

Table S1. Data from studies included in met-analysis

Study	mean_pre_ahi	sd_pre_ahi	mean_post_ahi	sd_post_ahi	sample_size	p_value	diff_ahi	sd_diff_ahi	se_diff_ahi
Beecroft et al. 2007	20.2	15.1	23.5	21.3	11	NA	3.3	12.9	3.9
Jurado-Gamez et al. 2008	10.0	10.7	4.9	6.1	9	0.03	-5.1	6.9	2.3
Rodrigues et al. 2010	5.3	7.3	3.1	4.5	34	0.13	-2.2	8.2	1.4
Tandunkar et al. 2019	15.2	19.4	16.1	21.3	39	0.65	1.0	13.0	2.1

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Table S2. Longitudinal changes in PSG data in the No-KTx group

Variable	First PSG (T1), n=38	Second PSG (T2), n=38	Difference (T2- T1), n=38	p- value
Apnea Hypopnea Index	15.2 (5.1, 28.1)	16.2 (5.8, 21.0)	-1.1 (-11.7, 9.2)	0.61
Central Apnea Index	0 (0, 0.02)	0 (0, 0)	0 (-0.01, 0)	0.33
Obstructive Apnea Index	0.2 (0.1, 0.4)	0.1 (0.04, 0.3)	-0.03 (-0.2, 0.1)	0.31
%Total Sleep Time (TST) under 90%	0.8 (0.5, 7.6)	2.9 (1.0, 5.0)	0.3 (-1.2, 2.4)	0.82
TST, min	333 (291.2, 416.9)	342.8 (311.7, 423.6)	12.2 (-57.8, 73.8)	0.82
Sleep latency	19.2 (7.8, 41.0)	15.8 (11.0, 25.9)	-3.7 (20.0, 7.8)	0.19
Wakefulness after sleep onset (WASO)	98.7 (51.8, 155.67)	108.3 (57.8, 164.2)	10.2 (-38.9, 77.6)	0.32
Stage N1 Sleep, %TST	8.8 (7.1, 16.9)	5.5 (4.0, 11.0)	-3.3 (-9.6, 0.8)	<0.01
Stage N2 Sleep, %TST	61.2 (12.2)	66.2 (10.5)	4.9 (14.3)	0.04
Slow wave sleep, %TST	5.9 (6.0)	6.8 (6.6)	0.9 (7.2)	0.45
Rapid Eye Movement, %Total Sleep Time (TST)	19.9 (8.7)	18.7 (9.3)	-1.3 (10.1)	0.43
Periodic leg movement index	34.4 (22.6,63.0)	37.6 (21.3,57.0)	-1.6 (-23.1,16.1)	0.73

\* Table shows mean (sd) or median (quartile 1, quartile 3). P-values were based on paired t-test or Wilcoxon signed rank test

\*\* %TST under 90% was missing in 6 patients for T1 group, 6 patients for T2 group, and 12 patients for T2-T1

Fig S1. Changes in apnea-hypopnea index in the no-KTx and KTx groups

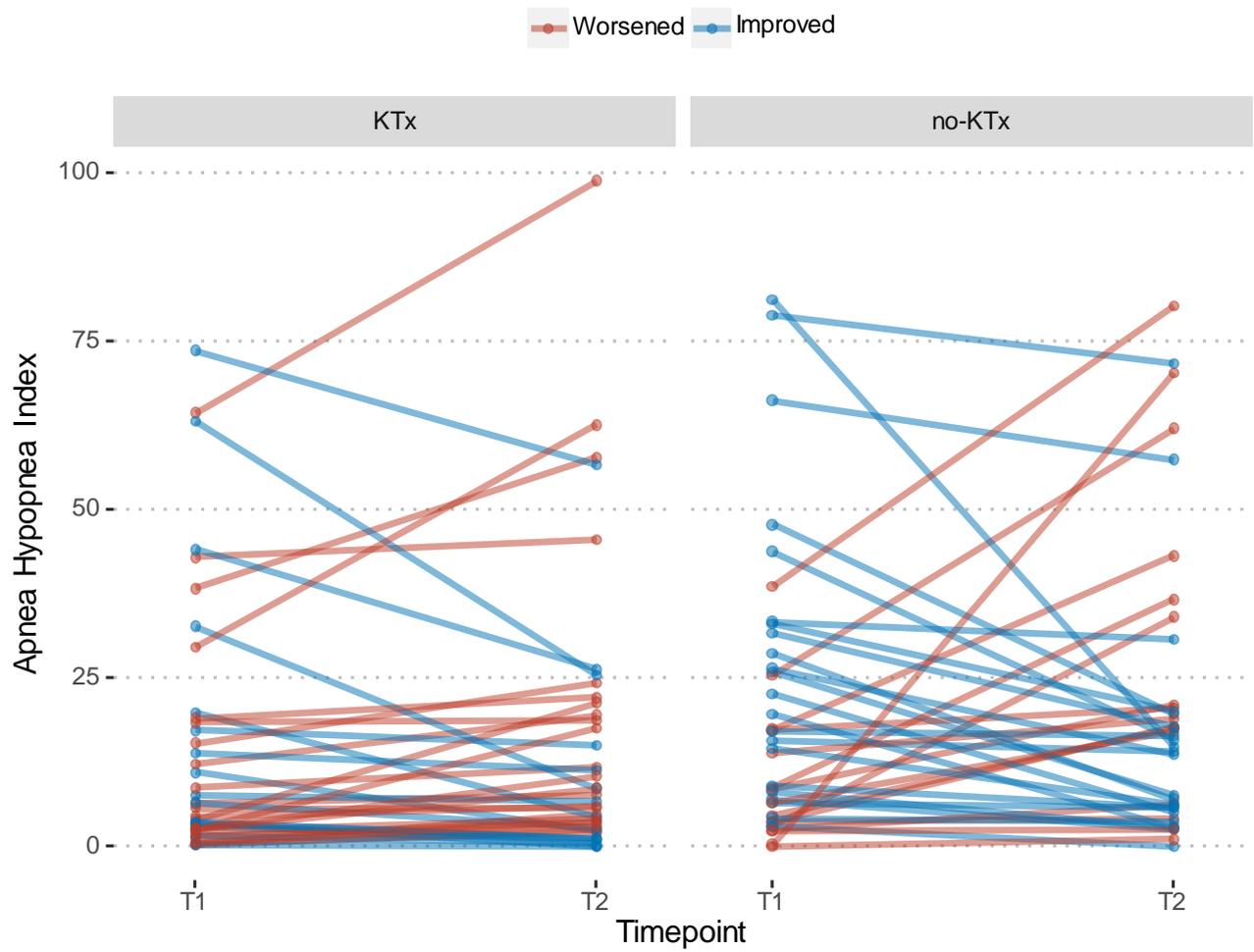
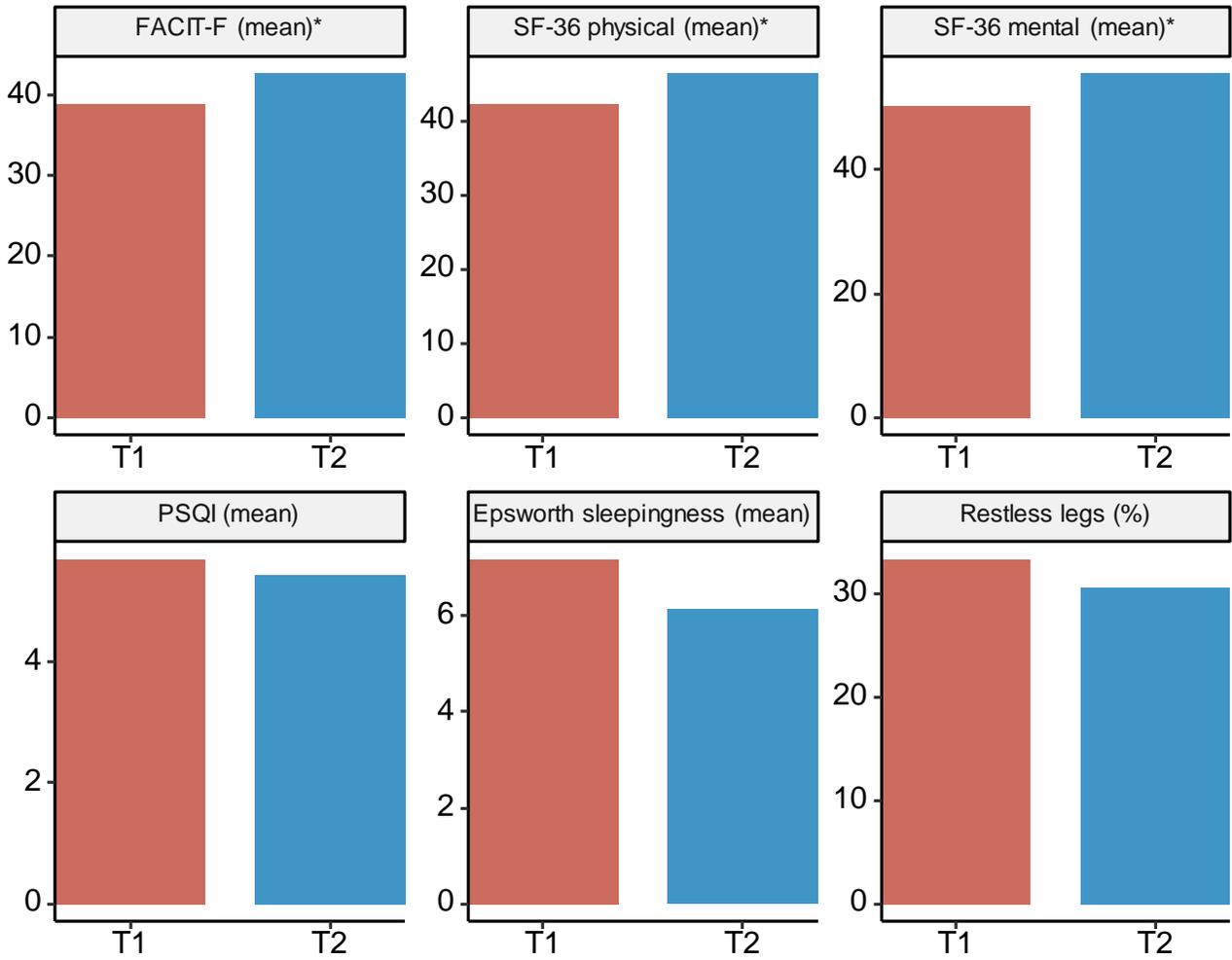


Fig S2. Unadjusted comparison of patient-reported outcomes pre- (T1) and post-KTx (T2)



\* Statistically significant ( $P < 0.05$ ) based on Wilcoxon signed rank test.

\*\* Differences in restless legs were tested using McNemar test.