

## ONLINE SUPPLEMENTARY MATERIAL

**Supplementary Table 1.** Relation of PFOA categories (based on PF symptoms and MRI PFOA) with depressive symptoms, pain catastrophizing, and temporal summation (frequency of outcome (%), and odds ratios with 95% confidence intervals~).

	Depressive symptoms		Catastrophizing		TS (patella)		TS (wrist)	
	(n=1112 <sup>^</sup> )		(n=1112 <sup>^</sup> )		(n=1074 <sup>^</sup> )		(n=1097 <sup>^</sup> )	
	Frequency	Adjusted OR (95% CI)	Frequency	Adjusted OR (95% CI)	Frequency	Adjusted OR (95% CI)	Frequency	Adjusted OR (95% CI)
PF symptoms + MRI PFOA	22/142 (15.5)	<b>2.01 (1.13, 3.56)*</b>	78/142 (54.9)	<b>1.50 (1.03, 2.19)*</b>	63/134 (47)	<b>1.71 (1.15, 2.53)*</b>	57/140 (40.7)	1.27 (0.86, 1.88)
PF symptoms only (no MRI OA)	25/177 (14.1)	<b>1.79 (1.04, 3.09)*</b>	102/177 (57.6)	<b>1.79 (1.26, 2.54)*</b>	84/171 (49.1)	<b>1.96 (1.37, 2.80)*</b>	80/174 (46.0)	<b>1.66 (1.16, 2.37)*</b>
MRI PFOA only (no PF symptoms)	10/214 (4.7)	0.62 (0.30, 1.28)	103/214 (48.1)	1.26 (0.91, 1.73)	66/210 (31.4)	0.87 (0.62, 1.23)	70/214 (32.7)	0.87 (0.62, 1.22)
No PFOA	42/579 (7.3)	1	238/579 (41.1)	1	193/559 (34.5)	1	204/569 (35.9)	1

Reference group: no PFOA (no PF symptoms or MRI PFOA). \* indicates significant effect (p<0.05).

~Adjusted for age, sex, body mass index, presence of tibiofemoral full thickness cartilage lesions, and presence of tibiofemoral bone marrow lesions

<sup>^</sup>Total number of observations used for each analysis, based on missing values for outcome

TS, temporal summation; TF, tibiofemoral

**Supplementary Table 2.** Mean (95% confidence intervals) pressure pain threshold measures at the patella and wrist for each PFOA classification (kg/cm<sup>2</sup>), split by sex.

	Males		Females	
	Patella	Wrist	Patella	Wrist
	(n=382 <sup>^</sup> )	(n=391 <sup>^</sup> )	(n=680 <sup>^</sup> )	(n=689 <sup>^</sup> )
PF symptoms + MRI PFOA	5.87 (4.98 to 6.77)	3.82 (3.23 to 4.42)	4.27 (3.92 to 4.63)	2.89 (2.68 to 3.1)
PF symptoms only (no MRI PFOA)	4.71 (4.02 to 5.4)	3.26 (2.78 to 3.74)	4.55 (4.22 to 4.88)	3.13 (2.93 to 3.32)
MRI PFOA only (no PF symptoms)	6.03 (5.54 to 6.52)	3.63 (3.3 to 3.96)	4.86 (4.53 to 5.19)	3.27 (3.07 to 3.47)
No PFOA <sup>#</sup>	6.08 (5.78 to 6.37)	3.97 (3.77 to 4.17)	4.54 (4.34 to 4.75)	3 (2.88 to 3.12)
<b><i>P value</i></b>	<b>0.002*</b>	0.076	<b>0.005*</b>	0.075

<sup>#</sup> no PF symptoms or MRI PFOA. \* indicates significant effect (p<0.05).

<sup>~</sup>Adjusted for age, body mass index, presence of tibiofemoral full thickness cartilage lesions, and presence of tibiofemoral bone marrow lesions

<sup>^</sup>Total number of observations used for each analysis, based on missing values for outcome