The time needed to fix the ink is even shorter than with Bouin's solution, being less than 10 seconds, and the staining effect obtained with Bouin's solution, sometimes unwanted, is avoided. The solution must be changed weekly.

No microscopical artefacts have been seen and no tissue damage at the histochemical or immunohistochemical level have been revealed after four months of routine use. The solution has now been permanently introduced in our dissection room.

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Necrobiosis granulomas of the urogenital system

We agree with Dr Agel1 that the granulomatous tissue response associated with diathermy and laser treatment warrants wider diagnostic recognition. Unfortunately, however, Dr Agel appears to have overlooked our own contribution2 to the nature and origin of diathermy pigment in such specimens. We also believe that the potential biohazardous nature of diathermy pigment, because of the nature of its metallic composition, is poorly appreciated and deserves greater emphasis.

In our study 14 cases of postsurgical granulomatous inflammation within the urinary tract were investigated using electron microscopy and energy dispersive analysis of x rays (EDAX). The findings were then correlated with the histological presentation of diathermy instruments which had also been subjected to metallurgical analysis. The brown staining material, observed on light microscopy by ourselves and Dr Agel, appeared amorphous ultrastructurally and was found to contain iron, calcium, aluminium, phosphorous, sulphur, and chlorine by EDAX. This material was interpreted as necrotic tissue with absorptive ovarian salts from the surrounding body fluids. By contrast, dark particles of material present appeared electron dense and contained variable combinations of three different groups of elements. These comprised pure tungsten, from tungsten wire containing loops, copper, zinc, nickel, manganese, and iron from nickel silver coagulation “roller balls” and iron, chromium, nickel, manganese, sulphides, copper, and vanadium from the stainless steel supporting wires. Whereas tungsten is probably biologically inert, evidence indicates that nickel, chromium, copper, and zinc are immunogenic. Also, in certain circumstances, both nickel and chromium can be carcinogenic. Consequently, on the basis of these observations, we have suggested that it is probably advisable to discontinue the use of nickel, chromium, zinc, and copper in the manufacture of diathermy electrodes. A strengthened tungsten electrode, possibly in a ceramic mount, would seem to offer a more biocompatible alternative.

It would also appear desirable that the granulomatous response following later treatment is similar, extensive microanalytical study. Aluminium oxide, possibly derived from the laser housing, has been found in one case.3

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Dr Agel comments:

I thank Dr Slater and Professor Henry for their comment on my letter.1 My letter described the presence of “diathermy pigment” in most of the granulomas found in uteri and urinary bladders following either laser or diathermy resection. The recognition of such a pigment should be of help to diagnostic histopathologists when investigating granulomatous conditions of the urogenital system. It was not my intention to discuss the nature of the pigment; such discussion will appear in a detailed paper which describes our cases where the work of Henry et all2 will be appropriately quoted.

Audit of tumour pathology reviewed by a regional oncology centre

I was very encouraged to read of the audit of tumour histopathology referred by a district general hospital centre to the regional oncology centre.1 It includes my own areas of difficulty, lymphomas, sarcomas and grading of ovarian epithelial neoplasms. I also note a statement in the introduction, which should perhaps be given greater emphasis, that a copy of the pathological findings is sent back from the oncology centre to the district general hospital.

Patients from our hospital are referred to several specialist oncology and radiotherapy centres, and slides and reports are sent. Long before the advent of any formal external quality assessment schemes, I have found a copy of the reviewing pathologist’s report to be extremely helpful, routine form of quality control. It enables any major or minor diagnostic discrepancies to be considered, reveals what classification is being used and suggests what prognostic histological features should be mentioned. There is a second important practical consideration. The patient will return to the district hospital for follow up and possible further biopsies. If there is a significant discrepancy between the report of the referring pathologist and the diagnosis given back to the clinician, the potential exists for future confusion unless the pathologist is aware of it. Over the years I have found that some pathology departments are extremely punc-

tilious about sending their reports. Some rely on a single conscientious individual who may leave and occasional hospitals cannot seem to manage it with any degree of reliability.

Most departments are now computerised. I would like to receive a P lease that it becomes routine practice that referral centres send an extra copy of the report on all reviewed histology for the referring histopathology department. This practice is much less expensive than external quality assurance assessment schemes, and is both courteous and useful to the referring pathologist.

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Book reviews


The objective of this atlas, as stated in the preface to the first edition, is to present gynecological pathology in broad terms giving the novice a general introduction. The back flap claims that the atlas is an essential diagnostic tool for every pathologist and gynecologist. Does this atlas achieve these goals which appear prima facie to be mutually incompatible?

A strong correlation between clinical and pathological appearances is achieved in this work. Embryological development and normal histology are described at the beginning of the chapters. This book contains clinical pictures, many colour photomicrographs and also, new to this edition, many radiological illustrations. Annotated drawings accompany photomicrographs and radiological images to facilitate their interpretation. The text on the back flap mentions state-of-the-art electron micrographs; I did not find any, although a few photomicrographs of immunohistochemical staining are included.

It is a pleasure to browse through this atlas as the photomicrographs are almost all of good quality. The text is generally well integrated with the pictures. The balance of text and numbers of photomicrographs follows the authors’ stated objective. Nine pages including 20 photomicrographs are devoted to placental development. Borderline serous and malignant ovarian tumours are described with brief and the accompanying text does not clearly indicate the histopathological criteria of borderline malignancy. The absence of rare but well described lesions and general lack of histopathological differential diagnostic considerations limits the usefulness of this atlas for the diagnostic histopathologist.

This book does, I think, achieve the stated aims of an introduction to gynaecological pathology though some paragraphs of text could well lead to confusion. To achieve the prime object has led, as the authors’ accept, to selection of material. Though the pictures are delightful, I cannot recommend this atlas as a histopathology bench book.

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Necrobiotic granulomas of the urogenital system.

D Slater and L Henry

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