



# Rinderpest and Peste des Petits Ruminants

Virus Plagues of Large and Small Ruminants

BIOLOGY OF  
ANIMAL  
INFECTIONS



EDITED BY  
Tom Barrett, Paul-Pierre Pastoret  
and William Taylor

# Rinderpest And Peste Des Petits Ruminants Virus Plagues Of Large And Small Ruminants

**Muhammad Munir**



## **Rinderpest And Peste Des Petits Ruminants Virus Plagues Of Large And Small Ruminants:**

**Rinderpest and Peste des Petits Ruminants** William P. Taylor, 2005-11-15 Rinderpest and Peste des Petits Ruminants tells the story of how by the year 2010 scientists are set to globally eradicate one of the great historic plagues that has ravaged human livestock for centuries. Descriptions of the disease in Europe date back to the 4th century and it was regularly re-introduced following wars and other civil unrest until late in the 19th century. It was introduced with devastating effect into Africa towards the end of the 19th century and is now widespread across sub-Saharan Africa, the Middle East and Southern Asia. Its causative agent, rinderpest virus, a morbillivirus very closely related to human measles virus, decimates the cattle population along with those of other susceptible domestic ruminants and many wildlife species wherever it is present. The history of Rinderpest, including the history of vaccines and vaccination. Details of other Morbilliviruses. Epidemiology and transmission of Rinderpest.

**Manual of Security Sensitive Microbes and Toxins** Dongyou Liu, 2014-04-08 Security sensitive microbes: viruses, bacteria, fungi, and parasites, and toxins, which are often referred to as the select agents and toxins, have the capacity to cause serious illness and death in humans, animals, and plants. This book is an authoritative and comprehensive review of security sensitive microbes: viruses, bacteria, fungi, and parasites, and toxins, with an emphasis on the state of the art in the field. Written by experts in the field, the chapters present authoritative reviews, each one covering a single microbe or toxin with respect to its classification, biology, epidemiology, pathogenesis, identification, diagnosis, treatment, and prevention. The chapters also discuss the limitations of our current knowledge and challenges relating to improved detection and control of the microbe or toxin.

**Wildlife Disease and Health in Conservation** David A. Jessup, Robin W. Radcliffe, 2023-09-15 This title explores the origins, impacts, and responses to diseases that are particularly damaging, persistent, and/or are currently threatening wildlife conservation.

**Mononegaviruses of Veterinary Importance, Volume 1** Muhammad Munir, 2013-11-28 Mononegavirales are an order of viruses affecting large, small, and marine animals. Discussing the pathology and laboratory diagnosis of important viruses, this book covers those that cause a significant threat to animals in terms of their severity and epidemiological risk, as well as those which are used as models in the study of infectious disease. Also including viruses with zoonotic potential, this book reviews the literature for rinderpest, rabies, and Ebola.

**Millions Fed** David J. Spielman, Rajul Pandya-Lorch, 2009 Humanity has made enormous progress in the past 50 years toward eliminating hunger and malnutrition. Some five billion people, more than 80 percent of the world's population, have enough food to live healthy, productive lives. Agricultural development has contributed significantly to these gains while also fostering economic growth and poverty reduction in some of the world's poorest countries.

**Desk Encyclopedia Animal and Bacterial Virology** Brian W.J. Mahy, Marc H.V. van Regenmortel, 2010-04-06 This volume contains 81 chapters that relate to veterinary and bacterial virology. The first section describes general features of farm and other animals of agricultural importance. The following three sections detail other animal viruses, avian viruses, and viruses affecting aquatic

species such as fish and crustaceans The Section five deals with viruses which infect bacteria The most comprehensive single volume source providing an overview of virology issues related to animal and bacteria Bridges the gap between basic undergraduate texts and specialized reviews Concise and general overviews of important topics within the field will help in preparation of lectures writing reports or drafting grant applications

**Manual of Diagnostic Tests and Vaccines for Terrestrial Animals**, 2008 **Journal of the American Veterinary Medical Association** American Veterinary Medical Association, 2011

**Open Spaces and Closed Minds** Gary Marquardt, 2007 *American Journal of Veterinary Research*, 2011 Vols for 1956 include selected papers from the proceedings of the American Veterinary Medical Association

*Joyce in the Belly of the Big Truck; Workbook* Joyce A. Cascio, 2005-05

**Encyclopedia of Virology** Brian W. J. Mahy, M. H. V. Van Regenmortel, 2008 Covers biological molecular and medical topics concerning viruses in animals plants bacteria and insects this new ed has been extensively revised and updated to reflect the 50 % increase in identified and accepted viruses since 2000 Includes information on avian flu SARS and West Nile and the ability of some viruses to be used as agents of bioterrorism

The British National Bibliography Arthur James Wells, 2006 Encyclopedia of Virology Robert G. Webster, Allan Granoff, 1994 The Encyclopedia of Virology covers biological molecular and medical topics concerning viruses in animals plants bacteria and insects More general articles focus on the effects of viruses on the immune system the role of viruses in disease oncology gene therapy and evolution plus a wide range of related topics

**Peste des Petits Ruminants Virus** Muhammad Munir, 2014-12-02 This book offers a timely and comprehensive review of essential research on Peste des Petits Ruminants Virus PPRV ranging from its historical distribution molecular epidemiology genome structure viral proteins immunity viral pathogenesis clinical and molecular diagnosis to advances in vaccine developments and future challenges PPRV a Rinderpest like virus is the causative agent of one of the most rapidly emerging viral diseases among domestic small ruminants and the host spectrum has now been expanded to wild small ruminants and camels With the global eradication of the first livestock disease Rinderpest attention is now turning to repeating the procedure for PPR Each of the book's 13 chapters is dedicated to a specific topic providing up to date literature and discussions by renowned scientists who have made seminal contributions in their respective fields of expertise Special emphasis has been placed on the analysis of different global efforts to eradicate PPR This book offers a valuable reference source for virologists field veterinarians infection and molecular biologists immunologists scientists in related fields and veterinary school libraries

Encyclopedia of Virology: Part-Z Robert G. Webster, Allan Granoff, 1994

**Bibliographie sur l'élevage des ruminants domestiques en Afrique au sud du Sahara** Odon Deramée, 1969

**Enquêtes bibliographiques** Centre de documentation économique et sociale africaine (Belgium), 1973

*Recognizing Peste Des Petits Ruminants* Food and Agriculture Organization of the United Nations, 1999 Peste des petits ruminants also known as goat plague is a highly contagious and viral disease of small ruminants which is prevalent in Africa and Asia

**Transmission Dynamics of the Multi-Host Pathogen Peste Des**

**Petits Ruminants Virus Among Sheep, Goats, and Cattle in Northern Tanzania** Catherine Herzog, 2020

Disentangling cross species transmission from spillover transmission in multi host systems is one of disease ecology's big challenges. Furthermore, resolving the ecological mechanisms driving transmission and developing a multi-dimensional understanding of how host age and mixing shape these dynamical patterns is another challenge. This dissertation addresses these big questions by studying the multi-host pathogen Peste des petits ruminants virus (PPRV) among sheep, goats, and cattle in northern Tanzania. PPRV is a Morbillivirus and causes the disease sheep and goat plague. The virus is in the same genus as human measles virus and the now eradicated rinderpest virus (cattle plague). PPRV causes a contagious disease of high morbidity and mortality in sheep and goats and can elicit seroconversion in cattle. Although PPR is an animal disease, PPR has greatly impacted human livelihoods globally. According to the Food and Agricultural Organization of the United Nations, over 330 million individuals rely on sheep and goats for meat, milk, and income. Massive household herd losses due to PPRV epidemics drive global poverty and food insecurity and cause an estimated 2 billion USD in global annual losses. PPRV is present in Africa, the Middle East, and Asia, and it continues to spread. Collectively, PPRV now impacts 80% of the world's sheep and goat population. Given the socio-economic importance of PPRV, it is critical to resolve the ecological mechanisms driving PPRV transmission to improve prevention strategies and better inform upcoming eradication campaigns. In this dissertation, I used approximately 7,500 sheep, goat, and cattle samples from 20 villages in northern Tanzania to:

1. describe the distribution of PPRV seroprevalence and the force of infection and identify significant risk factors and ecological mechanisms affecting these distributions;
2. explore the complexity of mixing and its impact on transmission dynamics due to heterogeneities in age and husbandry practices; and
3. develop a multi-host compartmental transmission model of PPRV to explore the impact of cross-species transmission on the estimated reproductive number  $R_0$  and the impact of herd size across varying production systems on transmission dynamics.

Additionally, I used a simulation study to expand a previously developed method to adjust estimates for infection-associated mortality and apply this method to my dataset.

**Appendix A: First** I estimated the force of infection (FOI), per capita infection rate of susceptible hosts, and reproductive number using generalized linear mixed models within a catalytic framework. I found that PPRV seroconversion is widespread among sheep, goats, and cattle in northern Tanzania. Seroprevalence increased across age groups and varied significantly by sex, species, and management system. Reproductive number estimates were all above the threshold for invasion. I found that spatial heterogeneity in risk among pairs of species across villages was significantly positively correlated, suggesting either cross-species transmission or common external risk factors affecting all species. The non-negligible seroconversion that I described in cattle may represent spillover or cattle-to-cattle transmission, suggesting further investigations are needed to understand the role of cattle in PPRV transmission. I used this finding to successfully apply for funding for an experimental transmission trial among sheep, goats, and cattle funded by the Gates Foundation. The application can be found in Appendix E.

**Second** I explored heterogeneities in

transmission by age to determine if control efforts and eradication strategies should be targeted by age group I demonstrated that apparent PPRV seroprevalence increased with age reaching 53.6%, 46.8% and 11.6% true seroprevalence 52.7%, 52.8%, 39.2% for sheep, goats and cattle respectively. Seroprevalence was significantly higher among pastoral animals than agropastoral animals across all ages with pastoral sheep and goat seroprevalence approaching 70% and 80% respectively suggesting PPRV endemicity in pastoral areas. Furthermore, after adjusting age seroprevalence curves for the sensitivity and specificity of the diagnostic test used, my collaborators and I found that the sensitivity was much lower in cattle, resulting in true seroprevalence estimates that were nearly double that of apparent seroprevalence. This finding opens an avenue for future improvements in diagnostic test development in atypical host species. Using a piecewise catalytic model to estimate the age-specific FOI among sheep, goats and cattle, I found that the best fitting piecewise catalytic models merged age groups two for sheep, three for goats and four for cattle. The signal of these age heterogeneities were weak except for a significant FOI peak among 2.5-3.5 year old pastoral cattle. The subtle age-specific heterogeneities identified in this study suggest that targeting control efforts by age may not be as effective as targeting by other risk factors such as production system type. Using SEEDZ household survey, I explored heterogeneities in production system husbandry practices on PPRV transmission. Although self-reported compound level herd size was significantly larger in pastoral than agropastoral households, the data show no evidence that household herd FOI increased with herd size. Seroprevalence and FOI patterns observed at the sub-village level showed significant areas of increased or decreased FOI. Household herd FOI was significantly higher when households reported seasonal grazing camp attendance, cattle or goat introduction to the compound, death sale or giving away of animals in the past 12 months, when cattle were grazed separately from sheep and goats, and when the household also managed dogs or donkeys. These results suggest that further research is needed to better understand how contact rate and transmission patterns scale above the compound level. Additionally, more work is needed to determine if transmission risk can be reduced at seasonal grazing camps without restricting attendance and to standardized best practices for animal introductions to reduce PPRV transmission across settings with a range of veterinary services and vaccination access. Next, I developed and parameterized a multi-host model of PPRV transmission among sheep, goats and cattle to answer the questions i) how is circulation and maintenance affected by cross-species transmission and ii) what dynamical patterns do we expect to see in this three-species system in the short and long term. I find that herd species composition and herd size have an important impact on the reproductive number  $R_0$  and dynamics respectively of PPRV. The main hosts, sheep and goats, are required to sustain multi-species system for biologically plausible parameter values but become optional if cattle are assumed to transmit at least 40% as much as the sheep and goats. I also find that over longer time horizons, damped oscillations of recurrent epidemics appear first at 2.5-3 years and then every 1.5 years until they fade out. Furthermore, in the long term, the count of recovered hosts plateaued at roughly double that of susceptible hosts. These

findings align with previously published inter epidemic periods and PPRV age seroprevalence curves I close by outlining next step steps for applying this model to questions of multi species control for PPRV eradication decision support Finally I concluded by synthesizing the findings of Chapters 2 5 discussing how these findings will contribute to improved control efforts in the field and global development and highlighting the remaining gaps in our knowledge of PPRV transmission that must be addressed by future research This dissertation advances our understanding of the ecological mechanisms that drive PPRV transmission describes how heterogeneities by age and management impact dynamics suggests that cattle may play a more important role in PPRV transmission than previously realized and provides a theoretical model for PPRV dynamics in a multi host system among sheep goats and cattle that can be used to inform future empirical studies

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