great apprehension in performing and interpreting spirometry. The NICE (CG12) COPD guidelines state that all healthcare professionals managing patients with COPD should have access to spirometry and be competent in interpretation of results; and that it can be performed by any healthcare worker who has undergone appropriate training and keeps his/her skills up-to-date.

**Aims** We conducted an audit on junior doctors during their respiratory placement to establish whether hands-on skills training and teaching on spirometry in real-life may improve their understanding of the technique and reliability of interpreting spirometry.

**Methods** Doctors at different stages of training (foundation year (FY), core medical (CMT), GP vocational (GPVTs) and specialty trainees (ST)) participated in the audit. We used a pre-designed questionnaire containing a balanced mixture of questions testing procedural skill (maximum score 15) and interpretation (maximum score of 33) of different spirometry results. Confidence was assessed using a separate questionnaire of four domains. Baseline data was collected within the first month of joining the respiratory rotation, followed by training on technique and interpretation of results assisted by an accredited pulmonary physiologist (total time of 45 minutes). The same doctors were reassessed on the questionnaires in 12–16 weeks.

**Results** 25 doctors completed the audit assessment (10 FY1, 5 FY2, 4 CT1, 2 CT2, 2 GPVTs and 2 ST3). Significant improvements from baseline were noted in the median (IQR) scores of performance of spirometry technique (6 (4, 8) to 9 (8, 11); p<0.001) and interpretation (11.5 (5, 15) to 18 (17, 24.5); p<0.001). Moreover, there were marked improvements in total (performance and interpretation) and confidence scores from baseline.

**Conclusion** This audit demonstrates that spirometry is easily taught and its interpretation is a useful skill to acquire irrespective of a future career in respiratory medicine. We suggest that training for Foundation Year doctors is effective and feasible, and should be included in training programmes as spirometry is more reliable in the diagnosis and management of common respiratory conditions than PEFR testing mandated in the GMC core procedures.
the responsibility for asthma control on themselves and not their HCP (Table), even among those with average or poor symptom control. Many respondents believed that lack of asthma control was inevitable, with 81% accepting that they would experience symptoms and 86% acknowledging that asthma would have an impact on their life.

Conclusions Patients have low expectations of the level of asthma control that can be achieved. Despite a good relationship with their HCP, many individuals do not attend regular asthma reviews, and awareness and use of Personal Asthma Action Plans is low. There is a clear need for continued education and initiatives to increase awareness among both HCPs and patients about asthma management plans and supported self-management.

Abstract P241 Table 1 Patient beliefs regarding the main responsibility for the management of their asthma

<table>
<thead>
<tr>
<th>Responsibility</th>
<th>All patients (n = 1083)</th>
<th>Very good or good (n = 859)</th>
<th>Average or poor (n = 224)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Myself</td>
<td>70%</td>
<td>73%</td>
<td>58%</td>
</tr>
<tr>
<td>Myself and HCP</td>
<td>29%</td>
<td>26%</td>
<td>38%</td>
</tr>
<tr>
<td>HCP</td>
<td>1%</td>
<td>1%</td>
<td>3%</td>
</tr>
</tbody>
</table>

HCP, healthcare professional.

P242 PATIENTS OVERESTIMATE THEIR DEGREE OF ASTHMA CONTROL DESPITE THE PRESENCE OF SYMPTOMS: A UK SURVEY

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Introduction and Objectives Many patients with asthma overestimate the extent to which their symptoms are controlled, which may suggest that the real-world burden of the disease is greater than reported. This abstract reports data from a UK-based survey assessing the variation between patients’ perceptions of asthma control and their symptoms.

Methods This was a cross-sectional online survey administered by YouGov plc (November 2011) to a panel of over 350,000 individuals. Panelists who had previously identified themselves as having asthma were invited by e-mail to participate in the survey. Responses were collated and analysed by YouGov and Insight Research Group. Overall, 1083 individuals completed the survey; 49% of respondents were aged over 55 years and 45% were male. Almost two-thirds (64%) of patients were using both reliever and preventer therapy and 17% were using reliever medication only.

Results Most respondents reported that their asthma control was ‘very good’ (57%) or ‘good’ (42%). However, 19% of respondents described having uncontrolled asthma (i.e. ‘symptoms not very well managed’) at least once a month and 10% reported lack of asthma control at least once a week. In the 2 years prior to the survey, 12% of individuals had visited an accident-and-emergency department due to their asthma (ranging from 1 to 5 visits). Moreover, 41% of individuals used reliever medication at least once a day, and almost two-thirds experienced frequent (at least ‘sometimes’) day-time symptoms and over one-third had frequent night-time symptoms (Table). The most common day-time symptoms were coughing (experienced by 65% of individuals at least ‘sometimes’), wheezing (62%) and breathlessness (58%). Despite this, 91% of respondents were ‘very satisfied’ or ‘fairly satisfied’ (44% and 47%, respectively) with their level of asthma control, and 59% did not believe it was possible to improve control.

Conclusions Patients are generally satisfied with their level of asthma control despite evidence of poor symptom control, suggesting a disconnection between patient perception of asthma control and actual asthma control. This suggests a need for further education to help patients better recognize the symptoms of poor asthma control and how this can help them aspire to greater asthma control.

P243 ARE HEALTHCARE PROFESSIONALS AWARE OF COSTS OF RESPIRATORY INHALERS?

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Introduction In 2011, 8 of the top 5 most expensive drugs to the NHS were respiratory inhalers, the most expensive being Seretide 250 evohaler. To achieve best value from our respiratory spend, healthcare professionals (HCPs) should know the relative costs of inhalers, and that their patients are using these devices appropriately. We undertook a survey of HCPs to test their knowledge of respiratory inhaler cost and how well the devices are used.

Methods We created a Survey Monkey questionnaire concerning the costs of commonly prescribed respiratory inhalers (see table) allowing respondents to click on an approximate range of costs for one month’s treatment at normal recommended dose. We also asked about awareness of the evidence for effective use of metered dose inhalers (MDIs) by patients and HCPs. The survey was disseminated by email from various databases in community and hospital care within NHS London and beyond, especially to those involved in respiratory care.

Results There were 1274 respondents, 21% were doctors, 38% nurses, 21% pharmacists and 15% allied healthcare professionals (AHPs), 70% had a respiratory interest and 89% were clinicians. Overall, the correct price range was identified by fewer than 50% of all respondents for the inhalers tested (except generic salbutamol), the worst being for Seretide 250 evohaler and Ventol in evohaler (see table). 76% of respondents were not aware that fewer than 10% of patients can use an MDI effectively and 87% were not aware that fewer than 10% of HCPs can demonstrate the correct use of an MDI. Having attended a London Respiratory Team (LRT) event significantly improved the correct response rate (see table).

Conclusions Most HCPs are not aware of the costs of inhalers and how poorly some inhalers are used. Increasing awareness of cost