

It is impossible to decide in what way, if at all, the intranuclear inclusions we have found so frequently in pertussis are related to those already described in a variety of pathological conditions. Inclusions have not yet been observed in the salivary glands from cases of pertussis, but in only 3 instances have these organs been available for examination.

The presence of intranuclear inclusions in the lungs in such a high percentage of our cases of pertussis and their infrequency in a variety of other childhood diseases indicate that they are intimately associated with whooping cough and suggest that the possible rôle of a filterable virus must be considered in this disease.

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Note on the Cultivation of the Typhus Fever Rickettsia.

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In our recent paper¹ on the cultivation of the typhus fever rickettsiae, it was stated that "of several tissues tested, only tunica and peritoneum gave satisfactory results in the medium described." Since then, we have succeeded in obtaining good growth with guinea pig testicle and kidney tissues in the serum Tyrode medium. Multiplication also occurred when various other tissues (guinea pig brain, heart, adrenal, lung, spleen, embryo) were used.

In these experiments, phenol red was added to the Tyrode solution in order to follow changes in reaction, as produced by the tissues during the incubation of the cultures. By reducing the amount of tissue in the medium, it was possible to retard the change in reaction, a circumstance which in our opinion may be significant in obtaining positive results.

¹ Nigg, C., and Landsteiner, K., *J. Exp. Med.*, 1932, **55**, 563.