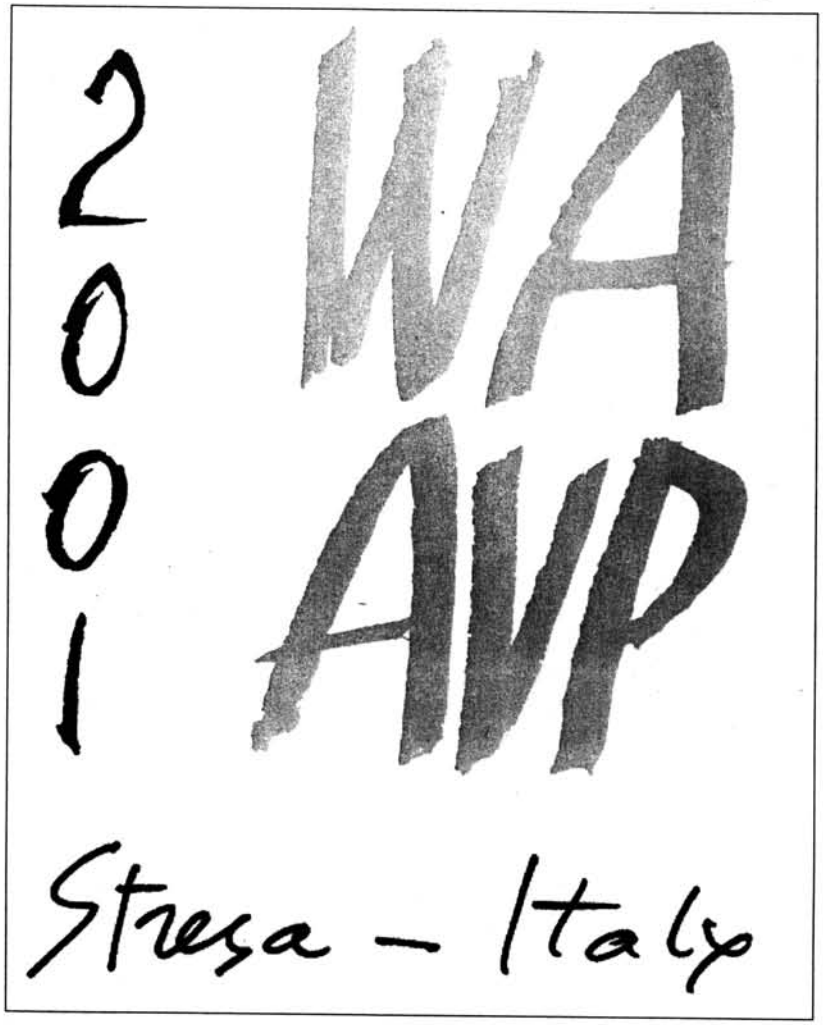
ABSTRACTS



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NEW RECORD ON HORSE CYATHOSTOMES' RESISTANCE TO BENZIMIDAZOLES IN UKRAINE

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Background: The aim of our work was to test the efficacy of a range of anthelminthics in horses on Dubrovskiy horse farm, where the resistance of cyathostomes to cambendazole has been found in 1995 (Borgsteede et al., Vet. Parasitol., 1997, 68: 113-117). Our investigations were carried out in summer, 2000.

Material and methods: Five anthelminthic of wide action spectrum were used: "Brovalzen" (7.5% albendazol), "Brovadazol" (5% fenbendazol), "Avertin" (0.2% abamectin complex), "Univerm" (0.2% aversectin), "Equisect" (1% aversectin C). Sixty horses 1-1.5 years-old (200-250 kg weight) divided into 5 experimental and 1 control groups were involved in experiment. Faecal samples were collected on a day before and 15 days after treatment. Efficacy of each preparation was determined by faecal egg count reduction (FECR) test. Faecal samples were cultivated during 15 days at 20-25 °C for infective larvae identification.

Results: In the horses treated by "Brovalzen" and "Brovadazol", the FECR test revealed 45.8 % and 71.9 % reduction of nematode eggs' number correspondingly. Treatment by avermectin preparations resulted in comparatively higher FECR test values: 98.8 % for "Univerm", 98.9 % for "Avertin" and 99.7 % for "Equisect". Before treatment, 74.8% of nematode larvae in samples were of the cyathostome type. After treatment only cyathostome larvae were found in the cultures.

Conclusions: The continuing resistance of cyathostomes to benzimidazole preparations was revealed in horses from Dubrovskiy horse farm. Avermectin preparations were effective against both cyathostomes and other intestine helminths.