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DEPARTMENT OF THE ARMY
Fort Detrick
Frederick, Maryland
Bronchoscopy observations after inhalation of dyes under normal and morbid conditions of the respiratory tract

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The introduction gives a brief survey of the methods hitherto used in order to investigate the penetration of the respiratory tract of animals and man by inhaled aerosols.

A report is then given on the methodology of the author's own dye-inhalation experiments on man. A small number of persons in the experiment inhaled Evans Blue with a bronchoscope inserted in the upper trachea or in the lower inter-bronchial area. Most of them inhaled the dye before bronchoscopy.

In demonstrating the results in the normal respiratory tract and in case of various pathological conditions in the bronchial system and in the pulmonary parenchyma, the author in each instance shows first of all a photograph giving a general view of the lungs, often supplemented by photographs of the layers, and then the bronchoscopically obtained color photograph with the dye precipitation that is present, usually supplemented by bronchograms.

In the discussion of the results the conditions for the precipitation of inhaled dye and the intensity thereof are discussed on the basis of schematic diagrams. Conclusions as to the possibilities and limits of aerosol therapy...
are drawn. Also dealt with is the significance of bronchosco
scopic investigations for clarifying further scientific ques-
tions of aerosol inhalation.