

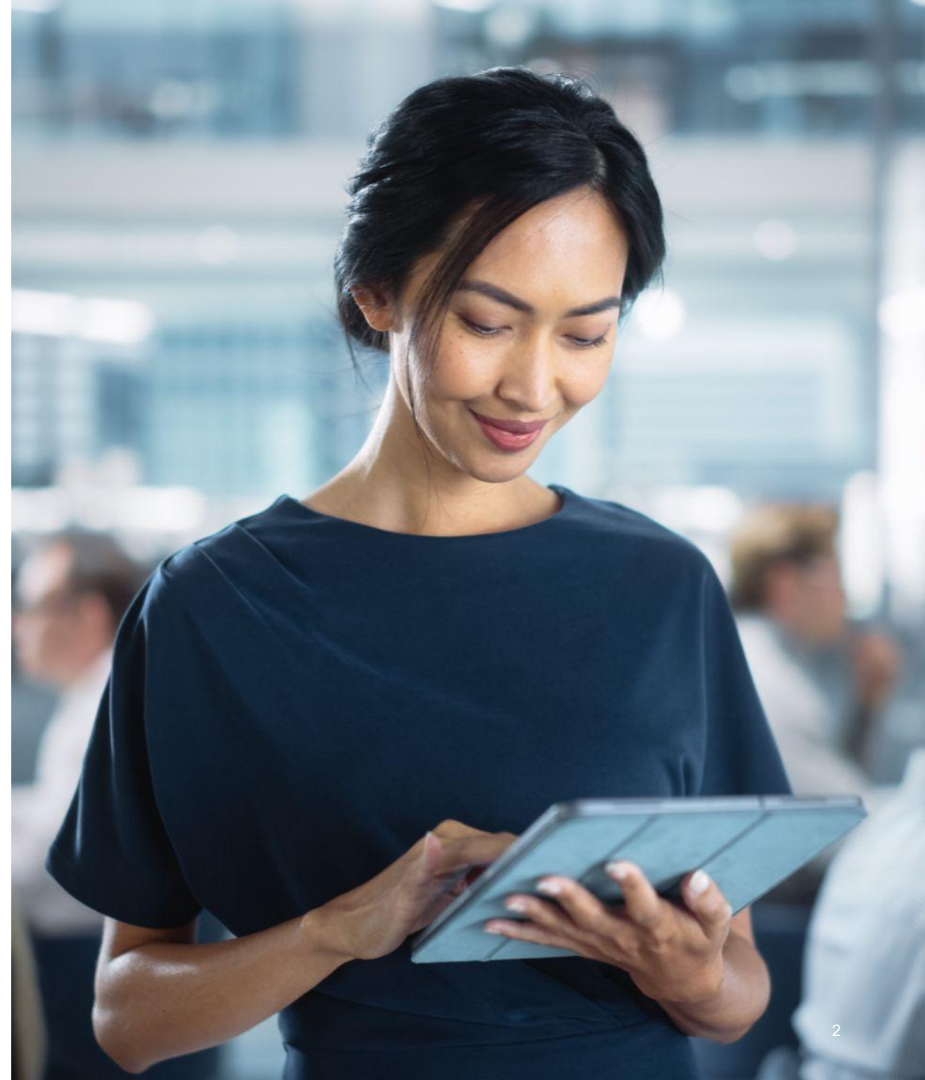
Single Day Event

Democratizing Ad hoc reporting and insights
for clinicians through machine learning

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Saama Technologies

Agenda

- Introduction
- Current & proposed processes
- Demo
- Benefits & caveats
- Future directions and opportunities





Ad hoc Reporting in Clinical Trials

Planning

- Analyze **historical data** or similar studies
- Determine sample size calculations
- Identify potential challenges or risks

Enrollment

- Monitor patient **enrollment metrics** and screening outcomes.
- Identify strategies for **enhancing recruitment** efforts.

Treatment

- Monitoring **treatment adherence**, dosage adjustments, and protocol deviations
- Track **treatment outcomes**, adverse events, and patient responses in real-time

Monitoring

- Monitoring of **trial data** throughout the duration of the study.
- Identify **safety** concerns, protocol deviations, and **emerging trends** in patient outcomes, enabling proactive management of trial-related issues.

Analysis

- Facilitate **interim analyses**
- Conduct exploratory analyses, assess preliminary results, and **evaluate the efficacy and safety** of treatments

On Demand

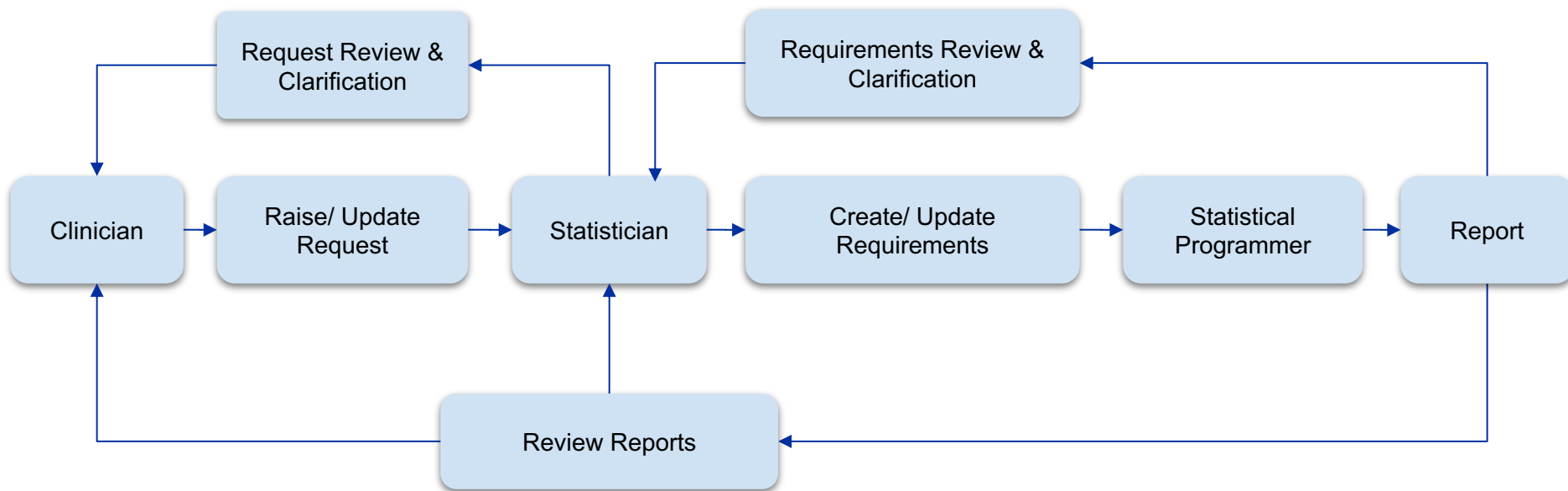
Urgent & Important

Deeper Analysis

Identify Trends

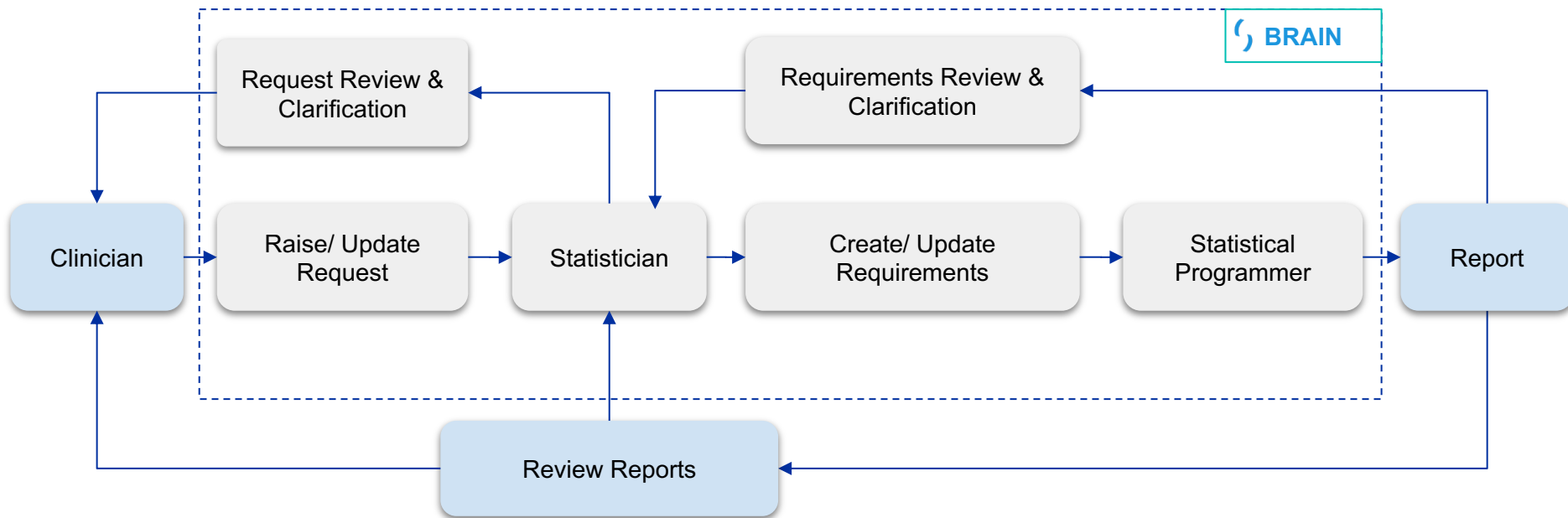


Current process





Proposed process





Opportunities to leverage AI/ML

Data Retrieval

- Identify appropriate source datasets & columns
- Build connections to the source

Programming

- Use R, SQL, SAS, Python for deriving parameters, statistical summaries & listings

Preprocessing

- Data cleaning
- Normalisation
- Append/Merge data points

Reporting

- Report Generation
- Fit data into report templates
- Visualisations



Demo - User Experience for Clinicians

 Synapse AI

SHERPA : Datebot on SDTM/ADAM data



 Patient Narratives

 SAP Insights

 Cognito

 Sherpa

 PIL Generator

 CSR Generator

 DOC AI



Sherpa

Session 1



Seesion 1

 Reset

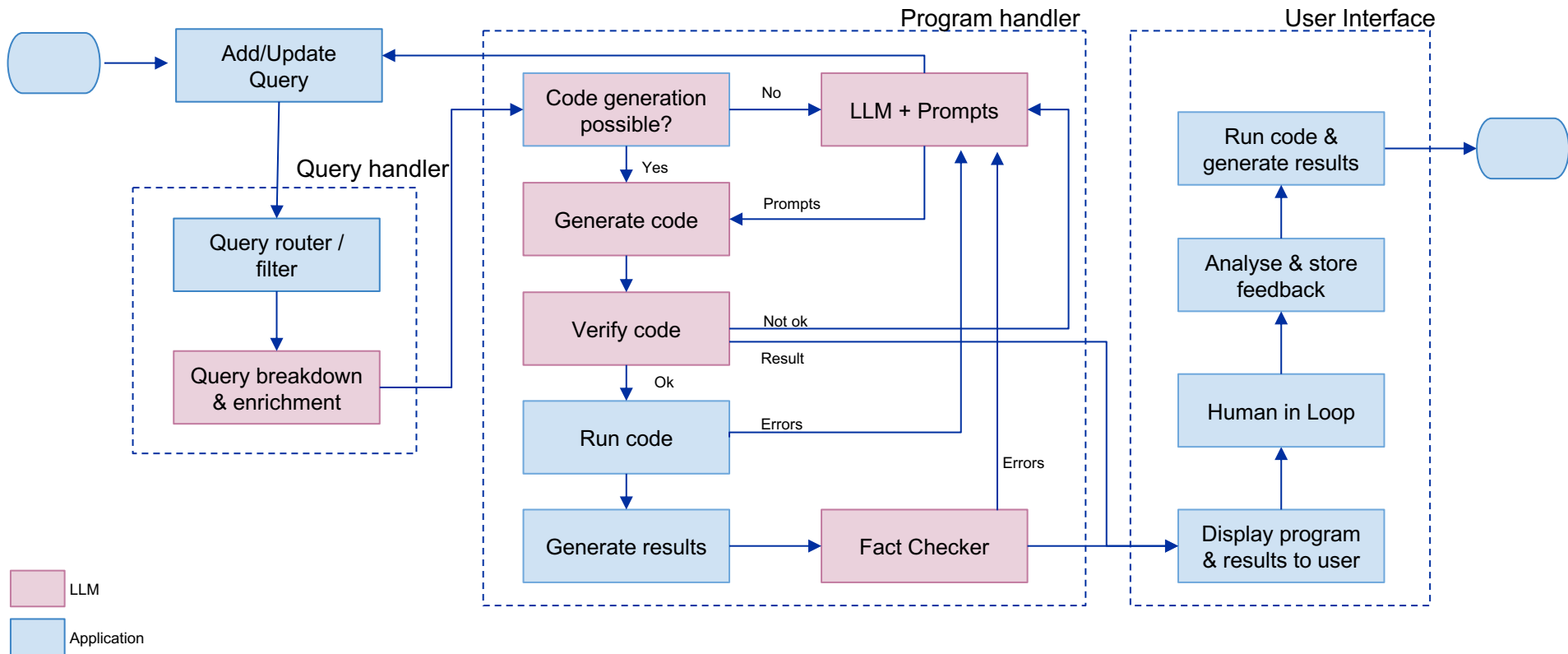
 Export



What are the vital signs recorded in this study?



Application of AI/ML in Ad hoc reporting





Caveats

01

Data Privacy

Ensure strict data anonymization and encryption protocols to protect sensitive information

02

Data Misinterpretation

Conduct thorough validation and verification of the analysis results using domain experts or ground truth data

03

Data Loss

Human intervention via peer review, automated reports to check sources used/unused

04

Data Security

Implement tight security procedures to ensure only required users get access to need-based information



Key takeaways

Time saved

Quicker turnaround times mean quicker decisions



Course Correction

Getting a deeper understanding of data helps course correction



Do-It-Yourself

Reduced dependency on multiple functions



Technology Leverage

Potential to leverage AI/ML at each step of the reporting lifecycle



Future

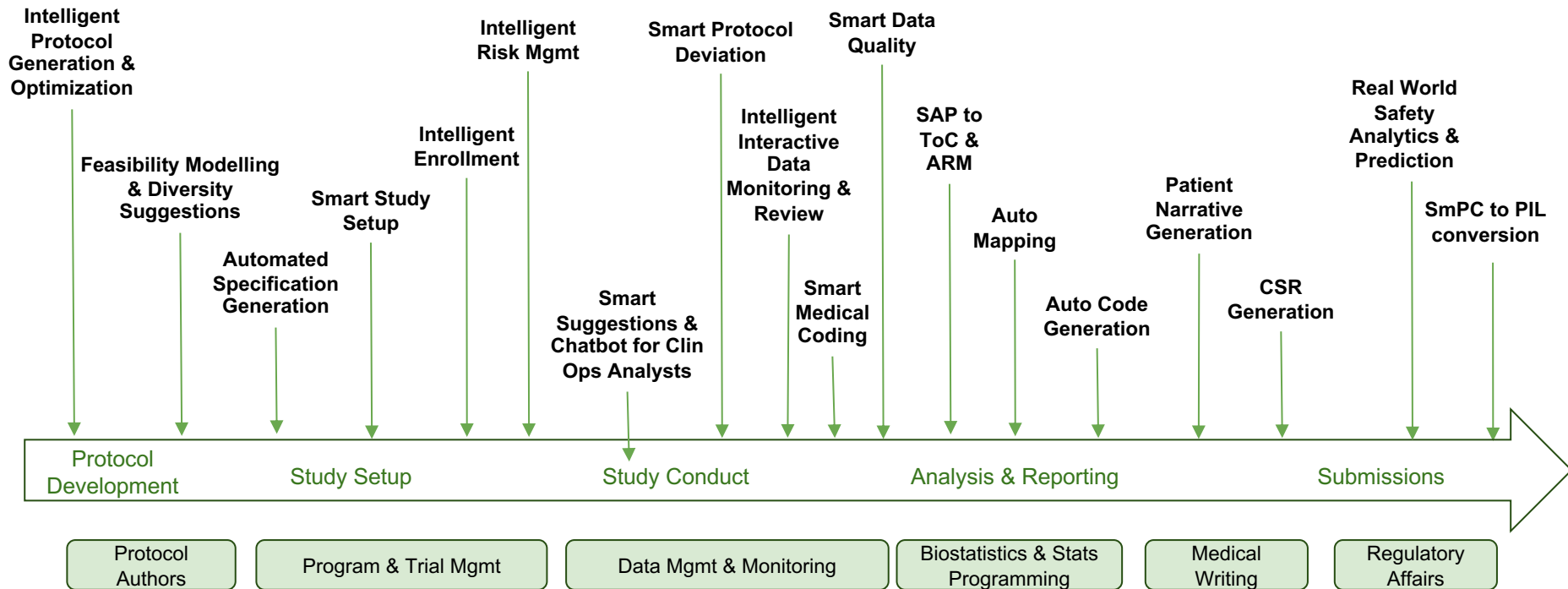
Democratization

Insights for clinicians and for other stakeholders





Saama BRAIN - Shaping the future of submissions



Thank You



**The Global Healthcare
Data Science Community**

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