In search of intraocular antibody production to parvo B19 virus and adenovirus in intermediate uveitis

Editor,—In the majority of patients with intermediate uveitis the aetiology of ocular inflammation is unknown. Some cases are associated with systemic diseases, such as sarcoidosis or multiple sclerosis. There is also evidence that viral infections are involved in the pathogenesis of intermediate uveitis. In patients with multiple sclerosis and uveitis, an intraocular antibody production to measles virus has been observed1 and intermediate uveitis during an acute Epstein-Barr virus infection has been reported.2 There has also been speculation that parvo B19 virus and adenovirus might be involved in the pathogenesis of intermediate uveitis.3 Infections with paroviruses occur worldwide with 40–60% of adults showing evidence of previous infection. Parovirus is associated with erythema infectiosum (fifth disease) and a wide variety of other syndromes such as polyarthritis, vasculitis, and neurological syndromes, but an infection may also occur without any symptoms.4 An indication for parvo B19 virus involvement in ocular inflammation is a case report of a patient with bilateral uveitis during an acute parvo B19-virus infection.5 Adenovirus also occur frequently in the community. Some of the respiratory viruses, adenoviruses cause the widest variety of illnesses, but in half of the cases the disease is asymptomatic. Ocular syndromes, caused by adenovirus infections are epidemic keratoconjunctivitis and acute haemorrhagic conjunctivitis, sometimes accompanied by a mild anterior uveitis.6

To investigate whether parvo B19 virus and adenovirus are involved in the pathogenesis of intermediate uveitis sera of patients with intermediate uveitis, and no evidence of other associated diseases, were tested for the presence of specific IgG antibodies to parvo B19 virus (18 sera) and adenovirus (10 sera). The ocular disease existed for at least 1 year. Subsequently, the ocular fluids of patients with circinate keratoconjunctivitis and intermediate uveitis were tested for the presence of specific antibodies. The ocular fluid samples had been collected for other diagnostic reasons. The antiviral antibodies were determined with specific enzyme linked immunosorbent assays. (Parovirus IgG ELISA: ELISA Associates, Germany; Adenovirus ELISA: Virotech, Germany.)

Six of the 18 sera (33%) were positive for IgG antibodies to parovirus and nine of the 10 patients (90%) were positive for antibodies to adenovirus indicating previous contact with these viruses. Viroptic Fluid (n=2) and aqueous humour (n=4) of the six patients positive for parovirus in serum and viroptic fluid samples of two patients negative for parvo B19 virus in serum were tested for antiparvo-

...surgical texts, particularly for those surgeons dealing with a large cosmetic or reconstructive practice. In this regard there are very few books that deal with this form of comparative anatomy, and at this excellent level of illustration. These alone make the book good value for money.

I recommend, however, that this book should not be used alone! Ewan G Kemp


This book provides an imaging anatomical atlas of the orbit and those parts of the brain relevant to ophthalmology using magnetic resonance (MR) and computed tomography (CT) images.

The first chapter, which takes up one quarter of the whole book, deals with the basics of MR and CT imaging. The description of MR, like those which seem to appear in all imaging texts mentioning MR, struggles between coverage of the subject and brevity and would, I think, confuse the uninitiated and does not contribute to the subject matter of the book. The emphasis on MR compared with CT in this chapter (37 compared with 5½ pages) is reflected in the rest of the book.

The other chapters consist of approximately 140 annotated MR and CT images of normal anatomy accompanied by a short explanatory text. The image quality is good and the annotation clear. The index is comprehensive and easy to use. A short self-assessment examination completes the book.

This book may be of occasional use to the radiologist in training though current imaging atlases cover most of the areas studied. The ophthalmologist may find the book helpful in providing an illustration of current imaging possibilities.

Oliver Robb


This book deals in a very specialised manner with the cosmetic aspects of this topic. The illustrations and artwork make an immediate impact; they are of interest as one of the main authors is the artist involved, and they reflect a very keen approach to both exact and surface anatomy. The reproduction of these illustrations is excellent and consistent with the very high standard expected and set by this particular publisher. The two main authors enlist only a further three specialists for assistance, and this familiar style and concept established by them is maintained, making the reading of the accompanying text very straightforward—unlike many multi-author texts.

The book is quite distinctively designed for a cosmically oriented surgical market and practice. It deals in turn quite specifically with the varying racial types that surgeons with a mixed practice would encounter and examines nuances of skin, muscle, and bone.

The surgical disciplines which will benefit from this particular anatomical text are that of maxillofacial, otolaryngology, and ophthalmic plastic surgery, and as an adjunct to surgical text in these disciplines, it is of excellent value. The relative anatomy is not particularly detailed in this book, but seems to reflect a new surgical principle. As a review of cadaveric dissections in these disciplines, the text is excellent, and deals well with the superficial anatomy in great detail.

This textbook, I fear, is not one for the beginner, but is an excellent addition to...