Supplemental material

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RMD Open

Prediction of histology by B- and PD-mode ultrasound across different joint locations and diseases

Supplement

Supplementary Table S1: Multivariate linear regression analysis for the prediction of total Krenn score and vascularisation based on either B- or PD-mode US score with the addition of age, sex, disease and joint location as covariables.

Predictors	Krenn total			Vascularisation		
	Estimates	*CI*	*p*	*Estimates*	*CI*	*p*
B-mode US	1.96	1.04 – 2.88	**<0.001**			
PD-mode US				3.85	2.16 – 5.54	**<0.001**
Age	0.03	-0.02 – 0.07	0.209	0.05	-0.05 – 0.14	0.339
Sex [Female]	-0.19	-1.44 – 1.05	0.751	-0.95	-3.75 – 1.85	0.490
Disease [PsA]	0.18	-1.14 – 1.50	0.781	3.27	0.19 – 6.36	**0.039**
Disease [SpA]	-0.01	-2.04 – 2.02	0.995	0.16	-4.38 – 4.69	0.943
Disease [UA]	0.68	-0.95 – 2.30	0.398	2.26	-1.77 – 6.28	0.257
Location [MCP]	0.45	-1.41 – 2.31	0.620	-0.42	-5.14 – 4.30	0.855
Location [MTP]	1.09	-2.11 – 4.29	0.486	0.51	-7.45 – 8.46	0.896
Location [SC]	-1.35	-4.97 – 2.26	0.446	0.15	-7.69 – 7.98	0.969
Location [Wrist]	-0.27	-1.52 – 0.98	0.664	-0.66	-3.52 – 2.20	0.638
Observations	33			33		
R^2 / R^2 adjusted	0.604 / 0.425			0.694 / 0.555		

MCP = metacarpophalangeal joint, MTP = metatarsophalangeal joint, PsA = psoriatic arthritis, RA = rheumatoid arthritis, SC = sternoclavicular joint, SpA = spondyloarthritis, UA = undifferentiated arthritis, US = Ultrasound.