which to do battle; the possibility of argument arises on almost every page but behind each printed word one hears the author reminding us with one of the many quotations that his book contains that ‘Never have I taught a student archery without, in the end, becoming his target’ (Saadi, The Rose Garden, circa 1280 AD).

R Hayward
CONSULTANT NEUROSURGEON
Hospital for Sick Children, London


The Nestlé Nutrition Workshop series has established a justified reputation for its generally consistent scientific quality. It is unfortunate that this volume does not achieve the same standard. This is because it is devoted to the proceedings of a conference rather than to the customary small and well informed workshop. As a consequence it contains many short presentations and abstracts, a number of which lack the perspective and critical insight that are usually associated with this series.

Nevertheless it would be unfair to dissuade people from using this book merely because it is inconsistent with other volumes in the series. As a ‘Conference proceedings’ it is of interest and, as such, can certainly be judged to be as good if not better than most such publications. The major reviews and commentaries on personal research are interesting. Among these I would include the contributions by Siimes and by Hallberg on iron metabolism in infants and in pregnant women respectively; that of the late Lucille Hurley and Keen discussing trace element metabolism in pregnancy; and Chiswick’s valuable overview of his work on vitamin E supplementation and the risk of periventricular haemorrhage in preterm infants. Others include Delange et al’s contribution on iodine nutrition during pregnancy and lactation, in which there is a salutary warning about functional impairment of the thyroid in the infants of mothers given excessive antenatal supplementation with iodine; Petitfor’s paper on rickets in infants provides a good overview on this topic and makes a case for this problem to be predominantly that of the very low birth-weight infant. Finally there is the particularly thorough review by Kirksey and Rahamanfar on the vitamin and mineral content of preterm human milk. Of these and of the other useful contributions that I have not itemised, most are available in a similar form, often by the same authors, elsewhere. For a general department or reader wanting a relatively painless update on these related aspects of vitamin and mineral nutrition in pregnancy and lactation, however, this would present a useful compilation, as long as they do not resent simultaneously paying for a host of glossy abstracts.

P J Aggett
SENIOR LECTURER IN CHILD HEALTH AND NUTRITION
Department of Child Health, University of Aberdeen


This exemplary study of Crothers and Paine was first published in 1959 and is now republished as a ‘Classic in Developmental Medicine’. In the original study 1800 individuals with cerebral palsy were followed up for some 20 years between 1930 and 1950 and the data provided form the key to lucid and illuminating analyses of what cerebral palsy is and is not, to the study of abnormal and normal motor development, to the variety and evolution of motor disorders that occur in cerebral palsy, and to the very wide range of aetiologies, pathologies, and related disabilities that are associated with neuromotor problems.

First and perhaps foremost this book is a ‘good read’ and is remarkably undated so far as philosophy and factual presentation are concerned. Thus the information and perspectives contained within it are provided in a fashion that is wholly relevant for a contemporary readership. It is of interest that while we may have come some further way in the last 30 years in our understanding of the causation and epidemiology of cerebral palsy, the excellent chapters on treatment and education are a timely reminder that progress in these areas remains slow and limited.

I suspect that this genuine classic is not as widely known to a readership in the United Kingdom as it should be. This edition can make good that deficit and the book can be confidently recommended for all paediatricians working in neurology and childhood handcap.

L. Rosenblum
CONSULTANT NEUROLOGIST
Royal Liverpool Children’s Hospital


Our knowledge of the role of trace elements in human health seems to be related inversely to the profile which these elements have assumed in public awareness. Our patchy insight into the metabolism of iron illustrates the ignorance that can persist even when the importance of an element has long been appreciated. The situation is worse with other trace elements whether they are essential or not and it is disturbing to see some, such as zinc, selenium, and copper, joining or replacing iron among the non-specific palliatives of the therapeutic armamentarium. Unquestionably there is a need for a wider appreciation of our limited understanding of the toxicity and essentiality of many trace elements and of the more subtle early biochemical and clinical effects of their deficiency and toxic excess. This book provides such information and insight: Prasad has ably compiled the original and review presentations from the inaugural meeting of the International Society for Trace Element Research. Collectively these provide valuable position papers covering most aspects of the clinical, physiological, biochemical, pharmacological, and toxic actions of trace elements. Many papers illustrate the interactions that occur between the trace elements themselves and with other essential nutrients, and equally importantly the impact that human disease can have on the systemic metabolism of trace elements is considered. There are some omissions; I could not find comment on the pathogenic role of copper in Indian childhood cirrhosis.

Advances in trace element research encompass inorganic and clinical biochemistry, physiology, and human disease. Some fascinating areas that are included in this book include the possible role of trace elements in the precipitation and control of free radical damage, an appraisal of the role of boron in the metabolism of calcium and magnesium, and a critique of the case for the essentiality of nickel, silicon,
vanadium, and even arsenic. In general the toxicity of elements was appreciated before their essentiality, so although the latter elements have only been shown to be necessary for laboratory models their importance for man may yet be discovered.

Human deficiencies of zinc, copper, molybdenum, and selenium have only been proved in the past 20 years, and the contribution on the diverse metabolic roles of manganese suggests that a similar clinical importance of this element may soon be demonstrated.

Further work on the metabolism of trace elements depends on new approaches including multielemental analytical techniques, the use of low abundance stable isotope tracers rather than radiolabels, and the measurement of proteins that regulate the metabolism of the elements (for example, the role of metallothionein in regulating zinc, copper, and cadmium); all are well described here. These techniques will be needed to solve the perennial problem of how to determine if an individual is at risk of developing a deficiency or toxicity or is actually in such a condition. Certainly anyone who reads these chapters will justifiably become sceptical of claims that simple analyses of hair or plasma are indicative of an individual's trace element 'status'—whatever that may be.

Readers, irrespective of their degree of experience in this area, would find new information, insight, and inspiration from the work presented here, but the book is expensive and it would be best consulted in a library rather than bought personally.

P J AGGETT
CONSULTANT PAEDIATRIC PATHOLOGIST
Bristol Royal Hospital for Sick Children


This book is written by a paediatrician who clearly knows a great deal about children, parents, and asthma. He believes that, with proper information and understanding, parents can undertake most of their children's care, reducing emergency visits and hospital admissions to an unavoidable minimum. Basic facts about asthma and its management are presented in a clear, positive manner and supplemented by parents' descriptions of their children's problems and how they coped with them.

The sections on the assessment of asthma by monitoring 'The Four Signs of Asthma Trouble' (wheezing, recession, prolonged expiration, and increased respiratory rate), keeping records, and using a peak flow meter are excellent and could be read with benefit by many doctors. Clear instructions are given on the use of metered dose inhalers, spacer devices, and nebulisers, but the drugs recommended are sufficiently different to confuse British parents (for example, nebulised metaproterenol instead of salbutamol). Dry powder inhalers, so widely used in this country, are not mentioned. Prophylactic treatment is based on theophyllines, although sodium cromoglicate is also approved. Inhaled steroids rate only a brief paragraph and are not mentioned at all in the case reports.

I liked the advice on how to choose a doctor (minimum criteria: gives written instructions, teaches and monitors use of devices, measures peak flow at each visit), when to seek specialist advice, and how to deal with accident and emergency departments and hospital admission.

Parents who can select appropriate information would benefit from reading this book and it could be a valuable basis for discussion at local asthma society meetings.

E J HILLER
CONSULTANT PAEDIATRIC PATHOLOGIST
City Hospital, Nottingham


This volume is subtitled 'The Enid Gilbert-Barness Festschrift', and is a collection of papers by friends and colleagues in honour of Enid Gilbert, a leading contributor to the field of paediatric and genetic pathology. It is also published as a supplement of the American Journal of Medical Genetics. Being a Festschrift it has no clear theme and no other declared purpose, but is a pot pourri of papers and reviews loosely embraced by the main title. The book is divided into four sections, the first of which deals with general principles and methods. The chapters on molecular biology applied to prenatal diagnosis and developmental pathology, a review of prenatal death in humans, and papers on midline developmental 'weakness' and neurotmes as the basis of some multiple congenital malformations are of general interest. There is also a useful paper on the differential diagnosis of posterior cervical hygromas in previable fetuses. The second section on developmental effects of aneuploidy and chromosome abnormalities includes a discussion of cytogenetic abnormalities among spontaneously aborted previable fetuses, and a series of case reports of cytogenetic syndromes. The other sections cover skeletal dysplasias, biochemical and metabolic aspects of developmental pathology, syndromes and malformations complexes, and cardiac teratogenesis. Papers on short rib polydactyly syndromes, the pathology of the liver and kidney in Meckel's syndrome and a discussion of the causes and pathogenesis of cardiac malformations appealed to the reviewer.

This book achieves its aim as a remarkable tribute to a distinguished pathologist and paediatrician. It is not a book which most non-specialist readers will want to own, but they should browse through it to indulge their own interests.

P J BERRY
CONSULTANT PAEDIATRIC PATHOLOGIST
Department of Child Health, University of Aberdeen


This is an excellent small book which goes where few have dared to go. The author has bravery attempted the equivalent of organising a barbecue for vegetarians in writing a book for the clinician, who has even at this late stage in the millennium, no prior knowledge of computing.

The book succeeds in covering the basics and gently takes the reader into more complex areas. Those who have a reasonable experience of computers in medicine will find this a valuable source of references and succinct explanations which they might quote. Those who dare to confront their technophobia and would like a concise guide to the potential of computers in medicine should find this book stimulating.

A wide variety of topics are covered: