



Real-Time Clinical Trial Analytics Using Automation with IBM Clinical, Medidata Rave and Datacise

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The difference is in the data.™

Datacise

An MMS Technology

Our Presenters

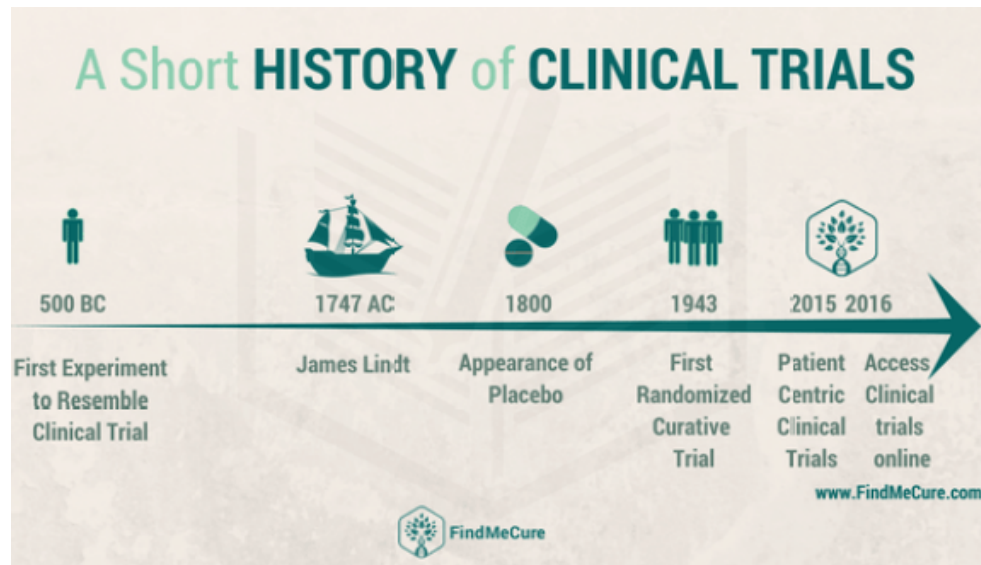


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Evolutions of Clinical Trials



- History of Clinical Trials
- Appearance of Placebo
- Patient Centric trials
- Emerging Technologies
- 21st Century cures act
- Machine Learning in Clinical Trials
- Decentralized Trials
- Real World Data/Evidence

Real-Time Visual Analytics

- Real-time visual analytics provide instant, actionable insights from essential clinical trial information
- Empowers trial stakeholders to quickly react
- Easily show tens of thousands, or even hundreds of thousands of data points collected and identify the outliers and data trends of interest
- Allows for more complex real time data insights including the application of multivariate rule sets or even inferential stats to identify errors or data signals
- Understand the problem and then acting accordingly
- Overall goal of real-time visualization is to allow for earlier actions, ideally during the subject's trial experience

"Most people spend more time and energy going around problems than in trying to solve them".

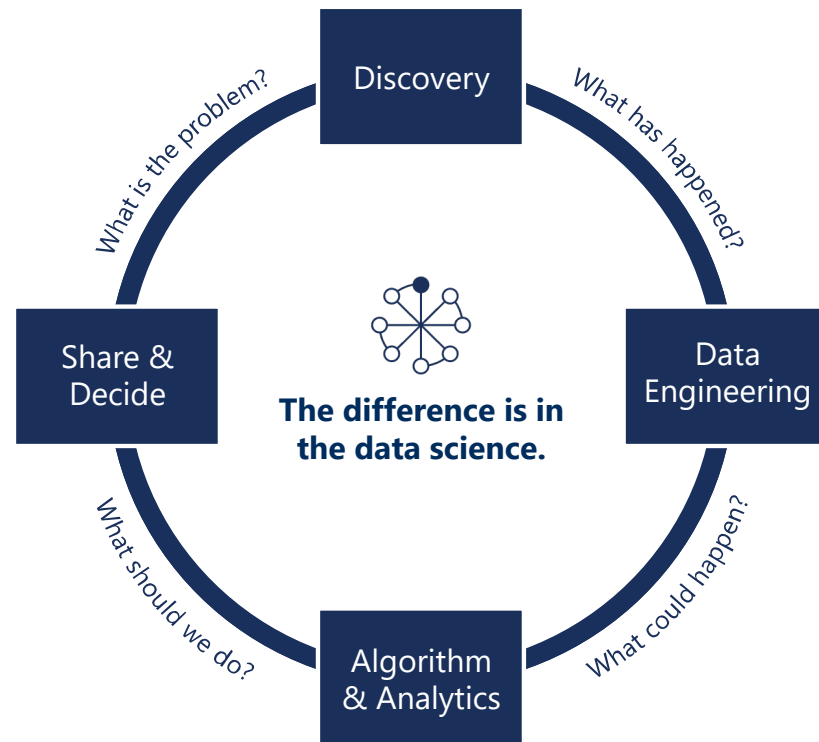
Data Science Process

Discovery: Identify where we can leverage data for making better business decisions, define goals and objectives of the analytic approach.

Data Engineering: Gather data requirements, collect and build understanding of the data, clean and prepare data for analysis.

Algorithms & Analytics: Analyze/refine the cleaned data to develop the model and analytics that pertain to the business problems.

Share & Decide: Share valuable results and develop actionable insights with stakeholders, get feedback and repeat methodology as necessary.



Tools Used in Real-Time Visual Analytics and Data Extraction



Data Extraction

- IBM Clinical EDC
- Medidata Rave EDC
- API
- Python and Java



Automation

- Task Scheduler
- Power Automate



Visual Analytics

- Azure Storage
- PowerBI
- Power Query M
- DAX
- Live Notification System



Thank you!
Any questions?

visit

www.mmsholdings.com/datacise/



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