

Dr. L. E. Hamlin

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March 28, 1945

6. Another group of 50 guinea pigs would be similarly infected with attenuated tubercle bacilli and at successive intervals thereafter while their tubercles were healing, subgroups would be placed in the dusting room to discover whether the burner dust like pure quartz would cause reactivation and spread of the infection. The same infection controls used for group 5 would serve with group 6.

In order to carry out these tests it will be necessary to procure several hundred pounds of dust so that a sample of uniform composition may be available for the entire exposure period. The exact quantity necessary can only be estimated after we have experimented and determined the behavior of this material in atmospheric suspension, its settling rate and other characteristics.

The total duration of the inhalation experiments would likewise depend upon the rate of development of disease. It seems highly probable that at the end of one year there should be some indication of the nature of the results but perhaps this will require two years. A third year may be necessary to develop changes in the lungs which are dense enough to cast shadows on an X-ray film.

The Saranac Laboratory will undertake this program of research for the sum of \$6,000 annually for the first two years and for \$4,500 for a third year if such proves essential.

Preliminary injection tests could be started in June and by September we should have raised a sufficient number of animals, free from taint of extraneous infection to begin the inhalation program. No time would be saved by purchasing animals from outside sources as these invariably harbor latent infections of the lungs which reactivate on exposure to dust. In the interim the physical characteristics of the burner dust in atmospheric suspension can be established and the preliminary injection tests will have developed to guide the later parts of the program.

It was indeed a pleasure to have seen you in Chicago and I only regret that my time was so occupied that I could not review with you the films of your employed group.

Sincerely,

Roy
Leroy U. Gardner, M. D.
Director

LUG:RH

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