Table 1 Retention and remission rates of first TNFi in psoriatic arthritis and axial spondyloarthritis patients

				Psoriatio	arthritis p	atients (n=5855)				
			Men (n=2867)							
	Retention rates (%, 95%CI) of first TNFi compared across baseline ΔPEG quartiles									
	1 st ΔPEG quartile	2 nd ∆PEG quartile	3 rd ΔPEG quartile	4 th ΔPEG quartile		1 st ∆PEG quartile	2 nd ∆PEG quartile	3 rd ΔPEG quartile	4 th ΔPEG quartile	
TNFi retention	(-100 to 0)	(1 to 17)	(18 to 38)	(39 to 100)	p value	(-100 to -1)	(0 to 9)	(10 to 30)	(31 to 100)	p value
rates	(n=815)	(n=694)	(n=739)	(n=740)		(n=648)	(n=683)	(n=865)	(n=671)	
6 months	87% (85-90%)	85% (82-88%)	81% (78-84%)	74% (71-77%)	<0.001	93% (91-95%)	93% (91-95%)	92% (90-93%)	86% (83-89%)	<0.001
	n=815	n=694	n=739	n=740		n=648	n=683	n=865	n=671	
12 months	79% (76-82%)	76% (73-79%)	70% (67-74%)	61% (57-65%)	<0.001	88% (85-90%)	86% (84-89%)	83% (80-85%)	78% (75-81%)	<0.001
	n=815	n=694	n=739	n=740		n=648	n=683	n=865	n=671	
24 months	69% (66-72%)	69% (65-72%)	61% (57-65%)	52% (48-56%)	<0.001	77% (74-81%)	79% (76-82%)	74% (71-78%)	69% (66-73%)	<0.001
	n=815	n=694	n=739	n=740		n=648	n=683	n=865	n=671	
			Proportions, % (95%	CI), of patients achiev	ing DAPSA28	remission compared	across baseline ΔPEG	quartiles		
DAPSA28	1 st ΔPEG quartile	2 nd ΔPEG quartile	3 rd ΔPEG quartile	4 th ΔPEG quartile	p value	1 st ∆PEG quartile	2 nd ∆PEG quartile	3 rd ΔPEG quartile	4 th ΔPEG quartile	p value
remission (≤4)	(-100 to 0)	(1 to 17)	(18 to 38)	(39 to 100)	p value	(-100 to -1)	(0 to 9)	(10 to 30)	(31 to 100)	p value
6 months	21% (17-25%)	24% (19-28%)	12% (9-15%)	12% (9-15%)	<0.001	42% (37-47%)	38% (33-42%)	30% (26-34%)	27% (23-32%)	<0.001
6 months	n=420	n=413	n=432	n=457		n=339	n=399	n=465	n=412	<0.001
12 months	23% (18-27%)	27% (22-32%)	16% (13-20%)	14% (11-17%)	<0.001	41% (36-46%)	40% (35-45%)	34% (29-38%)	29% (25-34%)	0.002
	n=391	n=352	n=393	n=400		n=333	n=359	n=455	n=383	0.002
24 th -	27% (23-32%)	27% (22-32%)	19% (15-23%)	13% (9-17%)	<0.001	46% (40-51%)	42% (36-48%)	33% (28-37%)	28% (23-33%)	10.001
24 months	n=325	n=290	n=328	n=329		n=295	n=300	n=382	n=309	<0.001
			Proportions, % (95%C), of patients achievin	g DAS28(4)CF	RP remission compare	ed across baseline ΔP	EG quartiles		
DAS28(4)CRP	1 st ΔPEG quartile	2 nd ∆PEG quartile	3 rd ΔPEG quartile	4 th ΔPEG quartile		1 st ΔPEG quartile	2 nd ΔPEG quartile	3 rd ΔPEG quartile	4 th ΔPEG quartile	
remission (<2.6)	(-100 to 0)	(1 to 17)	(18 to 38)	(39 to 100)	p value	(-100 to -1)	(0 to 9)	(10 to 30)	(31 to 100)	p value
6 months	51% (47-56%)	48% (44-53%)	39% (34-43%)	36% (32-41%)	<0.001	63% (58-68%)	67% (63-71%)	59% (55-63%)	59% (54-63%)	0.04
	n=492	n=464	n=460	n=465		n=378	n=458	n=506	n=419	0.04
12 months	53% (48-57%)	53% (48-58%)	43% (38-47%)	38% (33-43%)	<0.001	68% (58-68%)	69% (63-71%)	63% (55-63%)	65% (54-63%)	0.21

	n=449	n=397	n=419	n=409		n=370	n=404	n=492	n=389		
24 months	58% (53-63%)	58% (52-63%)	47% (42-53%)	37% (32-43%)	<0.001	69% (64-74%)	72% (67-77%)	64% (59-69%)	60% (55-66%)		
	n=358	n=323	n=349	n=337		n=324	n=330	n=408	n=316	0.007	
			Proportions, % (95%C), of patients achievin	g DAS28(3)C	RP remission compare	ed across baseline ΔP	EG quartiles			
DAS28(3)CRP	1 st ΔPEG quartile	2 nd ΔPEG quartile	3 rd ΔPEG quartile	4 th ΔPEG quartile		1 st ∆PEG quartile	2 nd ∆PEG quartile	3 rd ΔPEG quartile	4 th ΔPEG quartile		
remission (<2.6)	(-100 to 0)	(1 to 17)	(18 to 38)	(39 to 100)	p value	(-100 to -1)	(0 to 9)	(10 to 30)	(31 to 100)	p value	
6 months	52% (48-57%)	53% (48-57%)	47% (43-52%)	48% (43-52%)	0.10	65% (60-70%)	69% (64-73%)	64% (60-68%)	68% (64-73%)	0.28	
6 months	n=507	n=469	n=469	n=472	0.19	n=386	n=467	n=517	n=426		
	54% (50-59%)	57% (52-61%)	53% (48-57%)	50% (45-55%)		70% (66-75%)	72% (67-76%)	69% (65-73%)	72% (68-76%)		
12 months 24 months	n=471	n=409	n=435	n=420	0.30	n=381	n=411	n=503	n=396	0.77	
	61% (56-66%)	60% (55-65%)	55% (50-60%)	52% (46-57%)		74% (69-79%)	76% (71-80%)	70% (66-74%)	73% (69-78%)		
24 months	n=374	n=336	n=367	n=347	0.04	n=331	n=341	n=425	n=323	0.32	
			Axi	al spondyloarthri	tis patient	s (n=9013)					
		W	/omen (n=3639)			Men (n=5374)					
			Retent	ion rates of first TNFi ((%, 95%CI) co	mpared across baseli	ne ΔPEG quartiles				
	1 st ΔPEG quartile	2 nd ∆PEG quartile	3 rd ΔPEG quartile	4 th ΔPEG quartile		1 st ∆PEG quartile	2 nd ∆PEG quartile	3 rd ΔPEG quartile	4 th ΔPEG quartile		
	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	
NFi retention rates	•	•	•	•	p value	•	•	•	•	p value	
	(-100 to 2)	(3 to 20)	(21 to 42)	(43 to 100)		(-100 to -1)	(0 to 15)	(16 to 37)	(38 to 100)		
INFi retention rates	(-100 to 2) (n=908)	(3 to 20) (n=915)	(21 to 42) (n=907)	(43 to 100) (n=909)	p value <0.001	(-100 to -1) (n=1220)	(0 to 15) (n=1487)	(16 to 37) n=1338)	(38 to 100) (n=1329)	p value	
months	(-100 to 2) (n=908) 88% (86-90%)	(3 to 20) (n=915) 84% (82-87%)	(21 to 42) (n=907) 78% (75-81%)	(43 to 100) (n=909) 76% (73-79%)	<0.001	(-100 to -1) (n=1220) 94% (92-95%)	(0 to 15) (n=1487) 91% (89-92%)	(16 to 37) n=1338) 89% (88-91%)	(38 to 100) (n=1329) 87% (85-89%)	<0.001	
	(-100 to 2) (n=908) 88% (86-90%) n=908	(3 to 20) (n=915) 84% (82-87%) n=915	(21 to 42) (n=907) 78% (75-81%) n=907	(43 to 100) (n=909) 76% (73-79%) n=909		(-100 to -1) (n=1220) 94% (92-95%) n=1220	(0 to 15) (n=1487) 91% (89-92%) n=1487	(16 to 37) n=1338) 89% (88-91%) n=1338	(38 to 100) (n=1329) 87% (85-89%) n=1329		
months 2 months	(-100 to 2) (n=908) 88% (86-90%) n=908 81% (78-84%)	(3 to 20) (n=915) 84% (82-87%) n=915 74% (71-77%)	(21 to 42) (n=907) 78% (75-81%) n=907 67% (64-70%)	(43 to 100) (n=909) 76% (73-79%) n=909 64% (61-68%)	<0.001	(-100 to -1) (n=1220) 94% (92-95%) n=1220 88% (86-90%)	(0 to 15) (n=1487) 91% (89-92%) n=1487 86% (84-88%)	(16 to 37) n=1338) 89% (88-91%) n=1338 83% (81-85%)	(38 to 100) (n=1329) 87% (85-89%) n=1329 79% (77-82%)	<0.001	
months	(-100 to 2) (n=908) 88% (86-90%) n=908 81% (78-84%) n=908	(3 to 20) (n=915) 84% (82-87%) n=915 74% (71-77%) n=915	(21 to 42) (n=907) 78% (75-81%) n=907 67% (64-70%) n=907	(43 to 100) (n=909) 76% (73-79%) n=909 64% (61-68%) n=909	<0.001	(-100 to -1) (n=1220) 94% (92-95%) n=1220 88% (86-90%) n=1220	(0 to 15) (n=1487) 91% (89-92%) n=1487 86% (84-88%) n=1487	(16 to 37) n=1338) 89% (88-91%) n=1338 83% (81-85%) n=1338	(38 to 100) (n=1329) 87% (85-89%) n=1329 79% (77-82%) n=1329	<0.001	
months 2 months	(-100 to 2) (n=908) 88% (86-90%) n=908 81% (78-84%) n=908 75% (72-78%)	(3 to 20) (n=915) 84% (82-87%) n=915 74% (71-77%) n=915 64% (61-67%)	(21 to 42) (n=907) 78% (75-81%) n=907 67% (64-70%) n=907 60% (57-64%) n=907	(43 to 100) (n=909) 76% (73-79%) n=909 64% (61-68%) n=909 55% (52-59%)	<0.001 <0.001 <0.001	(-100 to -1) (n=1220) 94% (92-95%) n=1220 88% (86-90%) n=1220 83% (81-86%) n=1220	(0 to 15) (n=1487) 91% (89-92%) n=1487 86% (84-88%) n=1487 80% (77-82%) n=1487	(16 to 37) n=1338) 89% (88-91%) n=1338 83% (81-85%) n=1338 75% (72-77%) n=1338	(38 to 100) (n=1329) 87% (85-89%) n=1329 79% (77-82%) n=1329 72% (69-75%)	<0.001	
months 2 months	(-100 to 2) (n=908) 88% (86-90%) n=908 81% (78-84%) n=908 75% (72-78%)	(3 to 20) (n=915) 84% (82-87%) n=915 74% (71-77%) n=915 64% (61-67%)	(21 to 42) (n=907) 78% (75-81%) n=907 67% (64-70%) n=907 60% (57-64%) n=907	(43 to 100) (n=909) 76% (73-79%) n=909 64% (61-68%) n=909 55% (52-59%) n=909	<0.001 <0.001 <0.001 hieving ASD	(-100 to -1) (n=1220) 94% (92-95%) n=1220 88% (86-90%) n=1220 83% (81-86%) n=1220	(0 to 15) (n=1487) 91% (89-92%) n=1487 86% (84-88%) n=1487 80% (77-82%) n=1487	(16 to 37) n=1338) 89% (88-91%) n=1338 83% (81-85%) n=1338 75% (72-77%) n=1338	(38 to 100) (n=1329) 87% (85-89%) n=1329 79% (77-82%) n=1329 72% (69-75%)	<0.001 <0.001 <0.001	
months 2 months	(-100 to 2) (n=908) 88% (86-90%) n=908 81% (78-84%) n=908 75% (72-78%) n=908	(3 to 20) (n=915) 84% (82-87%) n=915 74% (71-77%) n=915 64% (61-67%) n=915	(21 to 42) (n=907) 78% (75-81%) n=907 67% (64-70%) n=907 60% (57-64%) n=907 Proportions, %	(43 to 100) (n=909) 76% (73-79%) n=909 64% (61-68%) n=909 55% (52-59%) n=909	<0.001 <0.001 <0.001	(-100 to -1) (n=1220) 94% (92-95%) n=1220 88% (86-90%) n=1220 83% (81-86%) n=1220 AS<1.3 compared across	(0 to 15) (n=1487) 91% (89-92%) n=1487 86% (84-88%) n=1487 80% (77-82%) n=1487 oss baseline ΔPEG qua	(16 to 37) n=1338) 89% (88-91%) n=1338 83% (81-85%) n=1338 75% (72-77%) n=1338	(38 to 100) (n=1329) 87% (85-89%) n=1329 79% (77-82%) n=1329 72% (69-75%) n=1329	<0.001	

	n=313	n=293	n=289	n=449		n=507	n=527	n=446	n=625			
	27% (22-33%)	23% (18-29%)	23% (18-29%)	15% (12-19%)	0.002	41% (37-46%)	41% (37-46%)	33% (28-37%)	31% (27-35%)	0.004		
12 months	n=266	n=221	n=233	n=370		n=427	n=458	n=403	n=508	0.001		
24 months	29% (23-35%)	24% 18-30%)	27% (21-33%)	16% (11-20%)	0.002	45% (40-50%)	41% (36-45%)	39% (33- 44%)	31% (27-35%)	0.001		
	n=225	n=197	n=205	n=284		n=369	n=406	n=335	n=444			
	Proportions, % (95%CI), of patients achieving BASDAI<2 compared across baseline ΔPEG quartiles											
	1 st ΔPEG quartile	2 nd ∆PEG quartile	3 rd ΔPEG quartile	4 th ΔPEG quartile	P value	1 st ∆PEG quartile	2 nd ΔPEG quartile	3 rd ΔPEG quartile	4 th ΔPEG quartile			
BASDAI<2	(-100 to 2)	(3 to 20)	(21 to 42)	(43 to 100)		(-100 to -1)	(0 to 15)	(16 to 37)	(38 to 100)	p value		
6 months	44% (39-89%)	31% (28-35%)	27% (23-31%)	26% (22-29%)		57% (54-61%)	50% (47-53%)	44% (41-47%)	40% (37-43%)	<0.001		
6 months	n=517	n=525	n=535	n=625	<0.001	n=796	n=955	n=866	n=921	<0.001		
12 months	45% (41-50%)	32% (27-36%)	29% (24-33%)	24% (21-28%)		59% (55-62%)	51% (48-55%)	44% (40-47%)	41% (38-44%)	<0.001		
12 months	n=487	n=479	n=471	n=522	<0.001	n=734	n=892	n=812	n=833	<0.001		
24 months	48% (43-53%)	33% (28-38%)	30% (25-34%)	21% (17-25%)		60% (56-63%)	54% (50-57%)	44% (40-47%)	40% (37-44%)	<0.001		
24 1110111113	n=385	n=395	n=386	n=406	<0.001	n=621	n=759	n=665	n=686	<0.001		
	Proportions, % (95%CI), of patients achieving BASDAI<2 and CRP<7mg/I compared across baseline ΔPEG quartiles											
BASDAI<2 and	1 st ΔPEG quartile	2 nd ∆PEG quartile	3 rd ΔPEG quartile	4 th ΔPEG quartile	P value	1st ∆PEG quartile	2 nd ∆PEG quartile	3 rd ΔPEG quartile	4 th ΔPEG quartile			
CRP<7mg/I	(-100 to 2)	(3 to 20)	(21 to 42)	(43 to 100)		(-100 to -1)	(0 to 15)	(16 to 37)	(38 to 100)	p value		
6 months	33% (29-37%)	23% (20-27%)	21% (18-24%)	20% (17-23%)		43% (40-47%)	40% (37-44%)	33% (30-36%)	32% (29-35%)	<0.001		
o months	n=527	n=541	n=557	n=641	<0.001	n=822	n=973	n=885	n=927	<0.001		
12 months	31% (26-35%)	21% (18-25%)	21% (17-24%)	17% (14-20%)		45% (42-49%)	39% (36-43%)	35% (32-38%)	31% (28-34%)	<0.001		
12 1110111113	n=496	n=500	n=488	n=529	<0.001	n=752	n=905	n=824	n=828	<0.001		
24 months	32% (28-37%)	23% (19-27%)	24% (19-28%)	16% (13-20%)		46% (42-50%)	41% (38-44%)	33% (29-36%)	31% (28-35%)	<0.001		
24 months	n=404	n=408	n=394	n=415	<0.001	n=626	n=772	n=672	n=681	₹0.001		

p-values retention rates: Kaplan-Meier analyses with log-rank test; p-values remission rates: Chi-Square test; n, numbers available; ASDAS, Ankylosing Spondylitis Disease Activity Score; BASDAI, Bath Ankylosing Spondylitis Disease Activity Index; DAS28(3)CRP, 28-joint disease activity score with CRP and 3 variables (excluding patient's global); DAS28(4)CRP, 28-joint disease activity score with CRP and 4 variables (including patient's global); ΔPEG, patient's minus evaluator's global assessment; TNFi, tumor necrosis factor inhibitor.