

How to Ensure Your Topline Results Are Correct?

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Disclaimer

Thanks PhilaSUG for the opportunity



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- Any views or opinions in this presentation are solely those of the author.



Agenda

- Introduction
- Areas where errors could be introduced
- Enhanced double-programming for double saving
- Thoughts and discussions



Introduction

 Topline results require top priority
So important as to be named at or near the top of a newspaper item...(dictionary.com)



Introduction

 Topline results require top priority So important as to be named at or near the top of a newspaper item Health





PHYS ED Running May Be Socially Contagious Our workouts may be shaped by what our (virtual) friends do. 3h ago · By GRETCHEN REYNOLDS

A California Court for Young Adults Calls on Science

San Francisco's Young Adult Court, created in 2015, is based on recent research suggesting that brain development extends beyond age 18, into the 20s. 1d ago · By TIM REQUARTH



prescriptions causes some 125,000 deaths a year in the United States alone.

THE CHECKUP Too Clean for Our Children's Good?

health consequences of the modern and more "hygienic" built environment, which is clean but by no means sterile. 2d ago - By PERRI KLASS, M.D.



2d ago - By JANE E. BRODY

We need to study the

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Introduction

Topline results require top priority
✓Timepressure





• To explain a few...



 Baseline derivations: whether to include unscheduled visits (certain labs), worst case or best case scenario





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Last.USUBJID or First.USUBJID?





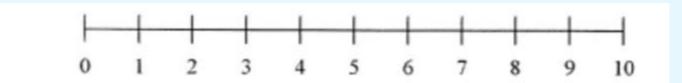
 Numbers for NA etc. were used incorrectly, e.g. when <u>99</u> was entered in EDC for not done in the following pain score...





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✓ Why am I getting mean score >10?



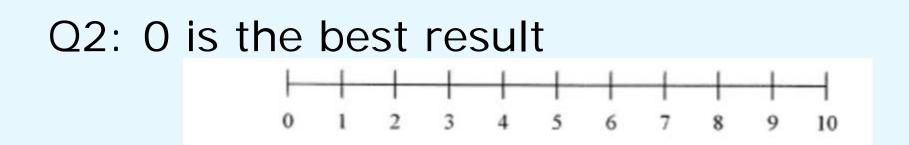


- Certain questionnaire answers need standardization
 - Q1: 10 is the best result





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 - Q1: 10 is the best result





Enhanced double-programming for double saving©

 CDISC requirements <u>HAVEN'T</u> created these error-prone areas!



- CDISC requirements <u>HAVEN'T</u> created these error-prone areas!
- CDISC requirements DO increase the complexity of validations!

AccuClin Global Services

Enhanced double-programming for double saving©

- To validate through the RAW-data approach
 - ✓ Independency
 - Not mingled with the CDISC routines

Directly deriving the primary endpoints from the raw data sets AccuClin Global Services ~Committed To Quantitative Excellence~

- To validate through the RAW-data approach
 - ✓Independency
 - ✓ Saving time
 - No intermediate datasets to
 - depend on
 - Avoiding QC of many variables
 - unrelated to the topline results

AccuClin Global Services ~Committed To Quantitative Excellence~

- Raw data approach is not reinventing the wheel
 - ✓ In parallel to CDISC programming
 - Avoiding many variables required in CDISC but unrelated to the topline results

AccuClin Global Services

- Raw data approach is not reinventing the wheel
 - In parallel to CDISC programming Avoiding many variables required in CDISC but unrelated to the topline results
 - ✓ Utilizing the data construct concept, etc.



- Reconciliations between the QC and Production
 - ✓ Results match?

AccuClin Global Services

Enhanced double-programming for double saving©

- Reconciliations between the QC and Production
 - ✓ Results match? If not, then
 - ✓ Endpoint values match at each timepoint/visit?

Generally, validation data sets should adopt the BDS-like structure to facilitate comparisons AccuClin Global Services ~Committed To Quantitative Excellence~

Enhanced double-programming for double saving©

- Reconciliations between the QC and Production
 - ✓ Results match? If not, then
 - ✓ Endpoint values match at each timepoint/visit?

Allowing flexibility for study specific construct for data sets in order to increase the clarity and effectiveness of comparisons



How soon to get started on CDISC?





- How soon to get started on CDISC?
- What's the challenge for starting CDISC ASAP?



 How soon to get started on validations for topline analysis?





- How soon to get started on validations for topline analysis?
- What's the challenge to start validations ASAP?



Appreciation

Thanks CDISC organization and all who volunteered their valuable time and efforts on the ongoing standards projects!





Q & A



Q & A

Further discussions: haibin@accuclinglobal.com 610.457.8118