

Appendix D. Results of Statistical Models Testing for Interactions Between the Intervention and the Level of Patient-Reported Shared Decision-Making at Baseline

a. Primary Outcomes		Change in EQ5D: Quality of Life (Increase = improvement)			Change in Pain Interference (Increase=Worsening Symptoms)			Change in Sleep Disruption (range: 32-84.2; 84.2=maximum disruption)			Lower Extremity Functioning (range: 16.5-58.6; 58.6=best functioning)			Depressive Symptoms (range:38.2-81.3; 81.3=worst symptoms)		
		Estimate [standard error (se)]	95% Confidence Interval (C.I.)	P- Value	Estimate (se)	95% C.I.	P- Value	Estimate (se)	95% C.I.	P- Value	Estimate (se)	95% C.I.	P- Value	Estimate (se)	95% C.I.	P- Value
Predictors	Intercept	0.01 (0.01)	-0.01, 0.03	0.353	-6.35 (2.77)	-11.78, - 0.92	0.022	0.52 (0.53)	-0.53, 1.57	0.329	-0.36 (2.58)	-5.42, 4.71	0.889	3.08 (2.57)	-1.97, 8.12	0.232
	Intervention effect	0.01 (0.01)	-0.01, 0.04	0.380	-2.666 (3.86)	-10.21, 4.90	0.491	0.21 (0.67)	-1.10, 1.52	0.751	-0.31 (3.31)	-6.80, 6.17	0.925	-5.30 (3.20)	-11.57, 0.96	0.097
Shared Decision Making (SDM): Range: 0-100; higher score indicates highest level of shared decision making	SDM 1st quartile - low level (0.00 - 24.44) ^a	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SDM 2nd quartile (26.67 - 48.89)	0.01 (0.01)	-0.01, 0.04	0.278	0.48 (3.22)	-5.83, 6.80	0.880	-0.09 (0.62)	1.31, 1.12	0.883	-2.03 (3.10)	-8.11, 4.04	0.512	-5.53 (3.20)	-11.80, 0.75	0.084
	SDM 3rd quartile (51.11 - 73.33)	0.02 (0.01)	-0.01, 0.04	0.167	-1.17 (3.09)	-7.23, 4.88	0.704	-0.3 (0.65)	1.25	0.967	-2.30 (3.24)	-8.66, 4.06	0.479	-5.49 (3.10)	-11.57, 0.58	0.076
	SDM 4th quartile - high level (75.56 - 100)	0.02 (0.01)	-0.002, 0.04	0.068	-1.37 (2.99)	-7.23, 4.49	0.646	-0.06 (0.59)	-1.21, 1.10	0.922	-4.26 (2.88)	-9.91, 1.40	0.140	-5.50 (3.02)	-11.41, 0.41	0.07
Interaction Between Intervention and SDM	Intervention*SDM 1st quartile ^a	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Intervention*SDM 2nd quartile	-0.001 (0.02)	-0.04, 0.03	0.732	3.31 (4.60)	-5.70, 12.31	0.472	0.43 (0.86)	-1.25, 2.11	0.618	-0.91 (4.14)	-9.02, 7.19	0.825	3.52 (4.11)	-4.53, 11.57	0.391
	Intervention*SDM 3rd quartile	-0.02 (0.02)	-0.05, 0.01	0.219	5.31 (4.37)	3.25, 13.87	0.224	-0.21 (0.83)	-1.83, 1.41	0.803	1.29 (4.29)	-7.11, 9.69	0.763	5.60 (4.07)	-2.38, 13.57	0.169
	Intervention*SDM 4th quartile	-0.02 (0.02)	-0.05, 0.01	0.210	2.47 (4.42)	-6.20, 11.14	0.577	0.24 (0.78)	-1.29, 1.77	0.759	1.27 (3.84)	-6.27, 8.80	0.742	6.19 (3.80)	-1.26, 13.64	-0.103

a=reference group for comparison

b.Secondary Outcomes		Change in Communication (Higher Score=Better Communication)			Probability of Receiving Minimum Effective Dose 12 Month Post Treatment Start			
		95%						
Predictors		Estimate	Confidence		Estimate	P-		
		[standard	Interval	P-				
		error (se)]	(C.I.)	Value	(se)	95% C.I.	Value	
	Intercept	0.87 (0.66)	-0.42, 2.15		0.187	0.16 (0.24)	-0.31, 0.62	0.506
	Intervention effect	-0.43 (0.97)	-2.33, 1.48		0.660	0.02 (0.34)	-0.64, 0.68	0.956
Shared Decision Making (SDM): Range: 0-100; higher score indicates highest level of shared decision making	SDM 1st quartile - low level (0.00 - 24.44) ^a	--	--	--	--	--	--	
	SDM 2nd quartile (26.67 - 48.89)	-0.38 (0.77)	-1.88, 1.13		0.625	-0.15 (0.29)	-0.72, 0.43	0.619
	SDM 3rd quartile (51.11 - 73.33)	-1.27 (0.74)	-2.72, 0.19		0.089	-0.15 (0.29)	-0.71, 0.42	0.614
	SDM 4th quartile - high level (75.56 - 100)	-1.25 (0.69)	-2.61, 0.10		0.070	0.11 (0.27)	-0.63, 0.41	0.677
Interaction Between Intervention and SDM	Intervention*SDM 1st quartile ^a	--	--	--	--	--	--	
	Intervention*SDM 2nd quartile	-0.35 (1.16)	-2.62, 1.93		0.766	0.16 (0.42)	-0.67, 0.99	0.701
	Intervention*SDM 3rd quartile	-0.14 (1.08)	-2.25, 1.98		0.901	0.16 (0.40)	-0.63, 0.95	0.695
	Intervention*SDM 4th quartile	0.31 (1.03)	-1.71, 2.33		0.764	0.09 (0.39)	-0.68, 0.86	0.819