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## Abstract

The response of the lung to quartz, administered by intratracheal instillation, was investigated using bronchopulmonary lavage. The effect on the recovery of alveolar macrophages and other free cells is described. Other indices investigated included the wet weight of lung, the size distribution of the macrophages, and the total number of free macrophages in the lung, estimated by means of a radioactive tracer technique. In the first series of experiments the response to 5 mg of quartz was measured at various times from 4 hr to 3 months after administration. In the second, the effect of amounts of quartz ranging from 0.2 to 10 mg was investigated at 24 hr and 7 days.

Measurements of lactate dehydrogenase in lavage fluid will be reported elsewhere.



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