Understanding Trial Design using Visualization

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Our purpose

We push the boundaries of science to deliver life-changing medicines
Our Global Medicine Development mission

We transform innovative molecules into medicines that change lives

We are responsible for generating the data that enables the business to:

- Understand where there is unmet medical need
- Shape Therapy Area strategies
- Make critical pipeline and investment decisions
- Ensure the right molecules are selected for progression
- Seize the right lifecycle management opportunities
Understanding Trial Design using Visualization

... from readout of phase 2 data to final phase 3 design
Visualizing trial design

The Challenge

• A checklist
• Time perspective – ready for the protocol and tool development
• Operational and scientific aspects
• Not a new tool

The Benefits

• A reminder of activities and time constraints
• Simplify protocol development
• Cross functional communication
The result – an interactive guide

The checklist

- Describes design activities - mix of regulatory, operational and scientific perspectives
- Put time in focus when to be ready
- End of design and ready for protocol development

An introduction, a gentle reminder, or just a visualization guide of trial design!
Information sources

Governance interaction

When to start and be completed

Headline turned into activities
Organizing and relating information

All perspectives matter

Activities:
What
When
Learn more
Technology solution of visualization

Browser

Angular JS & D3

Java Spring Backend

Cypher

JSON

neo4j
Summary: Visualization Trial Design

- Mix of perspectives important for design
- Time perspective – when to start or be ready
- A visualization of the design work to be ready for protocol development

An introduction, a gentle reminder, or just a visualization guide of trial design!
Demo Overview
Demo Activity details

Evaluation of standards

Evaluation of standards
Evaluation of endpoint vs data standards and how these meet expected description of Table, Figures and Listings. Details on variables and derived variables that support the endpoints. Evaluation should also be done on lab/biological sampling.

If needed new standard should be requested according to end-to-end approach from data collection through to final output.

Timing
New standard to be developed and completed 2 weeks prior to final Protocol.
New standard 8-14 week
New Lab codes 4-8 weeks

Link
Clinical Information Standards End to End Process

Filter
To filter on this Activity [click here]
- An introduction
- A gentle reminder
- Visualization guide of trial design
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The Future
Acknowledgement

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BACK Ups technology solution
Visualization architecture

Neo4j

Java Spring Backend

JSON/Cypher

Neo4jFactory

populate / update

neo4jService

update

drawData

d3.js (roa)

index.php

develop.php

XML

AngularJS

Database

Factory

Controller

Input

Local Storage

Display

Excel

develop.php

TSV