World Health Organization
Regional Office for Europe
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Biological effects of man-made mineral fibres

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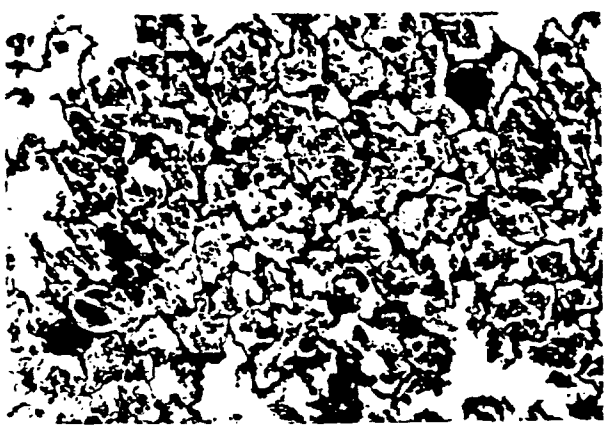
Fig. 5. A transmission electron microscope photograph of small dust particles from the ceramic fibre cloud; magnification, 6000x

Note: elongated particles counted as fibres because their aspect ratio was greater than 3 : 1 are arrowed.

Fig. 6. An area of alveolar proteinosis from the lungs of a rat after 12 months of dusting with ceramic fibre; magnification, 250x



Note: the alveolar septa are not thickened but the alveolar spaces are filled with proteinaceous material.

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Fig. 8.

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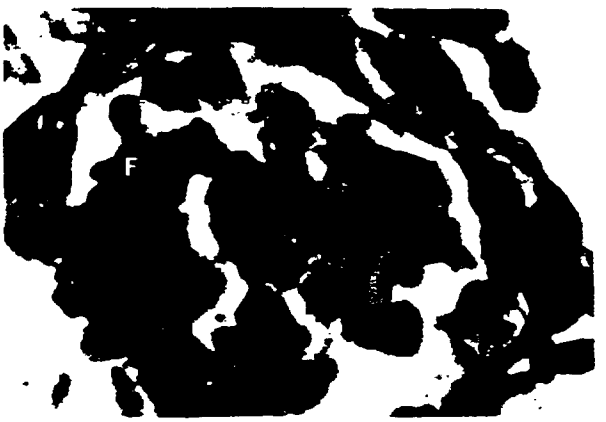
Fig. 7. An alveolar space from the lungs of a rat 33 months after the start of dusting with ceramic fibre; magnification, 1500x



: ratio

Note: the alveolus is largely filled with macrophages containing particulate dust, but one ferruginous body (F), 25 um in length, is present.

after
, 250x

Fig. 8. An area of interstitial fibrosis from the lungs of a rat 33 months after the start of dusting with ceramic fibre; magnification, 250x

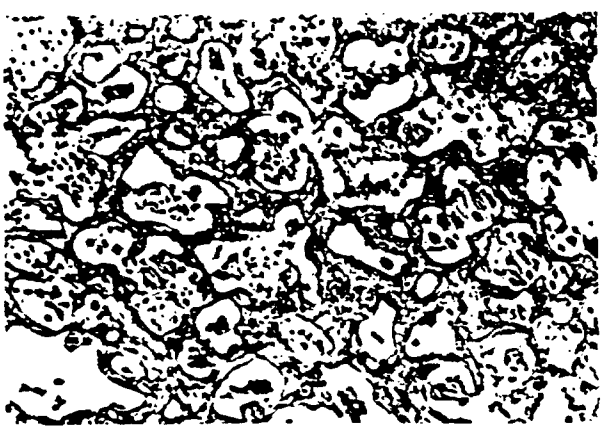


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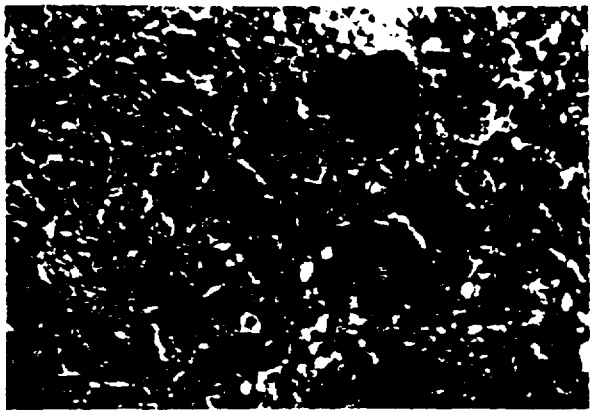
Fig. 9. The histological pattern shown by a malignant histiocytoma from the lungs of a rat treated with ceramic fibre dust; magnification, 450x



Note: most of the cells are of epithelioid type, but several multinucleate giant cells are also present.

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