³	50.0 (49.5-50.5)	47.3 (46.9-47.7)	46.5 (45.9-47.1)	<0.001 ^{1,2} 0.04 ³
SF-6D	0.80 (0.14)	0.60 (0.12)	0.61 (0.12)	<0.001 ^{1,2} 0.17 ³	0.80 (0.80-0.81)	0.61 (0.61-0.61)	0.59 (0.58-0.59)	<0.001 ^{1,2,3}
Physical Functioning	49.4 (10.8)	27.7 (14.5)	30.5 (13.5)	<0.001 ^{1,2,3}	48.9 (48.3-49.4)	29.2 (28.7-29.6)	27.8 (27.1-28.5)	<0.001 ^{1,2} 0.001 ³
Role Physical	49.6 (10.3)	32.9 (9.1)	34.0 (9.9)	<0.001 ^{1,2} 0.001 ³	49.4 (49.0-49.8)	33.5 (33.2-33.8)	32.9 (32.4-33.4)	<0.001 ^{1,2} 0.04 ³
Bodily Pain	49.6 (10.3)	33.5 (7.5)	33.6 (7.2)	<0.001 ^{1,2} 0.96 ³	49.4 (49.1-49.8)	34.0 (33.8-34.2)	32.3 (32.0-32.7)	<0.001 ^{1,2,3}
General Health	49.6 (10.3)	37.5 (9.5)	36.8 (9.7)	<0.001 ^{1,2} 0.02 ³	49.5 (49.0-49.9)	38.0 (37.6-38.3)	36.0 (35.5-36.5)	<0.001 ^{1,2,3}
Vitality	49.8 (10.3)	39.6 (10.1)	39.3 (10.3)	<0.001 ^{1,2} 0.69 ³	49.9 (49.5-50.3)	40.7 (40.4-41.0)	38.5 (38.0-39.0)	<0.001 ^{1,2,3}
Social Functioning	49.5 (10.5)	39.1 (12.6)	39.5 (12.3)	<0.001 ^{1,2} 0.59 ³	49.4 (48.9-49.9)	40.1 (39.6-40.5)	38.1 (37.4-38.7)	<0.001 ^{1,2,3}
Role Emotional	49.8 (10.2)	40.2 (13.6)	41.6 (13.6)	<0.001 ^{1,2} 0.002 ³	49.5 (49.0-50.0)	40.7 (40.2-41.2)	40.4 (39.6-41.1)	<0.001 ^{1,2} 0.48 ³
Mental Health	49.8 (10.3)	44.3 (11.5)	44.7 (11.1)	<0.001 ^{1,2} 0.63 ³	49.8 (49.4-50.3)	45.1 (44.7-45.5)	43.9 (43.3-44.6)	<0.001 ^{1,2} 0.003 ³
3 months								
Component summary/ domain score	Unadjusted analyses, mean (SD)		p-value	Estimated marginal means (95%CI)		p-value		
	RA	PsA		RA	PsA			
PCS	34.4 (11.1)	35.1 (10.8)	0.06	35.0 (34.7-35.4)	33.4 (32.8-34.0)	<0.001		
MCS	48.8 (10.8)	48.9 (11.2)	0.92	49.0 (48.5-49.4)	48.7 (48.0-49.4)	0.48		
SF-6D	0.61 (0.10)	0.61 (0.20)	0.42	0.62 (0.61-0.62)	0.60 (0.59-0.61)	<0.001		
Physical Functioning	32.3 (14.9)	34.9 (14.1)	<0.001	33.3 (32.8-33.8)	32.7 (31.9-33.5)	0.19		
Role Physical	37.1 (11.2)	38.2 (11.4)	0.003	37.5 (37.1-37.9)	37.1 (36.5-37.8)	0.35		
Bodily Pain	39.2 (8.8)	38.8 (8.5)	0.13	39.6 (39.3-39.9)	37.6 (37.2-38.0)	<0.001		
General Health	39.0 (9.9)	38.5 (10.2)	0.16	39.3 (38.9-39.7)	37.6 (37.0-38.1)	<0.001		
Vitality	43.3 (10.6)	42.5 (10.4)	0.03	43.9 (43.5-44.3)	41.8 (41.2-42.4)	<0.001		
Social Functioning	42.9 (11.8)	43.1 (11.8)	0.59	43.3 (42.9-43.8)	42.2 (41.5-42.9)	0.007		

Role Emotional	42.8 (13.1)	44.2 (12.9)	0.002	43.0 (42.5-43.5)	43.5 (42.7-44.2)	0.31
Mental Health	46.9 (10.9)	46.9 (10.7)	0.89	47.4 (46.9-47.8)	46.4 (45.7-47.0)	0.01
6 months						
Component summary/ scale score	Unadjusted analyses, mean (SD)		p-value	Estimated marginal means (95%CI)		p-value
	RA	PsA		RA	PsA	
PCS	35.5 (11.2)	36.1 (10.8)	0.16	36.2 (35.8-36.6)	34.8 (34.2-35.5)	<0.001
MCS	49.6 (10.6)	49.5 (10.7)	0.76	50.0 (49.6-50.5)	49.2 (48.5-49.9)	0.05
SF-6D	0.62 (0.10)	0.62 (0.10)	0.92	0.62 (0.62-0.63)	0.61 (0.60-0.62)	0.006
Physical Functioning	33.9 (15.0)	36.7 (13.6)	<0.001	34.9 (34.4-35.5)	34.9 (34.1-35.8)	0.99
Role Physical	38.6 (11.7)	39.7 (11.7)	0.01	39.1 (38.7-39.6)	38.7 (38.0-39.4)	0.31
Bodily Pain	40.1 (9.0)	39.7 (8.7)	0.14	40.5 (40.2-40.8)	38.8 (38.3-39.3)	<0.001
General Health	39.6 (10.1)	38.7 (10.2)	0.02	39.9 (39.5-40.3)	38.0 (37.3-38.6)	<0.001
Vitality	44.2 (10.8)	43.5 (11.1)	0.06	45.1 (44.7-45.5)	42.8 (42.2-43.5)	<0.001
Social Functioning	44.1 (11.5)	44.3 (11.2)	0.68	44.7 (44.3-45.2)	43.4 (42.7-44.1)	0.003
Role Emotional	43.8 (13.0)	45.0 (12.5)	0.007	44.0 (43.4-44.5)	44.3 (43.5-45.1)	0.48
Mental Health	47.8 (10.7)	47.7 (10.5)	0.78	48.4 (48.0-48.9)	47.1 (46.4-47.8)	0.002

¹General population - RA; ²General population - PsA; ³RA - PsA. MCS, mental component summary; PCS, physical component summary; PsA, psoriatic arthritis; RA, rheumatoid arthritis; SF-6D, short form-6 dimensions utility scores