Table 2a. Models of 1-year Knee pain (scored as 0 = no pain, 100= extreme pain)

	Initial Model built on OAI and tested on MOST	P1. Model (from pooled MOST+OAI)	P2. model (from 4-source data)
R-square	0.36(OAI), 0.32 (MOST)	0.32	0.32
	Beta Coeff(stderr) p-value	Beta Coeff(stderr) p-value	Beta Coeff(stderr) p-value
Model intercept (constant)	1.95 (2.60) p=0.4550	-2.99(4.04) p=0.4597	31.44(5.52) p=<.0001
Treatment (1=TKR, 0=control)	-4.59 (3.41) p=0.1781	-5.00(2.77) p=0.0718	-3.33(2.16) p=0.1246
WOMAC knee pain (base)	0.49 (0.05) p=<.0001	0.42(0.04) p=<.0001	0.49(0.03) p=<.0001
Interaction: Treatment * WOMAC knee pain	-0.21 (0.07) p=0.0044	-0.18(0.06) p=0.0026	-0.33(0.05) p=<.0001
Age (in years)			-0.12(0.05) p=0.0225
SF-12 mental component [base]			-0.11(0.05) p=0.033
SF-12 physical component [base]			-0.21(0.07) p=0.0017
Age, dichotomized (less than 60 years old: 1=yes,0=no))	4.20 (1.79) p=0.0186	4.44(1.41) p=0.0017	
WOMAC [base] contralateral knee pain		0.13(0.04) p=0.0562	
Homunculus %	0.26 (0.08) p=0.0008	0.11(0.05) p=0.0155	
Body mass index [base], kg/m2		0.22(0.12) p=0.0628	
Hip Pain (1=yes, 0=no)	-0.31 (2.48) p=0.8992	2.00(1.80) p=0.2694	
Interaction: Treatment*Hip Pain	-5.69 (2.96) p=0.0545	-3.82(2.29) p=0.0948	