Abstract P207 Table 1 Correlations between sleep-study measurements and clinical, demographic and anthropometric variables

		Age	Weight	вмі	Collar	Hip Circ.	Waist Circ.	Waist/ hip ratio	ESS	STOP BANG
Total	r	0.32	0.22	0.23	0.30	0.02	0.20	0.01	-0.41	0.35
AHI	p	0.004*	0.02*	0.02	0.11	0.94	0.41	0.97	0.68	0.002*
	n	114	114	114	29	17	19	17	104	72
ODI	r	0.22	0.30	0.28	0.41	0.12	0.37	0.11	0.02	0.31
	p	0.02*	0.02*	0.003*	0.04*	0.66	0.12	0.68	087	0.01*
	n	106	106	106	27	17	19	17	97	67
Mean SpO ₂	r	-0.36	-0.24	-0.24	-0.46	-0.11	-0.18	-0.02	-0.10	-0.297
	p	<0.001*	0.01*	0.01*	0.02*	0.68	0.46	0.93	0.32	0.02*
	n	106	106	106	27	17	19	17	97	67

^{*}Denotes stastistical significiance at p<0.05

Conclusions Referral rates for sleep studies pre-bariatric surgery have risen exponentially over the past 20 months, and 37% of patients studied had at least moderate OSA, presenting a burden for sleep services and CPAP provision. 35% of patients studied had no evidence of OSA. Although a sensitive test, STOP BANG alone did not reliably identify these lower-risk patients.

P208

A PROSPECTIVE OBSERVATIONAL STUDY TO EVALUATE THE EFFECT OF SOCIAL AND PERSONALITY FACTORS ON CPAP COMPLIANCE IN OSA

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Introduction Continuous positive airway pressure (CPAP) treatment for Obstructive sleep apnoea (OSA) is associated with variable initial acceptance and subsequent compliance with no consistent association with the severity of symptoms or physiological variables. There are very few data on the role of socioeconomic status, level of education and personality type. A recent retrospective study showed type D personality to be associated with poor compliance. ¹

Methods All patients with a confirmed diagnosis of OSA, recommended CPAP were considered. Baseline questionnaires were completed to assess employment and socio-economic status and type D personality. Compliance was measured at 6-10 weeks and 6 months. Results 265 patients participated in the study. Seven switched to Bilevel PA, 2 were excluded and four withdrew their consent; 224 were still using CPAP at 6 months. At baseline mean age was 52.1 (SD 11.0)/y, M:F 205:60 (3.4:1), Epworth sleepiness score (ESS) 14 (SD 4.4), BMI 37.1 (SD 7.8), 4% Desaturation index (DI) 27.9 (SD 20.6)/ h and AHI 28.0 (SD 18.6)/h. Mean compliance at 6-10 weeks and 6 months was 5.68 (SD 2.3) h and 5.31 (SD 2.3) h, respectively. 20.5% were using CPAP <4h/night at 6 weeks and 25.9% at 6 months. In comparison to individuals who were working (or retired from work), those who were long term unemployed (n=17)had a lower average CPAP usage at 6-10 weeks (4.08 h; SD 2.3) and 6 months (3.2 h; SD 2.6). This group was also more likely to use CPAP <4 h/night at 6-10 weeks and 6 months (OR 5.06, p=0.001 and OR 3.62, p=0.01 respectively). No association was found between different Socio-economic classes for people in work, type D personality, education level, sex, age, baseline ESS, DI and AHI with 6-10 weeks or 6 month compliance. Compliance at 6-10 weeks correlated strongly with 6 months compliance (rs=0.82).

Conclusion In our practice there is no significant association between CPAP compliance with socio-economic status, education

level or the personality type. People who are long term unemployed may need more intensive support to get optimal benefit from CPAP.

REFERENCE

Brostrom A. Journal of sleep research, Dec 2007.

P209

WHAT MIGHT PATIENTS MEAN BY "SLEEPINESS"?

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Introduction Patients describe the symptoms of obstructive sleep apnoea syndrome (OSAS) in diverse ways. Clinicians and scientists may have difficulty in differentiating sleepiness from tiredness and tools to measure subjective or objective sleepiness do not always match clinician assessment of sleepiness. To better understand how patients' view 'sleepiness' we asked those under investigation for OSAS to describe in their own words what sleepiness means to them. **Methods** 24 patients (20 male and 4 female) participated in the study. ESS scores were recorded the morning after sleep study when patients were also asked to record in their own words what sleepiness means to them. Three independent scorers, (nurse, scientist and physician) and an independent academic referee, themed answers. Participants also underwent on Oxford Sleep Resistant Test (OSLER) to quantify objective daytime sleepiness as a comparator.

Results ESS scores were grouped into the following ranges: ≤ 10 , 11-15, 16-24 and mean OSLER scores calculated for each group, table 1. Individually, OSLER scores did not correlate well with ESS scores and there was great variability in levels of objective daytime sleepiness. On average each patient gave 6 descriptors relating to sleepiness. Descriptors of sleepiness fell into three main categories: *mental function* (eg, "mugginess"), *physical sensation* (eg, "even moving about is exhausting") and *related to sleep or actual sleep* (eg, "I always fall asleep in the cinema"). Patients with an ESS: ≤ 10 gave more descriptors relating to *physical sensations* of sleepiness. Conversely patients with an ESS ≥ 11 gave more descriptors *related to sleep or actual sleep*.

Abstract P209 Table 1

		Mean		Median			No. sleepiness descriptors		
ESS ranges	N (m:f)	ESS	SD	OSLER	SE	IQR	М	р	S
≤10	9 (7:2)	8.9	1.0	22.5	4.7	23.2	7	23	9
11-15	7 (5:2)	13.6	1.0	16.3	6.1	9.7	16	13	23
16-24	8 (8:0)	18.5	2.1	17.6	6.2	15.1	10	12	22

M, mental function; P, physical sensation; S, related to sleep or actual sleep.

Conclusion This study has begun to assess how patients using their own words, describe the symptom of 'sleepiness'. Answers fell broadly into one of three categories: *mental function, physical sensation* and *related to or actual sleep*. Further understanding the construct of sleepiness to the patient may have importance in determining who is likely to benefit from therapy with CPAP.

Developments in the delivery of lung cancer care

P210

THE NATIONAL LUNG CANCER AUDIT—YEAR 5 COMPLETENESS AND OUTCOMES

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Introduction The National Lung Cancer Audit aims to record outcomes in lung cancer on a large scale and through case-mix

r, Spearman coefficient. Circ., circumference; ESS, Epworth Sleepiness Score; AHI, Apnoea Hypopnea Index; ODI, Oxygen Desaturation Index.