

Streamlining complex analyses of in vivo data with INVIVOLDA shiny application



Volha Tryputsen

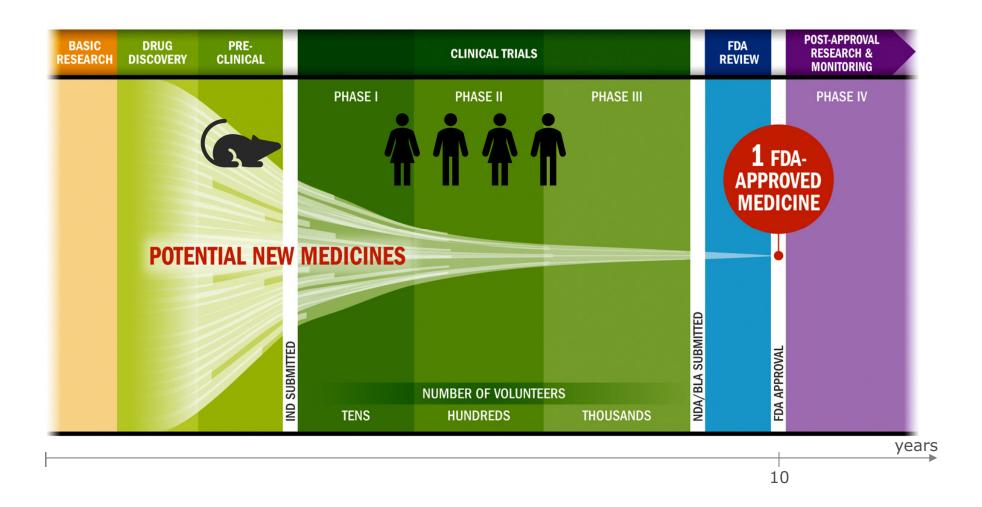
Dorethey Gorham, Day of the Armada Dorethey is a joyful, self-taught artist living with arthritis, general anxiety syndrome, and diabetes.

Janssen R&D, Pharmaceutical Companies of Johnson & Johnson

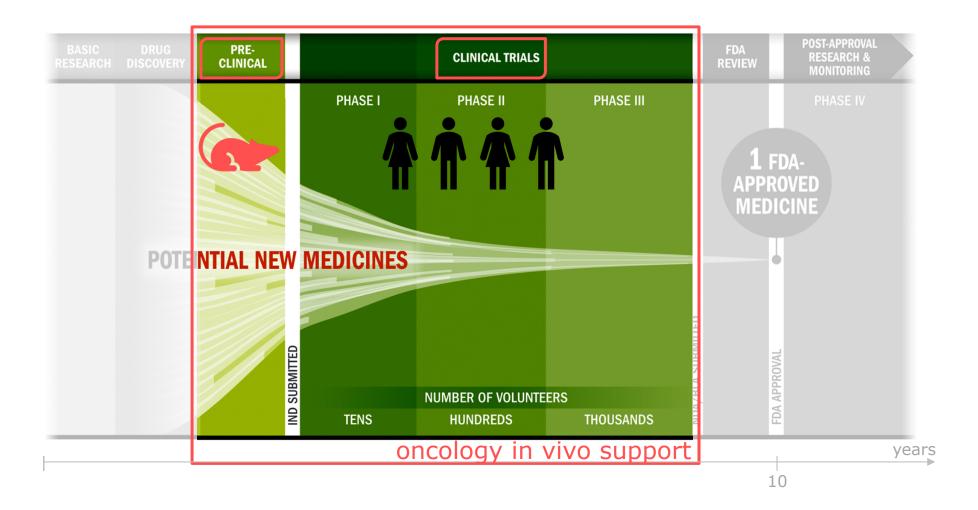
useR! | July 9-12, 2019



Drug Development Process

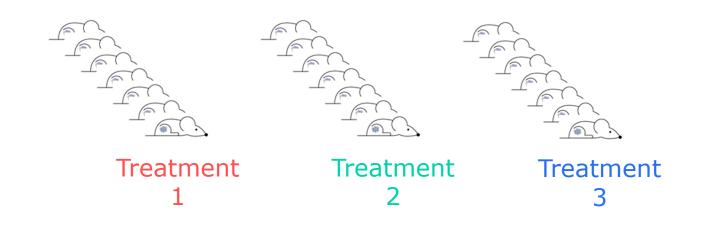


Janssen Oncology In Vivo support



In vivo oncology studies







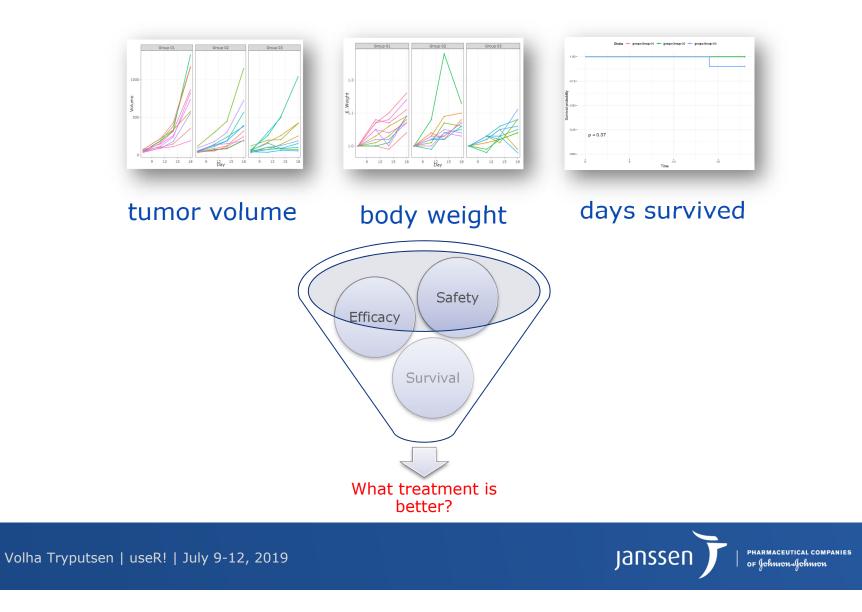
In vivo oncology studies





In vivo oncology studies





In vivo oncology studies data analysis



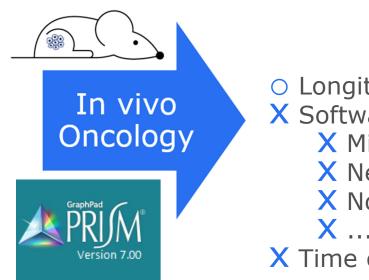
Longitudinal data analysis
X Software limitations

 X Missing data is a problem
 X Need a better method
 X No diagnostics ?!
 X

X Time consuming...reproducible? tracible? 🔅



In vivo oncology studies data analysis



Longitudinal data analysis
X Software limitations

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Mood....



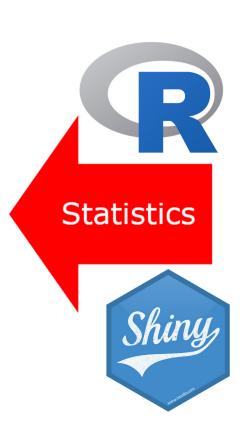
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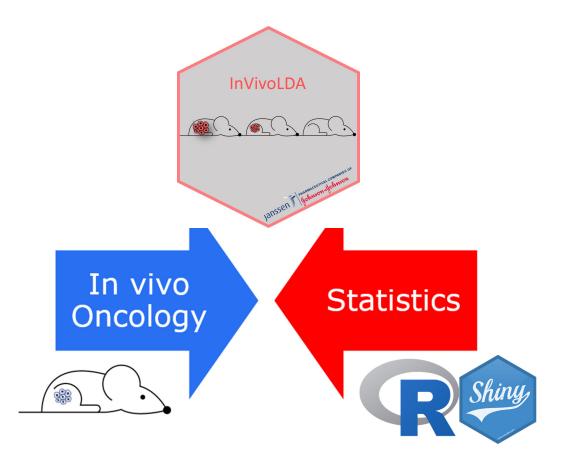
PHARMACEUTICAL COMPANIES OF Johnson-Johnson

Statistics offering to oncology group

- We can deal with missing data!
- O We can offer a better method!
- Yes to model diagnostics!
- We can develop **custom software**!
- Efficiency! Reproducibility! Traceability! ☺



InVivoLDA shiny app



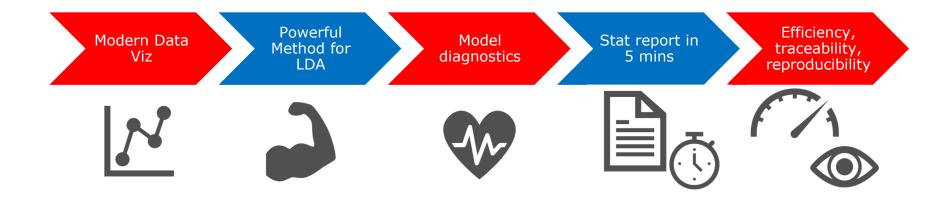


pharmaceutical companies of Johnnon-Johnnon 11

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Why InVivoLDA shiny app?







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Why InVivoLDA shiny app?



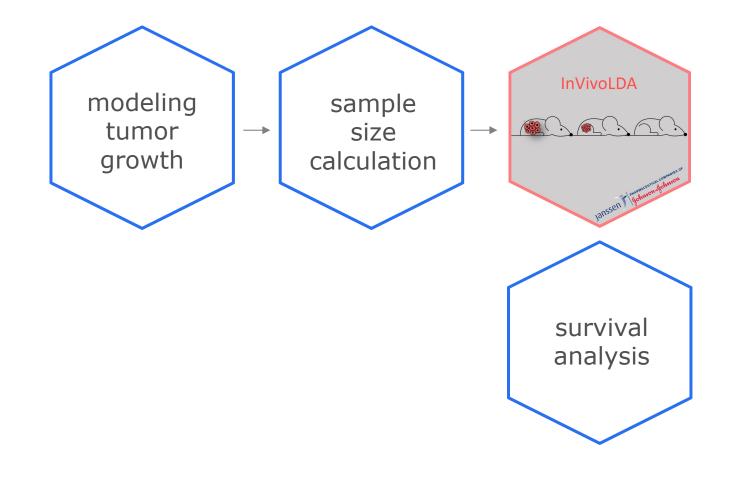




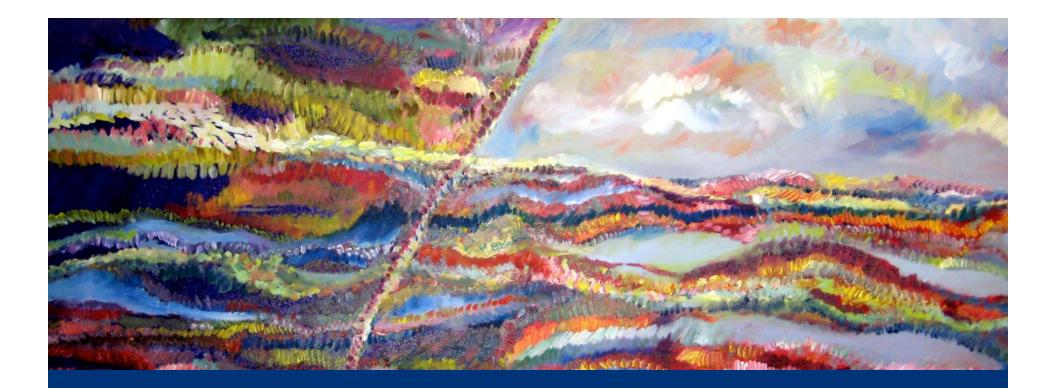
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Shiny app framework to support oncology in vivo research at Janssen

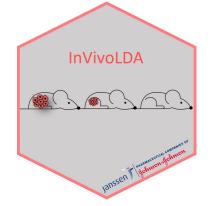






Thank you !

- o Kjell Johnson
- o Bill Pikounis
- Stefan Avey
- Paulo Bargo
- Satish Murthy



Jennifer Jacobs, *Stowaway* Jennifer is a New York based artist living with Type 1 diabetes.

