

Hybrid Models of Tropical Infections

Ingemar Nisell



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Hybrid Models Of Tropical Infections:

Hybrid Models of Tropical Infections Ingemar Nasell, 2013-11-11 These notes are an extended version of lectures given in the Symposium on Mathematics and Development arranged by the School of Mathematical Sciences of the University of Khartoum Sudan in 1982 The purpose of the notes is to discuss some models for the transmission of tropical infections This area of mathematical epidemiology has previously received only minor attention by mathematicians but is now growing in importance The term hybrid model is used to denote a model with both stochastic and deterministic ingredients We describe how a hybrid model approach can be used to formulate and study both some classical models for malaria and schistosomiasis and some extensions of these models The formulation of the models requires some familiarity with Markov chains in continuous time and discrete state space The analysis of the models uses concepts and methods in the qualitative theory of ordinary differential equations The presentation is aimed at the senior undergraduate or beginning graduate level

Hybrid Models of Tropical Infections Ingemar N  sell, 1985 **Hybrid Models of Tropical Infections** Ingemar Nasell, 2014-09-01 **Mathematical Models for Neglected Tropical Diseases: Essential Tools for Control and Elimination, Part B**, 2016-10-16 Mathematic Modelling Improving the Implementation Monitoring and Evaluation of Interventions Part B the latest volume in the Advances in Parasitology series contains comprehensive and up to date reviews in the field of mathematic modeling and its implementation within parasitology The series includes medical studies of parasites of major influence such as Plasmodium falciparum and trypanosomes along with reviews of more traditional areas such as zoology taxonomy and life history all of which shape current thinking and applications Informs and updates on all the latest developments in mathematic modeling Contains contributions from leading authorities and industry experts Latest installment in the Advances in Parasitology series **Mathematical Approaches for Emerging and Reemerging Infectious Diseases: Models, Methods, and Theory** Carlos Castillo-Chavez, Sally Blower, Pauline van den Driessche, Denise Kirschner, Abdul-Aziz Yakubu, 2012-12-06 This IMA Volume in Mathematics and its Applications MATHEMATICAL APPROACHES FOR EMERGING AND REEMERGING INFECTIOUS DISEASES MODELS AND THEORY METHODS is based on the proceedings of a successful one week workshop The proceedings of the two day tutorial which preceded the workshop Introduction to Epidemiology and Immunology appears as IMA Volume 125 Mathematical Approaches for Emerging and Reemerging Infectious Diseases An Introduction The tutorial and the workshop are integral parts of the September 1998 to June 1999 IMA program on MATHEMATICS IN BIOLOGY I would like to thank Carlos Castillo Chavez Director of the Mathematical and Theoretical Biology Institute and a member of the Departments of Biometrics Statistics and Theoretical and Applied Mechanics Cornell University Sally M Blower Biomathematics UCLA School of Medicine Pauline van den Driessche Mathematics and Statistics University of Victoria and Denise Kirschner Microbiology and Immunology University of Michigan Medical School for their superb roles as organizers of the meetings and editors of

the proceedings Carlos Castillo Chavez especially made a major contribution by spearheading the editing process I am also grateful to Kenneth L Cooke Mathematics Pomona College for being one of the workshop organizers and to Abdul Aziz Yakubu Mathematics Howard University for serving as co editor of the proceedings I thank Simon A Levin Ecology and Evolutionary Biology Princeton University for providing an introduction *Epidemic Models* Denis Mollison, 1995-07-13 Surveys the state of epidemic modelling resulting from the NATO Advanced Workshop at the Newton Institute in 1993

Mathematical Tools for Understanding Infectious Disease Dynamics Odo Diekmann, Hans Heesterbeek, Tom Britton, 2013 This book explains how to translate biological assumptions into mathematics to construct useful and consistent models and how to use the biological interpretation and mathematical reasoning to analyze these models It shows how to relate models to data through statistical inference and how to gain important insights into infectious disease dynamics by translating mathematical results back to biology

Mathematical Understanding of Infectious Disease Dynamics Stefan Ma, 2009 The Institute for Mathematical Sciences at the National University of Singapore hosted a research program on Mathematical Modeling of Infectious Diseases Dynamics and Control from 15 August to 9 October 2005 As part of the program tutorials for graduate students and junior researchers were given by leading experts in the field Mathematical Structures of Epidemic Systems Vincenzo Capasso, 2008-07-22 The dynamics of infectious diseases represents one of the oldest and richest areas of mathematical biology From the classical work of Hamer 1906 and Ross 1911 to the state of more modern developments associated with Anderson and May Dietz Hethcote Castillo Chavez and others the subject has grown dramatically both in volume and in importance Given the pace of development the subject has become more and more diverse and the need to provide a framework for organizing the diversity of mathematical approaches has become clear Enzo Capasso who has been a major contributor to the mathematical theory has done that in the present volume providing a system for organizing and analyzing a wide range of models depending on the structure of the interaction matrix The first class the quasi monotone or positive feedback systems can be analyzed effectively through the use of comparison theorems that is the theory of order preserving dynamical systems the second the skew symmetrizable systems rely on Lyapunov methods Capasso develops the general mathematical theory and considers a broad range of examples that can be treated within one or the other framework In so doing he has provided the first steps towards the unification of the subject and made an invaluable contribution to the Lecture Notes in Biomathematics Simon A Levin Princeton January 1993 Author's Preface to Second Printing In the Preface to the First Printing of this volume I wrote *Infectious Diseases and Our Planet* Miranda I. Teboh-Ewungkem, Gideon Akumah Ngwa, 2021-01-15 This book features recent research in mathematical modeling of indirectly and directly transmitted infectious diseases in humans animals and plants It compiles nine not previously published studies that illustrate the dynamic spread of infectious diseases offering a broad range of models to enrich understanding It demonstrates the capability of mathematical modeling to capture disease spread and interaction dynamics as well as the

complicating factors of various evolutionary processes In addition it presents applications to real world disease control by commenting on key parameters and dominant pathways related to transmission While aimed at early graduate level students the book can also provide insights to established researchers in that it presents a survey of current topics and methodologies in a constantly evolving field

Ascaris Celia Holland, 2013-05-09 This book tackles a number of different perspectives concerning the parasitic helminth *Ascaris* both in animals and in humans and the disease known as ascariasis It seeks to identify interesting exciting and novel aspects which will interest readers from a broad range of disciplines Over a quarter of the world's population are infected with the human roundworm and the equivalent in pigs is equally ubiquitous Both contribute to insidious and chronic nutritional morbidity and this has been quantified in humans as disability adjusted life years approximating 10.5 million *Ascaris* larvae develop in host parenteral tissues and the resultant pathology has been condemnation Ascariasis despite its staggering global prevalence and the sheer numbers of people it infects remains a classic neglected disease However renewed interest in the consequences of early infection with worms from the perspective of immune modulation co infections and the development of allergy further enhances the relevance of these parasites Brings together a wide range of topics and approaches and recent comprehensive and progressive research concerning the neglected parasite *Ascaris* Provides a blueprint of how a single parasite entity can stimulate interest in basic biology clinical science veterinary science public health and epidemiology Presents a wealth of new insights given that a book on this parasite has not been published for over 20 years 16 chapters from a range of top authors from around the world

Mathematical Epidemiology of Infectious Diseases O. Diekmann, J. A. P. Heesterbeek, 2000-04-07 Mathematical Epidemiology of Infectious Diseases Model Building Analysis and Interpretation O Diekmann University of Utrecht The Netherlands J A P Heesterbeek Centre for Biometry Wageningen The Netherlands The mathematical modelling of epidemics in populations is a vast and important area of study It is about translating biological assumptions into mathematics about mathematical analysis aided by interpretation and about obtaining insight into epidemic phenomena when translating mathematical results back into population biology Model assumptions are formulated in terms of usually stochastic behaviour of individuals and then the resulting phenomena at the population level are unravelled Conceptual clarity is attained assumptions are stated clearly hidden working hypotheses are attained and mechanistic links between different observables are exposed Features Model construction analysis and interpretation receive detailed attention Uniquely covers both deterministic and stochastic viewpoints Examples of applications given throughout Extensive coverage of the latest research into the mathematical modelling of epidemics of infectious diseases Provides a solid foundation of modelling skills The reader will learn to translate model analyse and interpret with the help of the numerous exercises In literally working through this text the reader acquires modelling skills that are also valuable outside of epidemiology certainly within population dynamics but even beyond that In addition the reader receives training in mathematical argumentation The text is aimed at applied

mathematicians with an interest in population biology and epidemiology at theoretical biologists and epidemiologists Previous exposure to epidemic concepts is not required as all background information is given The book is primarily aimed at self study and ideally suited for small discussion groups or for use as a course text **Modelling Parasite Transmission and Control** Edwin Michael, Robert C. Spear, 2010-12-31 It is clear that many fascinating problems still remain to be addressed in parasite transmission modelling from better understanding of transmission processes and natural history of infection to investigating the impact of ecological and spatial scales climate change host immunity and social behaviour parasite host evolutionary dynamics and parasite community ecology on parasite transmission This book captures some of the advances made in recent years and provides indications of ways forward for addressing these questions by shedding light on developments in conceptual frameworks and modelling tools as well as the emergence of new data forms for aiding model construction testing and analysis Another important advance has been the parallel development of robust computationally intensive statistical methods to allow model testing and parameterization by aiding the fitting of models to complex data This is an exciting area of work which we believe will broaden the scope of mathematical modelling in investigating parasite transmission processes In particular we expect this advance will now allow modellers to begin the successful development and analysis of mechanistically rich models of parasite transmission that will facilitate better integration of the variety of mechanisms increasingly recognized as important in simultaneously affecting transmission including abiotic processes trophic and evolutionary interactions movement in space and behaviour and even physiology of the individual We foresee a continuing bright future for using mathematical modelling to clarify parasite transmission dynamics and address problems related to effective parasite control Ultimately through this improved application of models to research and management we expect that parasite control would be an achievable goal bringing benefits to a vast number of our fellow human beings

Tropical Diseases Bulletin , 1992 Technological Innovations for Managing Tropical Diseases Matthew Chidozie Ogwu, Sylvester Chibueze Izah, 2025-02-19 Tropical diseases continue to impose a significant burden on global health particularly in low and middle income regions These diseases challenge healthcare systems exacerbate economic disparities and threaten global public health In this rapidly evolving landscape integrating advanced technologies offers unprecedented opportunities to transform the prevention diagnosis monitoring and treatment of tropical diseases This groundbreaking volume explores biosensor advancements wearable technologies artificial intelligence predictive modeling mobile health and biotechnological innovations Each chapter delves into how these cutting edge solutions address the unique challenges of tropical diseases from improving diagnostics and disease surveillance to enabling equitable access to care in resource limited settings The book also examines the ethical technical and economic barriers to implementation providing actionable strategies to overcome these challenges Key features include In depth analysis of innovative diagnostic tools including biosensors and IoT enabled wearables Insights into AI and machine learning applications for outbreak prediction and

resource allocation Case studies of mobile health telemedicine and robotics in tropical disease management Exploration of biotechnological and therapeutic advances tailored to tropical diseases Critical analysis of ethical considerations data security and equitable technology access A forward looking perspective on emerging trends and their alignment with global health goals Aligned with the United Nations Sustainable Development Goals SDGs this book emphasizes the role of technology in achieving SDG 3 Good Health and Well being and SDG 9 Industry Innovation and Infrastructure It is an indispensable resource for public health professionals researchers policymakers bioengineers healthcare technologists and academics seeking to address the complexities of tropical diseases with innovative sustainable solutions This is a transformative guide to leveraging technology for a healthier more resilient world [Current Catalog](#) National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **Multivariate Methods in Epidemiology**

Theodore R. Holford, 2002-05-30 The basis for much of medical public health practice comes from epidemiological research This text describes current statistical tools that are used to analyze the association between possible risk factors and the actual risk of disease Beginning with a broad conceptual framework on the disease process it describes commonly used techniques for analyzing proportions and disease rates These are then extended to model fitting and the common threads of logic that bind the two analytic strategies together are revealed Each chapter provides a descriptive rationale for the method a worked example using data from a published study and an exercise that allows the reader to practice the technique Each chapter also includes an appendix that provides further details on the theoretical underpinnings of the method Among the topics covered are Mantel Haenszel methods rates survival analysis logistic regression and generalized linear models Methods for incorporating aspects of study design such as matching into the analysis are discussed and guidance is given for determining the power or the sample size requirements of a study This text will give readers a foundation in applied statistics and the concepts of model fitting to develop skills in the analysis of epidemiological data [Proceedings of the Second European Symposium on Mathematics in Industry](#) H Neunzert, 2012-12-06 Mathematics in Industry since the volume containing the proceedings of the 1985 Oberwolfach conference was published this subject has become more fashionable in Europe America and also in the third world The Europeans have come closer to each other They formed a European Consortium for Mathematics in Industry abbreviated ECMI This ECMI supported mainly by mathematicians from Amsterdam Bari Eindhoven Firenze Kaiserslautern Limerick Linz Paris Oxford and Trondheim has become a legal entity with a rapidly growing number of members It has organized a common really European postgraduate programme establishes contact between industry and universities and organizes other conferences everywhere in the world Industrial mathematics is a special method to get interesting problems a special attitude of curiosity for technical or economical questions a general rather broad knowledge in all branches of mathematics but it always remains real mathematics Our first proceedings contained many articles about why and how to start Now we are more selfconfident about our ideas These proceedings

include only examples of how to do It is a pleasure to see how many different kinds of good mathematics are applied to so many different problems from industry Part of the selection criteria for this volume was that some of the applications of what is usually considered ivory tower mathematics be represented **National Library of Medicine Current Catalog**

National Library of Medicine (U.S.),1990 Ascaris: The Neglected Parasite Martin Walker,Andrew Hall,María-Gloria Basáñez,2013-05-09 In the context of the current unprecedented momentum and commitment to control neglected tropical diseases and the increased advocacy of anthelmintic mass drug administration MDA there are renewed calls for research and development into the epidemiology and population biology of helminthic parasites to be embedded at the core of intervention strategies This review of the epidemiology of *Ascaris lumbricoides* one of the three neglected soil transmitted helminth infections of greatest public health importance includes discussion on diagnostic methods and their limitations patterns of transmission within communities including heterogeneities in infection and reinfection following curative treatment the geographical distribution of infection and the role of environmental climatic and socio economic co variables Special emphasis is placed on the mathematical approaches that underpin contemporary parasite epidemiology In particular statistical models for analyzing highly variable overdispersed zero inflated and hierarchically or spatially structured data and dynamic models of infection and transmission Deterministic stochastic and hybrid dynamic models are discussed in the context of their application in elucidating the interplay between the parasite frequency distribution and density dependent population processes the dynamics of reinfection following curative treatment the sustainability of parasite populations at low densities theoretical threshold densities transmission breakpoints for elimination and the potential spread of anthelmintic resistance The review highlights the public health relevance of mathematical models and analytical methods and concludes by focusing on recent insights into the epidemiology of *A. lumbricoides* which are particularly germane to the effective implementation of MDA based control

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