

ShinyConf 2025

Reviewing Clinical Data Efficiently with Shiny

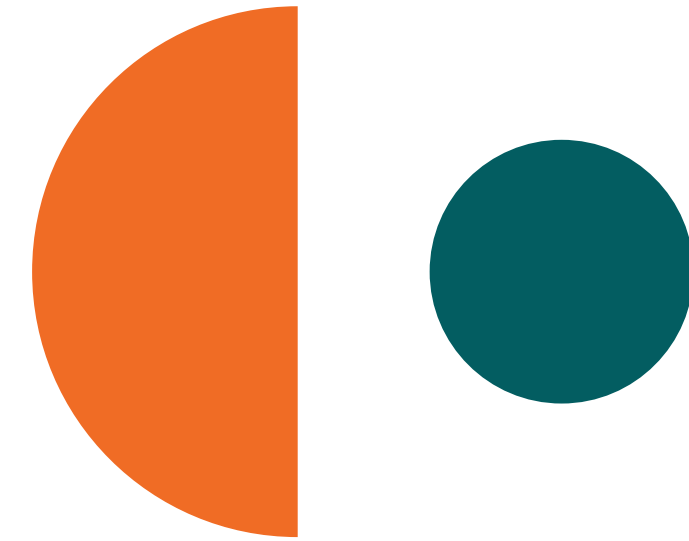
Winkle Lu/Junshi Bio



君实生物

TopAlliance

AGENDA



01 Introduction

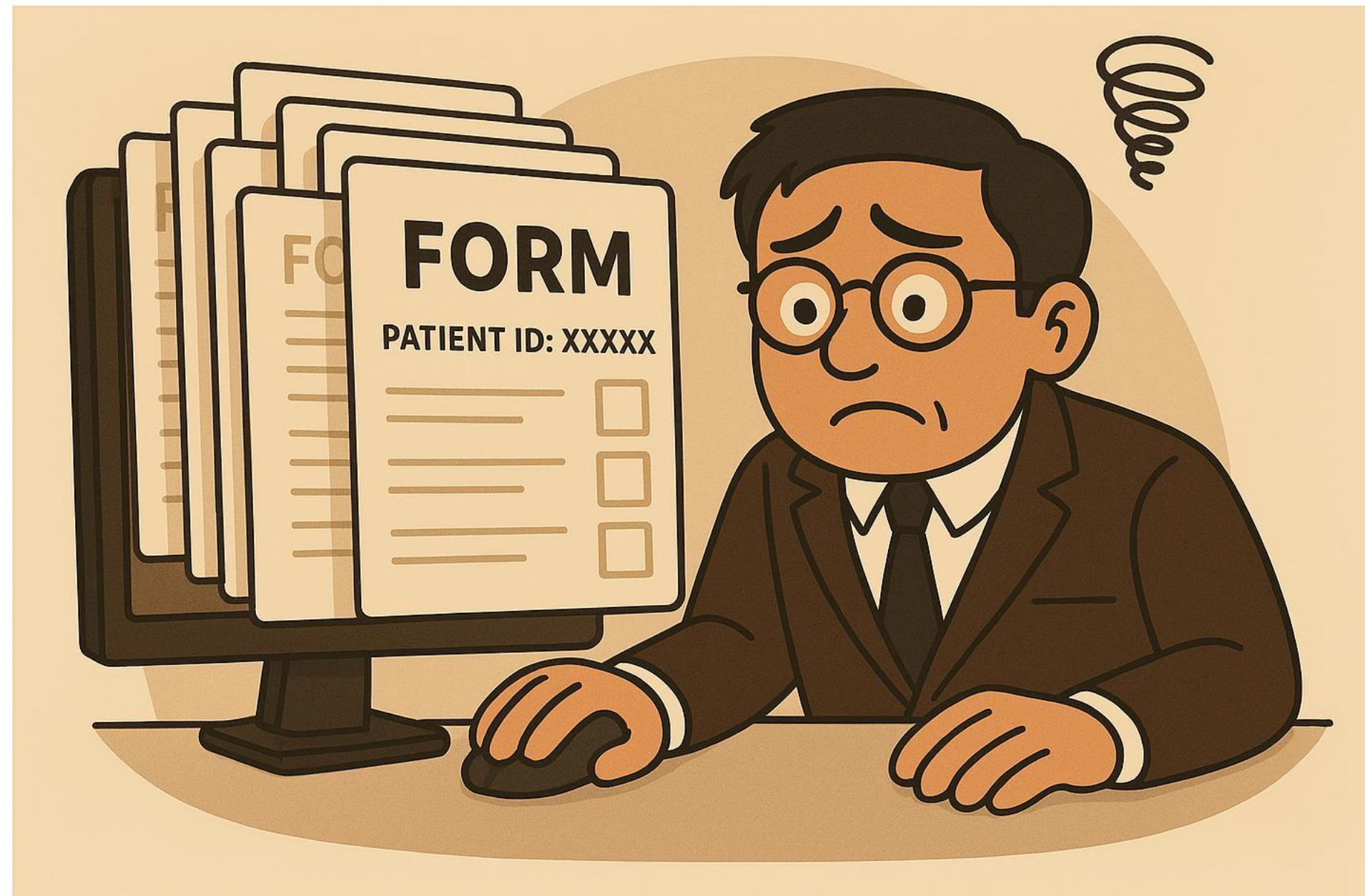
02 Challenges in Clinical
Data Review

03 Design Rationale

04 Demonstration

05 Key Benefits

INTRODUCTION



**CRF: Case Report Form*

**EDC: Electronic Data Capture*

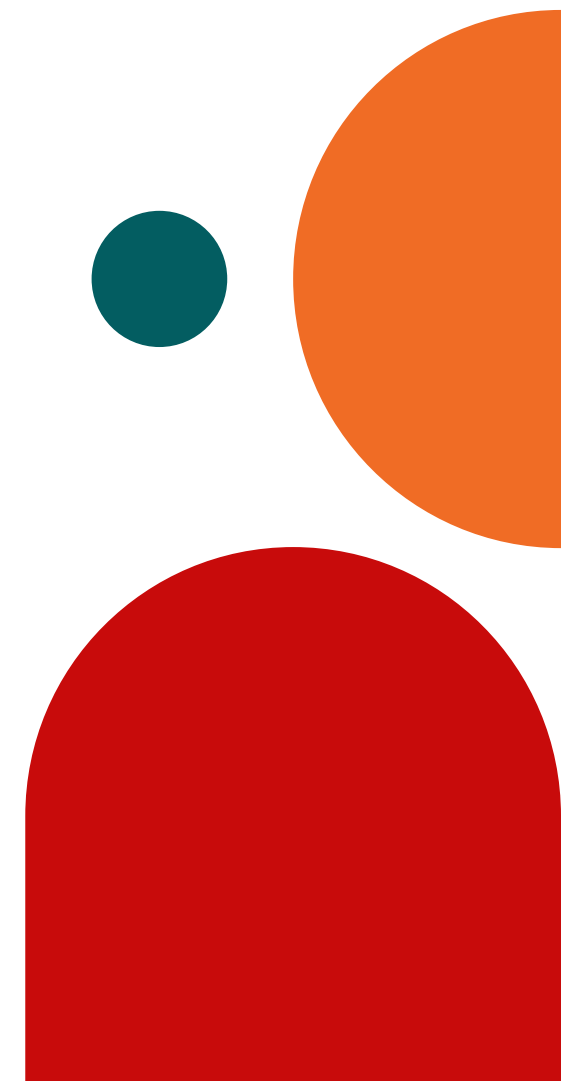
Monitoring clinical data is essential - but often time-consuming

CHALLENGES

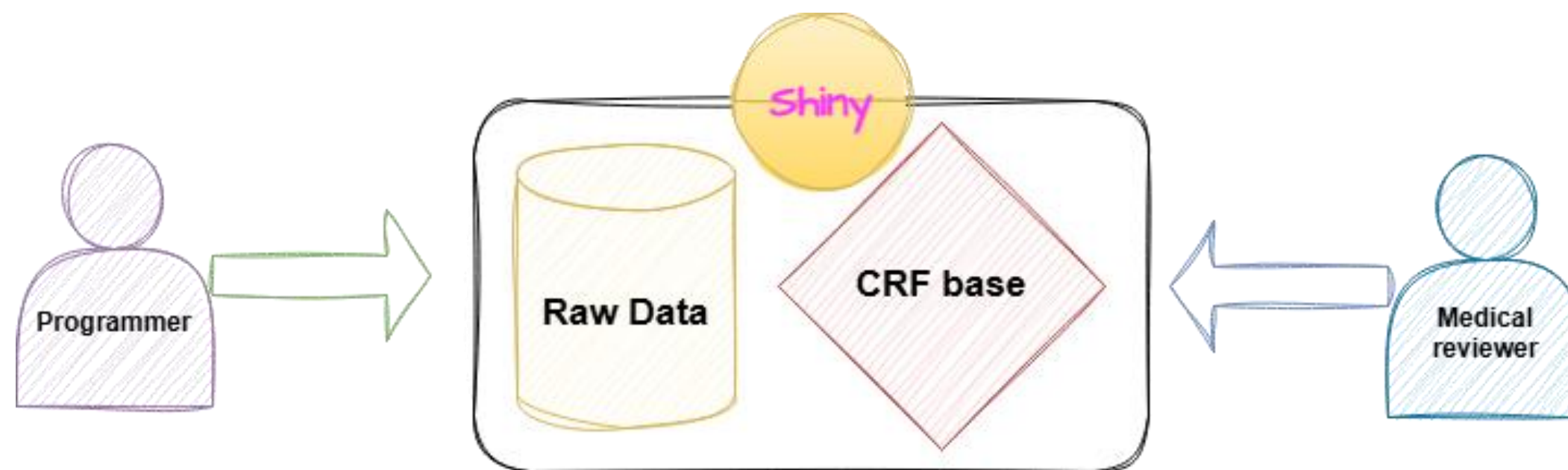
Challenges encountered during monitoring clinical data include:



- 01** Manual Data Review on EDC Takes Time
- 02** Switching Between Forms Adds Complexity
- 03** Communication Gaps Between Reviewers and Programmers



Design Rationale



01 Preserving raw data structure

03 Initial setup is defined by programmers

02 Clinical data review is made simple and intuitive

04 Design with non-programming users

Choose Patients

**Select Dataset &
Variables**

View Output

Demonstration



Clinical Data Viewer

Filter Mode
☒ Patient ID
☐ Form & Variables

Select Patient

001-001

Select Dataset and Variables

Form 1

Source Dataset

Adverse Events (AE) ▾

Anchor Time Variable

AEENDAT ▾

Variables to Display

Form 2

Source Dataset

▾

Anchor Time Variable

▾

Variables to Display

Form 3

Source Dataset

▾

Anchor Time Variable

▾

Variables to Display

Submit

Download Listing as Excel

Key Benefits

- 01 User-friendly interface saves time
- 02 View one or multiple forms at once
- 03 Data listings and charts are displayed together
- 04 Data can be exported to Excel for further use



Contact Information

Email: winklelu1226@gmail.com

Linkedin:  Winkle Lu

Thank you!

