



Supplementary figure 1: Whole body (R)-[^{11}C]PK11195 uptake in a patient.

Joint	Clinical assessment	Agreement			Disagreement		
		both +	both -	total	Only PET +	Only clinical +	total
Shoulders (70)	SJ	0	93	93	4	3	7
	TJ	0	87	87	4	9	13
Wrists (70)	SJ	19	41	60	19	21	40
	TJ	19	36	54	19	27	46
MCP1 (70)	SJ	6	64	70	3	27	30
	TJ	6	76	81	3	16	19
MCP2–5 (280)	SJ	2	73	75	4	21	25
	TJ	1	82	83	5	12	17
PIP hand (350)	SJ	5	64	69	7	24	31
	TJ	3	68	71	9	20	29
Knees (70)	SJ	1	83	84	4	11	16
	TJ	1	77	79	4	17	21
Ankles (70)	SJ	3	86	89	7	4	11
	TJ	3	84	87	7	6	13
MTP1 (70)	SJ	3	71	74	23	3	26
	TJ	9	57	66	17	17	34
MTP2–5 (280)	SJ	2	74	76	16	9	25
	TJ	6	64	70	12	18	30
Total (1470)	SJ	4	71	74	9	16	26
	TJ	4	71	75	9	17	25

Supplementary table 1: Agreement and disagreement between visual PET and clinical assessments, as percentage of the number of joints. Note: elbows and hips are left out, as there were no positive PET findings.

PET parameter	Clinical parameter	Correlation
Sum of visually PET positive joints in the hands	DAS44	$R^2 = 0,07, p = 0,13$
	SJC	$R^2 = 0,13, p = 0,03$
	TJC	$R^2 = 0,02, p = 0,44$
	CRP	$R^2 = 0,00, p = 0,88$
	BSE	$R^2 = 0,08, p = 0,11$
	VAS	$R^2 = 0,00, p = 0,85$
Sum of visually PET positive joints in the feet	DAS44	$R^2 = 0,00, p = 0,80$
	SJC	$R^2 = 0,01, p = 0,55$
	TJC	$R^2 = 0,08, p = 0,11$
	CRP	$R^2 = 0,00, p = 0,94$
	BSE	$R^2 = 0,05, p = 0,20$
	VAS	$R^2 = 0,02, p = 0,48$
Sum of visually PET positive joints in the whole body	DAS44	$R^2 = 0,05, p = 0,22$
	SJC	$R^2 = 0,09, p = 0,08$
	TJC	$R^2 = 0,09, p = 0,08$
	CRP	$R^2 = 0,00, p = 0,85$
	BSE	$R^2 = 0,11, p = 0,05$
	VAS	$R^2 = 0,01, p = 0,62$
Average SUV _{peak} in the hands	DAS44	$R^2 = 0,22, p = 0,01$
	SJC	$R^2 = 0,31, p < 0,01$
	TJC	$R^2 = 0,03, p = 0,35$
	CRP	$R^2 = 0,23, p < 0,01$
	BSE	$R^2 = 0,23, p < 0,01$
	VAS	$R^2 = 0,04, p = 0,26$

Average SUV _{peak} in the feet	DAS44	R ² = 0,29, p < 0,01
	SJC	R ² = 0,16, p = 0,02
	TJC	R ² = 0,19, p < 0,01
	CRP	R ² = 0,13, p = 0,03
	BSE	R ² = 0,29, p < 0,01
	VAS	R ² = 0,12, p = 0,04
Average SUV _{peak} in the whole body	DAS44	R ² = 0,15, p = 0,02
	SJC	R ² = 0,08, p = 0,09
	TJC	R ² = 0,08, p = 0,11
	CRP	R ² = 0,11, p = 0,05
	BSE	R ² = 0,14, p = 0,03
	VAS	R ² = 0,07, p = 0,14

Supplementary Table 2: All correlations between visual and quantitative values in the hands, feet and whole body and clinical parameters.