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Author(s)	NAKAGAWA, Michio
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ON HISTOPATHOLOGICAL FINDINGS OF THE LUNGS OF SERUM HORSES

Michio NAKAGAWA

*Department of Veterinary Pathology,
Faculty of Veterinary Medicine,
Hokkaido University, Sapporo, Japan*

(Summary of Master's thesis directed by Dr. S. YAMAGIWA)

Concerning the lungs from eighty-one serum horses (the majority being 9~16 years of age) which were autopsied in 1941 and 1942 (in wartime) in the Institute for Infectious Disease, Tokyo University, Tokyo, Japan, the author conducted histopathological observations paying especial attention to particulars of disposition of opportunity. There were such circumstances as that the animals, prior to developing complete immunity, had died or unavoidably had to be slaughtered showing for the most part excessive general exhaustion, cardiac weakness, difficulty in standing, etc. The animals had already exhibited poor condition of nutrition at the very beginning of the process of gaining immunity; they had been subjected to exceedingly unsatisfactory feeding and management throughout the entire period of the process of gaining immunity in their lifetime. In addition, section preparations of the lungs from 88 slaughtered horses (5~23 years of age) in which no pneumonic lesions were found out were examined.

Among all the serum horses, the existence of pneumonic lesions (acute to chronic ones) was detected in 36 cases (44.4%). However, only 4 out of these cases had been clinically diagnosed as pneumonia in their lifetime.

In connection with the features of peribronchiolitis subacuta found in the majority of cases which had no pneumonic lesions some discussions were offered. It is hoped such comments may be instrumental in considering the pathogenesis of bronchopneumonia of horses.