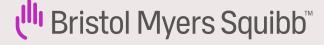
#### Global Biometrics and Data Science

# Short topic Contribution of Sequence

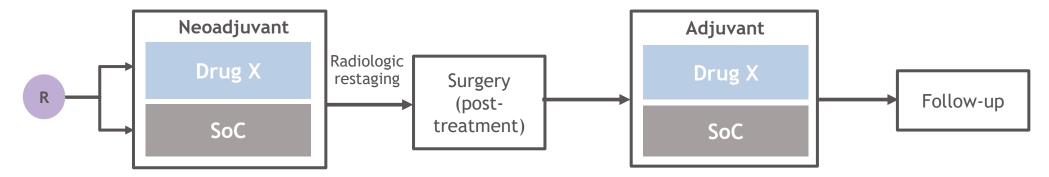
9th EFSPI Reg Stats Workshop, Basel, 11 Sept 2024

Hong Sun

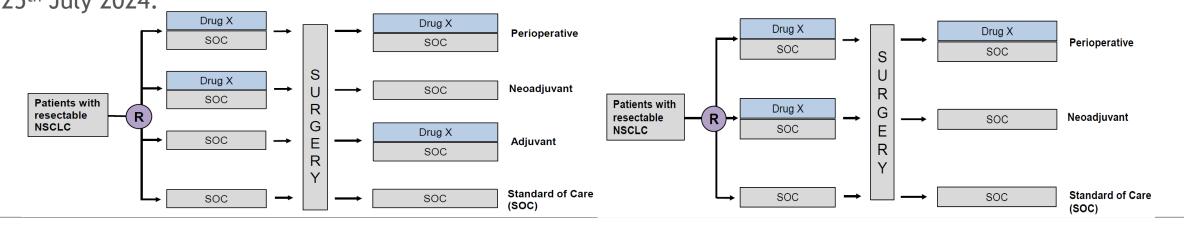


### Contribution of Sequence

- Many study designs with surgery contain different treatment periods: Neoadjuvant, Adjuvant or Peri-operative
- Peri-operative treatment period and sequence: Neoadjuvant -> Surgery -> Adjuvant -> Follow-up



• To address the contribution of additional adjuvant effect and to avoid safety concerns due to overdosing, FDA recommended to use factorial design or at least 3-arm design in a peri-operative setting in ODAC meeting on 25<sup>th</sup> July 2024.



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#### Contribution of Sequence

#### • Our questions:

- As shown, FDA recommended to use factorial design or at least 3-arm design in a peri-operative setting. What are the recommendations from other regulatory agencies?
  - Assuming that a 3-arm design approach is pursued, which type of treatment regimen should be compared with peri-adjuvant/peri-operative regimen, neo-adjuvant only or adjuvant only for assessing contribution of sequence?
  - Can a phase-2 study with 3 arms be used for demonstrating contribution of sequence?
- In a peri-operative setting with only 2 arms (peri vs. SoC), could we demonstrate the treatment effect from neoadjuvant period or adjuvant period using statistical methods?
  - landmark analysis from surgery or other time point
  - indirect comparison (propensity score analysis) using external control or historical data
  - responder analysis or subgroup analysis
- Are there any draft/final guidelines that we can refer to for the new and existing studies involving different treatment sequences or treatment phases?

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## Thank you for your inputs!