

Supplement 8

Sensitivity to diagnosis PsA vs PsO or PsO vs OA according to DCE-MRI flow outcomes and ultrasound flow and scaled measurement outcomes.

		AUC (CI 95%)	Cut-off value	Above cut-off	Above cut-off	AUC (CI 95%)	Cut-off value	Above cut-off	Above cut-off
		PsA vs. PsO	Full group	PsA	PsO	PsA vs OA	Full group	PsA	OA
			(n=244)	(n=200)	(n=44)	(n=252)	(n=252)	(n=200)	(n=52)
DCE-MRI	Flow ME*nVOXEL	0.59 (0.47 to 0.68)	426.65	168 (86 %)^	33 (69 %)	0.55 (0.47 to 0.63)	1034.55	84 (43 %)^	11 (21 %)
	Flow IRE*nVOXEL	0.41 (0.29 to 0.52)	2.56	146 (83 %)*	27 (77 %)§	0.65 (0.56 to 0.74)	3.93	127 (72 %)*	19 (40 %)§
Ultrasound	Extensor tendon thickness (mm)	0.49 (0.39 to 0.58)	0.55	172 (86 %)	35 (73 %)	0.48 (0.39 to 0.56)	0.85	23 (12 %)	4 (8%)
	Flexor tendon thickness (mm)	0.46 (0.38 to 0.54)	0.95	60 (30 %)	10 (23 %)	0.44 (0.36 to 0.53)	1.45	5 (3 %)	0
	Nail bed thickness (mm)	0.40 (0.31 to 0.49)	2.15	37 (19 %)	8 (18 %)	0.52 (0.43 to 0.61)	1.25	175 (88 %)	40 (77 %)
	Nail matrix thickness (mm)	0.52 (0.43 to 0.62)	1.65	154 (77 %)	30 (68 %)	0.44 (0.36 to 0.53)	2.75	22 (11 %)	1 (2 %)
	Nail thickness (mm)	0.53 (0.42 to 0.63)	0.65	67 (34 %)	12 (27 %)	0.53 (0.44 to 0.61)	0.65	67 (34 %)	13 (25 %)
	Doppler max ratio	0.42 (0.33 to 0.52)	0.837	3 (2 %)‡	0	0.50 (0.41 to 0.60)	0.106	160 (83 %)‡	39 (75 %)
	Doppler min ratio	0.42 (0.32 to 0.51)	0.488	7 (4 %)‡	1 (2 %)	0.57 (0.48 to 0.66)	0.022	132 (68 %)‡	25 (48 %)

Abbreviations: DCE-MRI: Dynamic contrast-enhanced magnetic resonance imaging. ME: Maximum enhancement. IRE: Initial rate of enhancement. AUC: Area under the curve. PsA: psoriatic arthritis. PsO: psoriasis. OA: Hand osteoarthritis. Missing: ^: n=4. *: n=24. §: n=9. #: n=4. ‡: n=6.

Table 3: Indeholder table 7 fra SAP

	PsA (n=200*)	PsO (n=44*)	OA (n=52*)	Healthy (n=124*)	
US-synovitis. n (%)					
0	119 (59.5%)	31 (64.6 %)	20 (39.5 %)	96 (77.4 %)	
1	71 (35.5 %)	11 (22.9 %)	16 (30.8 %)	28 (22.6 %)	
2	10 (5 %)	1 (2.1 %)	14 (26.9 %)	0	
3	0	1 (2.1 %)	2 (3.8 %)	0	
US-Doppler. n (%)					
0	196 (98.0 %)	44 (100.0 %)	48 (92.3 %)	124 (100.0 %)	
1	2 (1.0 %)	0	3 (5.8 %)	0	
2	2 (1.0 %)	0	1 (1.9 %)	0	
3	0	0	0	0	
US-Erosions. n (%)					
0	178 (89.0 %)	42 (95.5 %)	47 (90.4 %)	124 (100.0 %)	
1	16 (8.0 %)	2 (4.5 %)	3 (5.8 %)	0	
2	5 (2.5 %)	0	1 (1.9 %)	0	
3	1 (0.5 %)	0	1 (1.9 %)	0	
US-Osteophytes. n (%)					
0	114 (57 %)	31 (70.5 %)	6 (11.5 %)	119 (96 %)	
1	72 (36.9 %)	12 (27.3 %)	21 (40.4 %)	5 (4.0 %)	
2	11 (5.5 %)	1 (2.2 %)	20 (38.5 %)	0	
3	3 (1.5 %)	0	5 (9.6 %)	0	
US-AJS score. n (%)					
0	118 (59.0 %)	31 (70.4 %)	19 (36.5 %)	96 (77.4 %)	
1	69 (34.5 %)	11 (25.0 %)	16 (30.8 %)	28 (22.6 %)	
2	12 (6.0 %)	1 (2.3 %)	13 (25.0 %)	0	
3	0	1 (2.3 %)	3 (5.8 %)	0	
4	1 (0.5 %)	0	1 (1.9 %)	0	
5	0	0	0	0	

6	0	0	0	0	
US-CJS score. n (%)					
0	109 (54.5 %)	30 (68.2 %)	6 (11.5 %)	119 (96.0 %)	
1	68 (34.0 %)	12 (27.3 %)	18 (34.6 %)	5 (4.0 %)	
2	11 (5.5 %)	2 (4.5 %)	20 (38.6 %)	0	
3	8 (4.0 %)	0	6 (11.5 %)	0	
4	3 (1.5 %)	0	2 (3.8 %)	0	
5	0	0	0	0	
6	1 (0.5 %)	0	0	0	
*number of joints – 4 per participant					

Table 3a

	PsA mean (SE)	Diagnosis	Mean (SE)	Mean difference, mm	CI 95 %	P-value
US Ext. tendon thickness, mm	0,669 (0,013)	OA	0,673 (0,025)	-0,004	-0,059 to 0,051	0,88
		PsO	0,682 (0,027)	-0,013	-0,072 to 0,056	0,67
		Healthy	0,567 (0,016)	0,102	0,062 to 0,142	<0,001
US Flex. Tendon thickness, mm	0,846 (0,022)	OA	0,888 (0,043)	-0,042	-0,138 to 0,054	0,39
		PsO	0,871 (0,047)	-0,025	-0,128 to 0,079	0,64
		Healthy	0,746 (0,029)	0,101	0,029 to 0,173	0,007
US nail matrix thickness, mm	2,061 (0,055)	OA	2,119 (0,107)	-0,058	-0,297 to 0,181	0,630
		PsO	2,016 (0,117)	0,045	-0,211 to 0,301	0,727
		Healthy	1,871 (0,070)	0,190	0,014 to 0,366	0,034
US nail bed thickness, mm	1,769 (0,051)	OA	1,704 (0,1)	0,065	-0,157 to 0,287	0,565
		PsO	1,964 (0,108)	-0,195	-0,432 to 0,042	0,106
		Healthy	1,723 (0,065)	0,045	-0,118 to 0,208	0,584
US nail thickness, mm	0,631 (0,014)	OA	0,612 (0,027)	0,019	-0,041 to 0,080	0,523
		PsO	0,673 (0,029)	-0,042	-0,106 to 0,023	0,202
		Healthy	0,521 (0,018)	0,110	0,066 to 0,154	<0,001
US flow Max ratio	0,329 (0,024)	OA	0,338 (0,047)	-0,009	-0,113 to 0,095	0,863
		PsO	0,389 (0,051)	-0,060	-0,172 to 0,051	0,287
		Healthy	0,325 (0,03)	0,004	-0,073 to 0,081	0,917
US flow Min ratio	0,148 (0,017)	OA	0,121 (0,034)	0,027	-0,048 to 0,102	0,481
		PsO	0,196 (0,037)	-0,049	-0,129 to 0,032	0,231
		Healthy	0,147 (0,022)	0,00	-0,055 to 0,056	0,987