chapter carefully examines, among other factors, the role of the house dust mite and the increased use of \( \beta_2 \) agonists as potential causes.

There is an increasing public awareness of the relevance of diet to health and the possible role of dietary factors in causing a wide range of physically and psychologically distressing symptoms. The chapter on epidemiology of food sensitivity in childhood is therefore fashionable and nicely written. The authors explain the reasons for lack of accurate data about the prevalence of food allergy and concludes that well controlled population based prospective studies are required to shed light about problems related to food allergy.

The monograph ends with a very enjoyable and stimulating two chapters on why it is that allergic diseases are becoming common and the genetic basis of allergy. The authors conclude that studies on environment and genetic predisposition will contribute to understanding the illness.

This is a timely and very stimulating book that is readable and carefully compiled. Each chapter is well referenced providing an easy access to key epidemiological papers. I highly recommend it to all those who have a concern about the environment and an interest in clinical allergy.

NABIL JARAD


This book's intended readership is wide, including politicians, safety representatives, and patients. The explicit aim is to show how asthma may be prevented at work. It would have needed well illustrated detail on industrial architecture, safety engineering, and occupational hygiene to achieve this goal. Eliminating or reducing causal exposure to hazards is the best potential reduction in incidence of asthma. Instead, its strength is in describing the consequences of work related asthma. Moving case histories illustrate the poor health, impoverishment, depression, and social isolation that many patients experience. The book's particular merit is discussion of the current social security provision for work related asthma and I think it has no competitor in this field.

There is rather too much information for the patient who simply wants to navigate the benefit shoals, and some of the information is confusing. Without a careful textual reading and some background knowledge it would be possible to muddle sensitiser-induced asthma with irritant-induced asthma, asthma caused by work with asthma exacerbated by work, and this field with other conditions. The book's scope is wide. These distinctions are important because exposure-response relations probably differ, as do the long term consequences.

Rory O'Neill's style is readable and journalistic. The wide range of sources include useful literature from the National Asthma Campaign Health and Safety Executive. This range has also led to repetitions and unresolved contradiction. For example, there are contradictory statements about the benefit position for patients with irritant-induced asthma. It is an inexpensive book and will be informative for patients and their doctors, at least as long as the security legislation continues in its present form.

K M VENABLES


The Clean Air Act of the United States was amended in 1990 and, in one of the new provisions, the Environmental Protection Agency (EPA) was required to arrange for an independent review of the methods that it uses to test for toxic risks. This book is the report of this review, prepared by members of expert groups that advised the Agency and by EPA officials. The EPA is required by United States law to establish the risks posed by environmental chemicals in numerical terms, and methods for quantitative risk assessment are, rightly, given much attention in the report.

Although the report runs to 650 pages, 350 of which comprise the appendices, it is not indigestible. Before it was released for publication, the text was subjected to repeated processes of approval and editing. It presents with considerable precision the methods made by the agency when applying quantitative risk assessment, as well as the standard operating procedures upon which the agency relies when confronted by the common problems of inadequate data and limited scientific understanding.

The report offers two views of EPA operations. The first presents the current approach to the assessment of toxicological hazards, to the exposure of populations, exposures, and to quantitative risk assessment. The second promises to consider "...how EPA can improve the validity and credibility of its risk assessments by more fully utilizing scientific data and more fully divulging the limits of knowledge".

In some areas of public safety, such as air travel, quantitative risk assessment has a sound basis on substantial reduction in incidence of asthma. Instead, its analysis is in describing the rationale of work related asthma. Moving case histories illustrate the poor health, impoverishment, depression, and social isolation that many patients experience. The book's particular merit is discussion of the current social security provision for work related asthma and I think it has no competitor in this field.

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When the structure of paraquat was first described in the 1880s by German chemists or when it was first used in the 1930s as a redox indicator, few could have suspected that this simple, stable molecule, would have such an economic, social, or toxicological impact by the end of the millennium.

Its herbicidal properties were discovered in the mid-1950s, and after it was first marketed in 1962, paraquat established itself as the most widely used pesticide in more than 130 countries throughout the world. During this time, there have been thousands of fatalities worldwide resulting from the ingestion of paraquat, with most of them accounting for suicide. This recently published book offers 21 chapters, describing various aspects of paraquat poisoning including a historical perspective, description of human poisonings, and safety in use through the safety management policy.

The editors have included contributions from those who have (or have had) direct experience of work related toxicological issues with paraquat poisoning. The reader is left in no doubt about the size and importance of the problem and of the extensive clinical and experimental research that has attempted to develop effective treatments. Finally, there is, however, considerable overlap between the individual contributions, which is certainly unnecessary and irritating to the reader. Repetition of the lung damage, the biochemical mechanism of toxicity, and the possible treatment regimes, seems to reduce clarity and, in some instances, create confusion. For those not familiar with paraquat, the biological morphological changes in the lung associated with the active accumulation of paraquat into specific cell types offers an important insight into the value of mechanistic and toxicological studies. Also the importance of oxygen free radicals to tissue damage is explained in simple terms. From a clinical perspective there is a completely realistic assessment of the value of treatment regimes.

Although the book was published in 1995, it is apparent from the references that there has been a delay of several years from the production of the material to publication. This creates some problems, since at present, issues such as the regulation of paraquat have changed in several countries. For example, paraquat has been reclassified as a non-carcinogen in the United States and it seems from more recent literature that the number of cases of paraquat poisoning have been falling in various countries throughout the world. Nevertheless, the pathology, mechanism of poisoning, and importantly, the treatment of paraquat poisoning, has changed little to date this text. For those initiating research into paraquat toxicity, either as experimentalists or as clinicians, this book provides a useful introduction to the problem. It explains why various approaches to treating paraquat poisoning have been undertaken, even if they have not proved successful. Moreover importantly, the book offers a single source reference covering many important aspects of human paraquat poisoning and (with the caveat expressed above) the taxonomy and biogrophy of the literature on this challenging scientific and important clinical problem.

The book is priced at $150 and it is likely to be more popular to borrow than buy.

LL SMITH
Paraquat Poisoning: Mechanisms, Prevention, Treatment

LL Smith

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doi: 10.1136/oem.52.11.784-b

Updated information and services can be found at:
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