

Supplementary Table S1: Correlation Between JADAS-71, 27 and 10 and JADAS3-71, 27 and 10 Across Individual ILAR Subtypes

	N	Correlation of JADAS-71 and JADAS-27	Correlation of JADAS-71 and JADAS-10	Correlation of JADAS-27 and JADAS-10	N	Correlation of JADAS3-71 and JADAS3-27	Correlation of JADAS3-71 and JADAS3-10	Correlation of JADAS3-27 and JADAS3-10
Whole Cohort	352	1.0	0.99	0.99	551	0.99	1.0	0.99
Systemic onset	28	0.99	0.98	0.98	31	0.97	1.0	0.97
Persistent oligoarthritis	164	1.0	1.0	1.0	274	1.0	1.0	1.0
Extended oligoarthritis	13	0.98	0.97	0.97	18	0.97	0.98	0.97
RF- polyarthritis	67	0.98	0.87	0.90	103	0.99	0.88	0.89

RF+ polyarthritis	11	0.97	0.90	0.95	14	0.99	0.97	0.98
Enthesitis related arthritis	16	0.99	0.99	0.99	37	0.94	0.98	0.92
Psoriatic arthritis	28	0.98	0.99	0.98	40	0.98	0.99	0.97
Undifferentiated arthritis	25	0.99	0.99	0.98	34	0.99	0.99	0.98

Supplementary Table S2: JADAS3 Values (Median, IQR) and Correlation With Individual Variables at First Presentation to Paediatric Rheumatology in All Patients with Sufficient Data Available

	Whole Cohort	Systemic	Persistent Oligoarthritis	Extended Oligoarthritis	RF (-) Polyarthritis	RF (+) Polyarthritis	Enthesitis Related	Psoriatic Arthritis	Undifferentiated	p-value*
N	551	31	274	18	103	14	37	40	34	
JADAS3-71, 27 and 10 across the ILAR subtypes for all patients with sufficient data available (median, IQR)										
JADAS3-71	8.9 (4.6-14)	12.2 (9.4-17.8)	6.4 (3.6-9.5)	14.2 (8.8-19.2)	16.7 (11.5-23.5)	14.6 (9.4-29.9)	9.5 (6.8-12.4)	9.6 (5-15)	7.8 (4.7-16.6)	0.0001
JADAS3-27	8.7 (4.5-13.3)	11.7 (9.4-17.1)	6.4 (3.6-9.4)	12.9 (8.8-18.2)	15.7 (10.1-22.3)	12.8 (9.4-25.9)	9.1 (6.8-10.7)	9.3 (4.5-13.1)	7.3 (4.7-14.7)	0.0001
JADAS3-10	9 (4.6-13.8)	12.2 (9.4-17.8)	6.4 (3.6-9.5)	14.2 (8.8-17.3)	16.1 (11.5-19.5)	14.6 (9.4-21.3)	9.7 (7.5-13.4)	9.6 (5-15)	7.8 (5.4-16.7)	0.0001
Correlation of JADAS3-71 with individual variables										
Active joint	0.78	0.85	0.51	0.83	0.88	0.93	0.82	0.81	0.89	

count										
Physician global	0.73	0.35	0.72	0.64	0.7	0.57	0.55	0.66	0.83	
Parent global	0.64	0.76	0.74	0.66	0.38	0.42	0.66	0.65	0.67	
ESR	0.33	0.36	0.1	-0.27	0.22	0.29	0.16	0.17	0.62	
Limited joint count	0.53	0.7	0.39	0.21	0.47	0.71	0.47	0.54	0.54	
Pain score	0.52	0.52	0.61	0.48	0.32	0.27	0.57	0.59	0.53	
*CHAQ	0.56	0.54	0.51	0.54	0.33	0.66	0.58	0.59	0.61	

* Childhood Health Assessment Questionnaire