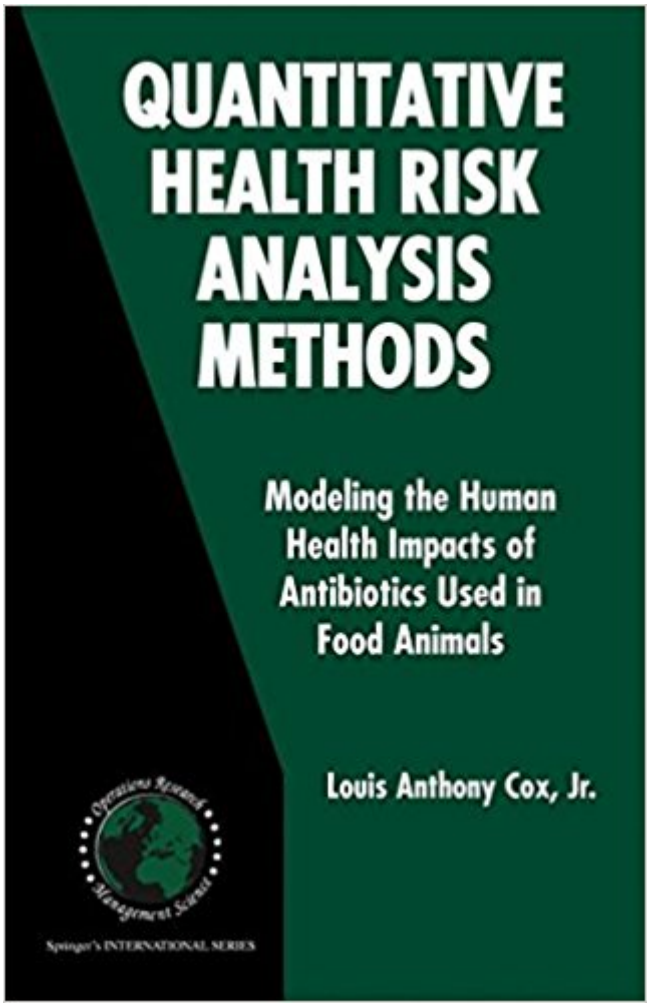
Quantitative Health Risk Analysis Methods: Modeling The Human Health Impacts Of Antibiotics Used In Food Animals (International Series In Operations Research & Management Science)

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Synopsis

This book grew out of an effort to salvage a potentially useful idea for greatly simplifying traditional quantitative risk assessments of the human health consequences of using antibiotics in food animals. In 2001, the United States FDAÃ¢â ¬â„¢s Center for Veterinary Medicine (CVM) (FDA-CVM, 2001) published a risk assessment model for potential adverse human health consequences of using a certain class of antibiotics, fluoroquinolones, to treat flocks of chickens with fatal respiratory disease caused by infectious bacteria. CVMÃ¢â ¬â„¢s concern was that fluoroquinolones are also used in human medicine, raising the possibility that fluoroquinolone-resistant strains of bacteria selected by use of fluoroquinolones in chickens might infect humans and then prove resistant to treatment with human medicines in the same class of antibiotics, such as ciprofloxacin. As a foundation for its risk assessment model, CVM proposed a dramatically simple approach that skipped many of the steps in traditional risk assessment. The basic idea was to assume that human health risks were directly proportional to some suitably defined exposure metric. In symbols: Risk = K Ãƒâ " Exposure, where Ã¢â ¬Å“ExposureÃ¢â ¬Â• would be defined in terms of a metric such as total production of chicken contaminated with fluoroquinolone-resistant bacteria that might cause human illnesses, and Ã¢â ¬Å“RiskÃ¢â ¬Â• would describe the expected number of cases per year of human illness due to fluoroquinolone-resistant bacterial infections caused by chicken and treated with fluoroquinolones.

Book Information

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Customer Reviews

From the reviews: "This book grew out of an effort to salvage a potentially useful idea for greatly simplifying traditional quantitative risk assessments of the human health consequences of using antibiotics in food animals. Ã¢â ¬Â¦ It is truly a pioneering study in this previously underdeveloped area of applied risk assessment. This book should be highly instructive to those interested in attempting to model potential human risks of antimicrobial resistance from complex food exposure pathways. Ã¢â ¬Â¦ The book is a tremendous reference resource Ã¢â ¬Â¦." (T. Postelnicu, Zentralblatt MATH, Vol. 1095 (21), 2006) "This extensively treated application clarifies health risk analysis methods to the reader. It is very well readable. ... The book clearly demonstrates the practical power of data-driven quantitative risk assessment in improving modeling of human health risks created and prevented by antibiotics ... . I do recommend this book." (V. de Valk, Kwantitatieve Methoden, April, 2007)

"Antibiotic use in animals has aroused sharply polarised views and public anxiety about potential human health risks, stimulated by lack of any objective standard to help navigate among conflicting studies and perceptions. Tony Cox's Quantitative Health Risk Analysis Methods represents a giant leap forward, helping to provide such a standard.Ã Â Notable improvements and increased scientific rigor in public health risk assessment and risk management can be expected from the insightful approaches lucidly described in this book.Ã Â I will be recommending it enthusiastically to all students of public health." Stephen Page, University of Sydney Veterinary Public Health Management Program "Tony Cox has been a true pioneer in this previously untouched niche area of applied risk assessment. This book should be highly instructive to those interested in attempting to model potential human health risks of antimicrobial resistance from complex food exposure pathways." Rich Carnevale, Animal Health Institute

I have owned many knives over the years, but this is the first real" bread product that I have ever owned. I really like the construction and design. It works exactly as advertised. I have used it on bread and tomatoes and it did the job perfectly well. I would recommend this product to anyone who needs a quality bread product." Received as described. in my family it is necessary, good . so fast, receive it next day .

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in Food Animals (International Series in Operations Research & Management Science) Quantitative Health Risk Analysis Methods: Modeling the Human Health Impacts of Antibiotics Used in Food Animals: 82 (International Series in Operations Research & Management Science) Herbal Antibiotics: 25 Best Herbal Remedies Way To Heal Yourself Faster (Herbal Antibiotics, Herbal Remedies,herbal antibiotics and antivirals) Optimal Inventory Modeling of Systems: Multi-Echelon Techniques (International Series in Operations Research & Management Science) XVA Desks - A New Era for Risk Management: Understanding, Building and Managing Counterparty, Funding and Capital Risk (Applied Quantitative Finance) HERBAL ANTIBIOTICS: 56 Homemade Holistic Herbal Remedies to Help Prevent, Treat, And Heal Illnesses Naturally (Herbal Antibiotics, Herbal Remedies) Herbal Antibiotics: What BIG Pharma DoesnÃ¢â ¬â„¢t Want You to Know - How to Pick and Use the 45 Most Powerful Herbal Antibiotics for Overcoming Any Ailment Natural Antibiotics And Antivirals: The Complete Guide To Homemade Natural Herbal Remedies To Prevent And Cure Infections and Allergies (Home Remedies, Herbal Remedies, Organic Antibiotics) Natural Alternatives to Antibiotics Ã¢â ¬â œ Revised and Updated: How to treat infections without antibiotics Bowes and Church's Food Values of Portions Commonly Used (Bowes & Church's Food Values of Portions Commonly Used) Research Design: Quantitative, Qualitative, Mixed Methods, Arts-Based, and Community-Based Participatory Research Approaches Hydropower Economics (International Series in Operations Research & Management Science) Linear and Nonlinear Programming: 116 (International Series in Operations Research & Management Science) Linear Programming: Foundations and Extensions (International Series in Operations Research & Management Science) Forensic Assessment of Violence Risk: A Guide for Risk Assessment and Risk Management Analysing Quantitative Data for Business and Management Students (Mastering Business Research Methods) Research Methods in Public Administration and Nonprofit Management: Qualitative and Quantitative Approaches Food Truck Business: How To Start Your Own Food Truck While Growing & Succeeding As Your Own Boss (Food Truck, Food Truck Business, Passive Income, Food ... Truck Startup, Food Truck Business Plan,) Nursing: Human Science And Human Care (Watson, Nursing: Human Science and Human Care) Hedging Currency Exposures: Currency Risk Management (Risk Management Series)