

ORIGINAL RESEARCH

The Rabies Epidemic in Trinidad of 1923 to 1937: An Evaluation with a Geographic Information System

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From the University of the West Indies, St. Augustine, Trinidad and Tobago.

Background.—Rabies, although not prominent among current infectious diseases, continues to afflict humans with as many as 55,000 deaths annually. The case fatality rate remains the highest among infectious diseases, and medical treatments have proven ineffective.

Objectives.—This study analyzes the rabies epidemic of 1923 to 1937 in Trinidad from a geographic perspective, using Geographic Information Systems (GIS) software as an analytical tool.

Setting.—A small island developing country at a time when infectious diseases were rampant.

Methods.—A review of the literature was undertaken, and data were collated on the occurrence of disease in both animal and human populations and mapped using GIS software. Several factors identified in the literature were further explored such as land use/land cover, rainfall and magnetic declination.

Results.—The first rabies epidemic of 1923 to 1937 in Trinidad was migratory and seasonal, shifting to new locations along a definite path. The pattern of spread appears to be spatially linked to land use/land cover. The epidemic continues to present many unexplained peculiarities.

Conclusions.—Despite the fact that this epidemic occurred almost 7 decades ago, the application of new tools available for public health use can create new knowledge and understanding of events. We observed that the spatial distribution of the disease followed a distinct pathway possibly due to the use of electroconvulsive capabilities of bats.

Key words: rabies, GIS, epidemics.

Introduction

High mortality rates have been associated with epizootics. Rabies, one of the oldest recognized zoonotic diseases, is caused by ribonucleic acid (RNA) viruses in the family *Rhabdoviridae* genus *Lyssavirus*, transmitted through the bite of an infected mammal in which the virus is present in the saliva.^{1–4} However, this is not the only mode of transmission, as rabies can be acquired with infected aerosolized tissue in caves inhabited by rabid bats and in laboratory accidents.^{5–7} Transmission is also possible by handling and skinning of infected carcasses.^{8,9} Human-to-human transmission other than by corneal transplantation has not been well documented,^{10,11} although, in 2004, rabies was identified as the cause of death among 4 patients who were recipients

of organs and a vascular graft.¹² A potential risk also exists from contact with infected body fluids.¹³ The only epidemic of rabies to have occurred on the island of Trinidad was in 1923 to 1937. In that epidemic, bats, for the first time, were identified as the mode of transmission. Bats are a major reservoir for variants of rabies viruses and transmit the disease through biting, which can sometimes go unrecognized.^{14,15–18} Support for the effectiveness of this mode of transmission is derived from laboratory data with silver-haired bats (*Lasiurus cinereus* neotomae) and eastern pipistrelles (*Pipistrellus hesperus*) that demonstrated a higher likelihood of infection after superficial inoculation into cuts of epidermal origin.¹⁹ Infection is primarily of the central nervous system (CNS), leading to an acute progressive encephalomyelitis in which most cases are fatal.

The annual number of deaths worldwide caused by rabies is estimated to be 55,000, mostly in rural areas of Africa and Asia, while the annual estimated cost of rabies is \$583.5 million (USD).²⁰ Although mortality

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History Of Rabies University Of The West Indies

John Clark Ridpath



History Of Rabies University Of The West Indies:

History of Rabies in the Americas: From the Pre-Columbian to the Present, Volume II Charles E. Rupprecht, 2024-06-28

Rabies is one of the oldest known pathogens is incurable and has the highest fatality rate of all infectious diseases The Americas is the only region with bat rabies virus including vampire bat rabies The region is rich in cultural references and notable for many discoveries in the field including the current vaccine potency test diagnostic assay conception of oral vaccines for wildlife the first human survivor and the first successful canine rabies program executed at a broad level Rabies remains the most important viral zoonosis with tens of thousands of human fatalities and tens of millions of exposures annually which can be used to model for other pathogens such as COVID 19 There is an international effort to eliminate human rabies caused by dogs over the next decade and the Americas represent the primary region with the greatest proof of concept evidence to accomplish this goal This two volume set addresses the medical history and modern results of rabies in countries throughout the Americas including the implications of and on cultural economic sociological and research developments in the region Volume II provides an in depth analysis of the rabies presence and impact in specific countries including historical perspectives advances in research and understanding and current status

Natural History of Vampire Bats Arthur M. Greenhall, 2018-05-04 A major problem with vampire bats is that whatever information exists is scattered throughout the literature or is not recorded There are some excellent books on the ecology and biology of bats with very little on vampire bats This volume fills that gap to provide an in depth presentation of these unique animals

Rabies Symptoms, Diagnosis, Prophylaxis and Treatment Charles Rupprecht, 2018-02-21 This book is a printed edition of the Special Issue Rabies Symptoms Diagnosis Prophylaxis and Treatment that was published in TropicalMed

Biogeography of the West Indies Charles A. Woods, Florence E. Sergile, 2001-06-27 As a review of the status of biogeography in the West Indies in the 1980s the first edition of Biogeography of the West Indies Past Present and Future provided a synthesis of our current knowledge of the systematics and distribution of major plant and animal groups in the Caribbean basin The totally new and revised Second Edition Biogeography

The Tropical Metabolism Research Unit, the University of the West Indies, Jamaica, 1956-2006 Terrence Forrester, David Picou, Susan P. Walker, 2007

Technical Bulletin, 1997

The Perfection of Nature

Mackenzie Cooley, 2022-10-26 A deep history of how Renaissance Italy and the Spanish empire were shaped by a lingering fascination with breeding The Renaissance is celebrated for the belief that individuals could fashion themselves to greatness but there is a dark undercurrent to this f ted era of history The same men and women who offered profound advancements in European understanding of the human condition and laid the foundations of the Scientific Revolution were also obsessed with controlling that condition and the wider natural world Tracing early modern artisanal practice Mackenzie Cooley shows how the idea of race and theories of inheritance developed through animal breeding in the shadow of the Spanish Empire While one strand of the Renaissance celebrated a liberal view of human potential another limited it by biology reducing man to

beast and prince to stud Race Cooley explains first referred to animal stock honed through breeding To those who invented the concept race was not inflexible but the fragile result of reproductive work As the Spanish empire expanded the concept of race moved from nonhuman to human animals Cooley reveals how as the dangerous idea of controlled reproduction was brought to life again and again a rich complex and ever shifting language of race and breeding was born Adding nuance and historical context to discussions of race and human and animal relations The Perfection of Nature provides a close reading of undertheorized notions of generation and its discontents in the more than human world Personalities Caribbean,1971

Current Catalog National Library of Medicine (U.S.),1993 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.),1971 **Biological Control in Latin America and the Caribbean** Joop C. van Lenteren,Vanda H.P. Bueno,Maria Gabriela Luna,Yelitza Colmenarez,2019-12-21 The book summarizes the history of biological control in Latin America and the Caribbean Few publications provide historical detail and the records are therefore fragmented until now By bringing information together in this book we offer a more complete picture of important developments in biological control on this continent There are a wealth of text tables and references about the history of such projects and which were succesful and which failed This will help plan future biocontrol projects An overview is provided of the current situation in biological control for many Latin American and Caribbean countries revealing an astonishing level of practical biological control applied in the regio making it the largest area under biological control worldwide The final part describes new developments and speculates about the future of biological control in Latin America and the Caribbean Healing the Herds Karen Brown,Daniel Gilfoyle,2010-03-09 Healing the Herds Disease Livestock Economies and the Globalization of Veterinary Medicine offers a new and exciting comparative approach to the complex interrelationships of microbes markets and medicine in the global economy It draws upon fourteen case studies from the Americas western Europe and the European and Japanese colonies to illustrate how the rapid growth of the international trade in animals through the nineteenth century engendered the spread of infectious diseases sometimes with devastating consequences for indigenous pastoral societies At different times and across much of the globe livestock epidemics have challenged social order and provoked state interventions which were sometimes opposed by pastoralists The intensification of agriculture has transformed environments with consequences for animal and human health But the last two centuries have also witnessed major changes in the way societies have conceptualized diseases and sought to control them The rise of germ theories and the discovery of vaccines against some infections made it possible to move beyond the blunt tools of animal culls and restrictive quarantines of the past Nevertheless these older methods have remained important to strategies of control and prevention as demonstrated during the recent outbreak of foot and mouth disease in Britain in 2001 From the late nineteenth century advances in veterinary technologies afforded veterinary scientists a new professional status and allowed them to wield greater political influence In the European and Japanese colonies state support for biomedical veterinary science often

led to coercive policies for managing the livestock economies of the colonized peoples In western Europe and North America public responses to veterinary interventions were often unenthusiastic and reflected a latent distrust of outside interference and state regulation Politics economics and science inform these essays on the history of animal diseases and the expansion in veterinary medicine *Bibliography of the History of Medicine* ,1993 **Street's Pandex of the News and Cumulative Index to Current History** ,1909 **Vampire Forensics** Mark Jenkins,2010 Take a journey into the macabre in search of those ultimate creatures of the night the immortal beings who defy death by feeding on the lifeblood of others vampires Generation after generation has found vampire lore printed in old books inscribed in medieval manuscripts whispered by firelight in chimney corners or written in moldering tombs and ancient bones to be as fascinating as it is frightening Yet its origins have always been shrouded in mystery Where did vampires first arise Was Dracula really inspired by a 15th century nobleman with the bloodcurdling name of Vlad the Impaler Why are vampires so closely associated with epidemic disease and bats What can we learn from the amazing recent discovery by National Geographic grantee Dr Matteo Borrini of the buried remains of a 16th century Venetian plague victim and suspected vampire And what is it about graveyards that made people believe that the dead could prey on the living In Vampire Forensics historian Mark Jenkins probes vampire legend and shows how modern forensics anthropology and archaeology have helped to dig up historical truths enshrined in these gruesome tales Book Jacket **Ecology and Management of Terrestrial Vertebrate Invasive Species in the United States** William C. Pitt,James Beasley,Gary W. Witmer,2017-10-25 Vertebrate invasive species are important ecologically socially and scientifically throughout much of the globe However the interdiction and options for management of invasive species are driven by localized regulation at the country or even state level and thus the management of species must be framed within that context This book is focused around the management of invasive vertebrate species in the United States although readers will find much of the material broadly applicable to invasive species in other regions Vertebrate invasive species cause damage to agriculture property natural resources and threaten human health and safety However most of these species occur in the United States resulting from human mediated activities often being released intentionally For the first time the wealth of scientific information about vertebrate invasive species in the United States is summarized and synthesized in a single volume to be easily accessible to ecologists and natural resource managers With a focus on prominent terrestrial invasive species that have a history of policy and management and highlighting contemporary issues and management this book consists of 18 chapters written by experts from across the United States The first section of the book focuses on overarching policy and management topics associated with vertebrate invasive species including biosecurity threats and risk assessment policy and regulation and the economics of their management The second section provides in depth reviews of noteworthy invasive mammals birds amphibians and reptiles After finishing this book the reader should understand the complexity of managing invasive species the unique challenges

that each new species may present and the steps forward that may decrease the impact of these species on the environment human health and the economy *Medical Repository of Original Essays and Intelligence Relative to Physic, Surgery, Chemistry, and Natural History* ,1805 *Leeuwenhoek's Legatees and Beijerinck's Beneficiaries* Gerard Doornum,Ton Helvoort,Neeraja Sankaran,2025-10-01 Leeuwenhoek s Legatees and Beijerinck s Beneficiaries A History of Medical Virology in The Netherlands offers a tour of the history of Dutch medical virology Beginning with the discovery of the first virus by Martinus Beijerinck in 1898 the authors investigate the reception and redefinition of his concept in medical circles and its implications for medical practice The relatively slow progress of these areas in the first half of the twentieth century and their explosive growth in the wake of molecular techniques are examined The surveillance and control of virus diseases in the field of public health is treated in depth as are tumour virus research and the important Dutch contributions to technical developments instrumental in advancing virology worldwide Particular attention is paid to oft forgotten virus research in the former Dutch colonies in the East and West Indies and Africa *Veterinary Epidemiology* Michael Thrusfield,2013-10-22 Veterinary Epidemiology is an introductory text to the general concepts and fundamental principles of veterinary epidemiology This book is composed of 20 chapters that consider the vital role of statistics in the field The introductory chapters review the historical development of veterinary medicine some general epidemiological concepts and disease occurrence The subsequent chapters deal with the transmission of infection and the ecology patterns and nature of veterinary diseases These topics are followed by discussions of the importance of basic statistics and computer knowledge in the recording and analysis of epidemiological data Other chapters consider the assays and modeling of serological epidemiology The final chapters look into the economics and control of epidemiological diseases This book will prove useful to veterinarians and undergraduate and graduate veterinary students **The Wellcome Trust Illustrated History of Tropical Diseases** Wellcome Trust (London, England),1996

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