MATTERS ARISING

Fournier's gangrene and HIV disease

We were surprised to read the recent claim by Nelson and colleagues to have described the first case of Fournier's gangrene in a patient with HIV disease.1 Contrary to the authors' assertion, this was in fact first reported in this very journal a little more than a year previously.2 Moreover, the clinical features of the case described by Nelson et al are somewhat unusual and merit further comment.

Fournier's gangrene is a well defined syndrome of necrotising fasciitis of the male genitalia and perineum leading to gangrene of the overlying dermal tissues.2 It is caused by a synergistic polymicrobial infection of the subcutaneous tissues, which spreads rapidly along the fascial planes. Although in severe cases this necrotising infection can spread to involve the anterior abdominal wall, few reports have documented this process extending as far as the axilla.3 In the case described by Nelson et al the patient had widespread ulcerating lesions affecting the axilla, both groins and perineum in addition to scrotal necrosis. It is unclear, however, if the axillary lesion was a direct result of contiguous infection spreading from the scrotum and groin or caused by a separate or secondary pathological process. Did the surgical debridement consist of removal of contiguous dermal tissue along the destruction of the axilla or was more extensive incision and drainage of subcutaneous tissues required, up to and including the axilla?

Pseudomonas aeruginosa, which was isolated from the blood and groin lesion in the authors' case, is associated with a number of specific cutaneous lesions.4 Although it has been identified as an aetiological agent in Fournier's gangrene,5 it is classically associated with an infective necrotising vasculitis which results in a distinctive necrotic skin lesion—ecchyma gangrenosum. The clinical description of ecchyma gangrenosum and its cutaneous distribution bear a striking resemblance in nature and pattern to the lesions described by Nelson et al. Ecchyma gangrenosum lesions are characterised by round, indurated, ulcerated areas with black necrotic centres.6 They can be single or multiple, cause extensive tissue damage and are typically found in the groin, scrotum, perineum and axilla.6 Although experimental evidence suggests that ecchyma gangrenosum can arise from local invasion, in general it is regarded as a specific manifestation of severe systemic pseudomonas infection, usually in immunocompromised and often infected hosts.6 Histological distinction of these conditions should be possible. Ecchyma gangrenosum is characterised by a necrotising vasculitis with bacterial invasion of the media and adventitia of arterial and venous walls with a sparse neutrophil infiltrate and little or no intimal involvement.7,8 Occasionally fibrin thrombi are found in small vessels. In contrast, Fournier's gangrene causes an oblitative endarteritis with prominent subcutaneous vessel thrombosis which is responsible for the subcutaneous tissue necrosis.9

The diversity in case description in the literature suggests that the diagnosis of Fournier's gangrene of the scrotum is not uncommonly a misnomer.10 Given the similarities of this reported case of Fournier's gangrene to the clinical and microbiological description of ecchyma gangrenosum, histology of the cutaneous lesions would have proved of considerable interest.

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1 Nelson MR, Cartledge J, Barton SB, Gazzard BG. Fournier's gangrene following hyphaecra-


3 Jones RB, Hirschmann JV, Brown GS, Tremel JA. Fournier's syndrome: necrosi-


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BOOK REVIEWS


The advances in molecular biology have revolutionised the prospects for a better understanding of both the biology and rapid diagnosis of opportunistic infections.

This book covers most aspects of the molecular and cell biology of opportunistic infections in AIDS and also attempts to explain the principles and applications of molecular techniques to these diseases.

Each chapter is divided into an introduction, which is followed by a section on anti-
genetic and genetic organisation and ends with the molecular approaches to diagnosis. Importantly, a recent and comprehensive reference list concludes each chapter.

By way of introduction, the first two chapters include a clinical overview of opportunistic infections in individuals with AIDS together with the fundamental concepts regarding gene and probe amplification techniques. The subsequent chapters, especially those covering cytomegalovirus, toxoplasma, candida, mycoplasma and herpes viruses, are informative and well written.

The book is aimed at clinicians and scientists and provides clear and concise updates on most of the opportunistic infections in individuals with AIDS. It is a well presented and useful guide although it would have benefited from more illustrative diagrams and tables. However, the remaining chapters could have expanded their sections on the molecular approaches to diagnosis bearing in mind the problems of serological studies in immunocompromised patients.

In addition, by the editors' own admission, they could be criticised for excluding a discussion of cryptococcal infections and including a section on salmonella, shigella and campylobacter.

Although a broad spectrum of opportunistic infections is included, it would have been of interest to have had a small section concerning the polyoma viruses, such as JC virus, which causes progressive multifocal leukoencephalopathy in the majority of patients with AIDS. This could have possibly been included with the herpesviruses in the setting of opportunistic viral infections.

Despite these minor reservations, it is a book that is a very useful reference, is excel-

lent for dipping into and at £40 it would be a valuable edition to a departmental library.

MARK ZUCKERMAN


Candida infections increase year upon year in number and variety. They are encountered in general practice and a wide range of specialities. The use of antifungal and antibacterial antibiotics is still a common cause; however, there are more and more immunocompromised patients because of medical treatments for cancers and organ transplantation, as well as diseases such as HIV and AIDS. This multiauthor text succeeds in summarising knowledge of candida infections ranging from biology of the organisms involved, through clinical conditions and treatments, to the pharmacokinetics of antifungal agents. Like many texts that cover one subject it has something for everyone, but, perhaps not enough for the individual specialist.

The editor and the authors (with one exception) are all from the USA, many from Houston, Texas. They come mainly from the field of infectious diseases. Thus there is one contributor from dermatology but none from gynaecology or genitourinary medicine.

Consultants, specialists and trainees in genitourinary medicine in the UK will be particularly interested in three chapters that on oral and esophageal candidiasis, and