

Clinical Data and Devices

Oracle Health Sciences

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Oracle Health Sciences SaaS Enterprise Architecture

Oracle Health Sciences

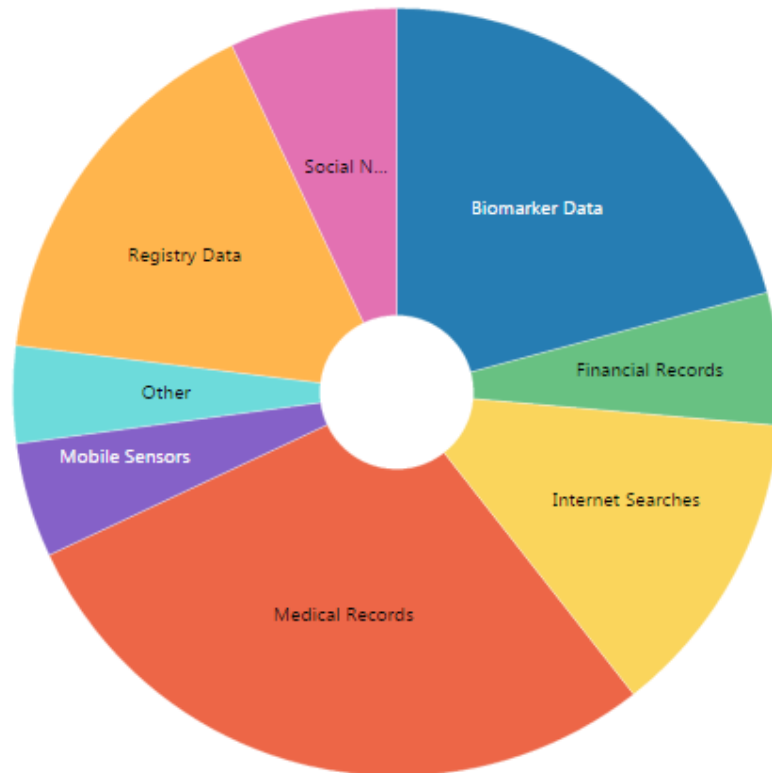
Jul 2017

Safe Harbor Statement

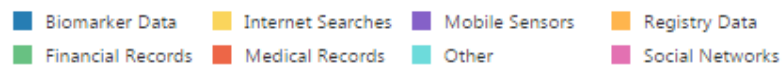
The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

Clinical Data and Devices: Applied Clinical Trials Big Data Report

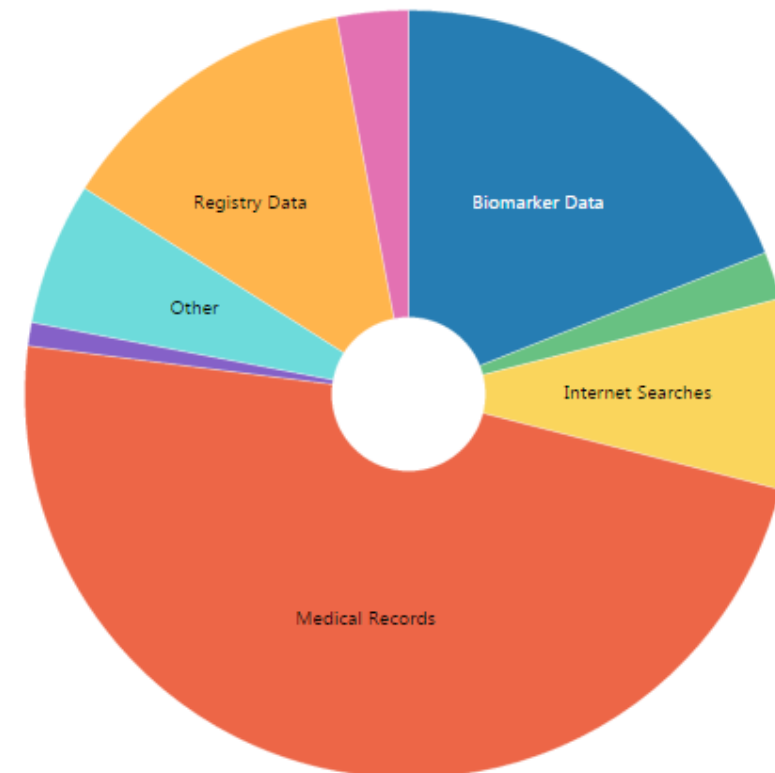
What is your big data comprised of?



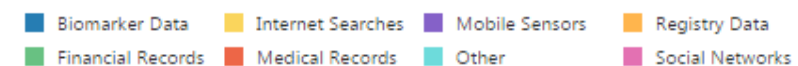
Type



Which is most beneficial to you?



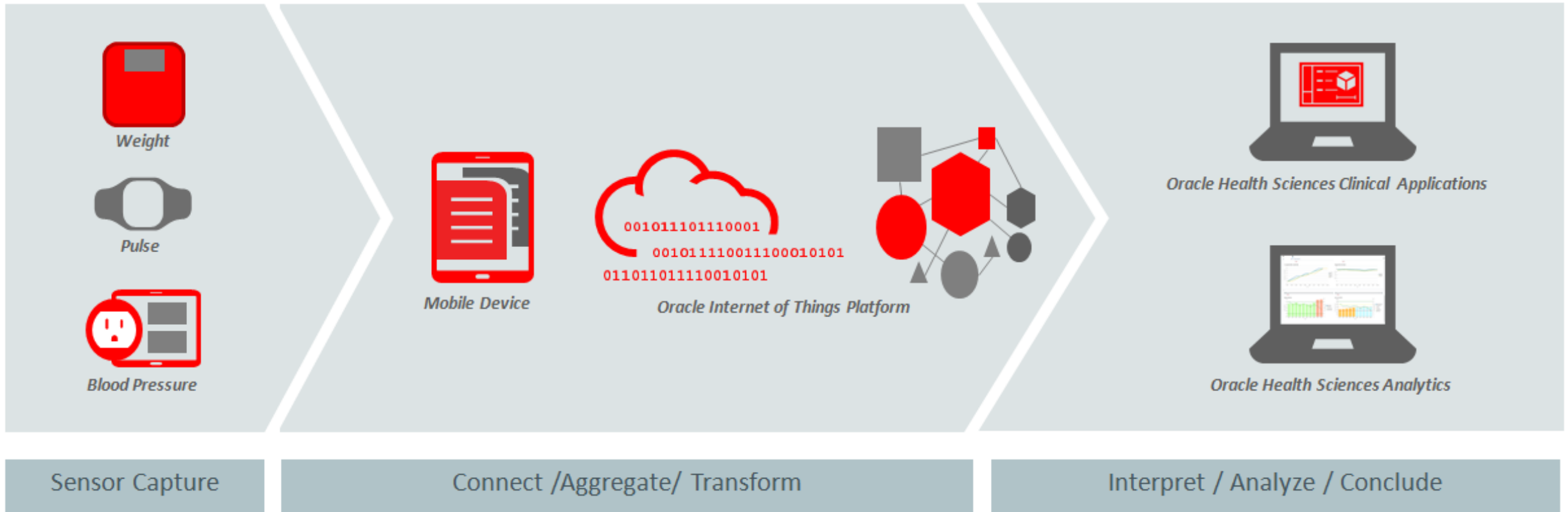
Type



Source: <http://www.appliedclinicaltrials.com/big-data-survey-report-december-2016>

Clinical Data and Devices:

What are the impacts of the data from wearable and implantable devices?



Learn more: <https://www.youtube.com/watch?v=gVEz9icle2g>



Biogenetics



Real World Evidence

CLINICAL



mHealth



HEALTHCARE



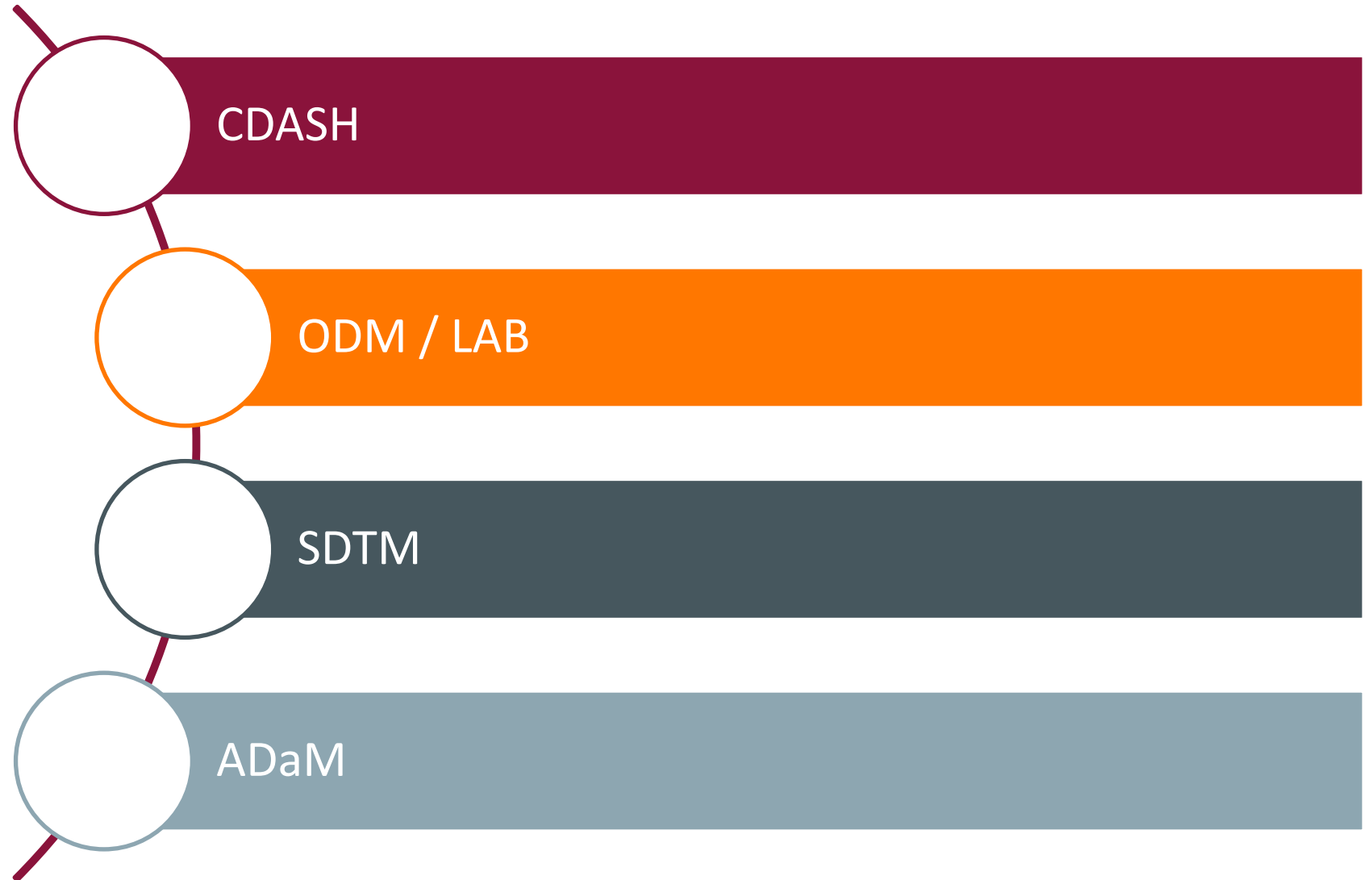
Population Health



Precision Health

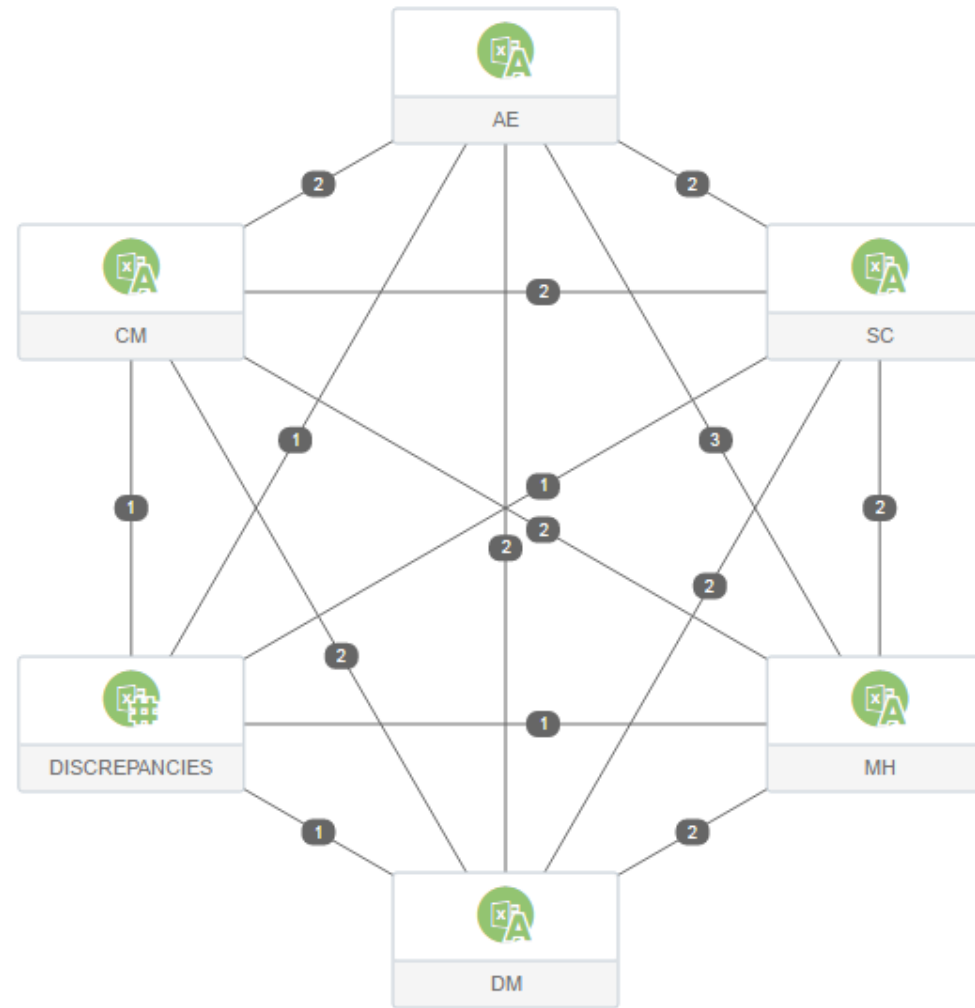
CDISC Standards:

- How do we use Standards?
- When do we use Standards?
- Which format is most appropriate for Device data?



CDISC Standards:

- Defined relationships
- Automatic connections



Connect Sources ✕

This connection will Extend a Dimension

Match columns

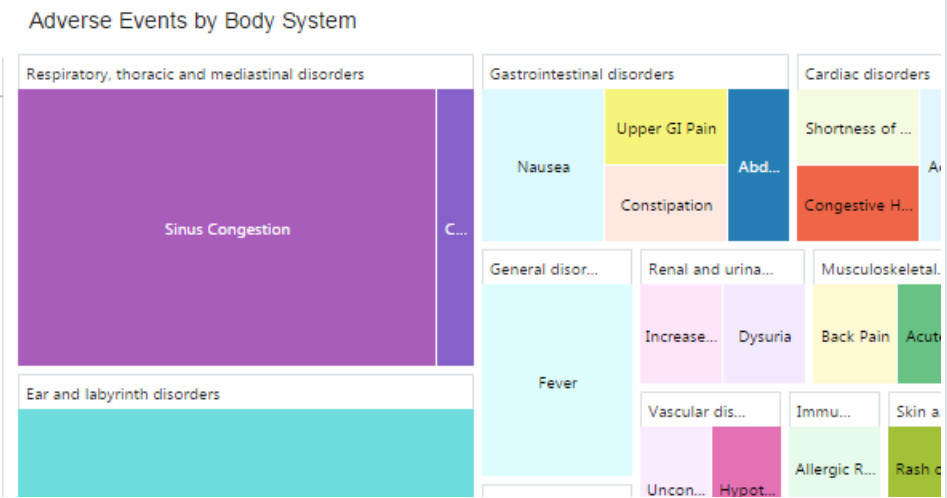
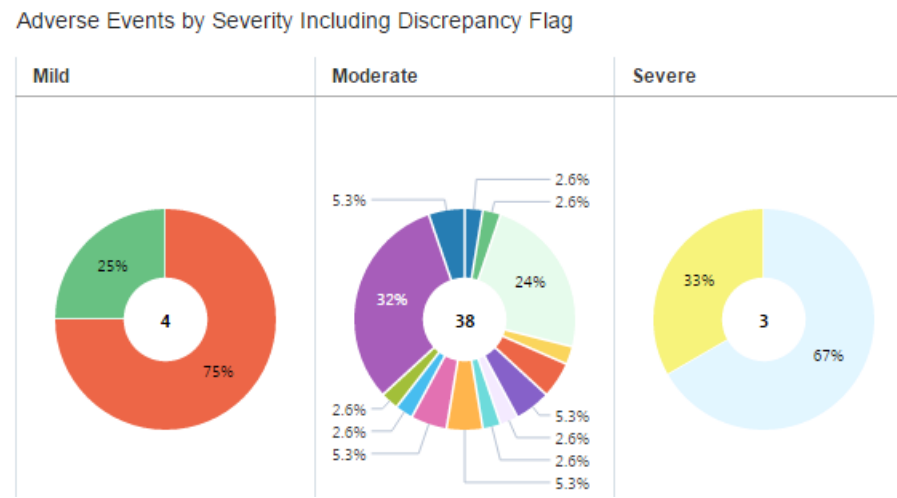
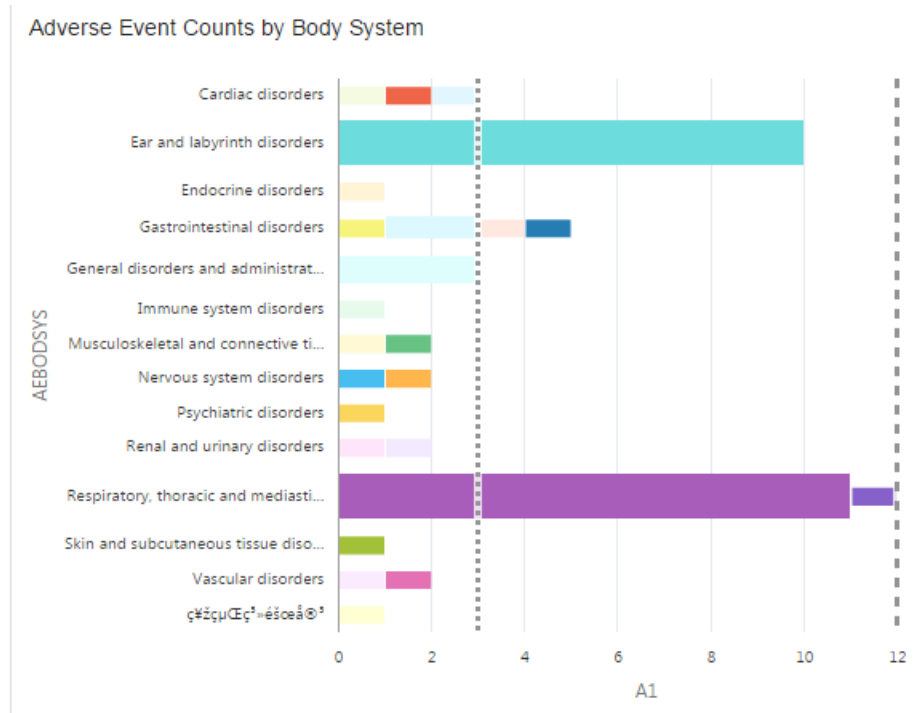
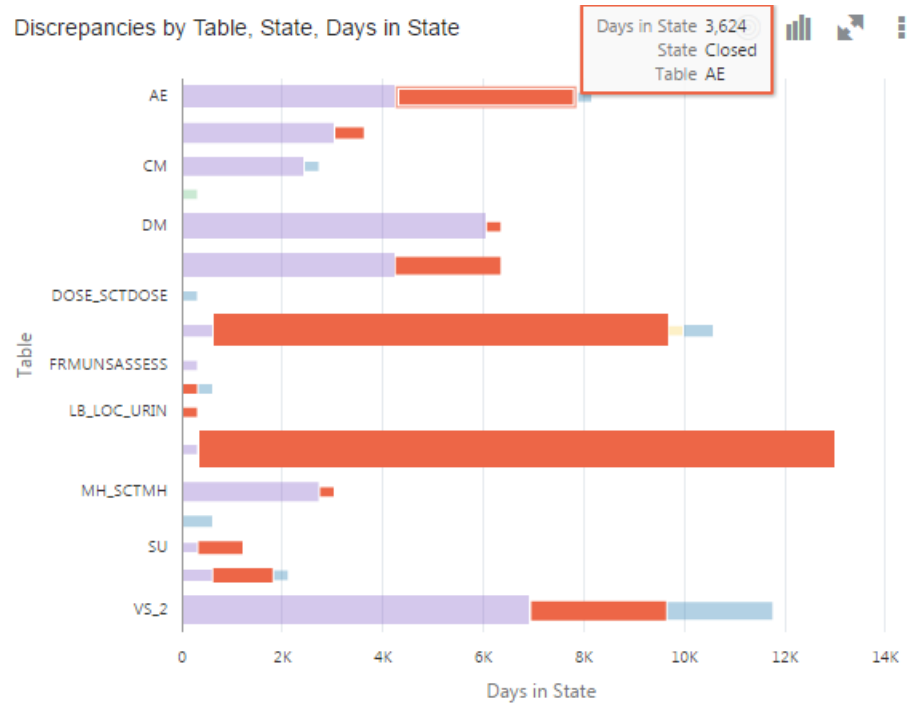
CM	AE	
STUDYID	STUDYID	×
USUBJID	USUBJID	×

Add Another Match OK Cancel

Clinical Data and Devices:

A combined view of:

- SDTM data
- Discrepancies
- MedDRA coding
- Device data

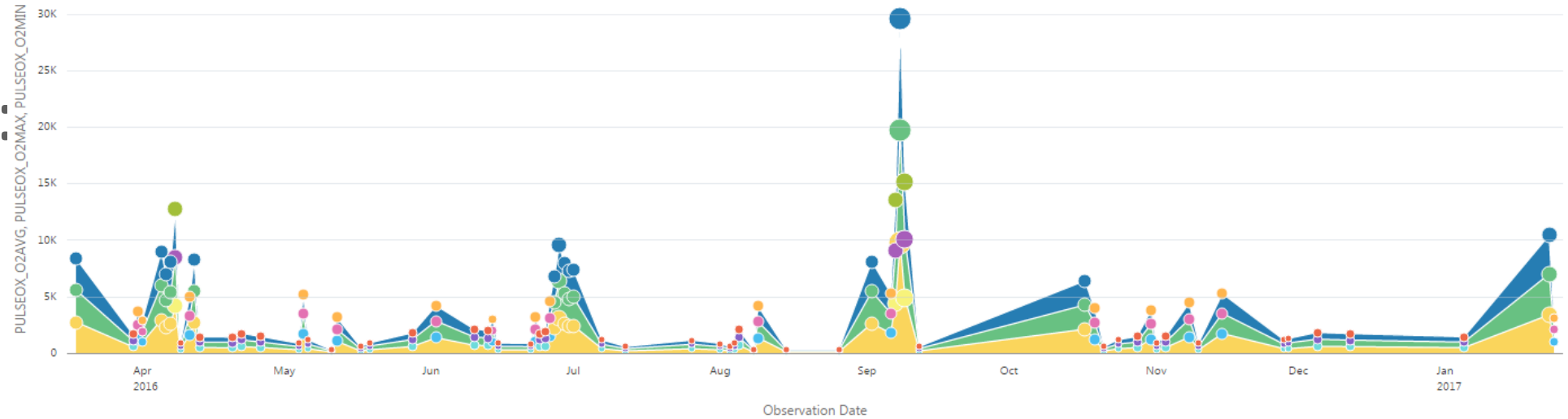


Clinical Data and Devices:

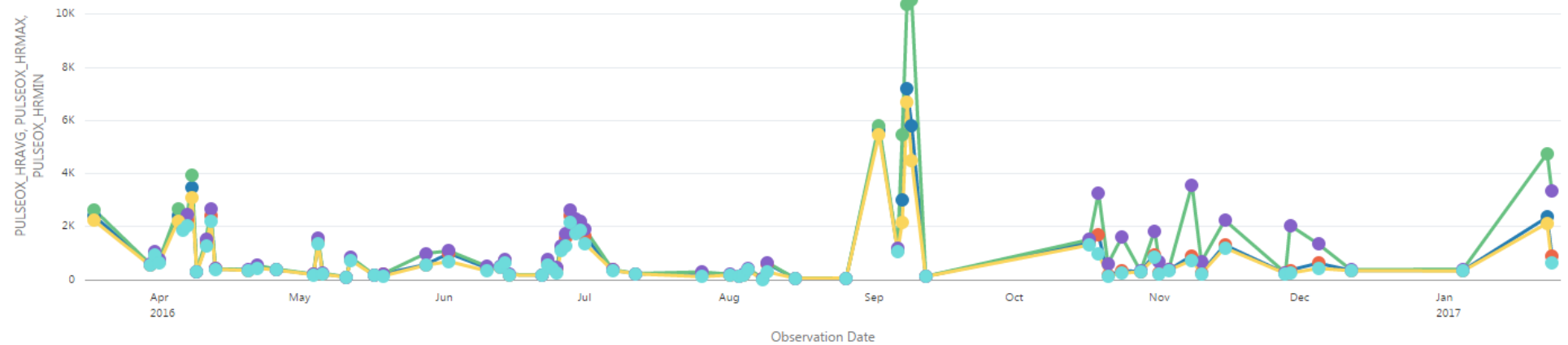
Devices can be analysed together:

- Oxygen saturation and heart rate

Oxygen Saturation



Heart Rate

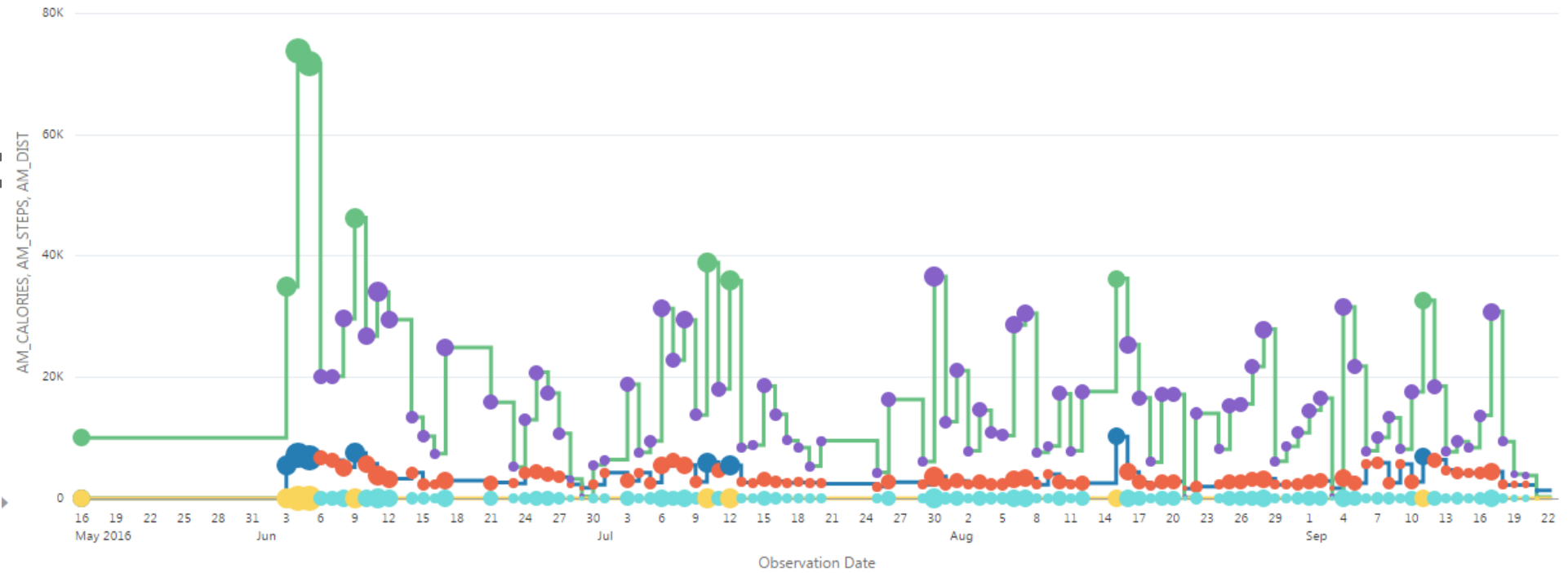


Clinical Data and Devices:

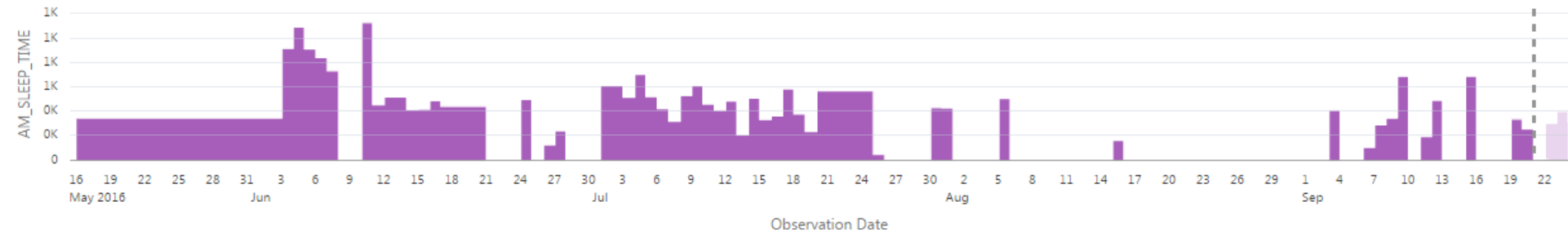
Devices can be analysed together:

- Activity and sleep monitor

Calories, Steps and Distance



Sleep Time



Clinical Data and Devices: Business Intelligence Dashboards

My Dashboard

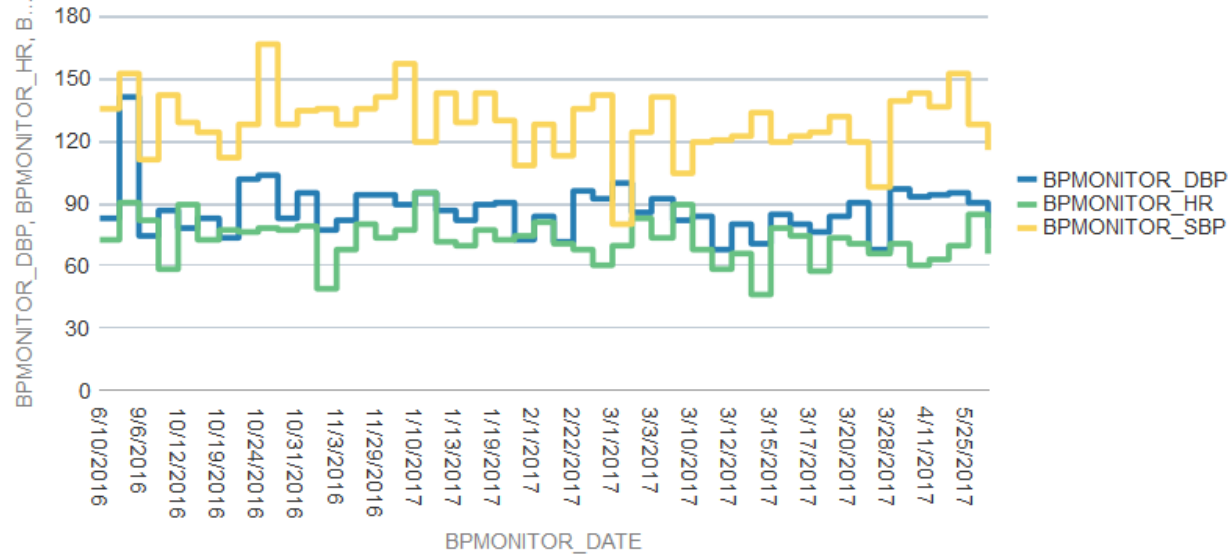
BPMonitor BPBubble Oximetry **Both**



Claudio's BP in OBIEE12C

SUBJECTNUMBERSTR ENR-0167

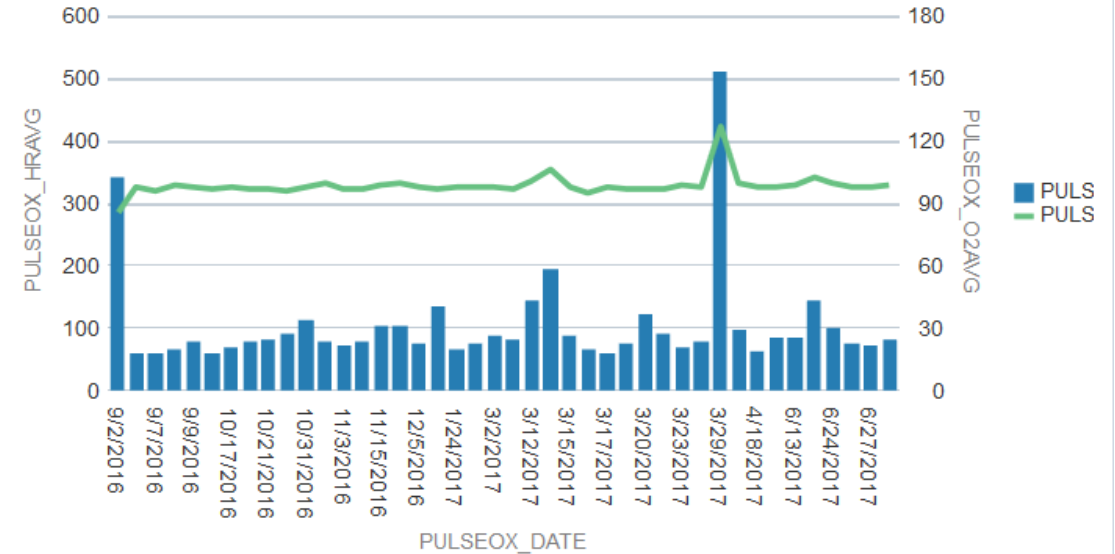
BPMONITOR_DBP, BPMONITOR_HR, BPMONITOR_SBP



Pulse Oximetry

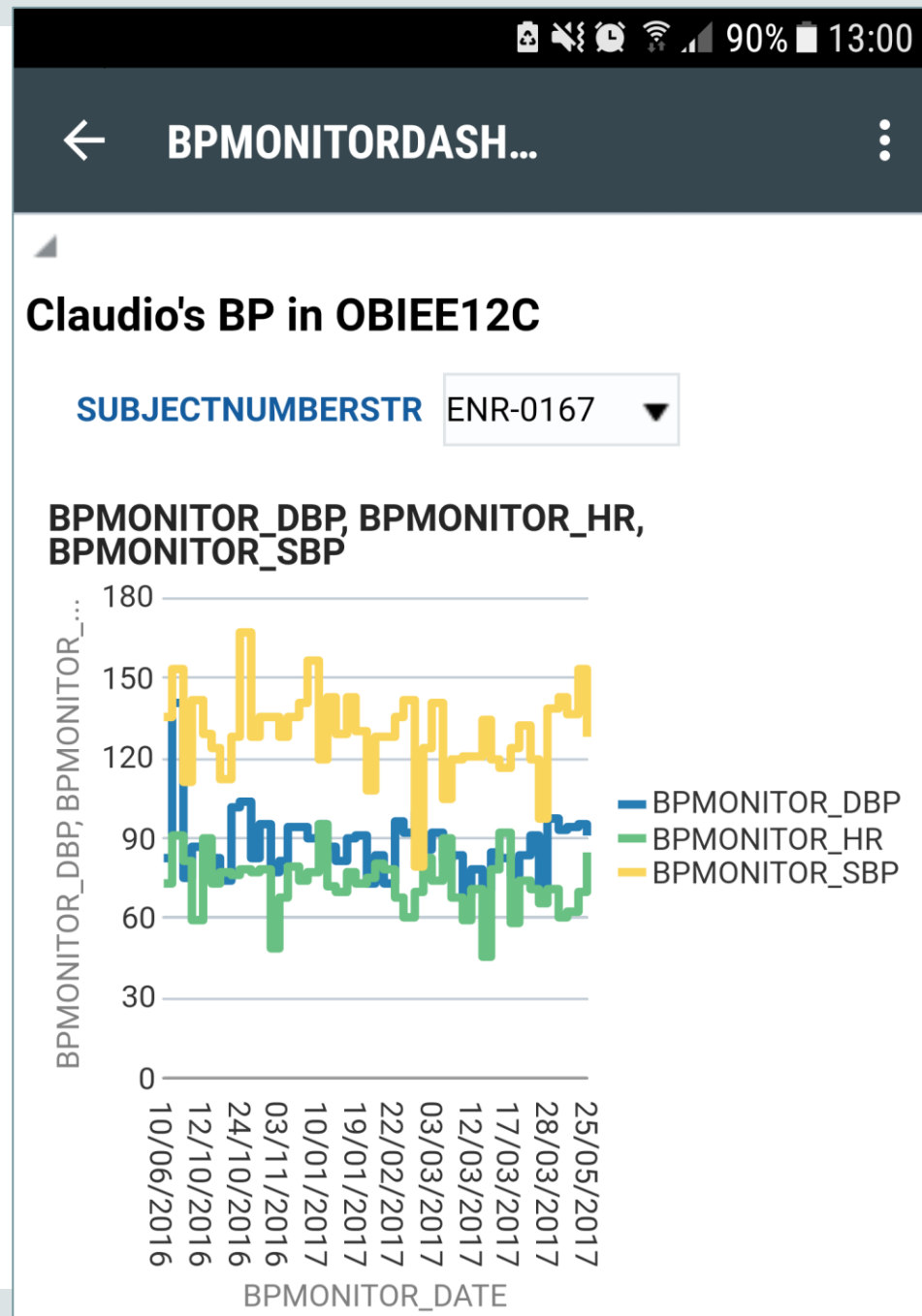
SUBJECTNUMBERSTR ENR-0167

PULSEOX_HRAVG, PULSEOX_O2AVG



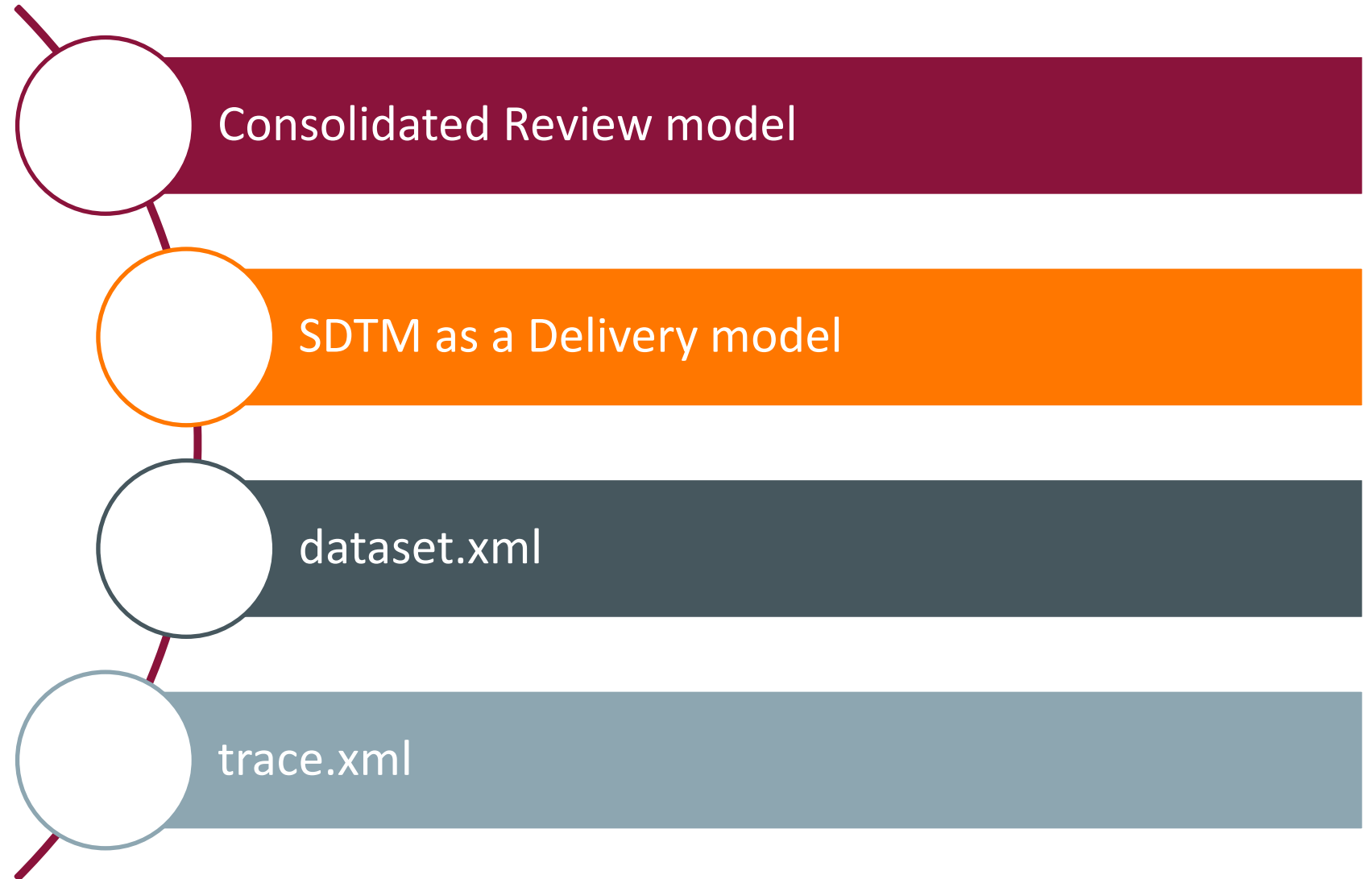
Clinical Data and Devices - Mobile Devices:

- Dashboard Data in Oracle BI Mobile app (Android / iPhone)



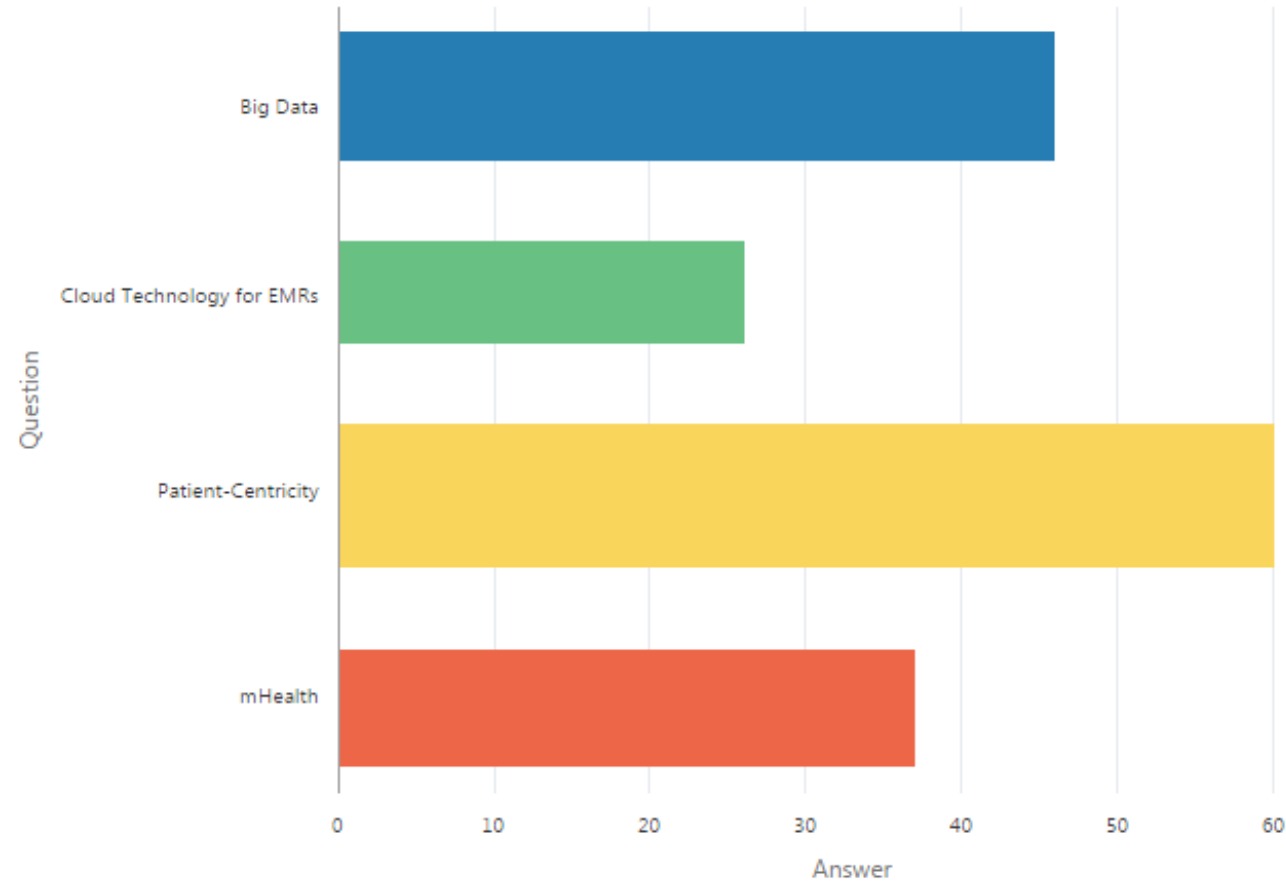
CDISC Standards:

- What are our expectations?
- Where are we headed in the future?



Clinical Data and Devices:

eClinical Strategies in Use in Industry Today



Source: <https://knect365.com/clinical-trials-innovation/article/e3d64458-2494-490a-b831-8f12abc467ad/mhealth-clinical-trials-adoption>

Safe Harbor Statement

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