

Table 14: Clinical evidence profile: Mixed (SUP/EDU/BEH) Intervention + CPAP versus Usual Care + CPAP - severe OSAHS

Quality assessment							No of patients		Effect		Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Mixed (SUP/EDU/BEH) Intervention + CPAP versus Usual Care + CPAP	Control	Relative (95% CI)	Absolute		
CPAP Device Usage (hours/night) (Better indicated by higher values)												
10	randomised trials	serious ¹	very serious ²	serious indirectness ⁴	serious ³	None	2264	2187	-	MD 0.82 higher (0.2 to 1.43 higher)	⊕000 VERY LOW	CRITICAL
N deemed adherent (≥ four hours/night)												
9	randomised trials	serious ¹	Serious ²	serious indirectness ⁴	serious ³	None	1807/2097 (86.2%)	65.6%	RR 1.14 (1.04 to 1.26)	92 more per 1000 (from 26 more to 171 more)	⊕000 VERY LOW	CRITICAL
Withdrawal												
11	randomised trials	serious ¹	very serious ²	serious indirectness ⁴	very serious ³	None	144/2511 (5.7%)	13.6%	RR 0.64 (0.32 to 1.28)	49 fewer per 1000 (from 92 fewer to 38 more)	⊕000 VERY LOW	IMPORTANT
Quality of life: Comparison of Change from Baseline Values - QoL: FOSQ-10 - Change from Baseline (Better indicated by higher values)												
1	randomised trials	serious ¹	no serious inconsistency	Serious ⁴	serious ³	None	93	83	-	MD 2.9 higher (0.52 lower to 6.32 higher)	⊕000 VERY LOW	CRITICAL

Quality of life: Comparison of Change from Baseline Values - QoL: SF-36 (PH) - Change from Baseline (Better indicated by higher values)												
1	randomised trials	serious ¹	no serious inconsistency	Serious ⁴	no serious imprecision	none	1497	1339	-	MD 5.7 higher (4.98 to 6.42 higher)	⊕⊕⊕⊕ LOW	CRITICAL
Quality of Life: Comparison of Values at Endpoint - QoL: FOSQ - Endpoint (Better indicated by higher values)												
1	randomised trials	serious ¹	no serious inconsistency	Serious ⁴	no serious imprecision	none	99	78	-	MD 0.3 higher (0.56 lower to 1.16 higher)	⊕⊕⊕⊕ LOW	CRITICAL
Quality of Life: Comparison of Values at Endpoint - QoL: SF-36 (PH) - Endpoint (Better indicated by higher values)												
3	randomised trials	serious ¹	no serious inconsistency	Serious ⁴	no serious imprecision	none	1611	1403	-	MD 4.85 higher (2.49 to 7.21 higher)	⊕⊕⊕⊕ LOW	CRITICAL
Epworth Sleepiness Scale Score (Better indicated by lower values)												
8	randomised trials	serious ¹	no serious inconsistency	serious indirectness ⁴	serious ³	None	3401	2987	-	MD 1.32 lower (2.48 to 0.16 lower)	⊕⊕⊕⊕ VERY LOW	IMPORTANT
Mortality												
Not reported												CRITICAL

¹ Downgraded by 1 increment if the majority of the evidence was at high risk of bias, and downgraded by 2 increments if the majority of the evidence was at very high risk of bias

² Downgraded by 1 or 2 increments for heterogeneity, unexplained by subgroup analysis. Random effect analysis used.

³ Downgraded by one increment if the confidence interval crossed one MID and downgraded by two increments if the confidence interval crossed both MIDs. MID for machine usage (adherence)- 1 hour ; Established MIDs for SF-36 physical/mental- 2/3 ; FOSQ- 2 ; ESS -2.5; SAQLI – 2. GRADE default MID (0.5XSD) used for all other continuous outcomes.

4 Downgraded by 1 or 2 increments because the majority of the evidence included an indirect or very indirect population respectively