

Contents

Preface to the Third Edition	ix
Introduction	xi
1. What Is Special about Infectious Disease Epidemiology?	1
2. Definitions	5
3. Descriptive Epidemiology	17
4. Risk, Relative Risk and Attack Rate.....	23
5. The Case Control Study: Odds, Odds Ratio – The Concept of Confounding.....	31
6. The Cohort Study: Rates – The Concept of Bias	45
7. Some Statistical Procedures That Are Often Used in Epidemiology	57
8. Clinical Epidemiology: Sensitivity, Specificity and Misclassification.....	71
9. Multivariate Analysis and Interaction.....	81
10. Survival Analysis	97
11. Mathematical Models for Epidemics.....	107
12. Detection and Analysis of Outbreaks.....	121
13. Routine Surveillance of Infectious Diseases.....	137
14. Measuring Infectivity.....	149
15. Studying the Natural History of Infectious Diseases	161
16. Seroepidemiology.....	171
17. The Study of Contact Patterns	181
18. Methods to Decide Whether or Not an Illness Is Infectious	195
19. The Epidemiology of Vaccination	205

20. The Use of Subtyping.....	221
21. Further Reading.....	225
Index.....	227

1. What is Special about Infection Diseases Epidemiology.....	1
2. Definitions.....	2
3. Descriptive Epidemiology.....	3
4. Risk, Relative Risk and Attributable Risk.....	4
5. The Case Control Study: Odds Ratio - The Concept of Causation.....	5
6. The Cohort Study - The Concept of Risk.....	6
7. Some Statistical Methods That Are Often Used in Epidemiology.....	7
8. Clinical Epidemiology: Sensitivity, Specificity and Misclassification.....	8
9. Multivariate Analysis.....	9
10. Survival Analysis.....	10
11. Multimodel Models for Business.....	11
12. Selection and Analysis of Outbreaks.....	12
13. Long-term Surveillance of Infection Diseases.....	13
14. Measuring Infection.....	14
15. Studying the Natural History of Infection Diseases.....	15
16. Serosurvey.....	16
17. The Study of Contact Patterns.....	17
18. Methods to Decide Whether or Not an Infection is Infectious.....	18
19. The Epidemiology of Prevention.....	19