Correspondence

Respiratory disability in ex-flax workers

SIR.—In a large retrospective study of ex-flax workers in Northern Ireland, (1986;43:300–6) Elwood and colleagues observed an excess of respiratory symptoms compared with control subjects; the excess was out of proportion to the reduction in lung function which was slight and, in the women, confined to the younger subjects. The older female ex-flax workers apparently had better lung function than the controls.

The findings were attributed on the one hand to the ex-flax workers exaggerating their symptoms with a view to compensation and on the other to a secular change in recruitment resulting from diversification of industry leading to greater job opportunities outside flax and to selective recruitment of less fit individuals into the industry. The authors provided limited support for the first of these hypotheses but none for the second.

An alternative is that the impairment of lung function was underestimated because of a high correlation (collinearity) between the primary variables (age and exposure) and their interaction term (age × exposure). Error on this account could lead to inaccurate estimation of the parameters of the regression equation.1 The authors do not make clear that they have excluded error on this account but it would be helpful to do so in order to validate what is an important but at present speculative result.

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Reference


Vibration induced injury

SIR.—I wish to congratulate Dr Färkkilä on her editorial on vibration induced injury (1986;43:361–2) in which she makes clear that, although they often accompany the vascular phenomenon, the neurological abnormalities are not necessarily part of the vibration white finger disease (VWF). Her statement that the classification scales for vascular and neurological symptoms should be separated is an important one and her statement that autonomic and systemic symptoms should not be considered to result from vibration injuries should equally be applauded. VWF is a local spastic abnormality of the finger arteries and there is no need to propose a contribution from a central systemic sympathetic reflex. The evidence from plethysmography in the Kadlec-Pelnar modification is shown in the figure.1 In fact, the appearance of a generalised systemic vasospastic reflex as a reaction to a localised cold stimulus points to an idiopathic Raynaud's disease not related to vibration, and against VWF.

Färkkilä's statements that the attack of white finger is "mediated as a central sympathetic reflex" and that "effects of vibration are transmitted through the higher autonomic centres" are not supported by objective plethysmographic evidence and appear to be in contrast with other statements.

Färkkilä regrets the lack of objective diagnostic tests for VWF. I suggest that the Kadlec-Pelnar plethysmographic examination has repeatedly proved to be an objective test of VWF with an acceptable degree of specificity and with practically no false positive results.

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Reference

1 Pelnar PV, Gibbs GW, Pathak BP. A pilot investigation of the vibration syndrome in forestry workers of Eastern Canada. In:
Finger plethysmograms for hands (R and L) with vibration white finger (2-5): I at room temperature (no anatomical obstacle to blood flow), III after local cooling (complete spasm of finger arteries), II while cooling the opposite hand (no significant spasm mediated by central sympathetic reflex from the other side). (From: Pelnar et al.)


**Book review**


For those, like myself, who were unable to attend the annual provincial meeting of the Society of Occupational Medicine in 1983, this book is very welcome. It contains the papers presented at Portsmouth at a meeting of the Society for the Social History of Medicine which ran at the same time as the annual provincial meeting. A more correct title for the book would have been “Some aspects of recent social history in occupational health in Germany and the UK”. It is not a comprehensive volume but the all-encompassing title can perhaps be forgiven because it is the first publication in this particular field.

The book is divided into four sections, the first of which sets the scene. The second considers particular disorders and their relation with social circumstances and the other parts reflect on compensation and preventive policies. I found the chapters on Cornish tin mining and female TNT workers particularly interesting, not only because of the subject material but also because such wider themes as migration, female role models, and societal attitudes to war were woven in with the basic conflict ideas. Also, though stilted in translation, the German papers were helpful in enabling one to understand why a health and safety system so different from our own had developed in that country.

The overall interpretative analysis applied in most