Is investigation of patients with haemoptysis and normal chest radiograph justified?

We read with interest the article by Thirumaran et al. They described their experience of 270 consecutive patients referred with haemoptysis and a normal chest radiograph. In their study they found the incidence of respiratory malignancy within this group was 9.6% (26 individuals) and of these 22 were primary lung malignancies. This is slightly higher than the 3–6% incidence previously reported in the literature.1–4

We have delivered a nurse-led clinic for patients referred via the 2 week wait system with haemoptysis and a normal chest radiograph. In our study we confirmed the incidence of respiratory malignancy within this group was 9.6% (26 individuals) and of these 22 were primary lung malignancies. This is slightly higher than the 3–6% incidence previously reported in the literature.1–4

A total of 348 patients were seen in this clinic (215 male, 133 female) between 2003 and 2008. Leicester has a large ethnic minority population and 41 (11.8%) of the 348 patients were of South Asian origin.

Thirty-four patients referred, on detailed history taking, did not have haemoptysis at all. The presenting problems reported by these patients included bleeding gums, ill-fitting dentures and epistaxis.

The investigation modality of choice was CT scanning of the thorax and upper abdomen. A total of 165 patients were referred for CT scan at their initial consultation with the nurse. Fibreoptic bronchoscopy (FOB) was only utilised to confirm tissue diagnosis in patients diagnosed with a thoracic malignancy.

Twenty-three patients (6.6%) were diagnosed with a lung malignancy in our clinic.

The other common diagnostic causes of haemoptysis are shown in Table 1.

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>Number of patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cancer</td>
<td>23</td>
</tr>
<tr>
<td>Bronchiectasis</td>
<td>52</td>
</tr>
<tr>
<td>Infection</td>
<td>107</td>
</tr>
<tr>
<td>Idiopathic</td>
<td>70</td>
</tr>
<tr>
<td>ENT</td>
<td>24</td>
</tr>
<tr>
<td>Cardiac</td>
<td>6</td>
</tr>
<tr>
<td>Pulmonary embolism</td>
<td>5</td>
</tr>
<tr>
<td>Not haemoptysis</td>
<td>34</td>
</tr>
<tr>
<td>Anticoagulation therapy</td>
<td>8</td>
</tr>
<tr>
<td>Vascularities</td>
<td>4</td>
</tr>
<tr>
<td>DNA follow-up</td>
<td>13</td>
</tr>
<tr>
<td>Died</td>
<td>2</td>
</tr>
</tbody>
</table>

The learning curve for EBUS-TBNA

We read with interest the paper by Kemp and colleagues which utilises cumulative sum (CUSUM) to analyse the learning curves associated with endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-TBNA). The retrospective study from five centres demonstrated that variable learning periods are required to attain proficiency in the procedure, and a pooled sensitivity of 67.4% was observed.

The authors are to be commended on using CUSUM to calculate the learning curves for EBUS-TBNA; however, several points deserve comment. First the study only includes patients undergoing EBUS-TBNA for the diagnosis or staging of lung cancer. In clinical practice, the procedure is also commonly employed for the diagnosis of isolated mediastinal lymphadenopathy, and these procedures should be incorporated in the learning process. Secondly, the authors included non-malignant nodes in the CUSUM analysis. Therefore, it may be possible to inadequately sample a benign node and for the result to be assigned as a true negative. This highlights the importance of reporting the disease prevalence for each cohort. Thirdly, utilising the criteria employed in this paper, there is potential to have thoracic malignancies and freeing up resources in the urgent 2 week wait clinic.

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