

EPIDEMIOLOGY AND INFECTION

EDITED BY

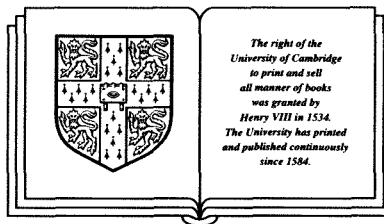
J. R. PATTISON
D. BAXBY J. G. CRUICKSHANK
C. R. MADELEY W. C. NOBLE

P. MORGAN-CAPNER
(MANAGING EDITOR)

IN CONJUNCTION WITH

M. J. ANDERSON	T. J. MARRIE
R. M. ANDERSON	C. MARTÍN-BOURGON
R. D. BARRY	O. H. MEURMAN
P. S. BRACHMAN	P. P. MORTIMER
M. CHERNESKY	J. NAIDOO
M. DEGRÉ	J. S. OXFORD
R. G. FINCH	D. J. PLATT
R. J. GILBERT	B. ROWE
P. D. GRIFFITHS	M. B. SKIRROW
ANNA HAMBRAEUS	N. EL SOLH
M. H. HINTON	R. SWANEPOEL
T. HUMPHREY	R. S. TEDDER
J. C. DE JONG	E. J. THRELFALL
A. P. KENDAL	H. E. TILLETT
J. B. KURTZ	J. P. VANDENBROUCKE
M. J. LEWIS	P. J. WILKINSON
D. H. LLOYD	A. T. WILLIS
R. R. MARPLES	

VOLUME 109, 1992



CAMBRIDGE UNIVERSITY PRESS

Cambridge

New York Port Chester Melbourne Sydney

Published by the Press Syndicate of the University of Cambridge
The Pitt Building, Trumpington Street, Cambridge CB2 1RP
40 West 20th Street, New York 10011-4211, USA
10 Stamford Road, Oakleigh, Victoria 3166, Australia

© Cambridge University Press 1992

Printed in Great Britain by the Cambridge University Press, Cambridge

Contents

No. 1 (AUGUST 1992)

Special Article. Giardia – diagnosis, clinical course and epidemiology. A review	
Flanagan, P. A.	1
Mycobacterium bovis in England and Wales: past, present and future	
Hardie, R. M. and Watson, J. M.	23
Ribosomal RNA gene restriction patterns of <i>Helicobacter pylori</i>: analysis and appraisal of <i>Hae</i> III digests as a molecular typing system	
Owen, R. J., Hunton, C., Bickley, J., Moreno, M. and Linton, D.	35
Legionella pneumophila in residential water supplies: environmental surveillance with clinical assessment for Legionnaires' disease	
Stout, J. E., Yu, V. L., Yee, Y. C., Vaccarello, S., Diven, W and Lee, T. C.	49
Restriction endonuclease fingerprinting of genomic DNA of <i>Staphylococcus</i> species of bovine origin	
Matthews, K. R., Jayarao, B. M. and Oliver, S. P.	59
Characterization of enterococcal isolates by restriction enzyme analysis of genomic DNA	
Lacoux, P. A., Jordens, J. Z., Fenton, C. M., Guiney, M. and Pennington, T. H.	69
<i>Helicobacter pylori</i>, musings from the epidemiologic armchair	
Koster, T. and Vandebroucke, J. P.	81
A Study into the mechanism of the Crystal Violet reaction in <i>Staphylococcus aureus</i>	
Barer, M. R., Burdess, D. and Freeman, R.	87
The epidemiology of ciprofloxacin resistance in coagulase-negative staphylococci in CAPD patients	
Dryden, M. S., Talsania, H., McCann, M., Cookson, B. D. and Phillips, I.	97
Transferable antibiotic resistance among thermotolerant coliforms from rural drinking water in India	
Gaur, A., Ramteke, P. W., Pathak, S. P. and Bhattacherjee, J. W.	113
The ability of airborne <i>Klebsiella pneumoniae</i> to colonize mouse lungs	
Bolister, N. J., Johnson, H. E. and Wathes, C. M.	121
Intestinal spirochaetes colonizing Aborigines from communities in the remote north of Western Australia	
Lee, J. I. and Hampson, D. J.	133
Vector potential of hospital houseflies with special reference to <i>Klebsiella</i> species	
Fotedar, R., Banerjee, U., Samantray, J. C. and Shriniwas	143
Short-term predictions of HIV prevalence and AIDS incidence	
Hendriks, J. C. M., Medley, G. F., Heisterkamp, S. H., Van Griensven, G. J. P., Bindels, P. J. E., Coutinho, R. A. and Van Druten, J. A. M.	149
Salivary antibody testing in a school outbreak of hepatitis A	
Stuart, J. M., Majeed, F. A., Cartwright, K. A. V., Room, R., Parry, J. V., Perry, K. R. and Begg, N. T.	161
An outbreak of hepatitis A in Gloucester, UK	
Majeed, F. A., Stuart, J. M., Cartwright, K. A. V., Room, R., Gilkes, J. R., Smith, M. C. and Watson, B. E.	167
Book review. Science Challenging AIDS.	175
Book review. New Health Considerations in Water Treatment.	176

No. 2 (OCTOBER 1992)

Comment. Streptococcal infection in general practice	
Barnham, M.	177
Streptococcal pharyngitis in general practice. 1. Some unusual features of the epidemiology	
Higgins, P. M.	181

Streptococcal pharyngitis in general practice. 2. A note on dual infection and transient urinary abnormalities	
Higgins, P. M.	191
Splenomegaly in acute infections due to group A streptococci and viruses	
Higgins, P. M.	199
A one-year study of streptococcal infections and their complications among Ethiopian children	
Tewodros, W., Muhe, L., Daniel, E., Schalén, C. and Kronvall, G.	211
Phylogenetic and epidemiological analysis of <i>Neisseria meningitidis</i> using DNA probes	
Ni, H., Knight, A. I., Cartwright, K. A. V. and McFadden, J. J.	227
Transmission of <i>Neisseria meningitidis</i> among asymptomatic military recruits and antibody analysis	
Caugant, D. A., Høiby, E. A., Rosenqvist, E., Frøholm, L. O. and Selander, R. K.	241
The serological grouping system for <i>Serpulina (Treponema) hyoysenteriae</i>	
Lau, T. T. A. and Hampson, D. J.	255
Concordance of auxotype/serovar classes of <i>Neisseria gonorrhoeae</i> between sexual contacts	
Ison, C. A., Whitaker, L. and Renton, A.	265
Molecular epidemiology of shigella infections in Israel	
Yavzori, M., Cohen, D. and Bercovier, H.	273
Virulence factors of enteric <i>Escherichia coli</i> in young Aboriginal children in north-west Australia	
Gunzburg, S. T., Chang, B. J., Burke, V. and Gracey, M.	283
Serological cross-reaction between <i>Legionella pneumophila</i> and campylobacter in the indirect fluorescent antibody test	
Boswell, T. C. J. and Kudesia, G.	291
Serological responses of chickens experimentally infected with <i>Salmonella enteritidis</i> PT4 by different routes	
Chart, H., Baskerville, A., Humphrey, T. J. and Rowe, B.	297
Identification of human and bovine rotavirus serotypes by polymerase chain reaction	
Taniguchi, K., Wakasugi, F., Pongsuwanne, Y., Urasawa, T., Ukae, S., Chiba, S. and Urasawa, S.	303
Book review. Miasmas and Disease. Public Health and the Environment in the pre-industrial age	313

No. 3 (DECEMBER 1992)

Special Feature. Selective Gastrointestinal Decontamination.	
History of recognition and measurement of colonization resistance of the digestive tract as an introduction to selective gastrointestinal decontamination	
Van Der Waaij, D.	315
Selective decontamination in neutropenic patients	
Kurkle, E., Schmeiser, T. and Kern, W.	327
Selective decontamination of the digestive tract in intensive care	
Boom, S. J. and Ramsay, G.	337
Selective decontamination in bone marrow transplant recipients	
Guioit, H. F. L. and Van Furth, R.	349
ELISAs and the serological analysis of salmonella infections in poultry: a review	
Barrow, P. A.	361
The relationship between infecting dose and severity of disease in reported outbreaks of salmonella infections	
Glynn, J. R. and Bradley, D. J.	371
An outbreak of <i>Salmonella dublin</i> infection in England and Wales associated with a soft unpasteurized cows' milk cheese	
Maguire, H., Cowden, J., Jacob, M., Rowe, B., Roberts, D., Bruce, J. and Mitchell, E.	389
An investigation into an outbreak of <i>Salmonella enteritidis</i> phage-type 4 infection and the consumption of custard slices and trifles	
Barnes, G. H. and Edwards, A. T.	397

Continued from back cover

High level resistance to trimethoprim, cotrimoxazole and other antimicrobial agents among clinical isolates of <i>Shigella</i> species in Ontario, Canada – an update	463
Harnett, N.	
Transferable high-level trimethoprim resistance among isolates of <i>Escherichia coli</i> from urinary tract infections in Ontario, Canada	
Harnett, N.	473
Cockroaches as carriers of bacteria in multi-family dwellings	
Cloarec, A., Rivault, C., Fontaine, F. and Le Guyader, A.	483
Destruction of bacteria on fresh meat by hot water	
Smith, M. G.	491
Circulating antibodies against faecal bacteria assessed by immunomorphometry: combining quantitative immunofluorescence and image analysis	
Apperloo-Renkema, H. Z., Wilkinson, M. H. F. and Van Der Waaij, D.	497
Factors influencing oral carriage of yeasts among individuals with diabetes mellitus	
Aly, F. Z., Blackwell, C. C., Mackenzie, D. A. C., Weir, D. M. and Clarke, B. F.	507
Laboratory diagnosis of <i>Mycoplasma pneumoniae</i> infection. 4. Antigen capture and PCR-gene amplification for detection of the mycoplasma: problems of clinical correlation	
Williamson, J., Marmion, B. P., Worswick, D. A., Kok, T.-W., Tannock, G., Herd, R. and Harris, R. J.	519
Epidemiology of enteric adenovirus infection in prospectively monitored Argentine families	
Mistchenko, A. S., Huberman, K. H., Gomez, J. A. and Grinstein, S.	539
Genetic relationships between southern African SAT-2 isolates of foot-and-mouth-disease virus	
Vosloo, W., Knowles, N. J. and Thomson, G. R.	547
Comparison of the HA genes of type B influenza viruses in herald waves and later epidemic seasons	
Nakajima, S., Nishikawa, F., Nakamura, K. and Nakajima, K.	559
Book review. Prokaryotic Structure and Function: A New Perspective	569
Book review. Colour Guide – Infectious Diseases	570
Index	573
Notes for Contributors	

Epidemiology and Infection

Original reports and reviews on all aspects of
infection of man and animals

CONTENTS

Special Feature. Selective Gastrointestinal Decontamination.	
History of recognition and measurement of colonization resistance of the digestive tract as an introduction to selective gastrointestinal decontamination	315
Van Der Waaij, D.	
Selective decontamination in neutropenic patients	327
Kurle, E., Schmeiser, T. and Kern, W.	
Selective decontamination of the digestive tract in intensive care	337
Boom, S. J. and Ramsay, G.	
Selective decontamination in bone marrow transplant recipients	349
Guiot, H. F. L. and Van Furth, R.	
ELISAs and the serological analysis of salmonella infections in poultry: a review	361
Barrow, P. A.	
The relationship between infecting dose and severity of disease in reported outbreaks of salmonella infections	371
Glynn, J. R. and Bradley, D. J.	
An outbreak of <i>Salmonella dublin</i> infection in England and Wales associated with a soft unpasteurized cows' milk cheese	389
Maguire, H., Cowden, J., Jacob, M., Rowe, B., Roberts, D., Bruce, J. and Mitchell, E.	
An investigation into an outbreak of <i>Salmonella enteritidis</i> phage-type 4 infection and the consumption of custard slices and trifles	397
Barnes, G. H. and Edwards, A. T.	
The identification of <i>Salmonella enteritidis</i> -infected poultry flocks associated with an outbreak of human salmonellosis	405
Van de Giessen, A. W., Dufrenne, J. B., Ritmeester, W. S., Berkers, P. A. T. A., Van Leeuwen, W. J. and Notermans, S. H. W.	
Occurrence of quinolone resistance in <i>Staphylococcus aureus</i> from nosocomial infection	413
Witte, W. and Grimm, H.	
A study of phenotype variation of <i>Staphylococcus epidermidis</i> using Congo red agar	423
Deighton, M. A., Capstick, J. and Borland, R.	
A longitudinal study of <i>Staphylococcus hyicus</i> colonization of vagina of gilts and transmission to piglets	433
Wegener, H. C. and Skov-Jensen, E. W.	
Secretor status and humoral immune responses to <i>Neisseria lactamica</i> and <i>Neisseria meningitidis</i>	445
Zorgani, A. A., Stewart, J., Blackwell, C. C., Elton, R. A. and Weir, D. M.	
The distribution of the DHFR genes in trimethoprim-resistant urinary tract isolates from Taiwan	453
Lin-Li Chang, Shui-Feng Chang, Teh-Yuan Chow, Wen-Jeng Wu and Jong-Chou Chang	

Continued inside back cover

Cambridge University Press

The Pitt Building, Trumpington Street, Cambridge CB2 1RP
40 West 20th Street, New York, NY 10011-4211, USA
10 Stamford Road, Oakleigh, Victoria, 3166, Australia
© Cambridge University Press 1992
Printed in Great Britain by the University Press, Cambridge