The relation reported by Harrison et al., for CO and NO2, is likely a result of these pollutants being a gas, their ability to diffuse, low reactivity, and similarity in concentration between indoor and outdoor environments. A personal cloud can become larger or pools this data; these influences may become diminished.

Historically, most inferred that there is no relation between personal and static exposures, while studies such as that performed by Harrison et al., question this concept. Establishment of a relation between these two sampling methods will allow incorporation of additional data into occupational, environmental, and epidemiological studies, although caution must be applied in interpreting any relation based on previous findings. Thus, care must be exercised when evaluating studies that solely use static sampling as the method of estimating personal exposure.

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**References**


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**Table 1** Form of distribution for data reported in Harrison et al., tables 2 and 3

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Non-transformed</th>
<th>Transformed*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen dioxide</td>
<td>Normal</td>
<td>Normal</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>Normal</td>
<td>Normal</td>
</tr>
<tr>
<td>PM10</td>
<td>Normal</td>
<td>Normal</td>
</tr>
<tr>
<td>Nitrogen dioxide</td>
<td>Not normal at 5% or 1%</td>
<td>Not normal at 5% or 1%</td>
</tr>
<tr>
<td>Carbon monoxide</td>
<td>Not normal at 5% or 1%</td>
<td>Not normal at 5% or 1%</td>
</tr>
<tr>
<td>PM10</td>
<td>Not normal at 5% or 1%</td>
<td>Not normal at 5% or 1%</td>
</tr>
</tbody>
</table>

*Transformation was performed using natural logs.*
Competition at the workplace

The message opened by Bertazzi is worthy indeed of practical considerations. Until 1996 every physician in Italy had licence to practice health surveillance at the workplace; differences of competence between physicians were obviously present, and this necessitated the occupational encephalopathy over a long period (nine years!). This lack of efficiency is inconceivable and points out the necessity to verify and to accredit the competence of medical doctors practising in this field.

In Italy, the adoption of European Union directives assigned medical surveillance of workers to specialists in occupational medicine, and to other physicians, already experienced in the field. The number of specialists assigned to workers’ surveillance (9000) was greater in Italy than in the United States. Strong corporate interests have now obtained the admission into this critical field of 40 000 physicians, with limited theoretical knowledge of occupational medicine, and without any practical training in this field. We wonder how many workers will pay in the future for such a populist decision.

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References

Mental ill health in workers: observations from a few Indian populations

The article “Mental ill health and fitness for work” by Glozier focused on work related mental ill health issues and discussed various topics such as screening, safety, and legal issues. However, as work environments differ with respect to biopsychosocial factors and different levels of exposure, which are known to increase vulnerability for psychiatric disorders in workers, it would be interesting to see mental ill health in the work environments while considering the prevalence of mental ill health.

Data in the article has mostly come from developed countries. It may be relevant here to give similar perspective from developing countries such as India. It would also be interesting to note similar morbidity in specific populations of industrial employees, as they are known to be more vulnerable for mental ill health.

The available information on the prevalence of psychiatric morbidity in industrial workers shows that it is considerably higher than that in the general population. The reported 20–35% prevalence of psychiatric morbidity in working populations in Western countries as reported by Glozier is comparable with that from Indian industrial sites (14–37%). However, comparison would be meaningful if the working environments are similar.

The types of mental illness reported to be common in the Western countries are similar to those observed in various industrial set-ups in India. They are basically anxiety disorders, adjustment disorders, mood disorders (especially depression), somatoform disorders, alcohol and tobacco use, and dependence. As reported by Glozier, comorbidities are also commonly noted in the Indian studies. The most common comorbidities are with substance abuse disorders.

An important observation is that screening for common mental disorders is probably pointless because of the rapid change in illness status, the numbers of persons having problems may overwhelm the occupational health service, and the predictable value is low. In addition, different assessing instruments will give different figures. It was observed in an epidemiological survey that even if around 36.2% of employees had psychiatric problems, only 9.7% of them came for psychiatric services (Kar et al, unpublished data). It suggests that various factors influence the psychiatric service utilisation, such as unawareness and stigma. Although the clinic population reflected realistically the magnitude of the need felt by the workers for mental health services, periodic screening with standardised and reliable instruments may elucidate the mental health needs of the population, based on which optimum care programmes can be planned.

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References

www.oceenmed.com
Improving Air Quality: Progress and Challenges for the Auto Industry


This book is unusual in the air pollution literature on two counts. Firstly, its author was a practicing scientist in industry, so we get a refreshingly different slant on the issues. Secondly, while the book is heavily science based, it tackles head on that difficult area where science and policy meet, or more often, collide. Pearson does not shrink from pointing out the difficulties with the science, but also the difficult choices for policy. But this is done in a constructive and positive way—it would have been very easy for someone with the author’s background to have delivered a critical polemic; as it is, the book gives a cool critique of the science but then suggests ways through the difficult abatement measures and policy issues in a well balanced final chapter.

The subject of the book is the policy driven science programmes in Europe and the USA, each of which was known as “Auto-Oil”. These were programmes designed to provide high quality scientific input on air quality emissions, modelling, and emission reduction techniques (including clean fuels) to studies aimed at producing optimum reductions in urban air quality in a selection of European cities, through agreements on EU regulations on vehicle emissions and on automotive fuel compositions. The European Auto-Oil programme was a major tripartite exercise involving the automotive and oil industries and the European Commission.

The book covers each of the scientific components of this exercise in both the EU and in the USA in a concise, yet comprehensive way. There is an introductory chapter describing the important pollutants, their sources, and effects on health, followed by chapters on air quality legislation in the USA and Europe, on air quality modelling, and on the often “Cinderella” subject of emission inventories. These latter two chapters are particularly good for the non-specialist. Chapters describing the separate European and USA Auto-Oil programmes are followed by one describing the air quality improvements already achieved in the “auto-oil” sector. These have been considerable—the single most significant measure reducing public exposure to air pollutants in the past 10 years has been the catalytic converter. The final chapter has already been mentioned and presents an excellent discussion on the practical steps which could be taken by the automotive and fuel sectors, and by traffic managers in the improvement of air quality.

Although primarily targeted at automotive engineers, the book will appeal to other scientists with an interest in air quality. It also provides a useful aide memoire for the specialist, particularly as the next phase of the process has just begun via CAFE, which is not an acronym connected with European coffee houses, but an important initiative of the European Commission to harmonise EU legislation in providing Clean Air For Europe.

M L Williams

NOTICES

First World Congress on Work-Related and Environmental Allergy (1st WOREAL), and Fourth International Symposium on Irritant Contact Dermatitis (ICD), Helsinki, Finland, 9–12 July 2003

Congress on Work-Related and Environmental Allergy
- Work related and environmental aspects of respiratory and skin allergy
- Specific issues related to pathophysiology and skin allergy
- Management and prevention of allergy

Irritant Contact Dermatitis Symposium
- Occupational irritant dermatitis
- Prevention of irritant dermatitis
- Alternative methods for the assessment of irritants
- Irritant dermatitis from cosmetics

Satellite events
- Satellite Symposia, 9 July 2003
- Allergy School, 9–10 July 2003
- 7th International NIVA Course on Work-Related Respiratory Hypersensitivity, 11–15 July 2003

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NIVA Training Programme 2003: Advanced Courses in Occupational Health and Safety

NIVA Training Programme 2003 offers 12 advanced courses on current themes of work life. Further information is available from the NIVA Office:

NIVA Nordic Institute for Advanced Training in Occupational Health
Topeliuksenkatu 41 A
FIN-00250 Helsinki
Finland
Tel: +358 9 47 471
Fax: +358 9 4747 2497, +358 9 2414 634
Email: niva@tl.fi
Website: www.niva.org

Assessment of Psychological Factors at Work
3–6 March 2003, Gello Hotel, Gello, Norway

Evaluation and Good Occupational Health Practice
23–27 March 2003, The Fell Hotel, Saariselkä (Lapland), Finland

Principles of Etiologic/Etiodiagnostic Research
11–16 May 2003, Hanasaari Cultural Center, Espoo (Helsinki), Finland

Toxicokinetic and Toxicodynamic Modeling in Occupational Health
15–19 June 2003, Red Cross Educational Training Center, Gripsholm, Sweden

Work-related Respiratory Hypersensitivity
10–15 July 2003, Marina Congress Center, Helsinki South Harbour, and The Sunborn Yacht Hotel, Naantali, Finland

Bullying and Harassment at Work
11–15 August 2003, Hotel Eckerö, Åland, Finland

Good Management Practice—Interaction of Environment, Safety and Quality
31 August–4 September 2003, Hotel Levunturi, Sirkka (Lapland), Finland

Workplace Health Promotion—Practice and Evaluation

Indoor Air Quality Problems—Link between Indoor Pollution, Psychological Factors and Complaints
22–26 September 2003, Vilvorde Course Center, Vilvorde (Copenhagen), Denmark

Occupational Health Risk Assessment and Management
6–10 October 2003, Medical Academy of Latvia, Riga, Latvia

Introduction to Occupational Epidemiology
23–29 October 2003, Hotel Gentofte (Copenhagen), Denmark

Work-related Musculoskeletal Disorders: Current Research Trends
1–7 November 2003, The Sunborn Yacht Hotel, Naantali, Finland