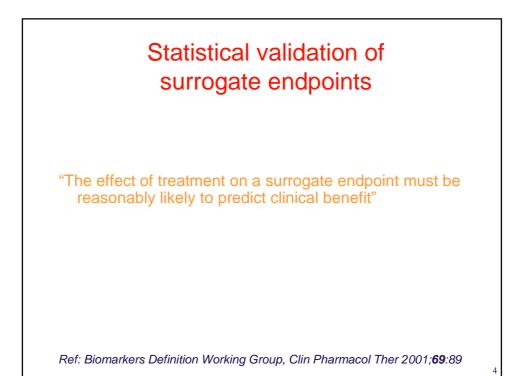
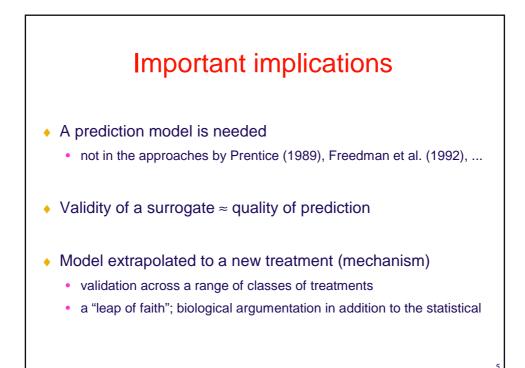
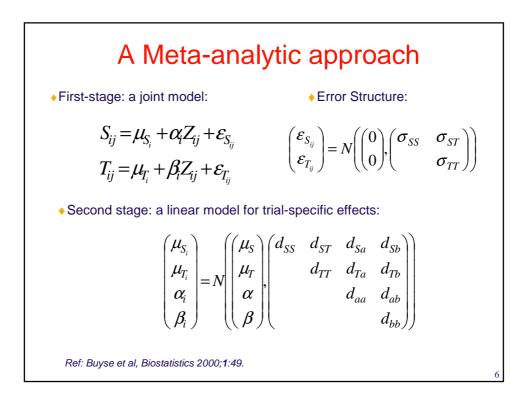
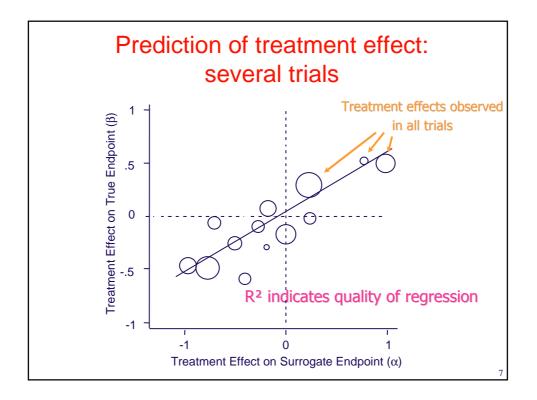


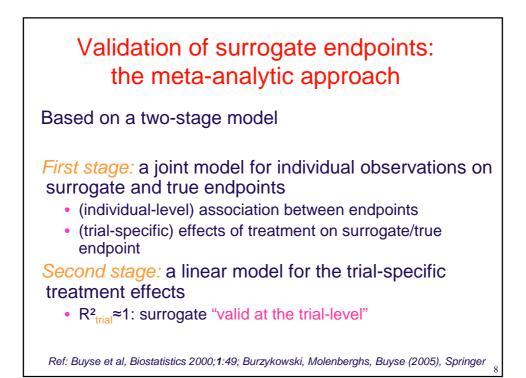
Ref: Biomarkers Definition Working Group, Clin Pharmacol Ther 2001;69:89

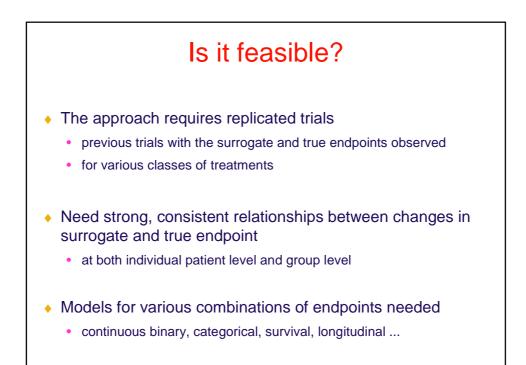


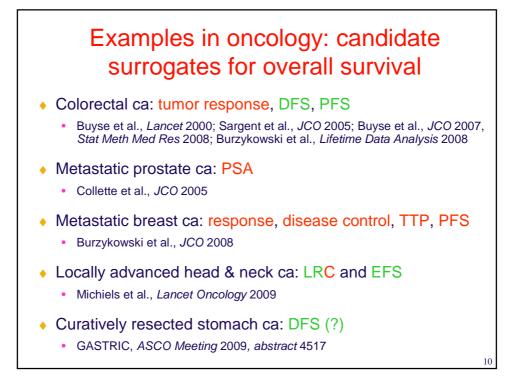


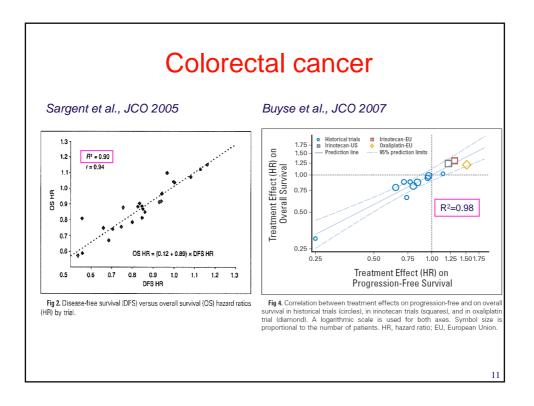


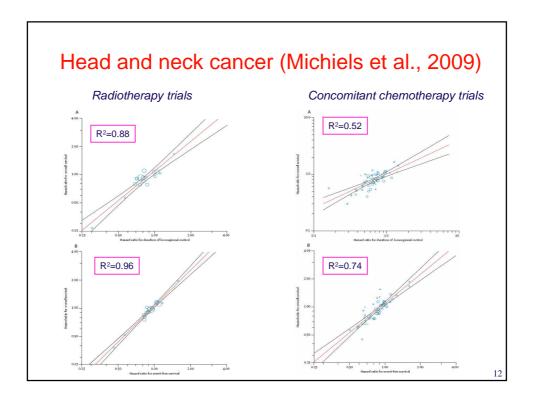


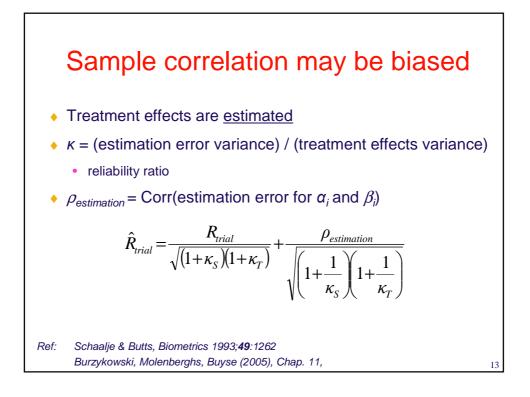


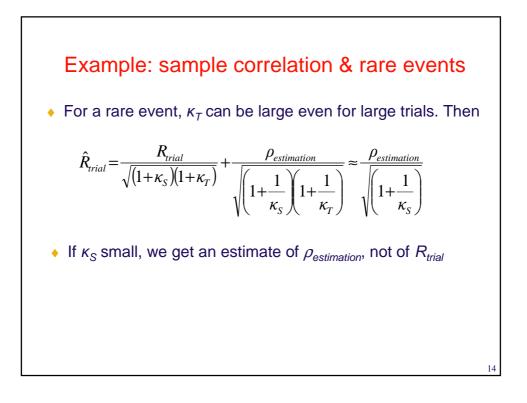


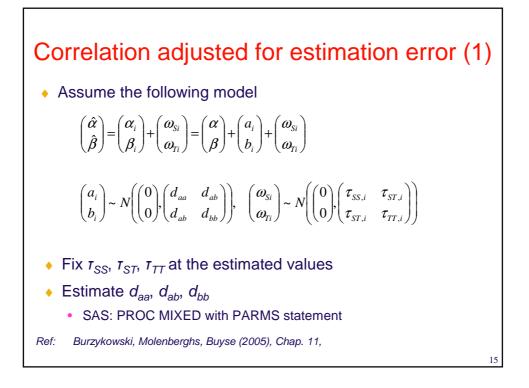


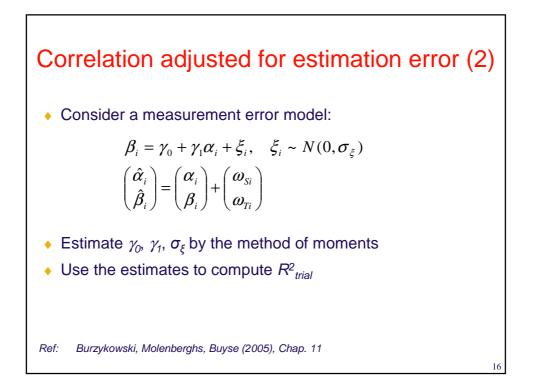


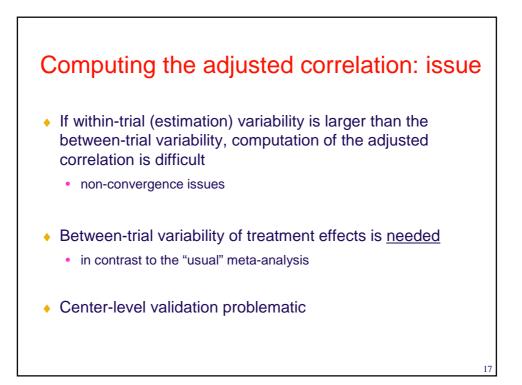


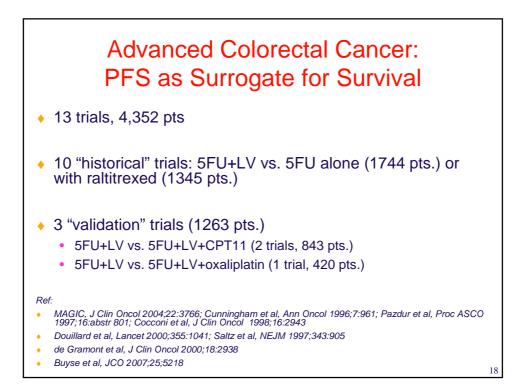


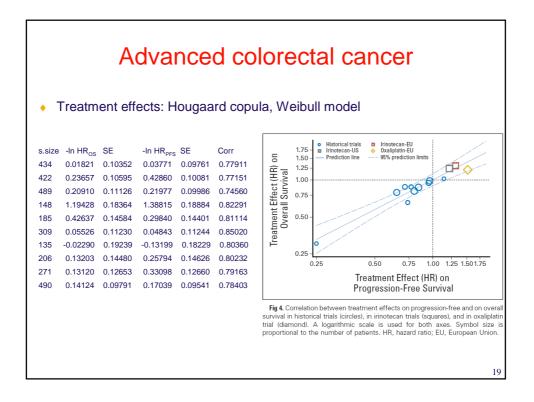


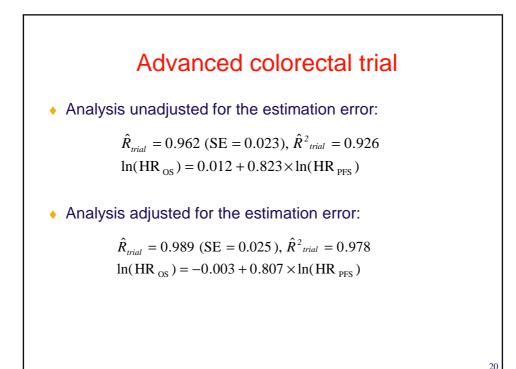












Conclusions

- Meta-analysis-based validation of surrogate endpoints differs from the "classic" meta-analysis
 - Bivariate outcome
 - · Focus on association between the treatment effects
 - Broader trial-inclusion criteria (various classes of treatments)
 - Random treatment effects assumed
 - Between-trial heterogeneity necessary
- Simple regression/sample correlation may be prone to bias
 - adjustment for the estimation error needed
 - more efficient methods to be developed

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