

Mycobacterial Diseases

Disease	Agent	Transmission	Host/s	In Australia
Human tuberculosis	<i>M. tuberculosis</i> complex	+++ Inhalation + ingestion	Human, non-human primates, localized infection in other mammals i.e. cows	Rare, usually in migrants Reportable
Bovine tuberculosis		<i>M. tuberculosis</i> variant <i>bovis</i>	Maintained in bovids, cervids, possums, pigs with spillover in people, carnivores and other mammals	No Reportable
Caprine tuberculosis		<i>M. tuberculosis</i> variant <i>caprae</i>	Goats, cattle, deer, pigs, camels, bison, people (endemic in central Europe)	No Reportable
Pinniped tuberculosis		<i>M. tuberculosis</i> variant <i>pinnipedii</i>	Seals, sea lions, elephant seals, people, other animals	Yes Reportable
Paratuberculosis (Johne's disease)	<i>M. avium</i> complex	<i>M. avium</i> ssp. <i>paratuberculosis</i>	+++ ingestion	Ruminants Yes Reportable
Feline leprosy		<i>M. leproemurium</i>	skin	Cats, rodents Yes, rare
Pig/ Environmental		<i>M. avium</i> ssp. <i>hominissuis</i>	++ oral + skin	Pigs, people Yes, rare
Avian tuberculosis		<i>M. avium</i> ssp. <i>avium</i>	+++ ingestion	Birds (wild mainly) Parrot family Yes
		<i>M. goodii</i>		
Leprosy		<i>M. leprae</i>	skin	People Yes, rare
Fish tuberculosis		<i>M. marinum</i> & others	Skin Ingestion	Fish – aquariums People (fish tank granuloma) Yes, common
Environmental		<i>Mycobacteroides abscessus</i> , <i>Mycobacterium fortuitum</i>	skin	People and animals Yes, Common

Bacteria this genus thick walls rich in mycolic acids

resistant to chemical agents

pathogenic strains survive in the environment for prolonged periods.

Acidic degradation by macrophages

thick peptidoglycan outer layer like other gram positive bacteria but rarely take up stain

Acid fast stain required

slow dividing

facultative intracellular parasite - surviving the cytoplasm

diseases usually include lymphatic system

activated macrophages can destroy bacteria

cytotoxic T cells kill infected macrophage releasing mycobacterium and making them accessible to the immune system

inhalation or ingestion - taken up by local macrophages - infected macrophages recruit other macrophages to the site of infection ensuring a predominantly granulomatous inflammation - We organise into discrete granulomas or tubercles with a central area of necrosis and mineralisation

bovine tuberculosis (*Mycobacterium tuberculosis bovis*)

Mycobacterium variant

chronic debilitating disease

lymphohaematogenous system primary lesions in the lower respiratory tract

notifiable disease – zoonotic

Bovids are the primary maintenance host - but can infect a wide range of mammals

when infection rate is high infection can become self sustaining in non cattle

Mycobacterial Diseases

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Mycobacterial Diseases:

Nontuberculous Mycobacterial Disease David E. Griffith, 2018-10-05 This book is a comprehensive and authoritative source on nontuberculous mycobacterial NTM pathogens and diseases and their appropriate management with a focus on lung disease NTM diseases especially lung diseases are increasing in prevalence in the U S and internationally with concomitant growing interest in a broad section of the medical community Often merely included in coverage of tuberculosis many aspects of NTM organisms and diseases are actually very different than TB These differences are not intuitive or trivial and frequently result in suboptimal management of NTM patients This book addresses these gaps in the literature with chapters on microbiology pathophysiology epidemiology the various diseases that can stem from NTM and their particular management There is also coverage on prevention and NTM as a public health problem For pulmonologists and infectious disease physicians this is the definitive resource on nontuberculous mycobacteria

Tuberculosis, Leprosy and Mycobacterial Diseases of Man and Animals Harshini Mukundan, Mark Chambers, Ray Waters, Michelle

Larsen, 2015-09-28 Mycobacteria are bacterial pathogens which cause diseases in humans and non human animals This monograph will primarily cover the most important and widely researched groups of mycobacteria members of the Mycobacterium tuberculosis complex MTC and Mycobacterium leprae across a wide range of host species M tuberculosis and M bovis are particularly relevant with the increasing drug resistance and co infection with HIV associated with M tuberculosis and the possible cross infection of badgers and cattle associated with M bovis This book will provide a reference for researchers working in different fields creating a work which draws together information on different pathogens and by considering the diseases in a zoonotic context provides a One Health approach to these important groups of diseases

Vaccination Against Mycobacterial Diseases in Animals John P. Bannantine, Adel M. Talaat, 2015-05-06 The two most prominent mycobacterial diseases in animals include bovine tuberculosis caused by Mycobacterium bovis and Johne s disease caused by Mycobacterium avium subspecies paratuberculosis Erradication of both diseases has been hampered by a variety of factors In many countries the persistence of tuberculosis in cattle has been attributed to reservoirs of M bovis in wildlife species Brushtail possums deer and badgers are notable examples of wildlife reservoirs for M bovis The difficulties in eliminating the wildlife reservoir for M bovis further suggest the need for vaccination of farmed livestock Vaccination of wildlife species has also been attempted with mixed results Delivery of the vaccine to wildlife species appears to be a chief obstacle Vaccination itself leads to complications for diagnostics For example when cattle are vaccinated with both BCG and a commercial Johne s vaccine there is a biased toward the avian tuberculin skin test reaction Despite these issues BCG seems to be the clear standard for vaccination against M bovis yet many laboratories are investigating ways to improve on BCG For Johne s disease the available commercial vaccines consist of whole cell preparations in one form or another But with the ability to generate directed knockouts of specific genes a number of defined mutants have been constructed in a few

laboratories These should be tested and directly compared with each other and alongside commercial vaccine formulations to determine not only which vaccine is most protective but which animal model is best for predicting protection in the target host To this end there has been a nation wide multi institutional effort to test the best live attenuated vaccine against Johnes disease in cattle sheep and goats This vaccine trial has spanned six years and was conducted in three phases The first phase examined attenuation in bovine macrophages the second phase was colonization of spleen and liver in mice and the third phase was protection from bacterial challenge in goats Many new ideas and retrospective approaches have emerged from this unprecedented effort These aspects will be captured in this Research Topic In this Research Topic we will seek articles on these above topics but other issues surrounding vaccination of animals against mycobacteria will also be explored These include immune parameters correlates of protection adjuvants and other vaccine formulations etc

Recent Advancements in mycobacterial diseases research Vishwanath Venketaraman, Jotam G. Pasipanodya, Matt Johansen, Selvakumar Subbian, 2024-10-25

[Surgery for Pulmonary Mycobacterial Disease, An Issue of Thoracic Surgery Clinics](#) John D. Mitchell, 2018-11-21 This issue of Thoracic Surgery Clinics of North America guest edited by Dr John Mitchell is devoted to Surgery for Pulmonary Mycobacterial Disease Dr Mitchell has assembled expert authors to review the following topics

Surgical treatment of pulmonary nontuberculous mycobacterial disease Minimally invasive approaches in the management of mycobacterial diseases Medical management of pulmonary nontuberculous mycobacterial disease Epidemiology the WHO and the global fight against M tuberculosis A primer History of pulmonary mycobacterial disease Nontuberculous mycobacteria Epidemiology and the impact on pulmonary and cardiac disease Modern collapse therapy for pulmonary tuberculosis Surgical resection in the treatment of pulmonary tuberculosis Treatment of complications of pulmonary tuberculosis Current medical management of pulmonary tuberculosis and more

Tuberculosis, Leprosy and Mycobacterial Diseases of Man and Animals H. Mukundan, 2015

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Emerging Infectious Diseases, 2015-07

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web sep 18 2019 adsl bandwidth allocation how adsl work adsl is a form of digital subscriber line that enhances the data carrying capacity of the twisted pair copper phone lines that join most homes and offices with their local telco s switching facilities adsl is asymmetric meaning the upstream and downstream transmission rates are not equal

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web the adsl which in english stands for asymmetric digital subscriber line refers to the technology that uses conventional telephone lines to create an internet connection in this sense the asymmetry that characterizes this type of technology is related to the difference in speed that occurs between the reception and transmission of data

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web sep 11 2020 adsl transmits digital data over those same lines at high speed letting you do everything from sending emails to watching youtube videos adsl was originally patented in 1988 due to prohibitive deployment costs it would be many years before the technology caught on

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