A rare presentation of a rare disease

A 29-year-old woman presented to the gynaecology services with a history of cervical smear cytology and punch biopsy showing human papillomavirus related changes, associated with moderate dyskaryosis. She had undergone laser loop excision biopsy of the transformation zone (LLETZ) two years before for previous abnormal smears. This showed moderate dysplasia in the ectocervical epithelium, but was otherwise unremarkable. A second laser loop biopsy was performed. This was received in the histopathology department in two pieces, 1.5 and 1.2 cm in greatest dimension, respectively. On microscopic examination, focal mild squamous dysplasia was identified in each piece. However, in addition to this numerous eosinophils were seen in the cervical stroma. On close inspection, these were admixed with histiocytic cells, the nuclei of which displayed a degree of atypia, with a convoluted shape (see figs 1 and 2 for low and high power views, respectively). Immunohistochemistry revealed these cells to be positive for S100 protein (fig 2) and CD1a (fig 3). A diagnosis of Langerhans cell histiocytosis (LCH) was made.

Following this diagnosis, the previous cervical smears were reviewed, but apart from the dyskaryotic squamous cells reported previously, no other abnormal cells were identified.

No case has been found in the literature in which the diagnosis of cervical LCH was made as an incidental finding in a LLETZ biopsy, as in our present case.

In summary, our present case is of interest in that it draws attention to a disease with potential systemic importance, which is not only rare in itself, but only very rarely presents with a cervical lesion.

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References

Sputum cytology: an unsatisfactory test?

After the correspondence of Burton and colleagues and the Royal College of Pathologists’ working group guidelines on the use of sputum cytology as a diagnostic test, we reviewed sputum figures for our department for the period 1998–2001. The results are shown in table 1. These figures confirm that a high proportion of samples are unsatisfactory (30%), although our diagnostic rate (8%) for malignancy was higher than that of Burton et al1, who identified only a solitary carcinoma. In addition, although most of the unsatisfactory specimens were submitted by non-respiratory physicians, it was this group that yielded the high pick up rate of malignancy (73%). We consider from these results that sputum cytology still has a place in the investigation of patients with suspected lung malignancy who are unsuitable for bronchoscopy. We agree however that careful selection of patients and correct collection of adequate lower tract material are essential. Although sputum sampling is thought of as a relatively quick, easy, and cheap investigation, it is labour intensive for pathology laboratory and medical staff to prepare and examine. In this present climate of pathology staff shortage, we agree that the use of this test should be restricted.

Table 1

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>Number</th>
<th>Clinical source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benign</td>
<td>394 (51%)</td>
<td>Respiratory physicians, 27%</td>
</tr>
<tr>
<td>Cytological atypia</td>
<td>82 (11%)</td>
<td>Non-respiratory physicians, 73%</td>
</tr>
<tr>
<td>Malignant</td>
<td>58 (8%)</td>
<td>Respiratory physicians, 10%</td>
</tr>
<tr>
<td>Unsatisfactory</td>
<td>238 (30%)</td>
<td>Non-respiratory physicians, 90%</td>
</tr>
<tr>
<td>Total</td>
<td>772 (100%)</td>
<td></td>
</tr>
</tbody>
</table>

PostScript

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References

Glottis oedema and interstitial pulmonary disease as a result of extramedullary haemopoiesis in polycythaemia vera rubra causing asphyctic death

Polycythaemia vera rubra (PV) is a clonal disorder of the pluripotent haematopoietic progenitor cell, with overproduction of phenotypically normal erythrocytes, granulocytes, and platelets in the absence of recognisable stimuli. PV usually becomes clinically apparent as a result of splenomegaly, hyperuricaemia, and platelet counts of erythropoietin. Trephine examination revealed dense predominantly perivascular, factor VIII, glycophorin C, and myeloperoxidase positive haemopoietic cell infiltrates—extramedullary haemopoiesis (fig 1). Haemopoietic cells also infiltrated the neck lymph nodes, the spleen, and the liver, in addition to the pulmonary interstitium, even the alveolar septa. Postmortem bone marrow examination revealed a 95% cellularity with moderate fibrosis and 1% CD34 positive blasts. Asphyxia caused by treatment resistant respiratory insufficiency on the background of laryngeal and interstitial pulmonary infiltration by PV tissue was classified as the cause of death. Both factors impaired external and internal respiration, perturbing ventilation and gas diffusion. Concerning adequate treatment in such circumstances, a good response to local radiotherapy has been described in one less dramatic case. Clinicians should be aware that PV can progress to an uncontrollable generalised disease and infiltrate the respiratory organs.

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References

Figure 1 Extramedullary haemopoietic infiltration of the laryngeal submucosa consisting of megakaryocytes, myelopoietic cells, and erythropoietic cells. Original magnification, x400.

CD10 is useful in demonstrating endometrial stroma at ectopic sites and in confirming a diagnosis of endometriosis

We read with interest the article by Sumathi and McCullage entitled “CD10 is useful in demonstrating endometrial stroma at ectopic sites and in confirming a diagnosis of endometriosis” in a recent issue of this journal.1 Coincidentally, we did the same kind of study regarding CD10 for our intradepartmental research work. Regarding cases of endometriosis of the ovary, we also included cases that were “suggestive of endometriosis”, which is described in Ackerman’s surgical pathology.2 It reads: “Not frequently, the repeated hemorrhages have totally destroyed the endometrial tissue, the cyst being lined by several layers of hemosiderin-laden macrophages. Under these circumstances, the most the pathologist can do is to report the case as a hemorrhagic cyst and comment that the changes are ‘consistent with those of endometriosis’.” The term “presumptive endometriosis” is also used in Ackerman’s surgical pathology. Thus, by using CD10 immunostaining, we can make a definite diagnosis of ovarian endometrial cyst even if there is no obvious component of endometrial epithelium. We also had an interesting case of diaphragmatic endometriosis in a patient with catamenial pneurocrax,3 in addition to a very rare case of intraluminal endometriosis of the fallopian tube occluding the tubal lumen.4 In these cases, CD10 was also useful to confirm the diagnosis because glandular components were noted within the muscle of the diaphragm and in the muscle layer of the fallopian tube, mimicking invasive adenocarcinoma with lymphoid stroma. Sumathi and McCullage described three cases that were negative for CA125 in their study. We wonder if they found cilia in those glands in these cases, and if they changed their diagnosis of endometriosis because of the negativity of CD10. Some cases of endometrial polyps are clinically misdiagnosed as “cervical polyp” and these cases can correctly be diagnosed by using CD10 immunostaining. CD10 was useful in our study for the confirmation of such cases. In addition, we incidentally found that some endometriotic nodules situated within the lamina propria of the uterine cervix were surrounded by CD10 positive stromal cells, which could be indicative of superficial endometriosis of the uterine cervix. However, the diagnosis can be missed by haematoxylin and eosin staining alone because the stromal component is too sparse or loose for the endometrial stroma. Finally, we would like to add some more information regarding CD10 in the field of gynaecological pathology. It is not to note that mesonephric remnants and mesonephric derived tumours are positive for CD10.5 Because there have been no good markers to identify mesonephric remnants and mesonephric derived tumours, the use of CD10 can be valuable in such instances.

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References

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BOOK REVIEWS

Essentials of Anatomic Pathology

What is the best format to store and transmit information? With the development of electronic storage media and the Internet, paper is not always the first choice but even if it is then there are other decisions to be made. Will the book be illustrated? Will it be written in fully expanded grammatical prose or will some information be contained in lists and tables? How will it be indexed? What degree of cross referencing will be included?

The authors of this textbook have taken the unusual step of producing a large (893 page) multiauthor text on anatomical pathology with no illustrations and all the text presented as succinct bulleted lists. Because I come from the “picture is worth a thousand words” school of information presentation and assimilation, I was initially sceptical of this approach, but I spent some time investigating the usefulness of this format.

The book is divided into general pathology and organ systems. Each organ chapter is divided into the usual categories of congenital anomalies, inflammatory, and neoplastic conditions. Each condition has its features listed under headings such as clinical, macroscopic, microscopic, immunohistochemistry, electron microscopy, and differential diagnosis. However, these are pure lists with very little explanatory text. Any technical description of a histology appearance—for example, pionic rosettes or nuclear pseudoinclusions—will send trainee pathologists scurrying to a reference text, and the absence of an index mean that useful information can only be found through the contents list at the start of each chapter.

Despite the best intentions of the authors of this book I cannot find any use for it within a diagnostic histopathology laboratory for either consultant or trainee pathologists. The absence of illustrations, the list form of the text, and the absence of an index mean that there are a multitude of more accessible and useful sources of this information.

S Cross

Leucocyte Typing VII

This book is the edited proceedings of the seventh conference or international workshop on white cell differentiation antigens held in Harrogate UK in June 2000. Although originally confined to white cells like Topsy these meetings have grown to encompass many other related cell types, such as dendritic cells, endothelial cells, platelets, and red blood cells.

Originally, these meetings involved the authors of the book I cannot find any use for it within a diagnostic histopathology laboratory for either consultant or trainee pathologists. The absence of illustrations, the list form of the text, and the absence of an index mean that there are a multitude of more accessible and useful sources of this information.

In summary, this is a good reference to the most recent CD conference. It is also probably the most up to date guide to these molecules and has many aspects that are of interest and use to practising pathologists. However, it is not a comprehensive work of reference and should not be bought in the hope that it could fulfill this task.

K Gatter

Biochemical Investigations in Laboratory Medicine

I was considering buying this book but to my delight a gratis copy arrived on my desk to review. But would it have been worth purchasing?

The book, published in the form of a glossy ring binder, presumably for hands on laboratory use, gives diagnostic algorithms and protocols for various biochemical dynamic tests. Competitors would possibly include Algorithms in Chemical Pathology, by M Crook, Butterworth-Heinemann and The Bart’s Endocrine Protocols by PJ Trainer and M Besser, Churchill-Livingstone. Not everyone will necessarily agree with the algorithms described by the authors. I found some possibly a little odd but they nevertheless cover a range of conditions likely to be encountered by the hospital laboratory.

I found the book particularly useful regarding the reporting and the detail available depends upon the comprehensiveness of this section as a reference. The chapters in the individual sections are well laid out and edited. The coverage and the detail available depends upon the individual contributions to the conference.

In summary, this is a good reference to the most recent CD conference. It is also probably the most up to date guide to these molecules and has many aspects that are of interest and use to practising pathologists. However, it is not a comprehensive work of reference and should not be bought in the hope that it could fulfill this task.

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