

Papers published by VLA staff in 2006

ANIMAL HEALTH AND WELFARE

Harwood D 2006

VLA welfare observations associated with endemic disease in England and Wales.

Cattle Practice 14 (3) 161-165

Scott K; Chennels DJ; Campbell FM; Hunt B; Armstrong D; Taylor L; Gill BP; Edwards SA 2006

The welfare of finishing pigs in two contrasting housing systems: fully-slatted versus straw-bedded accommodation.

Livestock Science 103 (1-2) 104-115

ANTIMICROBIAL RESISTANCE

Hopkins KL; Deheer-Graham A; Threlfall EJ; Batchelor MJ; Liebana E 2006

Novel plasmid-mediated CTX-M-8 subgroup extended-spectrum beta-lactamase (CTX-M-40) isolated in the UK (letter).

International Journal of Antimicrobial Agents 27 (6) 572-575

Hopkins KL; Liebana E; Villa L; Batchelor M; Threlfall EJ; Carattoli A 2006

Replicon typing of plasmids carrying CTX-M or CMY beta-lactamases circulating among salmonella and *Escherichia coli* isolates.

Antimicrobial Agents and Chemotherapy 50 (9) 3203-3206

Liebana E; Batchelor M; Hopkins KL; Clifton-Hadley FA; Teale CJ; Foster A; Barker L; Threlfall EJ; Davies RH 2006

Longitudinal farm study of extended-spectrum beta-lactamase-mediated resistance.

Journal of Clinical Microbiology 44 (5) 1630-1634

BOVINE SPONGIFORM ENCEPHALOPATHY (see also SCRAPIE and TRANSMISSIBLE SPONGIFORM ENCEPHALOPATHY)

Birkmann E; Schafer O; Weinmann N; Dumpitak C; Beekes M; Jackman R; Thorne L; Riesner D 2006

Detection of prion particles in samples of BSE and scrapie by fluorescence correlation spectroscopy without proteinase K digestion.

Biological Chemistry 387 (1) 95-102

Casalone C; Caramelli M; Crescio MI; Spencer YI; Simmons MM 2006

BSE immunohistochemical patterns in the brainstem: a comparison between UK and Italian cases.

Acta Neuropathologica 111 (5) 444-449

Everest SJ; Thorne LT; Hawthorn JA; Jenkins R; Hammersley C; Ramsay AM; Hawkins SA; Venables L; Flynn L; Sayers R; Kilpatrick J; Sach A; Hope J; Jackman R 2006

No abnormal prion protein detected in the milk of cattle infected with the bovine spongiform encephalopathy agent.

Journal of General Virology 87 (8) 2433-2441

Jeffrey M; Martin S; Gonzalez L; Foster J; Langeveld JPM; Zijderveld FG van; Grassi J; Hunter N 2006
Immunohistochemical features of PrPd accumulation in natural and experimental goat transmissible spongiform encephalopathies.
Journal of Comparative Pathology 134 (2-3) 171-181

Konold T; Sivam SK; Ryan J; Gubbins S; Laven R; Howe MJH 2006
Analysis of clinical signs associated with bovine spongiform encephalopathy in casualty slaughter cattle.
Veterinary Journal 171 (3) 438-444

Konold T; Lee YH; Stack MJ; Horrocks C; Green RB; Chaplin M; Simmons MM; Hawkins SAC; Lockey R; Spriopoulos J; Wilesmith JW; Wells GAH 2006
Different prion disease phenotypes result from inoculation of cattle with two temporally separated sources of sheep scrapie from Great Britain.
BMC Veterinary Research 2 (31)

Saegerman C; Speybroeck N; Vanopdenbosch E; Wilesmith JW; Berkvens D 2006
Trends in age at detection in cases of bovine spongiform encephalopathy in Belgium: an indicator of the epidemic curve.
Veterinary Record 159 (18) 583-587

Siso S; Gonzalez L; Houston F; Hunter N; Martin S; Jeffrey M 2006
The neuropathologic phenotype of experimental ovine BSE is maintained after blood transfusion.
Blood 108 (2) 745-748

Stack M; Jeffrey M; Gubbins S; Grimmer S; Gonzalez L; Martin S; Chaplin M; Webb P; Simmons M; Spencer Y; Bellerby P; Hope J; Wilesmith J; Matthews D 2006
Monitoring for bovine spongiform encephalopathy in sheep in Great Britain, 1998-2004.
Journal of General Virology 87 (7) 2099-2107

BRUCELLA

Cadmus SIB; Ijagbone IF; Oputa HE; Adesokan HK; Stack JA 2006
Serological survey of brucellosis in livestock animals and workers in Ibadan, Nigeria.
African Journal of Biomedical Research 9 (3) 163-168

Cutler SJ 2006
Brucellosis - new paradigms for classical pathogen.
Culture 27 (1) 1-3

Cutler SJ; Cutler RR 2006
Brucellosis the most common bacterial zoonosis?
Biomedical Scientist April, 1-5

Dawson CE; Perrett LL; Young EJ; Davison NJ; Monies RJ 2006
Isolation of brucella species from a bottlenosed dolphin (*Tursiops truncatus*) (letter).
Veterinary Record 158 (24) 831-832

Jungersen G; Sorensen V; Giese SB; Stack JA; Riber U 2006
Differentiation between serological responses to *Brucella suis* and *Yersinia enterocolitica* serotype O:9 after natural or experimental infection in pigs.
Epidemiology and Infection 134 (2) 347-357

McDonald WL; Jamaludin R; Mackereth G; Hansen M; Humphrey S; Short P; Taylor T; Swingler J; Dawson CE; Whatmore AM; Stubberfield E; Perrett LL; Simmons G 2006
Characterization of a *brucella* sp. strain as a marine-mammal type despite isolation from a patient with spinal osteomyelitis in New Zealand.
Journal of Clinical Microbiology 44 (12) 4363-4370

McGiven JA; Stack JA; Perrett LL; Tucker JD; Brew SD; Stubberfield E; Macmillan AP 2006
Harmonisation of European tests for serological diagnosis of *brucella* infection in bovines.
Revue Scientifique et Technique 25 (3) 1039-1053

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Serological discrimination by indirect enzyme immunoassay between the antibody response to *brucella* sp. and *Yersinia enterocolitica* O:9 in cattle and pigs.
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Journal of Clinical Microbiology 44 (6) 1982-1993

Zarnke RL; Saliki JT; Macmillan AP; Brew SD; Dawson CE; Ver Hoef JM; Frost KJ; Small RJ 2006
Serologic survey for *brucella* spp., phocid herpesvirus-1, phocid herpesvirus-2, and phocine distemper virus in harbor seals from Alaska, 1976-1999.
Journal of Wildlife Diseases 42 (2) 290-300

CAMPYLOBACTER

Adkin A; Hartnett E; Jordan L; Newell D; Davison H 2006
Use of a systematic review to assist the development of *Campylobacter* control strategies in broilers.
Journal of Applied Microbiology 100 (2) 306-315

Gaudie C; Wragg P; Done S; Toszeghy M 2006
Porcines, abortion and *arcobacters* - a summary.
Pig Journal (58) 99-107

Lee MD; Newell DG 2006
Campylobacter in poultry: filling an ecological niche.
Avian Diseases 50 (1) 1-9

CATTLE DISEASES AND CONDITIONS

Huebschle OJB; Ayling RD; Godinho K; Lukhele O; Tjipura-Zaire G; Rowan TG; Nicholas RAJ 2006
Danofloxacin (Advocin) reduces the spread of contagious bovine pleuropneumonia to healthy in-contact cattle.
Research in Veterinary Science 81 (3) 304-309

Kemp R; Caldow G; Strain S 2006
Herd prevalence of Johne's disease (letter).
Veterinary Record 159 (17) 572

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Causes of abortion are many and varied (letter).
Dairy Farmer 53 (8) 18

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Veterinary Record 159 (8) 250-251

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Reply to Caeruloplasmin: plasma copper ratios in cows (letter).
Veterinary Record 159 (18) 608

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Outbreaks of postparturient haemoglobinuria in dairy herds (letter).
Veterinary Record 159 (2) 59

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Risk of botulism in cattle and sheep arising from contact with broiler litter (letter).
Veterinary Record 159 (6) 186-187

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Bulk milk antibody testing: where are we now?
Cattle Practice 14 (3) 175-179

Twomey DF; Griffiths PC; Horigan MW; Hignett BC; Martin TP 2006
An investigation into the role of chlamydia spp. in bovine upper respiratory disease.
Veterinary Journal 171 (3) 574-576

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Bacillary haemoglobinuria in dairy cows (letter).
Veterinary Record 159 (5) 160

CONTAGIOUS EQUINE METRITIS

Jackson G; Heath P 2006
Survey for *Taylorella* species in the UK (letter).
Veterinary Record 159 (24) 823-824

Wakeley PR; Errington J; Hannon S; Roest HIJ; Carson T; Hunt B; Sawyer J; Heath P 2006
Development of a real time PCR for the detection of *Taylorella equigenitalis* directly from genital swabs and discrimination from *Taylorella asinigenitalis*.
Veterinary Microbiology 118 (3-4) 247-254

DEER DISEASES AND CONDITIONS

Barlow AM; Couper D 2006
Cutaneous teratoma in a wild roe deer (*Capreolus capreolus*) in the UK (letter).
Veterinary Record 159 (7) 211-212

David G 2006

Dictyocaulus species in red deer. Reply to letter from CG Mackintosh (letter).

Veterinary Record 159 (3) 92

DIAGNOSTICS

Hicks DJ; Johnson L; Mitchell SM; Gough J; Cooley WA; La Ragione RM; Spencer YI; Wangoo A 2006

Evaluation of zinc salt based fixatives for preserving antigenic determinants for immunohistochemical demonstration of murine immune system cell markers.

Biotechnic and Histochemistry 81 (1) 23-30

Laven RA; Livesey CT 2006

An evaluation of the effect of clotting and processing of blood samples on the recovery of copper from bovine blood.

Veterinary Journal 171 (2) 295-300

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Transportation of reagents, reference materials and samples: the international perspective.

Developments in Biologicals (126) 61-70

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Practical experiences of moving molecular diagnostics into routine use at the Veterinary Laboratories Agency.

Developments in Biologicals (126) 89-97

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Journal of Veterinary Diagnostic Investigation 18 (6) 580-582

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Development of a framework for international certification by OIE of diagnostic tests validated as fit for purpose.

Developments in Biologicals (126) 43-51

EQUINE ARTERITIS VIRUS

Mittelholzer C; Stadejek T; Johansson I; Baule C; Ciabatti I; Hannant D; Paton D; Autorino GL;

Nowotny N; Belak S 2006

Extended phylogeny of equine arteritis virus: division into new subgroups.

Journal of Veterinary Medicine B 53 (2) 55-58

ESCHERICHIA COLI

Anjum MF; Tucker JD; Sprigings A; Woodward MJ; Ehrlich R 2006

Use of miniaturized protein arrays for Escherichia coli O serotyping.

Clinical and Vaccine Immunology 13 (5) 561-567

Best A; La Ragione RM; Clifford D; Cooley WA; Sayers AR; Woodward MJ 2006

A comparison of shiga-toxin negative Escherichia coli O157 flagellate and intimin deficient mutants in porcine in vitro and in vivo models of infection.

Veterinary Microbiology 113 (1) 63-72

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Epidemiology and Infection 134 (2) 421-423

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New plasmid-mediated AmpC beta-lactamase (CMY-21) in Escherichia coli isolated in the UK (letter).
International Journal of Antimicrobial Agents 28 (1) 79-82

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Journal of Medical Microbiology 55 (7) 819-828

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Microbes and Infection 8 (2) 426-433

Milnes AS; Pritchard GC; Sprigings K; Futter R; Willshaw GA 2006
Verocytotoxin-producing E coli O26 infection in calves (letter).
Veterinary Record 159 (5) 159

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Role of intimin-Tir interactions and the Tir-cytoskeleton coupling protein in the colonization of calves and lambs by Escherichia coli O157:H7.
Infection and Immunity 74 (1) 758-764

FOOD SAFETY (including residues and disease transmission)

Aish J; Simmons A; Livesey C; Kennedy S; Gayford P 2006
Change to FSA advice on botulism in cattle (letter).
Veterinary Record 159 (24) 822

Danaher M; Howells LC; Crooks SRH; Cerkvenik-Flajs V; O'Keefe M 2006
Review of methodology for the determination of macrocyclic lactone residues in biological matrices.
Journal of Chromatography B 844 (2) 175-203

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Physiologically-based pharmacokinetic modeling of genistein in rats, part 1: model development.
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Lead poisoning in cattle and its implications for food safety.
Veterinary Record 159 (3) 71-74

Wooldridge M; Hartnett E; Cox A; Seaman M 2006
Quantitative risk assessment case study: smuggled meats as disease vectors.
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Journal of Histochemistry and Cytochemistry 54 (7) 807-816

INFLUENZA VIRUSES (including avian influenza)

Alexander DJ 2006

Avian influenza viruses and human health.

Developments in Biologicals (124) 77-84

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Advances in molecular diagnostics for avian influenza.

Developments in Biologicals (124) 93-97

Brown I 2006

Flu virus missing? (letter).

New Scientist 13 May, 22

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Recent epidemiology and ecology of influenza A viruses in avian species in Europe and the Middle East.

Developments in Biologicals (124) 45-50

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The challenge of avian influenza to the veterinary community.

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Science 312 (5780) 1597

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Emerging Infectious Diseases 12 (8) 1287-1288

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Developments in Biologicals (124) 159-162

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Journal of General Virology 87 (12) 3545-3549

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Isolation of avian influenza virus in Bulgaria (letter).

Veterinary Record 158 (3) 106-107

MISCELLANEOUS

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Panniculitis, polyarthritis and osteomyelitis associated with pancreatic neoplasia in two dogs.
Journal of Small Animal Practice 47 (7) 400-404

McNally A; Dalton T; La Ragione RM; Stapleton K; Manning G; Newell DG 2006
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Journal of Medical Microbiology 55 (12) 1725-1734

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Isolation and molecular identification of small ruminant mycoplasmas in Jordan.
Small Ruminant Research 65 (1-2) 106-112

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Veterinary Record 159 (14) 464

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Mycoplasmas in adult cattle: bugs worth bothering about?
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Veterinary Microbiology 118 (1) 83-90

PARASITOLOGY AND PARASITIC DISEASES

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Controlling ectoparasites.
Sheep Farmer 25 (3) 16-21

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Prevalence and regional distribution of scab, lice and blowfly strike in Great Britain.
Veterinary Record 158 (22) 749-752

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Possibilities for relapsing fever reemergence.
Emerging Infectious Diseases 12 (3) 369-374

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Relapsing fever spirochetes *Borrelia recurrentis* and *B. duttonii* acquire complement regulators C4b-binding protein and factor H.
Infection and Immunity 74 (7) 4157-4163

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Veterinary Record 159 (25) 860

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Deaths in aviary birds associated with protozoal megaloschizonts (letter).
Veterinary Record 159 (15) 499-500

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Hepatozoon species infection in wild red squirrels (*Sciurus vulgaris*) on the Isle of Wight.
Veterinary Record 159 (7) 202-205

PIG DISEASES AND CONDITIONS

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Hemlock poisoning in pigs.
Pig Journal (57) 254-258

Done SH 2006
Summary of the proceedings of the 19th International Pig Veterinary Society Congress held in Copenhagen, Denmark, from 16th-19th July 2006.
Pig Journal (58) 220-268

Reichel R; Gaudie C; Done SH; Teale CJ 2006
Swine dysentery and antibiotic resistance.
Pig Journal (58) 212-217

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Oesophageal muscular hyperplasia and hypertrophy: a response to cardiac stenosis caused by parakeratosis and ulceration.
Pig Journal (57) 231-239

Papadopoulou C; Cook AJC; Iversen J; Snow L; Bushnell M; Rycroft AR 2006
The occurrence and impact upon reproductive performance of health events and prolonged acclimatisation - a longitudinal study at Stotfold Pig Development Unit.
Pig Journal (58) 86-98

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Leptospira serovars in UK pigs project OD0214 activities at VLA regional laboratories.
Pig Journal (58) 108-111

POSTWEANING MULTISYSTEMIC WASTING SYNDROME

Banks M; Grierson S; Tucker D; Bailey M; Donadeau M; Sargent C; King D; Mellencamp M 2006
Swine and circovirus
Developments in Biologicals (126) 107-113

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Survey of pigs' kidneys with lesions consistent with PMWS and PDNS and ochratoxicosis. Part 1: concentrations and prevalence of ochratoxin A.
Veterinary Record 159 (22) 737-742

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Veterinary Record 159 (23) 761-768

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RABIES

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The diversity of rabies virus in Russia demonstrated by anti-nucleocapsid monoclonal antibody application and limited gene sequencing.
Developments in Biologicals (125) 79-90

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Ability of rabies vaccine strains to elicit cross-neutralising antibodies.
Developments in Biologicals (125) 185-193

Brookes SM; Fooks AR 2006

Occupational lyssavirus risks and post-vaccination monitoring.

Developments in Biologicals (125) 165-173

Fooks AR; Marston D; Parsons G; Earl D; Dicker A; Brookes SM 2006

Isolation of EBLV-2 in a Daubenton's bat (*Myotis daubentonii*) found in Oxfordshire (letter).

Veterinary Record 159 (16) 534-535

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Biological Conservation 131 (2) 193-210

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Passive surveillance (1987 to 2004) of United Kingdom bats for European bat lyssaviruses.

Veterinary Record 159 (14) 439-446

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Microbes and Infection 8 (4) 1090-1097

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Airborne transmission of lyssaviruses.

Journal of Medical Microbiology 55 (6) 785-790

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Epidemiology and Infection 134 (2) 369-375

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Risk assessments to inform policy decisions regarding importation of pets from North America.

Veterinary Record 158 (20) 694-695

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A molecular epidemiological study of rabies epizootics in kudu (*Tragelaphus strepsiceros*) in Namibia.

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Wildlife rabies control policy in Great Britain.
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Journal of Comparative Pathology 134 (2-3) 190-201

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Development of a real-time differential RT-PCR TaqMan assay for lyssavirus genotypes 1, 5 and 6.
Developments in Biologicals (126) 227-236

SALMONELLA

Buckley AM; Webber MA; Cooles S; Randall LP; La Ragione RM; Woodward MJ; Piddock LJ 2006
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Antimicrobial Agents and Chemotherapy 50 (12) 4030-4037

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