LETTERS TO THE EDITOR

Maternal diet and atopic eczema

I read with great interest the findings of Burr et al on the environmental factors and symptoms in infants at high risk of allergy. They have studied an exhaustive list of environmental factors. I would like to draw the attention of the authors to the role of mother’s diet during lactation on the development of atopic eczema in high risk infants.

Ranjit Kumar Chandra et al in their prospective randomised control trial showed that eczema was less common and milder in babies who were breast fed and whose mothers were on a restricted diet (exclusion of milk and other dairy products, eggs, fish, peanuts and soya beans). The omission of this variable of mother’s diet may lead to some amount of confounding bias in studying the association of breast feeding and development of atopic eczema. Burr et al have recommended a few precautions for mothers with the family history of eczema who breast feed their children. Based on our present knowledge regarding the role of mother’s diet during lactation these mothers should be advised to avoid allergenic food during lactation. Obviously the nutritional state of the mother should be closely monitored and she should be given professional dietary advice.


P BADRINATH
Postgraduate in Community Medicine
Dept of Community Medicine
KMC, Mangal-576119
Karnataka State
S India

The authors reply as follows:

I agree with Dr Badrinath that the trial by Chandra et al shows that the incidence and severity of eczema in breast fed infants can be reduced if their mothers avoid certain foods. In our study the lactating mothers in the intervention group were advised to restrict their intake of milk to 1 pint (284 ml) daily, but otherwise we did not restrict their diet.

MICHAEL L BURR
MRC Epidemiology Unit (South Wales)
4 Richmond Road
Cardiff CF2 3AS

Could natural killer cell activity be linked to the reduced incidence of cancer in schizophrenic patients?

In a recent issue of your journal (Vol 43: 43–7), Dr P B Mortensen reported on his findings of alterations in the incidence of cancer among schizophrenic patients. 1 Of particular interest was his finding of the reduced risk of cancer among male patients in general, and reduced risk of certain types of cancer among females. Dr Mortensen very eloquently described a number of possible explanations for these findings, including: differences in infection rates, altered exposure to carcinogens, reduced sexual activity of hospitalised female patients, and possible inhibition of tumour growth by neuroleptic medication.

I would like to draw the attention of researchers to another possible explanation: the role of maternal diet during lactation. Burr et al have reported increased natural killer cell activity (NKA) in a group of forty non-medicated schizophrenic patients in comparison to matched controls. 2 Natural killer cell activity is a type of non-B, non-T lymphocyte which directly attacks and destroys tumour cells. 3 An increase in NKA could play a role in protecting these individuals from neoplasia. DeLisi et al tested this hypothesis in 1985 by studying NKA in a group of schizophrenic patients. They found the mean NKA similar to controls; however, their results were difficult to interpret as the majority of subjects were medicated at the time of evaluation. Through Dr Mortensen points out that neuroleptics have been reported to inhibit tumour growth in animal experiments, they have also been shown to impair immune function by decreasing lymphocyte mitogen stimulation and NKA. 4-7 Therefore the findings of Wang et al may more accurately reflect the status of NKA in schizophrenic patients.

As future psychoneuroimmunological studies investigate this patient population, perhaps research findings will further elucidate possible explanations for the reduced incidence of cancer among schizophrenic patients.


J STEPHEN McDaniel
Emory University School of Medicine
Department of Psychiatry
PO Box AF
Atlanta, Georgia 30322
USA

BOOK REVIEWS


There is little doubt that if the incidence of cancer in a local community might be drastically reduced by employment of a public health physician continuously to waive a magic wand, the career opportunities, prestige and even remuneration of such doctors would be immeasurably better than for doctors in primary care. The problem is that all communities get from the public health physicians they employ is advice about smoking, drinking, diet and sexual activity and about the need to subject selected individuals from within the community to regular examinations of an uncomfortable and embarrassing nature.

This little volume examines very many of the issues relating to whether most cancers might be avoided and exhibits many of the dilemmas confronting both individuals and society in seeking to apply available knowledge of cancer etiology and preventive and screening techniques to the attempt to reduce cancer incidence and mortality. The issues range from general public ignorance of cancer (although a comparable medical professional ignorance is not mentioned) through economic imponderables to questions of the potential conflict between public good and individual autonomy.

Much of the book is the work of its editor, and sections on these topics are comprehensive and well informed that one wonders why others were invited to contribute. These others have contributed a useful and clear chapter on diet and cancer, a mildly provocative one on leisure related cancer, an excellent summary of the evidence on radiation and cancer and on social class and cancer. There is also a rehearsal of the familiar Dublin scepticism about screening related to breast and cervical cancer.

The book is directed to the general reader rather than to doctors and so far as its exposition of the medical issues is concerned I should judge it to be very successful. I wonder, however, if the general reader might not be more demanding than doctors usually are about the treatment of the social and ethical issues that are raised but hardly discussed, and perhaps about the occasionally sloppy use of expressions such as “value-judgment” and words such as “disinterest”. Nevertheless, as an overview of issues in cancer prevention it must be assessed as both well informed and balanced. This combination of virtues is sufficiently rare to merit commendation when it arises and to make this book well worth reading.

J Epidemiol Community Health: first published as 10.1136/jech.44.2.174-c on 1 June 1990. Downloaded from http://jech.bmj.com/

Reports from the Social Survey Division of OFCPS are to be welcomed and one on unemployment is no exception. It is extraordinary just how little work has been published on the effects of unemployment from the UK—a country which has specialised in this field in view of the size of the problem throughout the eighties. Almost no research has been commissioned or sponsored by the Department of Health and Social Security. This new survey involved two interviews with a sample of about 3000 families whose breadwinners started to sign on in 1983 aged between 20 and 60. The first interview took place in the autumn of 1983 after the breadwinners had been signing on for three months and the second interview took place a year later. The survey was designed to see how living standards changed over the first 15 months of unemployment and to compare the circumstances of families whose breadwinners continued to sign on with those whose breadwinners returned to work. Most families experienced a rapid and substantial reduction in their material living standards. The main areas affected were food, clothing, housing, leisure activities. The psychological impact was considerable and was almost as great in the case of the wives of the unemployed men as in the case of the unemployed men themselves. As expected, psychological well-being improved amongst those returning to work. For those who continued to sign on, the psychological scores for both men and their wives remained the same. Time 2 (with 2000 ce, no further printed) but the Results volume is only 68 pages long. The separation certainly makes the report less valuable for research purposes, as does the very limited reference section. The size of the print run suggests a limited readership.

The scope of the research itself was limited. It emphasised the loss of income and its effects but failed to address the impact of the loss of what Joadh called the secondary benefits of work. If going to work is not just about earning a living but also about activity, engaging in something productive, meeting people outside their family, enforcing a timetable on the day, about self esteem and status, then what is the effect of such a loss? The authors simply asked informants what they had found the worst aspect of being unemployed. They then used a series of twelve questions used by the MRC/ESRC Social and Applied Psychology Unit to investigate the impact of unemployment by computing a psychological wellbeing score. The method was not designed to detect the loss of Joadh's secondary benefits, nor was it likely to pick up characteristics that worsen over time with persistent unemployment.

Nevertheless, I found the report particularly easy to read. It is coauthored by Patrick Heady and Malcolm Smythe. Although an undergraduate, he has been involved in marketing, with a new design for the front cover including the introduction of colour (somewhere between pale purple and off white), it still looks fresh. Why not a biographical note? Why not a brief history of the OPICS Social Survey Division and a list of their recent publications? Dust covers and back covers have important uses beyond informing readers that HMSO accredited agents can be found in the Yellow Pages. S C Farrow


Contributors to medical publications have become increasingly aware of the need to apply statistical tests of significance to their data. Although this has represented an improvement on previous practice, statisticians have been aware that an overdependence on significance tests has developed. In most instances, the use of confidence intervals to complement significance tests will be vastly more informative.

In Britain, the British Medical Journal has been forewarning its readers of the need to improve the standard of statistical presentation of data and has published several series of articles with a statistical theme. Even more importantly they have published statistical guidelines to which articles submitted to the BMJ are expected to conform. These guidelines emphasise the importance of using confidence intervals. This book arises directly from these guidelines, and indeed Part II consists of one chapter presenting the statistical guidelines and a second chapter giving check lists for assessing the statistical content of medical studies. The previous eight chapters cover the rationale for the use of confidence intervals and then detail methods for their construction. The great value of this book is that it presents, in an easily understood form, the methods which will be needed in most situations. These include those for use with survival data, relative risks, odds ratios, standardised ratios and rates, and basic non-parametric methods. Most introductory texts cover only a selection of these methods. To have them all included in a single slim and well written text, together with worked examples, would make this book with medical researchers. The availability of a computer program to carry out the calculations will further enhance its appeal to this audience.

Does the book also serve a role as a medical undergraduate text book? The intentionally narrow field of coverage limits its value here.

The curriculum at many medical schools allows so little time for medical statistics that such a text could not be found to use effectively. Where time in the curriculum is allocated more generously, this book could well be a valuable addition to the reading list. Students will appreciate the clearly worked examples, but they will, perhaps surprisingly, gain just as much from the chapter on statistical guidelines for authors. These guidelines alone are, of course, directed at aspiring authors of scientific papers. However, they contain, in concentrated form, much of the statistical wisdom which we would like to see applied.

In summary, this is a book which fills a gap in the literature. The editors are to be