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Regulations I. History of Informed Consent; II. United States Regulations Governing Informed Consent; III. Conclusion; References; Chapter 7. Animal Care and Maintenance; I. Introduction; II. Ethical and Regulatory Overview; III. Available Resources; IV. Surgical Facility Design; V. Anesthesia; VI. Anesthetic Recommendations by Species; VII. Analgesia; VIII. Resources; References; Chapter 8. Funding Strategies and Agencies: Academic-Industrial Relationships Intellectual Property I. Introduction; II. Academic Agencies; III. Industry; IV. State Incubators and Local University Incubators; V. Intellectual Property; Chapter 9. Statistical Considerations; I. Introduction; II. Hypothesis Testing; III. Sample Size Calculations; IV. Summary; References; Chapter 10. Use of Nonexperimental Studies to Evaluate Surgical Procedures and Other Interventions: The Challenge of Risk Adjustment; I. Introduction; II. Dimensions of Risk; III. Data Sources; IV. Multivariate Modeling Framework; V. Incorporating Risk in Multivariate Models VI. Approaches for Improved Estimates of Treatment Effectiveness in Nonexperimental Studies: The Propensity Score and Instrumental Variables; VII. Conclusions; References; Chapter 11. Measuring Surgical Outcomes; I. Introduction; II. Generic Measures of Health Status; III. Specific Measures of Health Status; IV. Utilities; V. Patient Satisfaction; References; Appendix: The SF-36V2 Health Survey Questionnaire; Chapter 12. Design of Clinical Trials; I. Introduction; II. Hypotheses, Specific Aims, and Endpoints; III. Patient Eligibility; IV. Structure of Clinical Trials; V. Treatment Plan; I. Data Collection and Quality Assurance

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Sommario/riassunto

With the recent changes in the health care industry, surgeons face increasing pressure to devote their time to their clinical activities, thus limiting their research efforts. It is essential that young and creative individuals are encouraged to perform research and are given incentives to participate in research under the mentorship of more experienced research investigators. Surgical Research is the first book to include all the information necessary for the surgical scientist to perform a research experiment.

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