

a strain of embryonated eggs isolated from faeces gave symptoms at a very low level : 1 000 eggs/pig.

— 25 strains isolated in our area were not really pathogenic if pulmonary lesions on mice are the criteria (BROWN and CHAN).

— Strains isolated from faeces are ineffective on mice, but highly pathogenic on swine. They could be considered as more harmful for swine than those coming from dissection or from laying, but cannot be selected on mice.

— It is necessary to give less than 500 eggs/piglet if the eosinophilic reaction has to be avoided. For high numbers this reaction is strong, but short in time.

In contrast with natural infestation so easy to bring about by mere deterioration of the hygienic conditions, experimental infestation is difficult to obtain as the parasites go through the small intestine and donat remain inside this organ at a regular level.

However, liver or lung passage is quite easy to control and manage.

**Swine gastro-intestinal parasites in France.
Contribution to the epidemiology of *Hyostrogylus rubidus*
after worm counts in adult sows and boars at the Slaughter-House**

J. P. RAYNAUD

*Station de Recherches et Développement vétérinaire,
Pfizer International,
B. P. 42, 37400 Amboise (France)*

Stomach parasites and egg counts in adult sows and boars from family breedings and small size units were controlled.

Among 4 075 stomachs examined, 27.9 p. 100 (1 137) were found with worms. Out of 33 animals with parasites in the stomach, egg counts were important for *Ascaris*, *Oesophagostomum* and *Hyostrogylus*.

For an average of 573 *Hyostrogylus* eggs/gramme an average of 64 661 *Hyostrogylus* including 41 614 adults (values from 360 to 205 600) was found in the stomach. Those figures are considerable.

Homocytotropic antibodies in the pig

J. J. METZGER, P. ROUZE, Ch. BOURDIEU and M. HOUDAYER

*Laboratoire de Pathologie porcine, I. N. R. A.,
78850 Thiverval-Grignon*

Immunization of pigs with hen egg-white lysozyme in the presence of complete Freund's adjuvant gives rise to homocytotropic antibodies the kinetics of which parallel those of early antibodies. Through gel-filtration, however, those reaginic antibodies behaved as 7 S molecules.