Patient Registry

- 1. Introduction to patient registries
- 2. The purpose and rationale of a registry
- 3. The clinical question part 1.
- 4. The clinical question part 2.
- 5. Bias in registry analysis
- 6. Structured data collection
- 7. Ethical approval, IT development
- 8. Registry regulations and data protection
- 9. Biobanks, human and financial resources
- 10. Patient enrolment
- 11. Data collection, quality, monitoring
- 12. Registry maintenance
- 13. Data retrieval, data cleansing
- 14. Feasibility, exploratory data analysis
- 15. Statistical analysis plan
- 16. Descriptive statistics
- 17. Comparative statistics
- 18. Article structure of observational studies
- 19. Authorship policy, publication strategy
- 20. Networking in science

Clinical Research

- 1. Introduction to clinical trials
- 2. Clinical research types
- 3. Bias in observational studies and randomised controlled trials
- 4. Reduction of bias and types of randomisation
- 5. Randomized controlled trials: phases, designs and hypotheses
- 6. Interventions and outcomes of clinical trials
- 7. Statistical consideration in clinical trial planning
- 8. Importance and structure of study protocols
- 9. Investigator vs pharma company initiated trials
- 10. Clinical trial regulations, data protection in clinical research
- 11. Structured data collection
- 12. Ethical approval, IT development
- 13. Biobanks, human and financial resources
- 14. Patient enrolment, quality monitoring
- 15. Closure of a clinical trial, interim analysis
- 16. Descriptive statistics
- 17. Comparative statistics
- 18. Article structure of randomised controlled trials
- 19. Authorship policy, publication strategy
- 20. Networking in science

Systematic reviews and meta-analysis

- 1. Introduction to systematic reviews and meta-analyses
- 2. Main steps of the workflow
- 3. Types of systematic reviews
- 4. Defining the inclusion criteria
- 5. Protocol registration
- 6. Systematic search
- 7. Search and selection
- 8. Variables in meta-analyses
- 9. Effect measure
- 10. Introduction to bias in science
- 11. Risk of bias in randomized trials
- 12. Bias due to missing data
- 13. Summarizing study characteristics and preparing for the synthesis
- 14. Undertaking meta-analysis
- 15. Network meta-analysis
- 16. Synthesizing and presenting findings using other methods
- 17. Figures in meta-analysis
- 18. Assessing the level of evidence
- 19. Reporting guidelines
- 20. Publication strategy

Biostatistics

- 1. Basic concepts
- 2. Data types, Scales
- 3. Descriptive statistics
- 4. Estimation
- 5. Risks, Odds and their ratios
- 6. Hypothesis testing
- 7. Tests of means and variances
- 8. Nonparametric tests
- 9. Analysis of qualitative data
- 10. Correlation analysis
- 11. Regression analysis
- 12. Survival analysis