

Table S1 Absolute change and relative change of AHI, CAHI and OAHI

Figure S1 Risk of bias

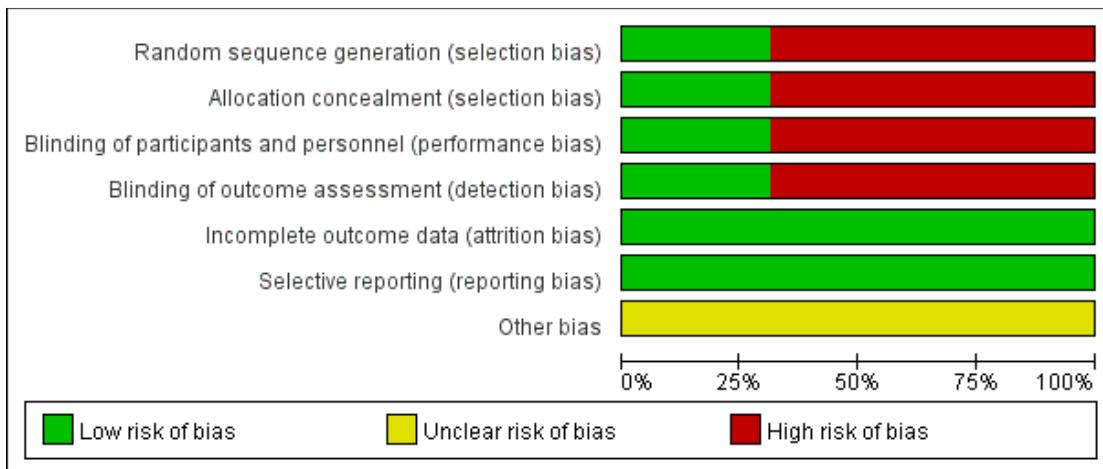


Figure S2 Risk of bias summary

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Apostolo 2014	-	-	-	-	+	+	?
DeBacker 1995	-	-	-	-	+	+	?
Eskandari 2018	+	+	+	+	+	+	?
Fontana 2011	-	-	-	-	+	+	?
Ginter 2020	+	+	+	+	+	+	?
Inoue 1999	-	-	-	-	+	+	?
Javaheri 2006	+	+	+	+	+	+	?
Naghan 2019	+	+	+	+	+	+	?
Sakamoto 1995	-	-	-	-	+	+	?
Sharp 1985	-	-	-	-	+	+	?
Tojima 1988	-	-	-	-	+	+	?
Ulrich 2015	+	+	+	+	+	+	?
Verbraecken 1998	-	-	-	-	+	+	?
White 1982	-	-	-	-	+	+	?
Whyte 1988	+	+	+	+	+	+	?

Figure S3 Publication bias

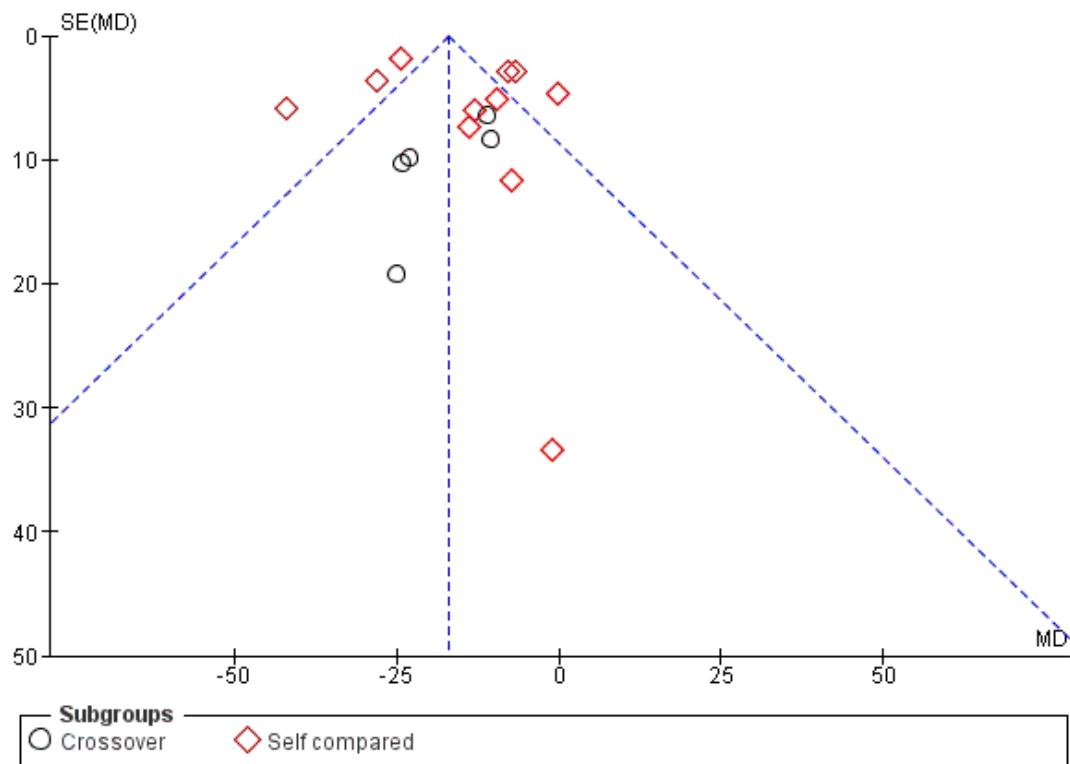


Figure S4 Subgroup analysis of AHI according to the design of study

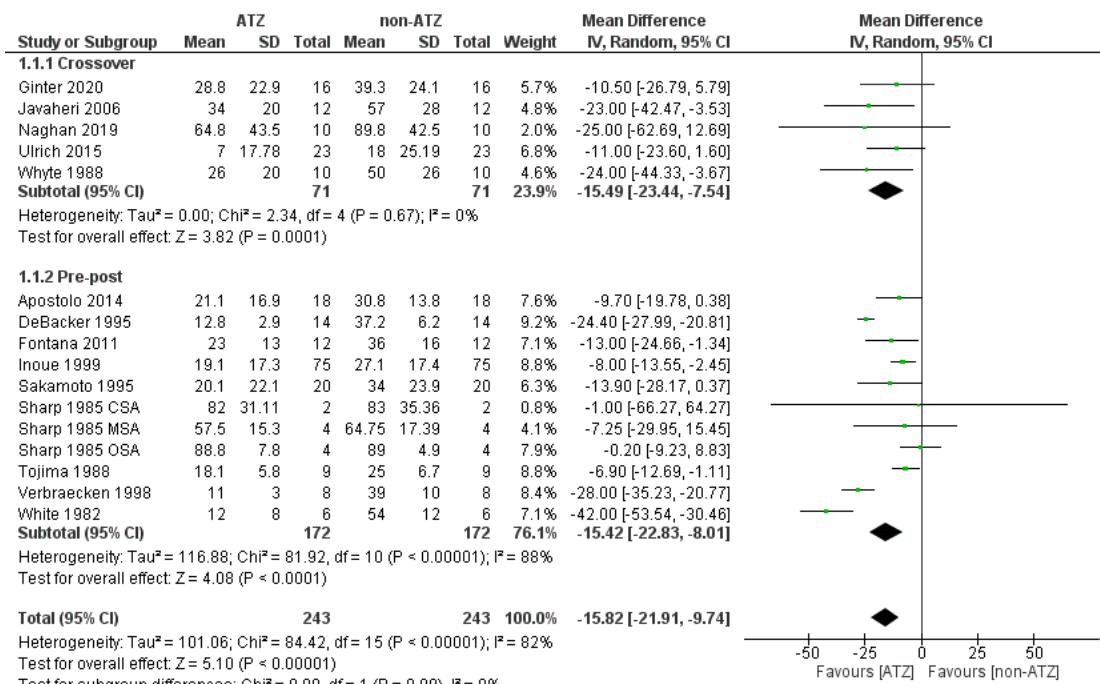


Figure S5 Subgroup analysis of AHI according to the dominant sleep apnea type

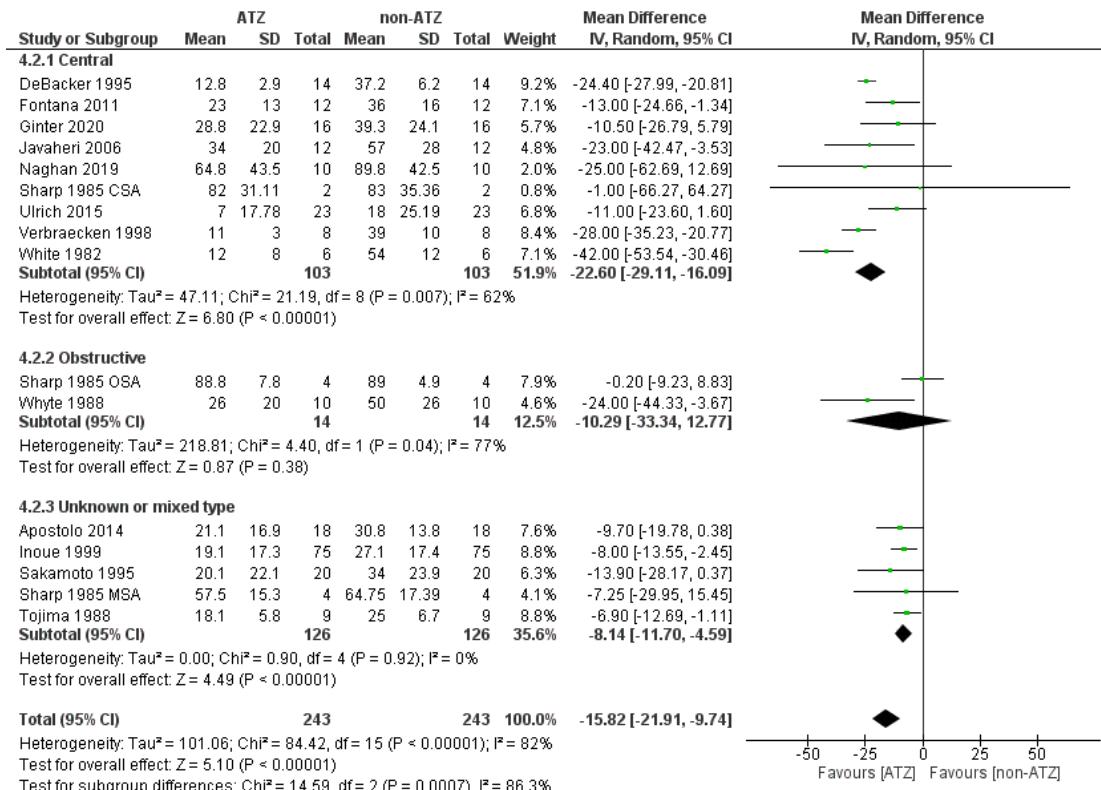
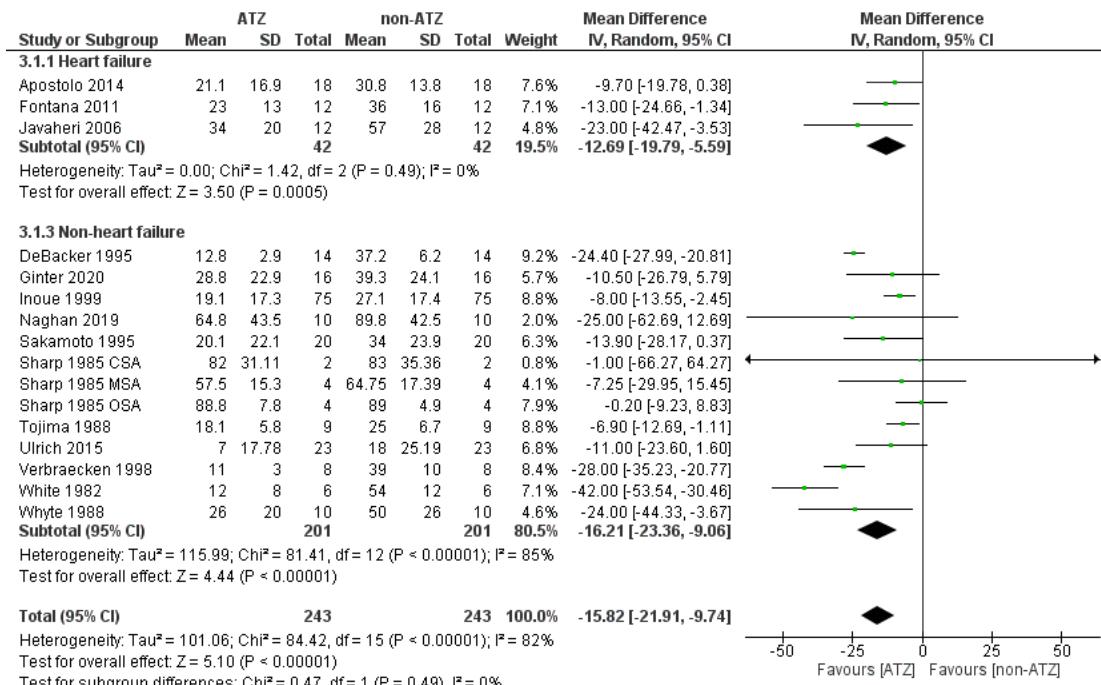


Figure S6 AHI divided by heart failure



CAI divided by heart failure

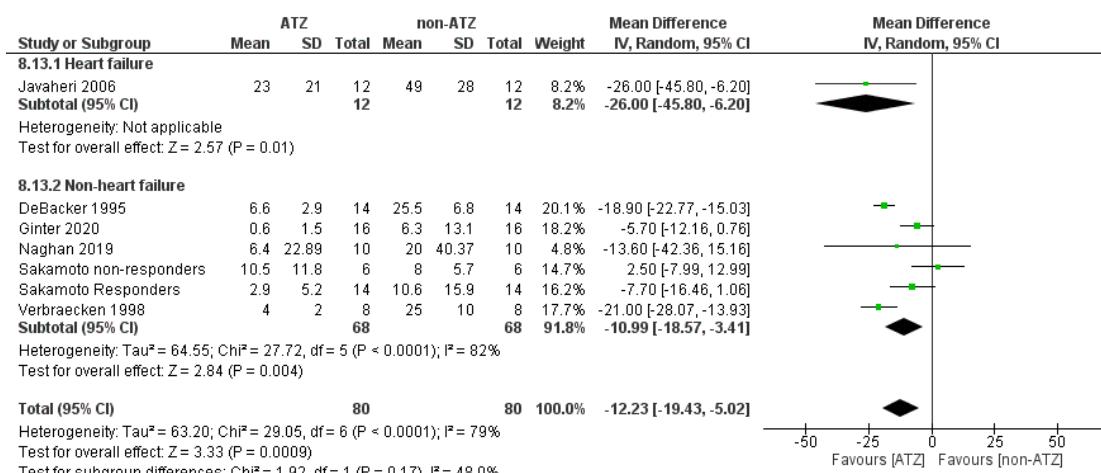


Figure S8 OAI divided by heart failure

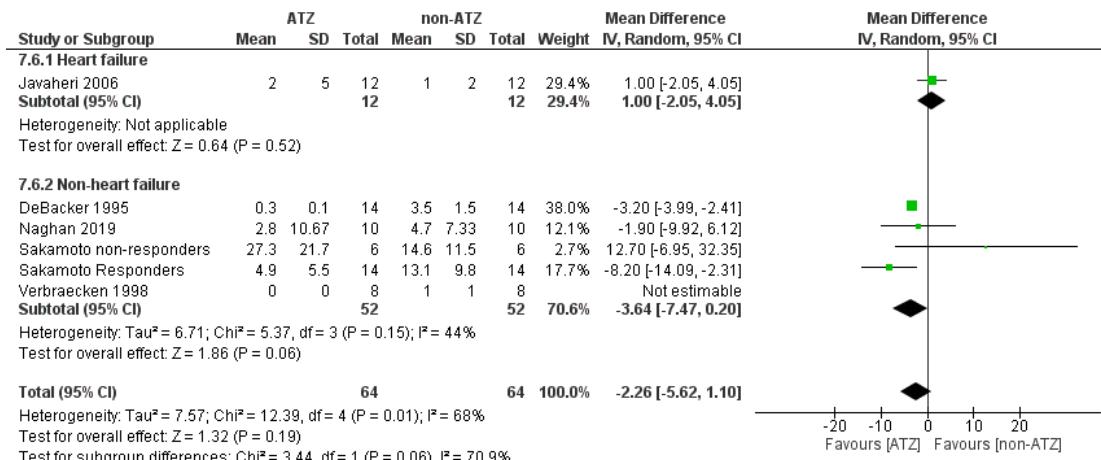


Figure S9 Respiratory events duration

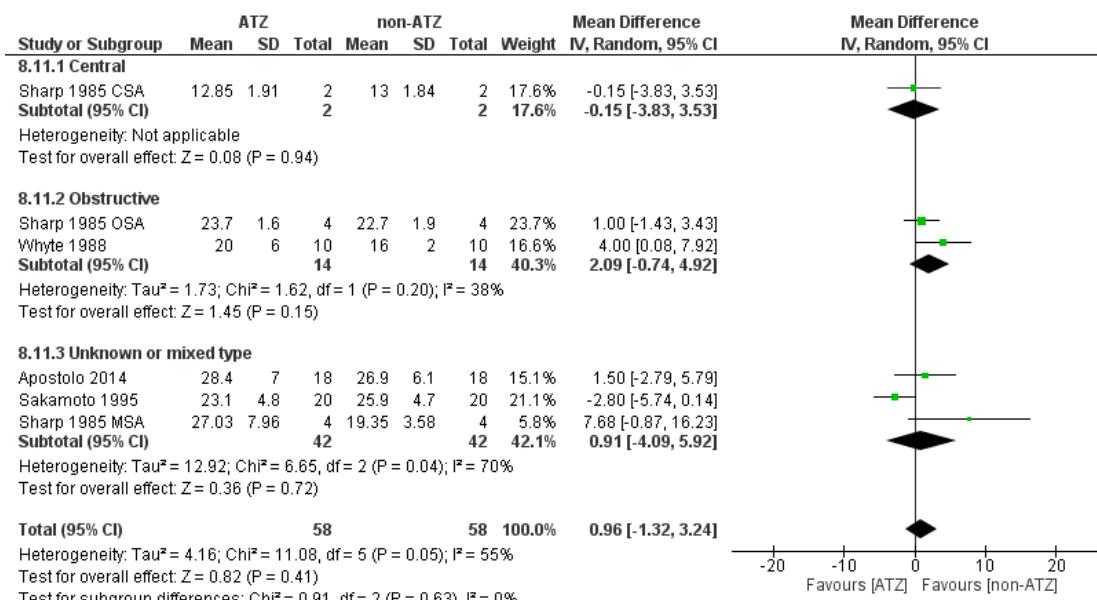
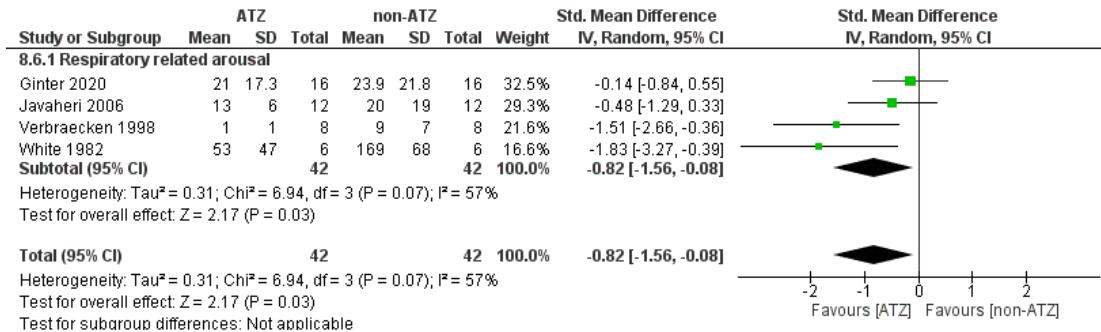


Figure S10 Respiratory related arousal index



All the included studies enrolled patients with central sleep apnea

Figure S11 Lowest SaO₂

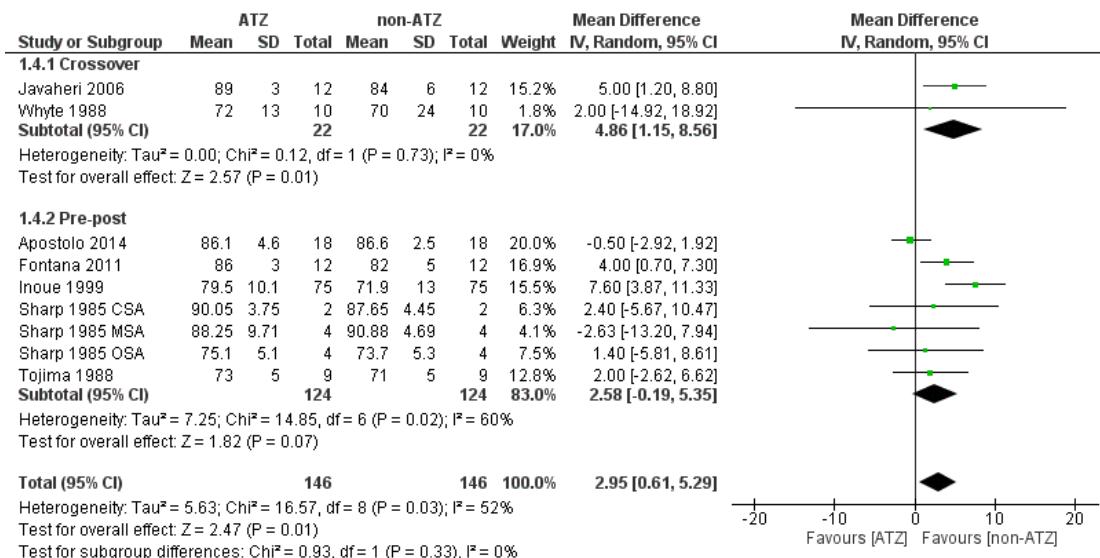


Figure S12 Lowest SaO₂ divided by the type of sleep apnea

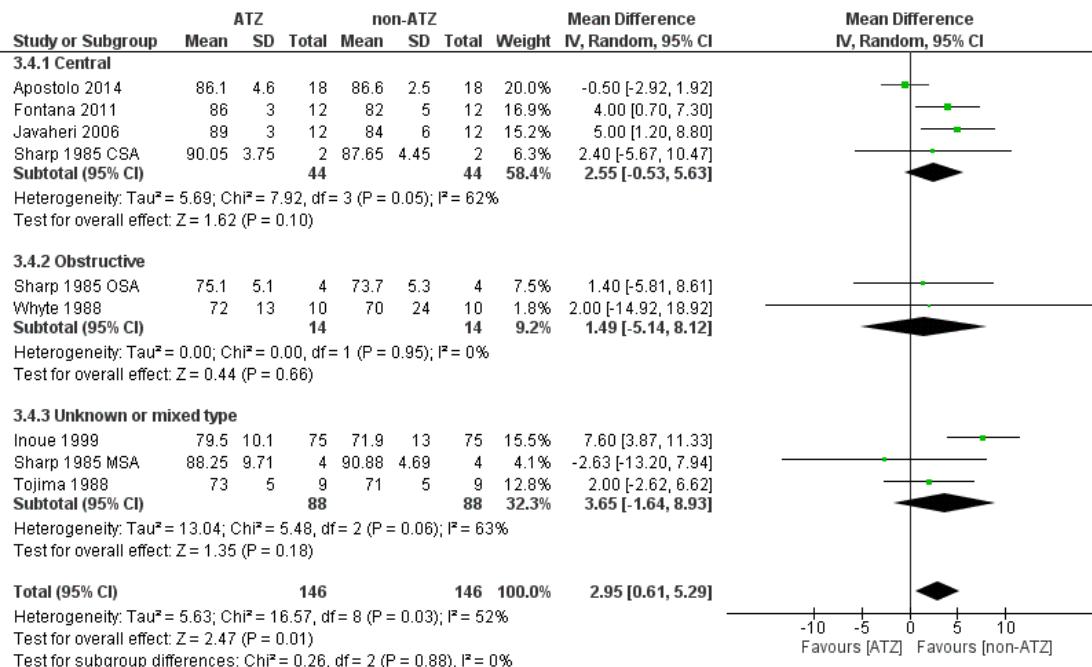


Figure S13 Mean SaO₂

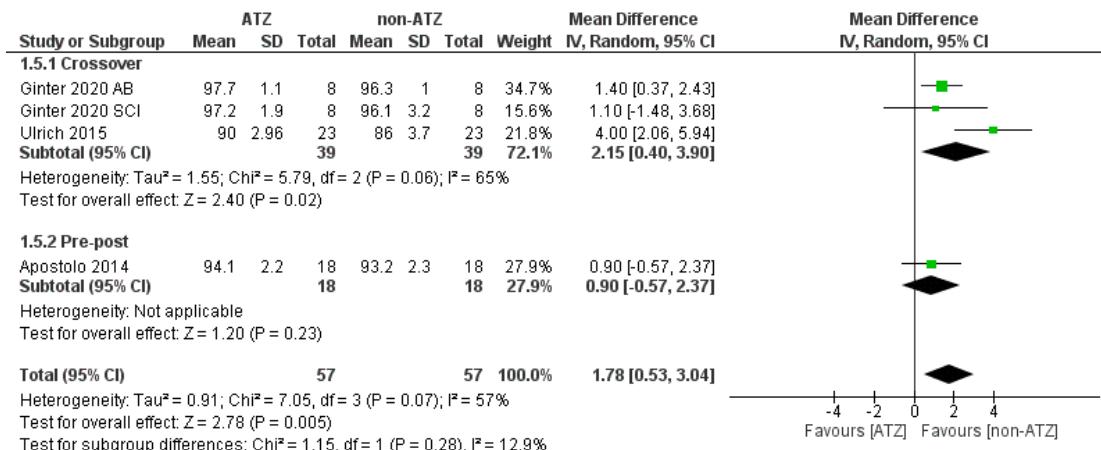


Figure S14 Mean SaO₂ divided by type of sleep apnea

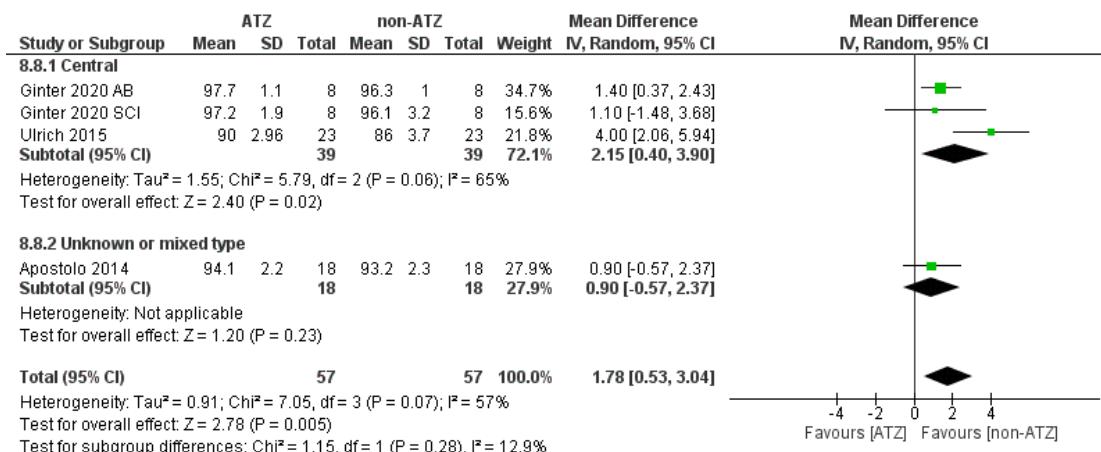


Figure S15 TST

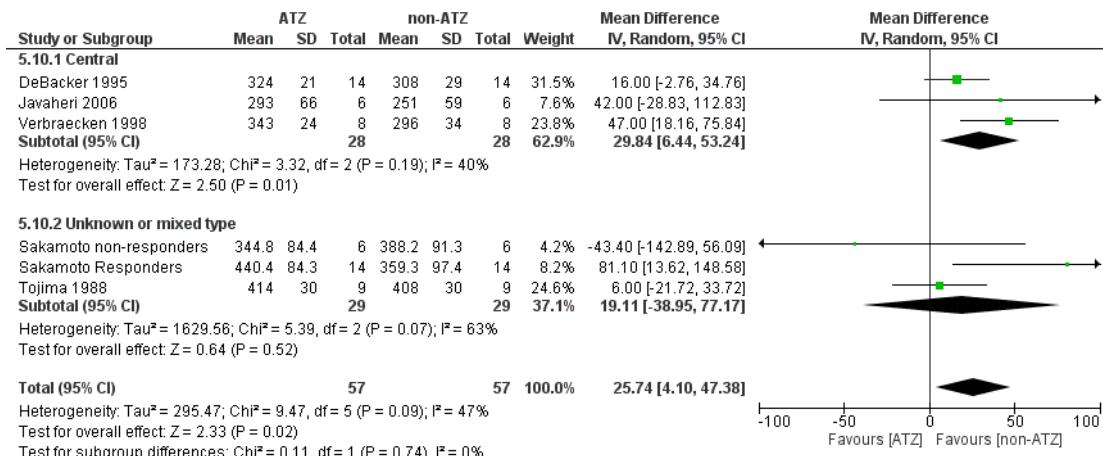


Figure S16 Sleep efficiency

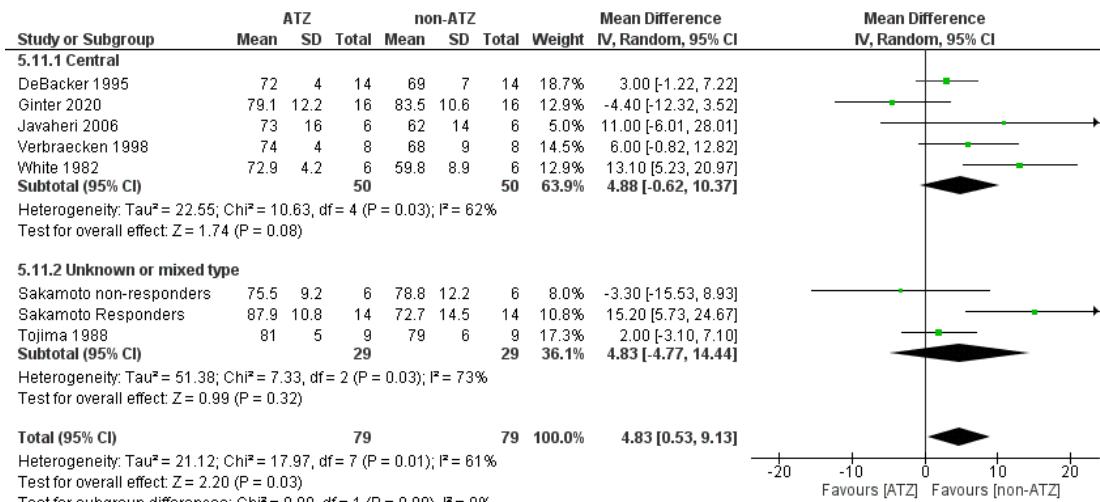


Figure S17 N1 stage of sleep

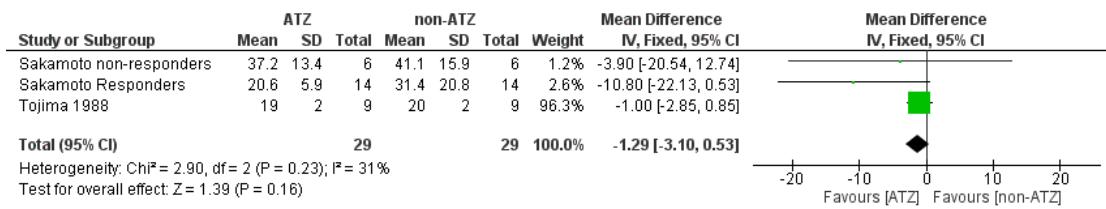


Figure S18 Slow wave sleep

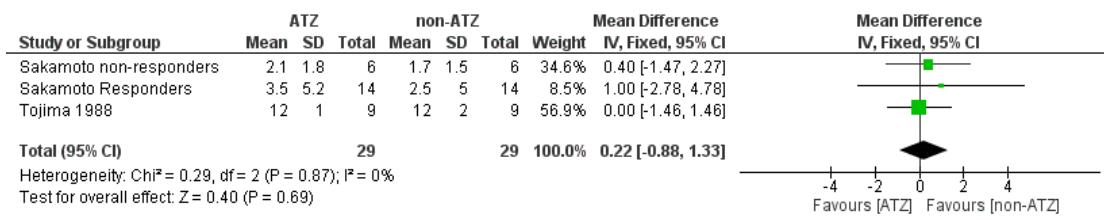


Figure S19 Rapid eye movement sleep

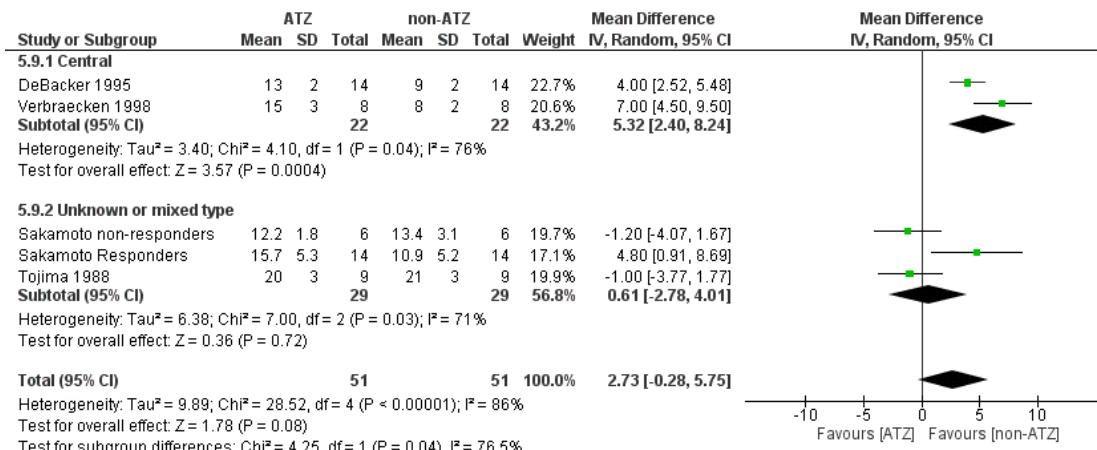


Figure S20 N2 stage of sleep

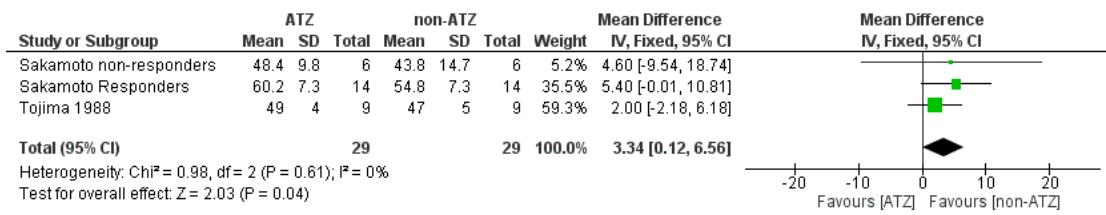


Figure S21 Slope of hypercapnia ventilator response

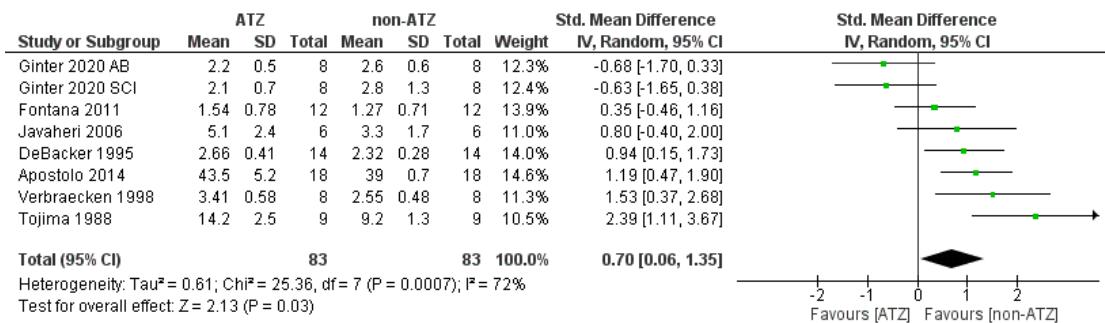


Figure S22 pH

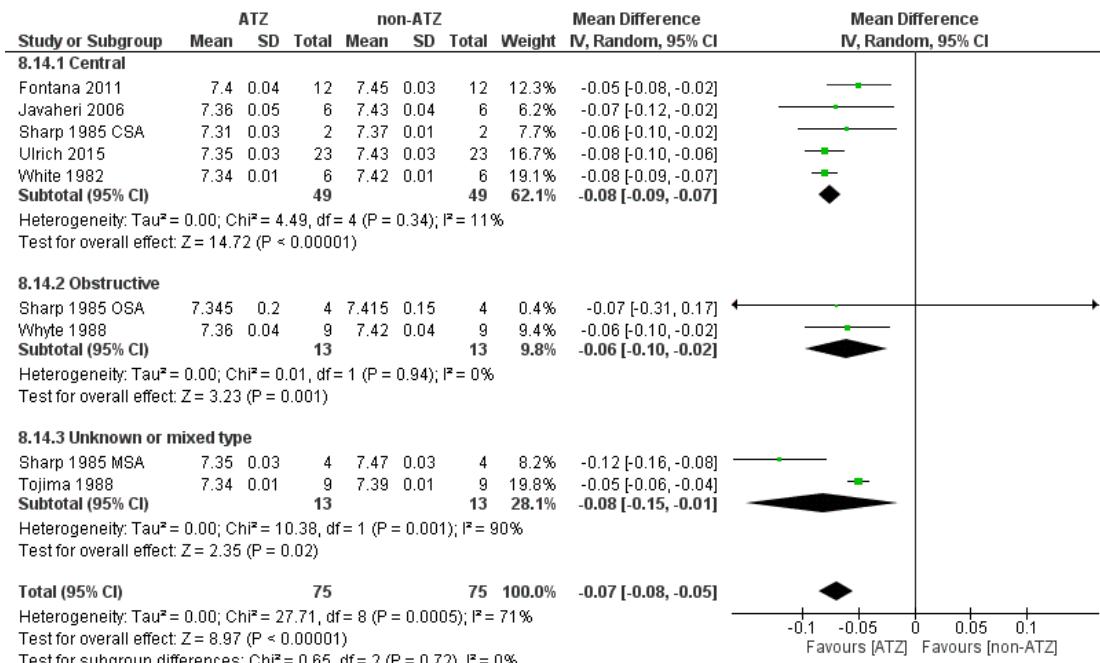


Figure S23 PaCO₂

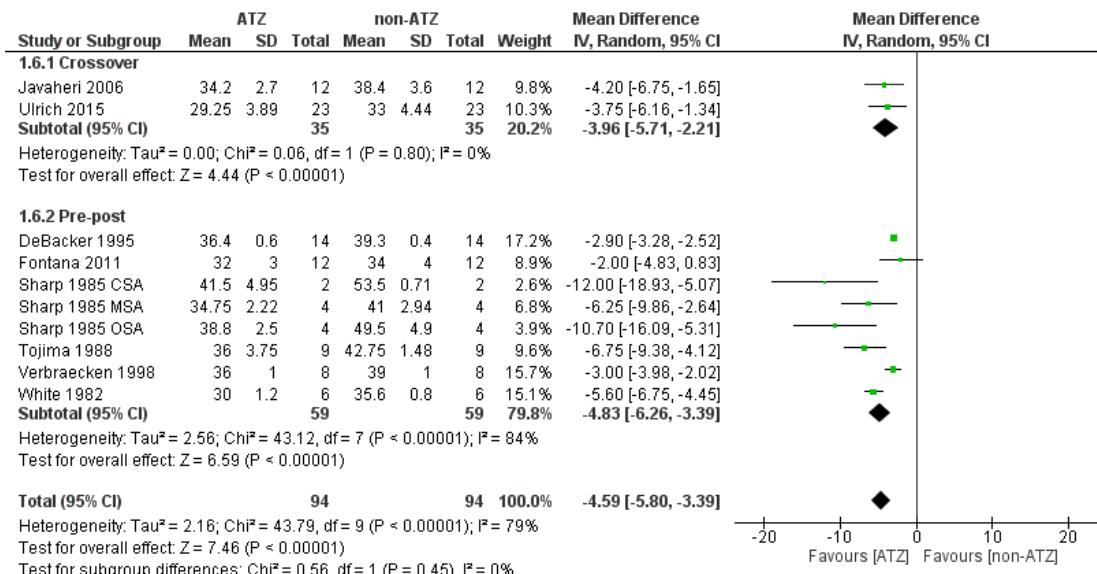


Figure S24 HCO⁻

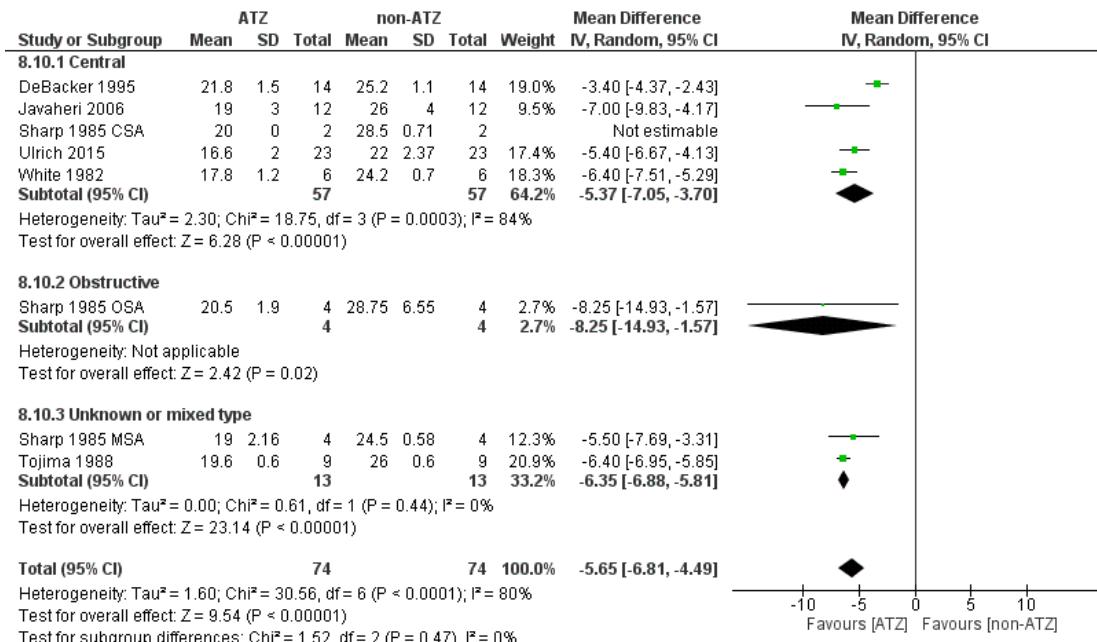


Figure S25 PaCO₂ divided by type of sleep apnea

