

CONTENTS

Series Editor's Introduction v

Introduction 1

1. The Odds Ratio in 2×2 Tables 2

A. The Odds Ratio as a Measure of Association 2

B. Variation Independence of the Odds Ratio and the Marginals 8

C. Log-Linear Representation of the Cell Probabilities 13

2. The Odds Ratio in $I \times J$ Tables 20

A. Local Odds Ratios 20

B. The Spanning Cell Approach 23

C. The Variation Independence Persists 25

D. Log-Linear Models and Odds Ratios 28

E. Association Models With Patterns of the Local Odds Ratios 33

F. Prescribing the Values of the Local Odds Ratios: Generalized Log-Linear Models 40

3. 2^K Tables 42

A. Conditional Odds Ratios 42

B. Mixed Parameterization of the Cell Probabilities 50

C. Log-Linear and Generalized Log-Linear Models 54

4. General Tables 60

A. Conditional Local or Spanning Cell Odds Ratios 60

B. Mixed Parameterization of the Cell Probabilities 64

C. Log-Linear and Other Association Models 66

D. Log-Linear Parameters and Conditional Odds Ratios 71

5. Conclusions 74

References 77

About the Author 79