Non-steroidal anti-inflammatory drugs may predispose to invasive group A streptococcal infections

EDITOR,—The suggestion that ibuprofen should be considered as an alternative to paracetamol for the treatment of fever in young children 1 warrants caution. There have been numerous reports suggesting an association between the use of non-steroidal anti-inflammatory drugs (NSAIDs) and the progression to severe invasive group A streptococcal infections, including necrotising fasciitis.2 NSAIDs may also mask important clinical features that may help in the early recognition of invasive group A streptococcal disease.

Prompt diagnosis and treatment of group A streptococcal infection has become increasingly important as there has been a worldwide resurgence in invasive group A streptococcal disease since the mid-1980s with the emergence of strains of increased virulence.

Recently, it has been proposed that the underlying biochemical basis for the possible link between the use of NSAIDs and invasive group A streptococcal infection is the ability of NSAIDs to inhibit neutrophil function and enhance cytokine (particularly tumour necrosis factor) production.3 In addition, by masking cardinal signs of inflammation, such as myalgia, arthralgia, and localized swelling, these agents may delay the recognition of invasive group A streptococcal infection until signs of shock and multiorgan failure are apparent. This hypothesis may also apply to staphylococcal toxic shock syndrome.

Varicella is an important predisposing factor for both invasive group A streptococcal and staphylococcal infections in immunocompetent children.4 NSAIDs may be particularly dangerous in this condition: their use has been associated with the progression to necrotising fasciitis and toxic shock syndrome.

Antipyretics play an important part in the management of febrile young children with non-specific signs in whom the diagnosis is unclear. However, the possibility that NSAIDs may facilitate the invasion of group A streptococci should limit the use of these agents in patients with varicella or in those in whom the cause of fever is not known.

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HIV related Kaposis sarcoma

EDITOR,—McCarthy et al report a Zambian mother and her child with HIV related Kaposis’s sarcoma and suggest the possibility of vertical transmission of a Kaposis’s sarcoma agent.1 They comment on the rarity of Kaposis’s sarcoma in the United States and Europe and in their abstract say that it is 'extremely rare in children'.

In Kampala Kaposis’s sarcoma is not rare. In a study of children presenting with lymphadenopathy to the paediatric wards of Mulago Hospital, Kampala, between September 1992 and April 1993, 15 cases were diagnosed. The sex ratio was M:F 10.3. Since 1993 about two to three cases are being diagnosed each month. Apart from lymphadenopathy, which can be differentiated from tuberculosis only by histology, other clinical features include pigmented nodular skin lesions, hepatosplenomegaly, pleural effusion, and oral mucosal lesions. We do not have facilities for bronchoscopy, lung puncture, or intestinal biopsy to detect internal lesions. As mothers are not routinely examined in cases of childhood Kaposis’s sarcoma we do not know how many might have it. However, it would not be surprising, considering the not uncommon occurrence of Kaposis’s sarcoma in women, that both mother and child might have it if they originate from areas of high HIV prevalence such as Uganda or Zambia.

Nevertheless, a transmissible Kaposis’s sarcoma agent (whether vertically transmitted or not) is a possibility, and we are also looking for an association with a herpes-like virus.

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Updating Common Symptoms of Disease in Children by R S Lingleworth, this book follows a systematic as opposed to a system approach. For each of the 185 symptom (sign) headings a list of causes is followed by a text, giving a brief account of the conditions listed.

In an attempt to be thorough, many of the lists are lengthy and daunting not only to the medical student but also to the experienced paediatrician. Some attempt has been made to subdivide the causes but further subdivision would have supported the problem-solving approach that the book is intended to promote.