and non-smokers. The socio-cultural background needs to be considered when running public health campaigns due to differences in perception and responses to GHWL. Investigating the awareness of risks such as blindness, that have a low knowledge score but a high deterring impact, provides the chance to create a tailored approach when addressing this desensitisation.

**Introduction** Blood gas analysers in emergency departments (ED) routinely report carboxyhaemoglobin (COHb) levels, but unless environmental carbon monoxide poisoning is suspected, measurements are ignored, particularly when blood gases have been performed to check acid-base status. Raised initial COHb levels are likely to indicate highly nicotine dependent smokers needing specialist support to quit.

**Methods** Data were obtained from 824 samples analysed in the ED in June 2013. There were 82 samples with COHb levels >2.0%, including 66 from 55 identifiable patients. Only the first measurements were used. Records were requested and checked for diagnosis and smoking history.

**Results** 42 records were retrieved. The highest initial COHb level was 13.5%; 15 had levels >4.5%. There were eight confirmed COPD and two possible cases. Eleven patients presented with drug and alcohol poisoning. Table 1 lists diagnoses.

28/42 (66.7%) were current tobacco smokers; in 14 (33.3%) pack-years could be estimated. There was no smoking history recorded in seven patients. Seven others were recorded as non-smokers, but in five there was evidence to contradict this. One had an explanatory blood disorder, leaving one unexplained high level. Four patients smoked cannabis; all smoked tobacco cigarettes as well.

Only 4/42 (10%) were referred to stop smoking services (SSS), though 10/42 (23.8%) were already known and one was referred subsequently. Two previous quitters had evidently relapsed. Of the remainder known to SSS, two self-referrers quit, three failed and eight missed appointments.

In the largest group, those with drug or alcohol poisoning, smoking history was of poorer quality – pack-years could only be estimated in one case. Most had underlying mental health problems, None were referred to SSS.

**Conclusions** 1. Patients with COHb levels >2.0% are usually tobacco smokers.

2. Multiple substance dependence is common. Most have mental health problems and are rarely referred to SSS – a missed opportunity to improve life expectancy in this vulnerable population.

3. Carboxyhaemoglobin levels must be included in a systematic approach to identify people needing intensive support to quit smoking.

**Screening and treating sleep apnoea**

**Background** Obstructive sleep apnoea (OSA) has been previously reported as a major risk factor for perioperative adverse events. 1 Identifying patients with undiagnosed OSA can potentially have an impact on co morbidities and hospitalisation costs. 2

**Aim** To validate a previously reported screening tool for surgical patients suspected of having OSA.

**Method** A prospective study was performed in a university hospital between 1st Dec 2013 and 1st June 2014. An easy to use screening tool (STOP BANG) has been addressed to all patients prior to overnight oximetry sleep study during chest clinic assessment. The STOP BANG questionnaire incorporated 8 questions related to Snoring, Tiredness, Observed apnoeas, high blood Pressure, BMI ≥30 kg/m², Age ≥50, Neck size ≥15” and male Gender. Each affirmative answer was marked with 1 point. OSA was defined as dip rate ≥ 10 events per hour associated with an oxygen desaturation ≥ 4% below baseline value.

**Results** A total of 102 patients have been included, 57 males (55.8%) and average age 50.8 ± 14 years. 52 patients (50.9%) have been diagnosed with OSA out of which 29 patients (28.4%) had severe OSA (defined as dip rate ≥ 30 events per hour).

Using logistic regression analysis, a STOP BANG score of ≥ 3 had a sensitivity of 94.2% and specificity 72% with a positive predictive value of 77.8% and a negative predictive value of 92.3% in detecting OSA patients.

**Conclusion** We have identified a high incidence of OSA of 50.9% in our sleep study population. We have validated STOP BANG questionnaire to be a useful predictor of OSA with a sensitivity of 94.2% and specificity of 72%. This can be used during pre anaesthetic assessment indicating the requirement of chest clinic referral for sleep study at a score of ≥3.

**REFERENCES**
