

Supplementary Material

Pre- and post-TKR assessment times, KOS score, OKS and classifier outputs ($m_c(\{OA\})$, $m_c(\{NP\})$ and $m_c(\Theta)$) for subjects P1 to P20.

Subject	Visit	Timing	KOS score	OKS	$m_c(\{OA\})$	$m_c(\{NP\})$	$m_c(\Theta)$
P1	1	2 weeks pre-op	60	N/A	0.691	0.049	0.260
	2	3 months post-op	70	N/A	0.533	0.047	0.420
	3	9 months post-op	83.75	N/A	0.371	0.235	0.394
P2	1	2 weeks pre-op	50	N/A	0.761	0.044	0.196
	2	3 months post-op	55	N/A	0.722	0.055	0.223
	3	6 months post-op	70	N/A	0.654	0.128	0.218
	4	12 months post-op	66.25	N/A	0.475	0.223	0.303
P3	1	1 week pre-op	36.25	N/A	0.807	0.028	0.164
	2	4 months post-op	55	N/A	0.650	0.067	0.283
	3	9 months post-op	71.25	N/A	0.567	0.194	0.240
	4	14 months post-op	60	N/A	0.536	0.141	0.323
P4	1	1 week pre-op	38.75	25	0.594	0.112	0.294
	2	3 months post-op	78.75	68.75	0.515	0.205	0.280
	3	13 months post-op	92.5	91.66	0.342	0.375	0.284
P5	1	1 week pre-op	75	N/A	0.314	0.388	0.298
	2	3 months post-op	87.5	83.34	0.358	0.360	0.283
	3	8 months post-op	93.75	89.59	0.371	0.291	0.337
	4	12 months post-op	88.75	89.59	0.066	0.568	0.366
P6	1	2 weeks pre-op	46.25	45.84	0.504	0.238	0.258
	2	3 months post-op	83.75	83.34	0.350	0.305	0.345
	3	6 months post-op	73.75	72.91	0.253	0.351	0.396
	4	12 months post-op	86.25	85.41	0.264	0.380	0.356
P7	1	1 week pre-op	31.25	N/A	0.602	0.133	0.265
	2	3 months post-op	56.25	N/A	0.299	0.304	0.398
	3	12 months post-op	78.75	N/A	0.380	0.255	0.365
P8	1	2 weeks pre-op	36.25	37.5	0.787	0.059	0.154
	2	3 months post-op	41.25	50	0.710	0.081	0.209
	3	6 months post-op	50	47.91	0.782	0.031	0.187
	4	12 months post-op	43.75	47.91	0.647	0.152	0.202
P9	1	1 week pre-op	52.5	N/A	0.609	0.159	0.232
	2	3 months post-op	70	68.75	0.502	0.183	0.315
	3	7 months post-op	83.75	79.16	0.432	0.251	0.316
	4	13 months post-op	85	81.25	0.487	0.228	0.285
P10	1	1 week pre-op	28.75	N/A	0.735	0.033	0.232
	2	5 months post-op	N/A	N/A	0.661	0.092	0.247
	3	7 months post-op	67.5	N/A	0.675	0.047	0.277
	4	12 months post-op	73.75	N/A	0.616	0.107	0.276
P11	1	1 week pre-op	48.75	50	0.650	0.106	0.244
	2	3 months post-op	57.5	52.09	0.804	0.036	0.160
	3	6 months post-op	62.5	70.84	0.603	0.127	0.269
	4	13 months post-op	78.75	79.18	0.541	0.177	0.283
P12	1	3 days pre-op	28.75	N/A	0.735	0.062	0.203
	2	3 months post-op	40	N/A	0.705	0.036	0.259
	3	6 months post-op	46.25	N/A	0.646	0.064	0.290
	4	12 months post-op	56.25	N/A	0.643	0.065	0.292
P13	1	2 weeks pre-op	25	N/A	0.633	0.121	0.245
	2	6 months post-op	75	N/A	0.503	0.161	0.336
	3	17 months post-op	73.75	N/A	0.553	0.184	0.263
P14	1	10 days pre-op	26.25	16.66	0.834	0.017	0.150
	2	3 months post-op	61.25	62.5	0.823	0.019	0.157
	3	6 months post-op	70	60.41	0.845	0.009	0.145
	4	12 months post-op	81.25	70.84	0.761	0.029	0.210
P15	1	1 month pre-op	31.25	N/A	0.832	0.020	0.148
	2	2 months post-op	82.5	N/A	0.838	0.022	0.139
	3	6 months post-op	58.75	N/A	0.800	0.023	0.177
	4	15 months post-op	68.75	N/A	0.797	0.008	0.195
P16	1	3 months pre-op	N/A	N/A	0.696	0.052	0.252
	2	4 months post-op	67.5	N/A	0.673	0.059	0.268
	3	8 months post-op	72.5	N/A	0.634	0.082	0.284
	4	13 months post-op	83.75	N/A	0.666	0.050	0.284
P17	1	1 week pre-op	21.25	29.16	0.558	0.174	0.268
	2	3 months post-op	50	54.16	0.594	0.140	0.266
	3	13 months post-op	42.5	41.66	0.554	0.156	0.290
P18	1	4 months pre-op	42.5	N/A	0.310	0.338	0.352
	2	7 weeks post-op	56.25	N/A	0.298	0.275	0.427
	3	7 months post-op	56.25	N/A	0.293	0.354	0.353
	4	15 months post-op	73.75	N/A	0.315	0.320	0.365
P19	1	2 weeks pre-op	68.75	N/A	0.306	0.306	0.388
	2	3 months post-op	66.25	N/A	0.594	0.153	0.253
	3	7 months post-op	80	N/A	0.135	0.484	0.381
	4	11 months post-op	70	N/A	0.359	0.201	0.440
P20	1	11 days pre-op	45	54.16	0.251	0.381	0.367
	2	3 months post-op	65	70.84	0.614	0.091	0.295
	3	6 months post-op	81.25	77.09	0.541	0.131	0.328
	4	12 months post-op	83.75	79.16	0.422	0.219	0.359

N/A, data not available. Subjects listed in order of greatest to least reduction in $m_c(\{OA\})$. Classifier outputs are rounded to 3d.p