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A Confidence Building Exercise in Data and Identifiability: Modeling  
Cancer Chemotherapy as a Case Study

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**Highlights**

- We examine identifiability and estimability of cancer treatment models
- We show structural identifiability for two compartmental models
- However, real-world data reveals a range of practical estimation issues
- Undetected unidentifiability issues can lead to incorrect biological or therapeutic insights
- Simulated alternative data can improve experiment design to resolve unidentifiability

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