Control of sheep scab
A recipe for muddle

Export certified herds
Britain's proposals rejected by Brussels

Rabbit haemorrhagic disease virus
Serological evidence for a related, non-pathogenic strain

Animal welfare diploma
The RCVS decides to go ahead

Food Standards Agency
A topic addressed in a policy speech by the BVA President

Comment 637
A recipe for muddle on sheep scab 637

News and Reports 638
Proposals for the export certified herds scheme rejected 638
Britain implements EU rules on the welfare of animals during transport 638
PVS calls for urgent control of wild boar 639
Funding for scrapie research 639
Tougher checks on abattoirs, warns minister 639
Queen's birthday honours 639
Support for UK Veterinary Investment 640
Joint professorship in epidemiology 640
Blue Cross centenary art exhibition 640

Royal College of Veterinary Surgeons 641
June meeting of Council 641

European Scene 642

Papers and Articles 643
Acute maduramicin toxicity in calves (A. Shlosberg and others) 643
Seroconversion in an industrial unit of rabbits infected with a non-pathogenic rabbit haemorrhagic disease-like virus (L. Capucci and others) 647
Cutaneous protothecosis in a dog (P. J. Ginel and others) 651

Short Communications 653
Pan-Asian spread of single fungic clone results in large scale fish kills (J. H. Lilley and others) 653
Postmortem comparison of ultrasonography, endocrine measurements and histology of large abnormal ovarian follicles in cows (S. J. Scott, H. Dobson) 654
An inherited neurological disorder of the St Bernard dog characterised by unusual cerebellar cortical dysplasia (R. J. M. Franklin and others) 656

Books 658
British Veterinary Association 660
New Government: new opportunities 660

Personal 662
Deaths 662
Diary 662

Letters 663
Timing of cataract surgery in dogs (P. R. Awramik) 663
Arrangements for bovine abortion investigations (F. J. McKeeating) 663
Gasterophilus peconuri larvae in an aged lion (A. Battisti and others) 664
Abdominal distension in a cat (J. Ristic, H. Rajmakers) 664
Use of Frontline Spray in rabbits (D. Malley) 664
Inspection of abattoir establishments (W. I. Atkinson) 664
EMS questionnaire (I. Taylor) 664

Classified Advertisements x
Gasterophilus pecorum larvae in an aged lion

SIR, — A 19-year-old male lion (Panthera leo), born in captivity and exhibiting a marked cachexia, was presented for post-mortem examination.

Macroscopically, a number of cutaneous ulcers with different body location, along with bilateral purulent bronchopneumonia, bilateral interstitial nephritis, superficial serous cysts in the liver, and haemorrhagic pancreatitis and enteritis, could be observed. In addition, the gastric mucosa of this lion was affected by a marked hyperaemia, as well as by erosive and/or ulcerative foci.

Microbiological examinations from lung lesions yielded isolation of both Staphylococcus aureus and Group G Streptococcus. Many adult Toxascaris leonina nematodes were also found in the intestinal lumen, whereas three larvae of Gasterophilus species (Diptera: Gasterophilidae) were attached to the cardiac region’s gastric mucosa. These were subsequently identified as immature third instar larvae of Gasterophilus pecorum (Fabricius 1794).

Their location in the host’s stomach — similar to that usually observed in equids — indicates the parasite’s attempt to carry out its own life cycle even in a different host. However, the weak penetration of larval mouth-hooks in the animal’s stomach leads us to believe that the larvae would probably not have survived their new habitat and that they would have detached themselves in a short time from the gastric mucosa, thus interrupting their life cycle.

Although larvae of Gasterophilus species have been previously reported in other carnivora, to the best of our knowledge this is the first report of them in a lion. Gasterophilus pecorum-infected viscera from

[Image 0x0 to 185x523]
equids may have acted as the infection source, once they were eaten by the animal.

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