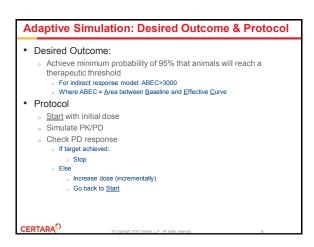
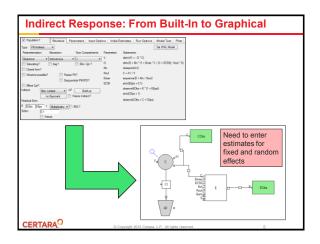
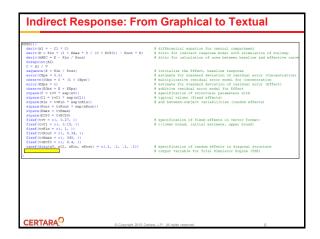
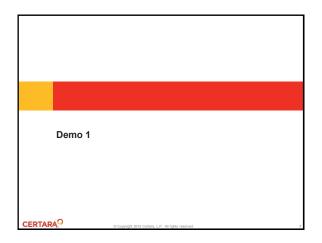


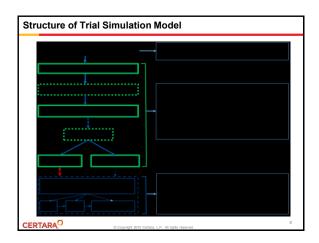
Problem Description: Desirable Dose Question: What is the optimal dose - a dose for which 95% of animals reach a threshold response? Determine the probability for animals to reach a certain response How can we simulate the variability in doses? Need a function of concentration and effect that yields a lognormal distribution of the outcome of different doses Not possible in Phoenix Model Not possible in Phoenix Model Propert 2015 Cetter 1.5. Al Left to speed.

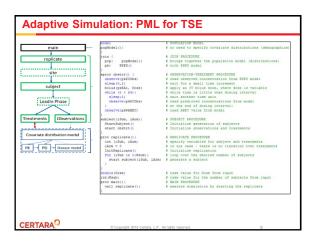


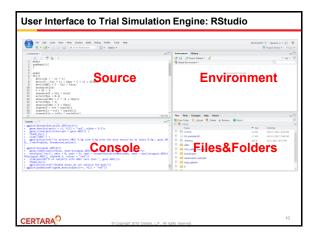


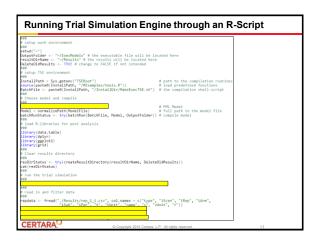


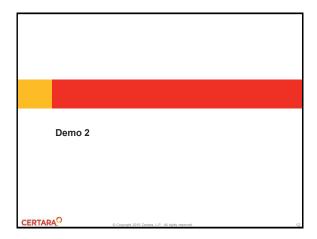


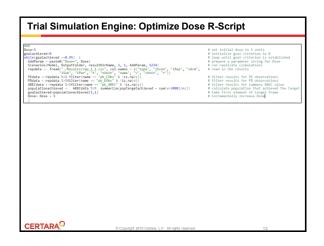


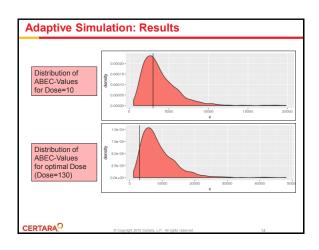












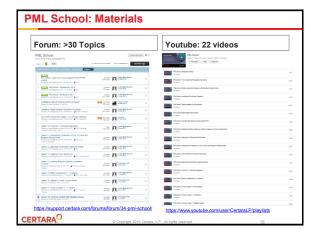
Adaptive Simulations: Summary Introduction of a new PML-Tool: Trial Simulator Engine (TSE) 。 Simple pre-clinical example What is the optimal dose for our next study? 。 Extension of Phoenix Modeling Language (PML) Definition of trial simulation protocol, procedures, functions 。 RStudio as user interface to TSE Requires scripting CERTARA^O



• Trial Simulator Engine will launch in January 2018 You can evaluate TSE with the Introductory Program · 2 months of complimentary access to TSE · Free training webinar training sessions

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Coming up...

- New Series in 2018: NONMEM to PML Comparisons
 - Popular Models using NONMEM software
 1:1 translation into Phoenix Modeling Language
 Setup and run NONMEM models in Phoenix
 Setup and Run same model in Phoenix NLME
 Compare Results

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