LETTERS

The correspondence by Weill et al (below) refers to a letter by Greenberg, which was published in February’s edition of the journal. We regret the late appearance of this printed response, which arises from an administrative error. An electronic version of this text was posted on the website on 1 February 2005.

Changing trends in US mesothelioma incidence

In a letter, Greenberg,1 commenting on our paper, “Changing trends in US mesothelioma incidence,”2 raises a number of points with which we disagree.

There is now a broad consensus that amphiboles are vastly more dangerous than chrysotile in their propensity to produce mesothelioma, and even a casual review of the literature indicates that where asbestos exposure is a continuing increase in mesothelioma rates, it is seen in countries that used large amounts of amosite and crocidolite, as we indicated in our paper.

He raises the issue of whether asbestos must be present to attribute a lung cancer to asbestos exposure. Our paper was not about this issue, we did not say anything about necessary sequence, and the phrase he cited was the lone mention of this issue, included in the introduction before focusing on the main subject: mesothelioma. However, since Greenberg raises the subject, the Wilkinson et al paper3 was in no way a “consensus” by a “group of experts”, rather it was the report of a study of hospitalised patients, a study which had a number of serious flaws, as we explained in our published response.4 Also, even if one assumes that lung cancers can be generated by high exposure to asbestos without the presence of asbestos, it makes no sense to expect an increased lung cancer risk in the face of declining asbestos usage and increased control of exposure, exactly the factors that are driving the decreased rates of mesothelioma. Greenberg’s own words clearly indicate that he is more interested in the “adversarial spectrum” than the science!

Greenberg complains about the use of national import tonnage as an indicator of asbestos exposure. Our paper was not about the asbestos problem. Yet if declining rates of mesothelioma, and even a casual review of the “adversarial spectrum” than the science!

Greenberg raises a number of other issues, but the overall thrust of his letter appears to be that declining rates of (readily apparent) asbestos exposure should not be viewed as indicating a foreseeable end to the asbestos problem. Yet if declining rates of disease do not indicate a problem that, with proper control and exposure, will slowly disappear, what will?

Finally, Greenberg closes with kudos for a conference entitled “The third wave of asbestos disease.” In the view of most investigators in this field, this conference contributed little to the knowledge base on asbestos related diseases and served mainly as a political/litigation brief. One wonders if there will ever come a time when any good news about asbestos related health effects is welcomed by all who profess to have work health as their primary motivation.

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References
8 Davis JM, Cowie HA. The relationship between fibrosis and cancer in experimental animals exposed to asbestos and other fibers. Environ Health Perspect 1990;88:305–9

Incidence of cutaneous malignant melanoma among longshoremen in Genoa, Italy: the role of sunlight and occupational exposure

Epidemiological evidence supports the aetiological role of natural (sunlight) and artificial (sunlamps and sunbeds) sources of ultraviolet radiation (UV-A) on the occurrence of cutaneous malignant melanoma (CMM).1 Occupational studies have suggested increased risks for CMM among chemists, telecommunications and electronics workers,2 printing industry workers,3 and harbour workers (forwarding/shipping agents, harbour masters and ferry and harbour service assistants).4

To investigate the relation between occupation and cancer incidence, we retrospectively studied cancer incidence in 4993 longshoremen employed ever since the port of Genoa, Italy, between 1933 and 1980. They were employed at two dockyard trading companies: the “Stefano Canzio” and “San Giorgio”. Although men employed at the two dockyard companies loaded and unloaded the same products, employees of the former company performed their job mainly outdoors, and employees of the latter mostly inside the ships. They were categorised a priori according to their previous or current occupational sunlight exposure as indoor (2707) and outdoor workers (2286). Cancer frequency was established by record linkage with the Genova Cancer Registry,5 (the interval for which incidence data are available). The vital status of each man was ascertained from the demographic registry of his place of residence until 31 December 1996. Those who died (409) or emigrated (32) before 1986 (that is, the starting date of follow up), were excluded from the analysis. Thus 2451 indoor and 2101 outdoor dockyard workers were eligible for statistical analysis. Standardised incidence ratios (SIRs) were calculated as the ratio of observed to expected site specific cancer cases (external comparison). Expected cases were calculated by applying quinquennial age specific cancer incidence for the male population of the City of Genova (reference population) to the person-years of observation accumulated in each subgroup (24 364 and 21 087 for indoor and outdoor workers, respectively). Two sided 95% confidence intervals (CIs) for the SIRs were calculated on the assumption of a Poisson distribution of the observed cases. In addition, the site specific cancer incidence experienced by outdoor and indoor workers was contrasted by computing relative risk point estimates and their 95% CIs.7

Table 1 shows the results of the cohort study. All cancers incidence was similar in both subgroups and did not differ from that of the reference population. The excess incidence for larynx cancer detected in both subgroups was statistically significant only in indoor workers (24 cases, SIR = 213, 95% CI 136 to 316, p = 0.001). SIR for lung cancer was similar in the two subcohorts and did not differ from that of the reference population. Significantly increased SIRs were observed.
for pleural mesotheliomas in indoor (16 cases, SIR = 1362, 95% CI 778 to 2211, p < 0.0001) and outdoor dockyard workers (7 cases, SIR = 751, 95% CI 302 to 1547, p = 0.0001).

Eight cases of CMM were observed in outdoor workers (SIR = 288, 95% CI 125 to 568, p = 0.015), and three cases among outdoor workers (SIR = 751, 95% CI 302 to 1547, p = 0.0001). Table 2 shows main anatomical site (site) for each incident case of CMM.

<table>
<thead>
<tr>
<th>Case</th>
<th>Age</th>
<th>Job</th>
<th>ICD-9</th>
<th>Site</th>
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<td>1726</td>
<td>Forearm</td>
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<td>1722</td>
<td>Ear</td>
</tr>
<tr>
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<td>Leg</td>
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<td>1720</td>
<td>Neck</td>
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</table>

References


Increased incidence of cutaneous malignant melanoma among longshoremen in Genoa, Italy: the role of sunlight and occupational exposure
R Puntoni, M Ceppi, C Casella, D Ugolini, V Gennaro, M Puntoni, M Vercelli and D F Merlo

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