

CHAPTER 2.1.5.

FOOT AND MOUTH DISEASE

SUMMARY

Foot and mouth disease (FMD) is the most contagious disease of mammals and has a great potential for causing severe economic loss in susceptible cloven-hoofed animals. There are seven serotypes of FMD virus (FMDV), namely, O, A, C, SAT 1, SAT 2, SAT 3 and Asia 1. Infection with one serotype does not confer immunity against another. FMD cannot be differentiated clinically from other vesicular diseases, such as swine vesicular disease, vesicular stomatitis and vesicular exanthema. Laboratory diagnosis of any suspected FMD case is therefore a matter of urgency.

*Typical cases of FMD are characterised by a vesicular condition of the feet, buccal mucosa and, in females, the mammary glands. Clinical signs can vary from mild to severe, and fatalities may occur, especially in young animals. In some species the infection may be subclinical, e.g. African buffalo (*Syncerus caffer*). The preferred tissue for diagnosis is epithelium from unruptured or freshly ruptured vesicles or vesicular fluid. Where collecting this is not possible, blood and/or oesophageal-pharyngeal fluid samples taken by probang cup in ruminants or throat swabs from pigs provide an alternative source of virus. Myocardial tissue or blood can be submitted from fatal cases, but vesicles are again preferable if present.*

It is vital that samples from suspected cases be transported under secure conditions and according to international regulations. They should only be dispatched to authorised laboratories.

Diagnosis of FMD is by virus isolation or by the demonstration of FMD viral antigen or nucleic acid in samples of tissue or fluid. Detection of virus-specific antibody can also be used for diagnosis, and antibodies to viral nonstructural proteins (NSPs) can be used as indicators of infection, irrespective of vaccination status.

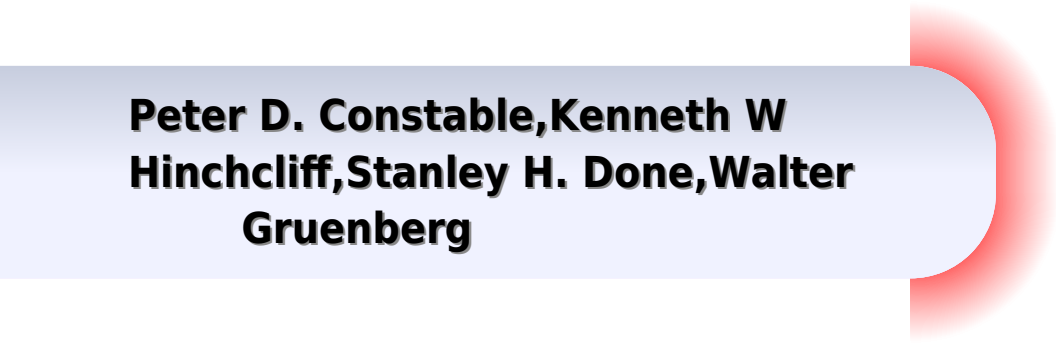
Identification of the agent: *The demonstration of FMD viral antigen or nucleic acid is sufficient for a positive diagnosis. Due to the highly contagious nature and economic importance of FMD, the laboratory diagnosis and serotype identification of the virus should be done in a laboratory that meets the OIE requirements for Containment Group 4 pathogens.*

Enzyme-linked immunosorbent assays (ELISA) can be used to detect FMD viral antigens and for serotyping. Lateral flow devices (LFD) are also becoming more readily available and can also be used to detect FMD viral antigens. The ELISA has replaced complement fixation (CF) in most laboratories as it is more specific and sensitive and it is not affected by pro- or anti-complement factors. If the sample is inadequate or the diagnosis remains uncertain, sample materials can be tested by reverse transcription polymerase chain reaction (RT-PCR) and/or virus isolation using susceptible cell cultures or 2–7-day old unweaned mice to amplify any nucleic acid or live virus that may be present. The cultures should preferably be of primary bovine (calf) thyroid, but pig, lamb or calf kidney cells, or cell lines of comparable sensitivity may be used. Once a cytopathic effect (CPE) is complete in the cultures, the fluids can be tested for FMDV using ELISA, CF or RT-PCR. Similar tests can be performed on homogenised suspensions of the dissected musculo-skeletal tissues of any mice that die.

Serological tests: *The demonstration of specific antibodies to structural proteins in nonvaccinated animals is indicative of prior infection with FMDV. This is particularly useful in mild cases or where epithelial tissue cannot be collected. Tests for antibodies to some NSPs of FMDV are useful in providing evidence of previous or current viral replication in the host, irrespective of vaccination status. NSPs, unlike structural proteins, are highly conserved and therefore are not serotype specific and as a consequence, the detection of these antibodies is not serotype restricted.*

Oie Terrestrial Manual 2009

**Peter D. Constable, Kenneth W
Hinchcliff, Stanley H. Done, Walter
Gruenberg**



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Emerging Infectious Diseases ,2015 **Veterinary Bacteriology** Indranil Samanta,2013-01-21 The book is written following the syllabus framed by Veterinary Council of India VCI It comprises historical introduction morphology classification resistance natural habitat genome isolation and colony characteristics biochemical and antigenic properties pathogenesis disease produced and diagnosis of each bacterial genus associated with animal and human health The book is intended to help BVSc and Post Graduate students of Veterinary Microbiology as well as the aspirants of ICAR JRF ICAR NET ARS examinations Further it will also help the person engaged as Veterinarian or in the laboratory for the diagnosis of animal diseases As the book comprises the diagnostic technique for each bacterial genus ranging from staining parameters to molecular tools *Infectious Diseases of Wild Mammals and Birds in Europe* Dolorés Gavier-Widen,J. Paul Duff,Anna Meredith,2012-07-10 **INFECTIOUS DISEASES OF WILD MAMMALS AND BIRDS IN EUROPE** *Infectious Diseases of Wild Mammals and Birds in Europe* is a key resource on the diagnosis and treatment of infectious diseases in European wildlife that covers the distinctive nature of diseases as they occur in Europe including strains insect vectors reservoir species and climate as well as geographical distribution of the diseases and European regulations for reporting diagnosis and control Divided into sections on viral infections bacterial infections fungal and yeast infections and prion infections this definitive reference provides valuable information on disease classification and properties causative agents epidemiology pathogenesis and implications for human domestic and wild animal health **KEY FEATURES** Brings together extensive research from many different disciplines into one integrated and highly useful definitive reference Zoonotic risks to human health as well as risks to pets and livestock are highlighted Each disease is covered separately with practical information on the animal species in which the disease has been recorded clinical signs of the disease diagnostic methods and recommended treatments and vaccination Wildlife vaccination and disease surveillance techniques are described Examines factors important in the spread of disease such as changing climate the movement of animals through trade and relaxations in the control of wild animal populations Written by a team of pathologists epidemiologists and clinicians from across Europe this is the definitive resource for infectious diseases of wild mammals and birds in Europe It will be an invaluable reference for veterinarians conservation biologists epidemiologists and wildlife researchers managers rehabilitators and students **Tuberculosis in Animals: An African Perspective** Asseged B. Dibaba,Nicolaas P. J. Kriek,Charles O. Thoen,2019-07-01 This book recounts the biology of *M. bovis* followed by the status of bovine Tuberculosis bTB in African countries primarily based on zoonotic and epidemiological field reports Since the accumulation of data is valueless unless it led to practicable control measures emphasis is put on locally adapted protocols for future control of the disease In order to systematically evaluate the knowledge base of bTB Epidemiologic Problem Oriented Approach EPOA methodology was used The methodology is composed of two triads i the problem identification characterization triad which is mainly descriptive in nature and ii the

problem management solution mitigation triad which is mainly geared toward problem management solution see figure The first triad comprises three pillars i agent ii host and iii environment and the second one i therapeutics treatment ii prevention control and iii health maintenance promotion The two triads are linked together by the diagnostic procedure linkage The systematic and detailed studies of the Host Agent Environment interactions are the building blocks to the understanding of agent transmission pathways and disease spread These may include data about the disease status of the country the nature of the disease agent and its hosts the modes of transmission the wildlife reservoirs in nature persistence of infection and agent survival in animal products and the environment The problem identification and characterization triad identifies these interactions Once a problem has been identified and well understood the next step is to minimize the risk of transmission and spread of a disease This area referred to as problem solution management triad consists of problem management alternatives that rely upon prevention control and health maintenance promotion of the disease in livestock wildlife and humans with the emphasis on resource poor developing countries in Africa

Updates on Brucellosis Manal Mohammad

Baddour,2015-11-19 Brucellosis is a major zoonotic disease that may cause a serious illness in humans and animals Global prevalence of human brucellosis remains significant More than half a million new brucellosis cases from 100 countries are reported annually to the World Health Organization WHO The majority of these cases are reported in developing countries In humans brucellosis undulant fever Malta fever is characterized by an acute bacteremic phase followed by a chronic stage that may extend over many years and may involve many tissues It is a systemic disease and many organ systems nervous system heart skeletal system bone marrow etc may become involved following hematogenous dissemination Although eradicated in some countries it remains one of the most economically important zoonosis worldwide as it is responsible for huge economic losses as well as significant human morbidity in endemic areas Because of the nonspecific clinical manifestations of human brucellosis and the need for prolonged combination therapy with antibiotics that are not routinely prescribed for other infectious diseases laboratory confirmation of the diagnosis is of paramount importance for adequate patient management In addition evidence of brucellosis has serious public health implications because it discloses exposure to a contaminated source infected animals or their products unsafe laboratory practices or a potential biological warfare attack This book addresses human brucellosis with stress on symptoms including those related to the less recognized disease localizations risk of exposure treatment and prevention Light is shed on animal brucellosis as it pertains to human exposure The book also emphasizes on laboratory procedures in culturing and serologic techniques Epidemiologic surveillance is among this books subjects as well as veterinary control measures

Greene's Infectious Diseases of the Dog and Cat - E-Book Jane E. Sykes,2022-06-24 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Veterinary Medicine Greene's Infectious Diseases of the Dog and Cat 5th Edition provides a comprehensive clinically useful reference on the management of infectious diseases caused by viruses bacteria including rickettsiae chlamydiae mycoplasmas and

spirochetes fungi algae protozoa parasites and other atypical agents Each section guides the reader through diagnostic testing for specific infectious diseases from specimen collection to laboratory submission to interpretation of results to appropriate treatment measures Full color illustrations and hundreds of tables provide convenient access to diagnostic and therapeutic recommendations along with the appropriate drug dosages for effective treatment and prevention A fully searchable enhanced eBook version is included with print purchase allowing access to all of the text and figures on a variety of digital devices More than 150 internationally recognized experts contribute chapters on topics in their field of specialty Clear and logical organization of chapters provides a solid basis for an approach to diseases caused by specific pathogens with the first part of the book including sections on diagnostic approaches treatments including recommended antimicrobial drug doses and prevention Specific pathogens are addressed in the second part of the book using a structured approach that includes etiology epidemiology relevance to wildlife animal hosts role of the environment clinical and laboratory findings treatment prevention and public health implications Case examples illustrate principles and highlight how the material can be applied More than 800 clinical images maps life cycles and photomicrographs assist with accurate understanding of epidemiology pathogenesis diagnosis of disease and disease prevention Visually appealing maps and life cycle drawings enhance your comprehension and retention of the material Convenient drug dosage tables in each chapter provide complete prescribing information chapters on antimicrobial drugs in the first part of the book summarize pharmacokinetics indications contraindications handling and administration guidelines and dosage recommendations are made for antivirals antibacterials antifungals antiprotozoals and antiparasitic drugs The book emphasizes approaches to optimize antimicrobial stewardship Clinical Problems section helps you understand what infectious diseases should be considered in animals seen with clinical signs relating to different organ systems Suggested readings and references are listed in each chapter facilitating further research and study Fully searchable enhanced eBook version is included with print purchase allowing access to all of the text and figures on a variety of digital devices Manual of Diagnostic Tests and Vaccines for Terrestrial Animals ,2008

Understanding Tuberculosis Pere-Joan Cardona,2012-02-15 Mycobacterium tuberculosis is a disease that is transmitted through aerosol This is the reason why it is estimated that a third of humankind is already infected by Mycobacterium tuberculosis The vast majority of the infected do not know about their status Mycobacterium tuberculosis is a silent pathogen causing no symptomatology at all during the infection In addition infected people cannot cause further infections Unfortunately an estimated 10 per cent of the infected population has the probability to develop the disease making it very difficult to eradicate Once in this stage the bacilli can be transmitted to other persons and the development of clinical symptoms is very progressive Therefore the diagnosis especially the discrimination between infection and disease is a real challenge In this book we present the experience of worldwide specialists on the diagnosis along with its lights and shadows

Veterinary Medicine Peter D. Constable,Kenneth W Hinchcliff,Stanley H. Done,Walter Gruenberg,2016-10-25 Treat the

diseases affecting large animals Veterinary Medicine 11th Edition provides up to date information on the diseases of horses cattle sheep goats and pigs Comprehensive coverage includes the principles of clinical examination and making a diagnosis along with specific therapy recommendations For easier use this edition has been divided into two volumes and restructured into a logical anatomically based approach to disease From internationally known veterinary experts Peter Constable Kenneth Hinchcliff Stanley Done and Walter Gr nberg this book is the definitive one stop reference for farm animal and equine care Comprehensive coverage includes information essential to any large animal veterinarian especially those working with horses cattle sheep goats or pigs Coverage of diseases addresses major large animal diseases of all countries including foreign animal and emerging diseases User friendly format makes it easier to quickly absorb key information Quick review synopsis sections make important information on complex diseases easy to find NEW Convenient easy access format is organized by organ systems and divides the content into two compact volumes with the same authoritative coverage Nearly 200 new color photographs and line drawings are included in this edition NEW full color design improves navigation clarifies subject headings and includes more boxes tables and charts for faster reference New Diseases Primarily Affecting the Reproductive System chapter is added Updated and expanded chapter on pharmacotherapy lists therapeutic interventions and offers treatment boxes and principles of antibiotic use Expanded sections on herd health include biosecurity and infection control and valuable Strength of Evidence boxes NEW or extensively revised sections include topics such as the Schmallenberg and Bluetongue viral epidemics of ruminants in Europe Wesselbron disease in cattle hypokalemia in adult cattle equine multinodular pulmonary fibrosis Hendra virus infection porcine reproductive and respiratory syndrome torque teno virus and numerous recently identified congenital and inherited disorders of large animals Additional content is provided on lameness in cattle and the diseases of cervids Women in veterinary epidemiology and economics Alejandra Victoria Capozzo, Flavie Vial, 2023-06-09 *African Swine Fever* Jose Manuel Sanchez-Vizcaino, Marta Martinez Aviles, Alberto Laddomada, 2021-03-08 Advances in Animal Disease Diagnosis Suresh Kumar Gahlawat, Sushila Maan, 2021-06-15 Advances in Animal Disease Diagnosis Infectious animal diseases caused by pathogenic microorganisms such as bacteria fungi and viruses threaten the health and well being of wildlife livestock and human populations limit productivity and significantly increase economic losses to each sector Pathogen detection is an important step for the diagnosis and successful treatment of animal diseases as well as control management in farm and field conditions The conventional techniques employed to diagnose pathogens in livestock species are time consuming and sometimes give inconclusive results On the contrary molecular techniques have the potential to diagnose known pathogens conditions quickly reliably and unequivocally as well as for novel pathogen detection New advances in diagnostics and vaccine design using genomics have developed powerful new methods that have also set the stage for the enhanced diagnosis surveillance and control of infectious diseases High throughput sequencing HTS for example uses the latest DNA sequencing platforms in

the detection identification and detailed analysis of both pathogen and host genomes This book will explore some key opportunities in the context of animal health such as the detection of new microorganisms and the development of improved diagnosis of emerging or re emerging diseases and other clinical conditions viz biosensors nanotools and omics technologies Features Details comprehensive knowledge on the latest molecular techniques for animal disease diagnosis and management Examines how DNA based diagnostic techniques will assist international efforts to control the introduction of exotic diseases into new geographic areas Describes the latest molecular assays for the rapid and accurate detection of pathogens Helps in working towards meeting the global challenge for sustainable food production and the eradication of poverty With new biotechnological developments this fully updated book is a treasure trove of the latest information in animal and medical science

Handbook of Management of Zoonoses Krishna Gopal Narayan,Dharmendra Kumar Sinha,Dhirendra Kumar Singh,2024-12-01 This book reviews the etiology of major zoonotic diseases their impact on human health and control mechanisms for better management It also examines factors influencing transmission diagnosis treatment management and prevention of zoonotic diseases caused by different human pathogens including bacteria viruses fungi protozoans and parasites It also introduces zoonoses with a wildlife reservoir and discusses different transmission modes and factors that influence the epidemiology of zoonoses It further discusses the holistic strategies for the cost effective prevention and control of these zoonoses Towards the end the book also discusses infections that have spread from non human primates to humans and strategies to improve disease control and elimination This book is very useful for students academicians and researchers of veterinary sciences veterinary medicine and veterinary public health

Diseases of Poultry J.R. Glisson,L.R. McDougald,L.K. Nolan,D.L. Suarez,V.L. Nair,2013-07-16 Diseases of Poultry is the most comprehensive reference for all aspects of poultry health and diseases including pathogenesis diagnostics epidemiology and control methods Published in partnership with the American Association of Avian Pathologists the Thirteenth Edition remains the international definitive reference adding newer diagnostic methods and a new chapter on the emerging importance of zoonotic infections for poultry pathogens Other updates include new high quality photographs additional discussion of conceptual operational biosecurity and disease control in organic production systems and a greater emphasis throughout on the differences in disease incidence and treatments for the United States and other areas around the globe Organized logically by disease type the book offers detailed coverage of the history etiology pathobiology diagnosis and intervention strategies as well as the economic and public health significance for an exhaustive list of common and uncommon diseases Diseases of Poultry 13th Edition is an essential purchase for poultry veterinarians veterinary diagnosticians poultry scientists students specializing in poultry health and government officials who deal with poultry health in regulatory climate

The Veterinary Laboratory and Field Manual 3rd Edition Susan C. Cork,Roy Halliwell,2019-06-03 Isolated regions of the world are often at the forefront of emerging diseases and to be effective in disease prevention and control they require basic resources for field sample

collection and testing in conditions vastly different from those available in well equipped reference laboratories Technical support for field extension staff and the availability of reliable diagnostic testing facilities are also vital to ensure sustainable livelihoods for subsistence farmers This technical handbook aims to provide an easy to follow overview of the basic laboratory techniques and sample collection guidelines that we consider useful for staff working in district veterinary facilities in regions that lack the infrastructural support available for staff with ready access to national veterinary laboratories The Veterinary Laboratory and Field Manual 3rd Edition provides the reader with a summary of basic diagnostic procedures and sample submission guidelines and also advocates for improved communication between animal health extension staff veterinarians laboratory staff and farmers Case studies are used to illustrate key concepts Basic laboratory disciplines are covered including parasitology microbiology haematology serology immunology and pathology There are also sections on laboratory infrastructure and equipment There is additional content on common clinical presentations One Health approaches to Antimicrobial resistance the role of the OIE disease surveillance and wildlife disease monitoring Supplementary tools for use in the field and laboratory are also available online This new edition of The Veterinary Laboratory and Field Manual is updated to include content on pen side tests selection and integration of new technologies engagement with international agencies and programs and the One Health approach to disease monitoring Animal Health extension staff in isolated regions of the world and NGOs can benefit from this book as well as policy makers supporting veterinary work in rural areas and veterinary para professionals involved in One Health work

5m Books One Health and Zoonoses John S. Mackenzie, Martyn Jeggo, 2019-08-19 The One Health concept recognizes that the health of humans animals and their ecosystems are interconnected and that a coordinated collaborative multidisciplinary and cross sectoral approach is necessary to fully understand and respond to potential or existing risks that originate at the animal human ecosystems interfaces Thus the One Health concept represents a holistic vision for addressing some of the complex challenges that threaten human and animal health food safety and the environments in which diseases flourish There are many examples showing how the health of humans is related to the health of animals and the environment Diseases shared between humans and animals are zoonoses Some zoonoses have been known for many years whereas others have emerged suddenly and unexpectedly Over 70% of all new emerging diseases over the past few decades have been zoonoses that have emerged from wildlife most often from bats rodents or birds Examples of zoonoses are many and varied ranging from rabies to bovine tuberculosis and from Japanese encephalitis to SARS Clearly a One Health approach is essential for understanding their ecology and for outbreak response and the development of control strategies However the One Health concept and approach is much broader than zoonoses it extends to including antimicrobial resistance food safety and environmental health and consequently impacts on global health security economic wellbeing and international trade It is this breadth of One Health that connects the papers in this Special Issue *The Microbiology, Pathogenesis and Zoonosis of Milk Borne*

Diseases Tanmoy Rana,2024-01-26 The microbiology pathogenesis and zoonosis of milk borne diseases emphasizes milk borne disease diagnosis and treatment with a strong focus on milk hygiene zoonotic diseases and the pathogenesis of microbial agents from milk origin The book also elucidates various pathogenic diseases and describes the evaluation of the severity of diseases from milk and milk products and its remedial measure after application of drugs In 22 chapters the reader is introduced to the microbiology pathogenesis and zoonosis of milk borne diseases It describes general aspects of milk borne zoonosis prevention of milk borne diseases and risk analysis assessment practice and quality management in milk hygiene This book is appropriate for undergraduate and post graduate doctoral students as well as academicians who need to evaluate the importance of zoonotic diseases and clinical manifestation triggered by various agents It is also useful in s training capacity to secondary professionals and pharma companies with applied research on zoonotic diseases from milk origin Emphasizes the importance of milk hygiene to prevent milk borne diseases Provides an overview of milk borne diseases diagnosis and treatment Identifies the various milk borne zoonotic pathogens and their impact on public health

Epidemiology and Control of Notifiable Animal Diseases Julio Álvarez,Douwe Bakker,Javier Bezos,2019-05-09 Surveillance early detection control and eradication of notifiable animal diseases is of critical importance for countries in order to maintain or improve their animal health status This requires the collaboration of all stakeholders involved including animal health authorities livestock industry and veterinary research institutions among others Prevention control and eradication programs must take into account the characteristics of the host including potential reservoirs the pathogen transmissibility virulence and the environment temperature animal density but also the socio economic context in which they have to be implemented highly influenced by funding availability while at the same time guaranteeing compliance with international trade regulations This has led to the adoption of a wide range of approaches to address the risk posed by specific pathogens in different countries and at the same time similar strategies have yielded very different results in different regions This Research Topic includes a variety of manuscripts focusing on different aspects of surveillance control and eradication of diseases of critical importance for livestock including cattle swine and wildlife in an attempt to provide an overview of the current situation in different countries

Molecular Detection of Human Parasitic Pathogens Dongyou Liu,2012-07-05 Traditionally laboratory identification of parasites has relied upon various phenotypic procedures that detect their morphological biological and immunological features Because these procedures tend to be time consuming and technically demanding molecular methods based on nucleic acid amplification technologies have been increasingly utilized

Wildlife Forensics Jane E. Huffman,John R. Wallace,2012-02-08 Wildlife Forensics Methods and Applications provides an accessible and practical approach to the key areas involved in this developing subject The book contains case studies throughout the text that take the reader from the field to the lab analysis to the court room giving a complete insight into the path of forensic evidence and demonstrating how current techniques can be applied to wildlife forensics The book contains

approaches that wildlife forensic investigators and laboratory technicians can employ in investigations and provides the direction and practical advice required by legal and police professionals seeking to gain the evidence needed to prosecute wildlife crimes The book will bring together in one text various aspects of wildlife forensics including statistics toxicology pathology entomology morphological identification and DNA analysis This book will be an invaluable reference and will provide investigators laboratory technicians and students in forensic Science conservation biology classes with practical guidance and best methods for criminal investigations applied to wildlife crime Includes practical techniques that wildlife forensic investigators and laboratory technicians can employ in investigations Includes case studies to illustrate various key methods and applications Brings together diverse areas of forensic science and demonstrates their application specifically to the field of wildlife crime Contains methodology boxes to lead readers through the processes of individual techniques Takes an applied approach to the subject to appeal to both students of the subject and practitioners in the field Includes a broad introduction to what is meant by wildlife crime how to approach a crime scene and collect evidence and includes chapters dedicated to the key techniques utilized in wildlife investigations Includes chapters on wildlife forensic pathology zooanthropological techniques biological trace evidence analysis the importance of bitemark evidence plant and wildlife forensics best practices and law enforcement

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