

Discussion Points for Future of Bayes

Topics covered in EPIB-668/669 this year

- Basic Elements of Bayesian Analysis
- Bayesian Philosophy
- Simple Models (Normal, Binomial, Poisson, Beta, Gamma)
- Computation and Numerical Methods (R, Monte Carlo, SIR, Gibbs, WinBUGS)
- Bayesian Linear and Logistic Regression
- Bayesian analysis of Clinical Trials
- Hierarchical Models (Simple, Meta-Analysis, multi-level)
- Adjusting for Missing Data & Measurement Error
- Prior Selection and Elicitation
- Model Selection/Bayes Factors
- Unmeasured Confounding
- Meta-Analysis
- Bayesian Sample Size
- Analysis of Diagnostic Tests

Discussion of Jim Berger Article

1. Amount of activity is increasing, difficult to keep track.
2. Types of Bayesian analyses:
 - Objective
 - Subjective
 - Robust
 - Frequentist-Bayes
 - Quasi-Bayes
3. Computing...many packages now available, both specialized and general.
4. What do you think of the future of Bayes in terms of your own use?