

Title Page

Association of Obstructive Sleep Apnea with Asthma: A Meta-Analysis

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Running title: Obstructive sleep apnea and asthma

Table S1: Important characteristics of the included studies

Study	n	Diagnosis tool	Design/patients	Age $\pm$ sd	BMI $\pm$ sd	% males
Auckley 2008	177	Berlin Questionnaire	Prospective/consecutive series	48 $\pm$ 14		26.55
Braido 2014	740	STOP-BANG	Clinical survey/physician recruited	48.2 $\pm$ 15.2	25.9 $\pm$ 4.6	58
Ciftci 2015	38	PSG	Clinical study/Nocturnal asthma	45 $\pm$ 8		73.68
Ekici 2005	1524	RSHQ	Epidemiological survey		27 $\pm$ 4.6	
Ferguson 2014	812	SA-SDQ	Cross sectional study/routine	$\pm$ 4614	29 $\pm$ 6.8	33
Goldstein 2015	263	PSQ	Cross sectional study/routine	6.4 $\pm$ 4.4		62.35
Guyen 2014	47	PSG	Cross sectional study/difficult-to-treat	48.7 $\pm$ 9.45	31.67 $\pm$ 6.04	19
Jamrozik 2009	135	Questionnaire	Cross sectional survey	46 $\pm$ 14	24.9 $\pm$ 3.9	39.26
Julien 2009 mod	26	PSG	Clinical study/difficult-to-treat asthma	48.4 $\pm$ 1.8	27.8 $\pm$ 1.2	46.15
Julien 2009 sev	26	PSG	Clinical study/difficult-to-treat asthma	48.4 $\pm$ 1.8	27.8 $\pm$ 1.2	53.84
Kheirandish-Gozal 2011	92	PSG	Prospective/consecutive series	6.85 $\pm$ 1.8		53
Kim 2013	217	QLQA	Prospective/consecutive series	58.4 $\pm$ 15.4		42
Madama 2016	47	PSG	Retrospective/routine	55.56 $\pm$ 13	31.36 $\pm$ 5.33	32
Ross 2012	108	Questionnaire	Prospective/consecutive series	9.1 $\pm$ 3.4		67.59
Shaarawy 2013	60	PSG	Cross sectional study/difficult-to-treat	46 $\pm$ 13	30 $\pm$ 6.1	25
Simard 2004	121	Questionnaire	Cross sectional study/comorbid	51.4 $\pm$ 1.8		
Sulit 2005	121	Questionnaire	Cohort study/community-based	9.5 $\pm$ 0.8	18.9 $\pm$ 4.6	64.46
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Taille 2016	55	PSG	Prospective/severe asthma	47.8 $\pm$ 1.7	28.4 $\pm$ 0.8	22
ten Brinke 2005	63	PSG/Questionnaire	Cross sectional/Difficult-to-treat Asthma	41.5 $\pm$ 14.1		26.98
Teodorescu 2010	472	SA-SDQ	Prospective/consecutive series	47 $\pm$ 14	28.4 $\pm$ 6.4	36
Teodorescu 2012	828	SA-SDQ	Prospective/consecutive series	47 $\pm$ 14	29 $\pm$ 7	33
Teodorescu 2013 old	154	SA-SDQ	Prospective/consecutive series	66 $\pm$ 4	29 $\pm$ 6	38
Teodorescu 2013 young	659	SA-SDQ	Prospective/consecutive series	42 $\pm$ 11	29 $\pm$ 7	32
Teodorescu 2015a	77	SA-SDQ	Prospective/consecutive series	50.4 $\pm$ 7.7	28.9 $\pm$ 5.5	48
Teodorescu 2015b	255	PSG	Prospective epidemiological survey	39 $\pm$ 13	31 $\pm$ 8	40
Yilga 2003	22	PSG	Prospective cohort/difficult-to-treat			
Zidan 2015	30	PSG	Prospective/consecutive series	49.12 $\pm$ 3.43		43.33

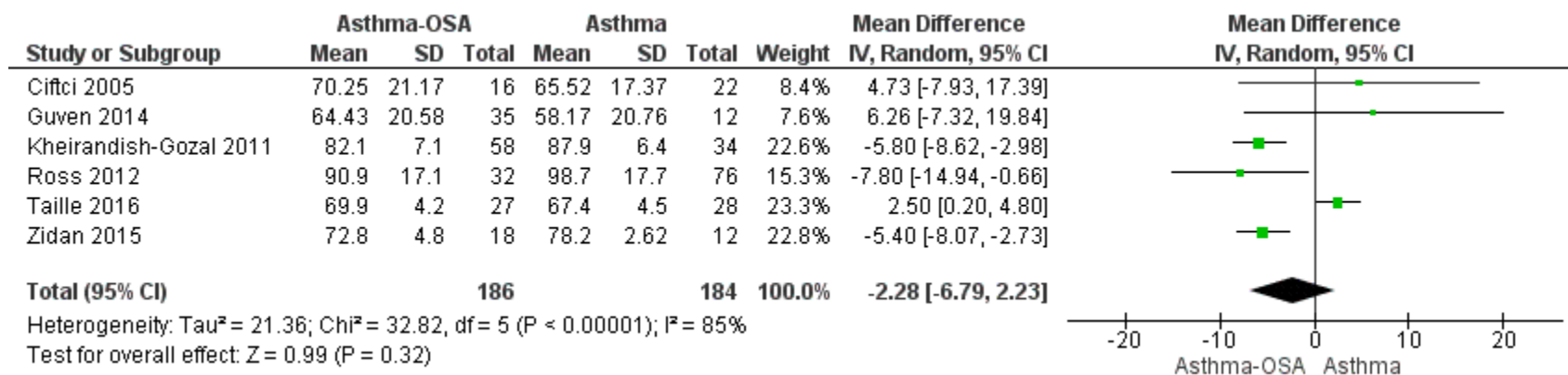


Figure S1: Forest graph showing the mean difference between asthma patients with OSA and without OSA in percent predicted FEV.

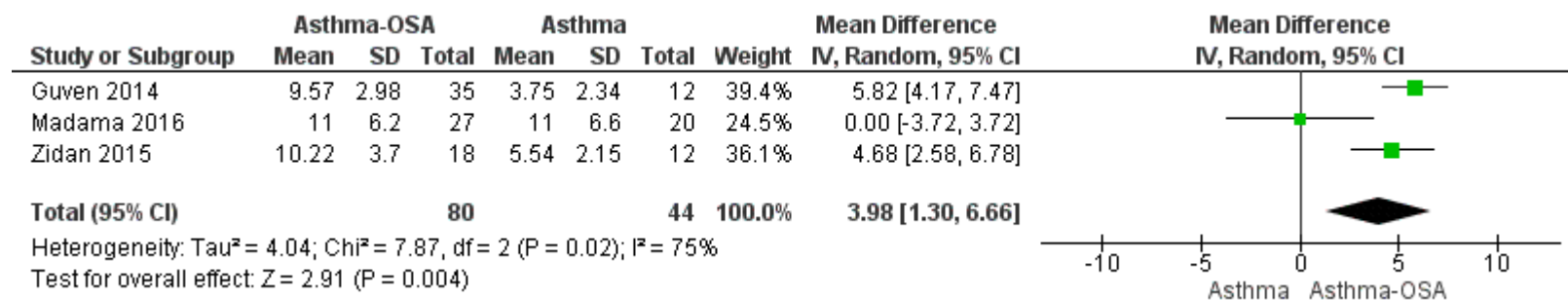


Figure S2: Forest graph showing the mean difference between asthma patients with OSA and without OSA in Epworth sleep scale scores.