

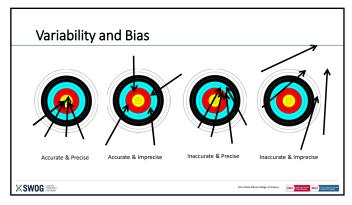
Phase I The safe dose range, side effects, early activity. Phase II Sufficient promise for further testing, more side effect assessment, refinement of dose, evidence of disease subtypes with most promise and feasibility. Some design examples: single arm 2-stage, single arm pilot, multi-arm randomized (screening or selection). Phase III Formal comparison of new treatment to standard treatment.

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Critical Elements in Evaluating Therapeutic Interventions • Biological Activity • Safety/Toxicity • Clinical Efficacy • Clinical Response • Patient Reported Outcomes • Disease recurrence or progression • Survival • Other long-term data • Long term adverse events and related malignancies

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How do we control variability?

• Eligibility criteria

Example: Results of studies which allow only patients with local disease and performance status 0-1 will be less variable than those from studies allowing any stage and any performance status.

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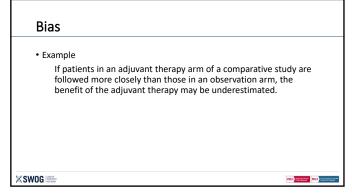
How do we control variability? (cont.)

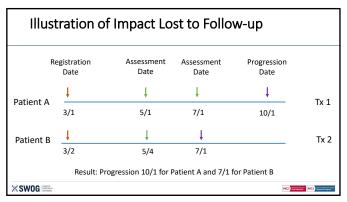
Sample size
 Larger numbers of patients lead to reduced variability.

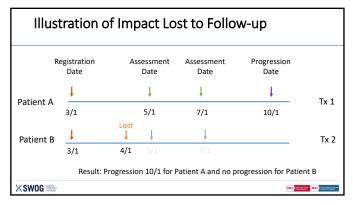
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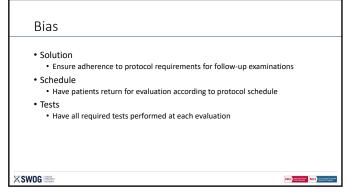
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The CRA's Role in Reducing Variability	
Verification of eligibility	
Avoidance of deviations from protocol treatment plans Submission of complete and timely data	
XSWOG □□□	
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Bias	
 A tendency for a statistical result to differ on average from the true state of affairs, often due to flaws in the design or conduct of a study. 	
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Bias	
Example If a study of a treatment intended for patients with local disease	
includes a number of patients with more advanced disease, the treatment's efficacy may be underestimated.	
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Bias	
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Solution	
Ensure adherence to eligibility criteria	
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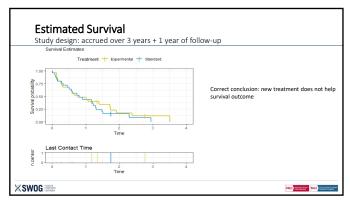




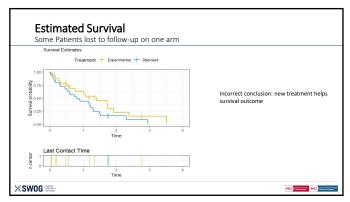
Variability and Bias in Survival Data Survival - how long patients live after entering a study - is often the most important outcome we study Incomplete data increases both variability and potentially bias in studies of survival

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What We Need, cont. Complete description of all treatment received, whether according to protocol or not Complete description of objective status and toxicities at every evaluation

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Effect of Non-dropout or Non-adherence on Sample Size New sample size = sample size \div (1-r)² Sample Size Non-adherence Rate (Example) 0% 100 10% 123 20% 156 30% 204 40% 278 ×swog NCI manufacture NCI manufacture

High quality data are essential for good studies.

Your efforts are essential for high quality data.

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WHY IS IT ALWAYS CRITICAL?

Trial Monitoring

- Accrual monitoring (Stats, SC)
- Adverse event monitoring
 - SC, Stats, AE coordinator
 - CTEP-AERS reporting
 - Monthly reports (AE and dose summaries)
- Interim Analyses
- Data and Safety Monitoring Committee (DSMC)

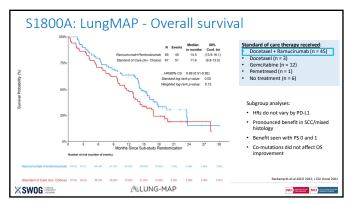
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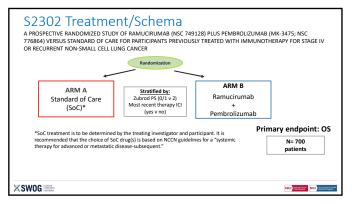
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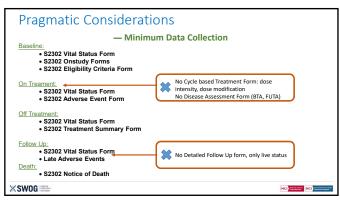
SWOG Data Safety Monitoring Committee

- Evaluation of interim results (endpoints, safety)
- \bullet Recommendations on when to stop accrual, when to report early results
- Evaluate data requests from disease committee leadership for planning purposes
- NEED HIGH QUALITY CURRENT DATA TO MAKE CRITICAL RECOMMENDATIONS

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High quality and timely data are essential for good studies.

Your efforts are essential for high quality data.

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