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Nota di contenuto	Series Foreword Acknowledgments Introduction Section I: Overview and Historical Background of Drug Resistance 1 The Science of Drug Resistance What Are Antimicrobials? Key Antibiotics in Medical History What Is Antimicrobial Resistance? How Microbes Become Resistant Why Drug Resistance Is a Concern 2 The Role of Human Behavior in Drug Resistance Inappropriate Use of Drugs Use of Low-Quality Drugs Use of Antimicrobials in Animal Husbandry 3 The Scope of the Problem Today Global Overview of Drug Resistance Drug Resistance in the United States 4 Specific Diseases Tuberculosis Gonorrhea Malaria HIV Influenza 5 Measures to Combat Drug Resistance National and International Standards of Prescribing Practice Infection Control Vaccination Programs Limiting Disease Spread through Travel Developing New Antibiotics and Improved Diagnostic Tests Surveillance and Reporting Programs Recommendations for Global Surveillance Section II: Contemporary Issues and Debates 6 Drug Resistance as a National and International Issue Stakeholders Recommendations for Antibiotic Use Developing New Antibiotics 7 Changing Physician and Pharmacist Behavior Decision Making in Medicine Physician and Pharmacist Education Health System Guidelines 8 Changing Patient Behavior Patient Adherence Obstacles to Adherence Interventions to Improve Adherence

9 Balancing Individual and Societal Rights Balancing Infection Control and the Right to Freedom and Privacy DOT Involuntary Quarantine 10 Contributions of Research to the Fight Against Drug Resistance The Drug Development Process Antibiotics in the Drug Development Pipeline 11 Antibiotics in Animal Husbandry History Specific Threats The Scope of the Issue Balancing Productivity and Public Safety Section III: Resources Primary Documents Current Reports Antimicrobial Resistance: Global Report on Surveillance: Summary Antibiotic Resistance Threats in the United States, 2013: Executive Summary Antimicrobial Resistance Surveillance in Europe, 2015: Summary Policy Statements WHO Global Strategy for Containment of Antimicrobial Resistance: Executive Summary National Strategy for Combating Antibiotic Resistance Bacteria: Executive Summary The Judicious Use of Medically Important Antimicrobial Drugs in Food-Producing Animals: Executive Summary Timeline Sources for Further Information Glossary Index

Sommario/riassunto

Written in clear, nontechnical language, this investigation of drug resistance provides readers with an overview of the scientific issues, the current scope of the problem nationally and globally, and the measures that can be taken to combat this public health crisis. Drug resistance—the reduction in the effectiveness of a particular medicine (particularly antimicrobials) in treating a disease or condition—is considered one of the most pressing issues in medicine today. This problem is likely to have profound impacts on society in the decades to come. This understandable, single-volume book explores the history of drug resistance, explains how drug resistance occurs, cites the most problematic examples, identifies the potential consequences, and describes how drug resistance can be prevented. It also pays attention to current issues and controversies surrounding this topic, such as the role of the industrialized food system in breeding antibiotic-resistant strains of *E. coli*. The coverage includes up-to-date information about specific diseases like tuberculosis, malaria, human immunodeficiency virus (HIV), and methicillin-resistant *Staphylococcus aureus* (MRSA), for which drug resistance is a particular issue. Readers will understand how human behavior, such as patient non-adherence to treatment and physician over-prescription of antibiotics, have served to foster drug resistance. A selection of primary documents sourced from organizations such as the World Health Organization, the U.S. Food and Drug Administration, and the Centers for Disease Control and Prevention will serve those interested in pursuing more detailed research on particular topics.
