

Single Day Event

AI Query Management Dashboard

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Agenda

- What are Queries?
- Query Management Workflow
- Proposed Workflow
- Dashboard Strategy
- Proposed AI Framework
- AI Dashboard Features for Query Management
- Use case
- Summary
- References



What are Queries?

Queries are inconsistencies found in clinical trial data which need to be corrected as per study protocol.

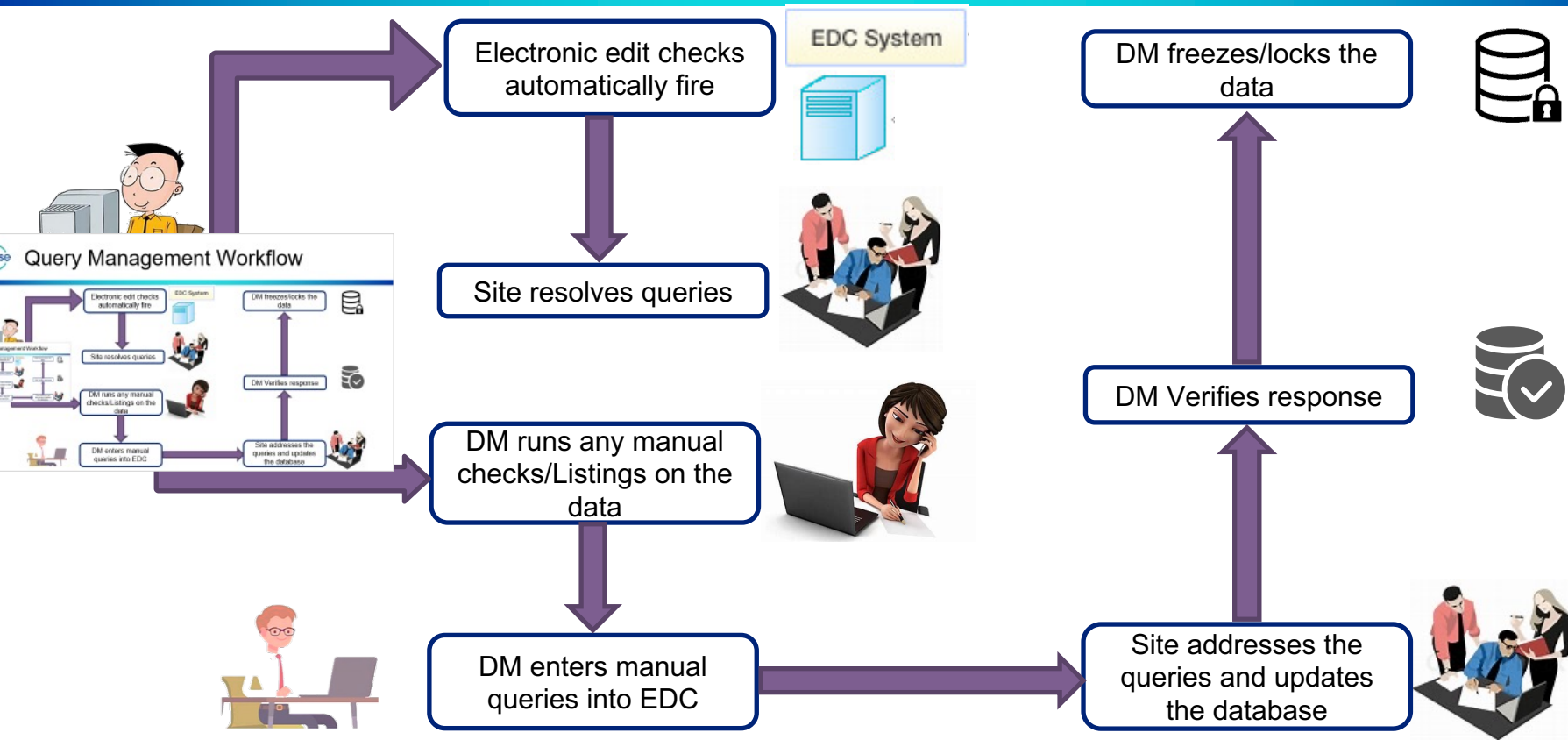
~ 97000

Average # of queries in
Phase 3 Trials

Thousands of queries are raised for every clinical trial and a large amount of time is spent responding to these queries.

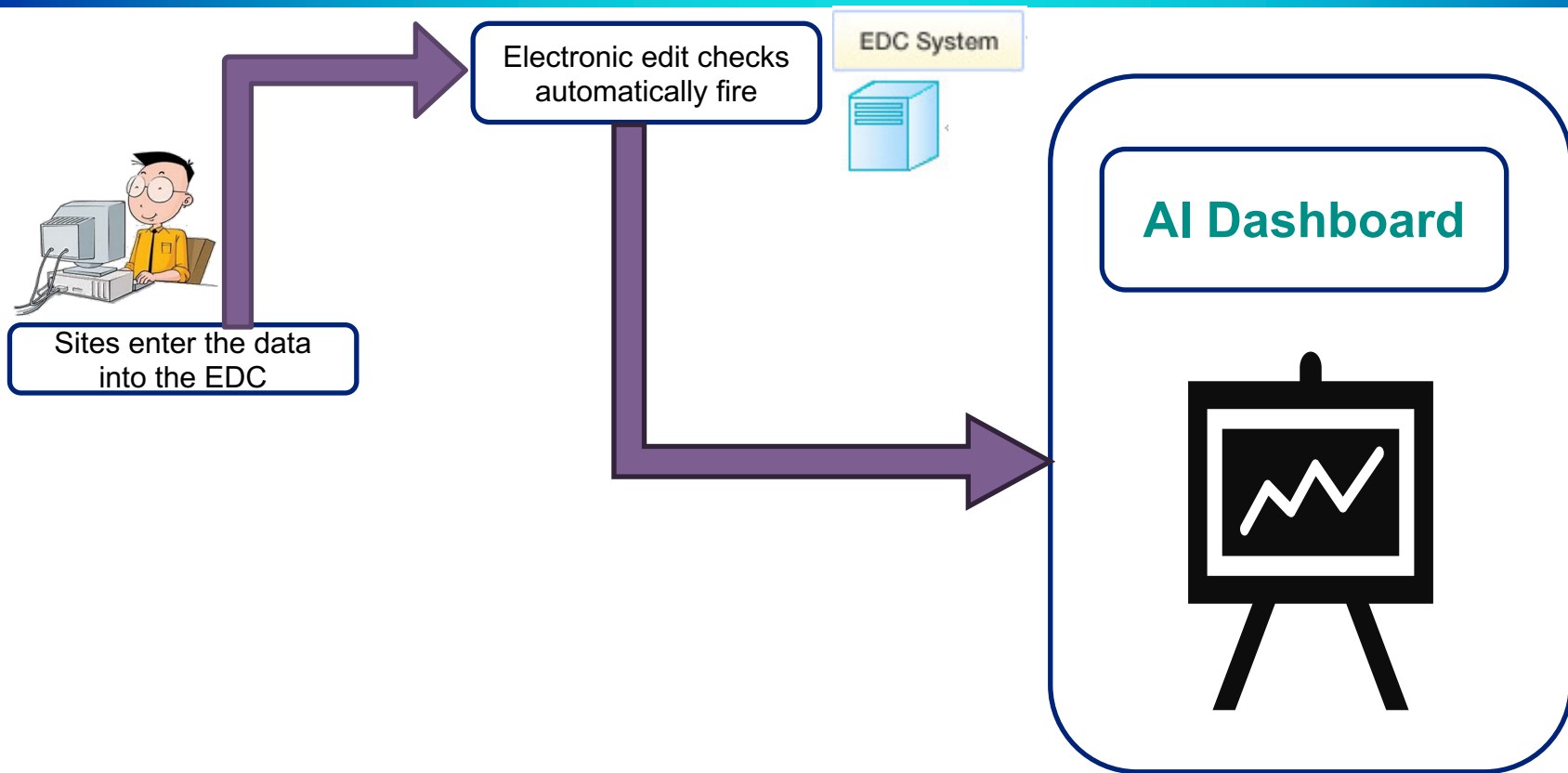


Query Management Workflow



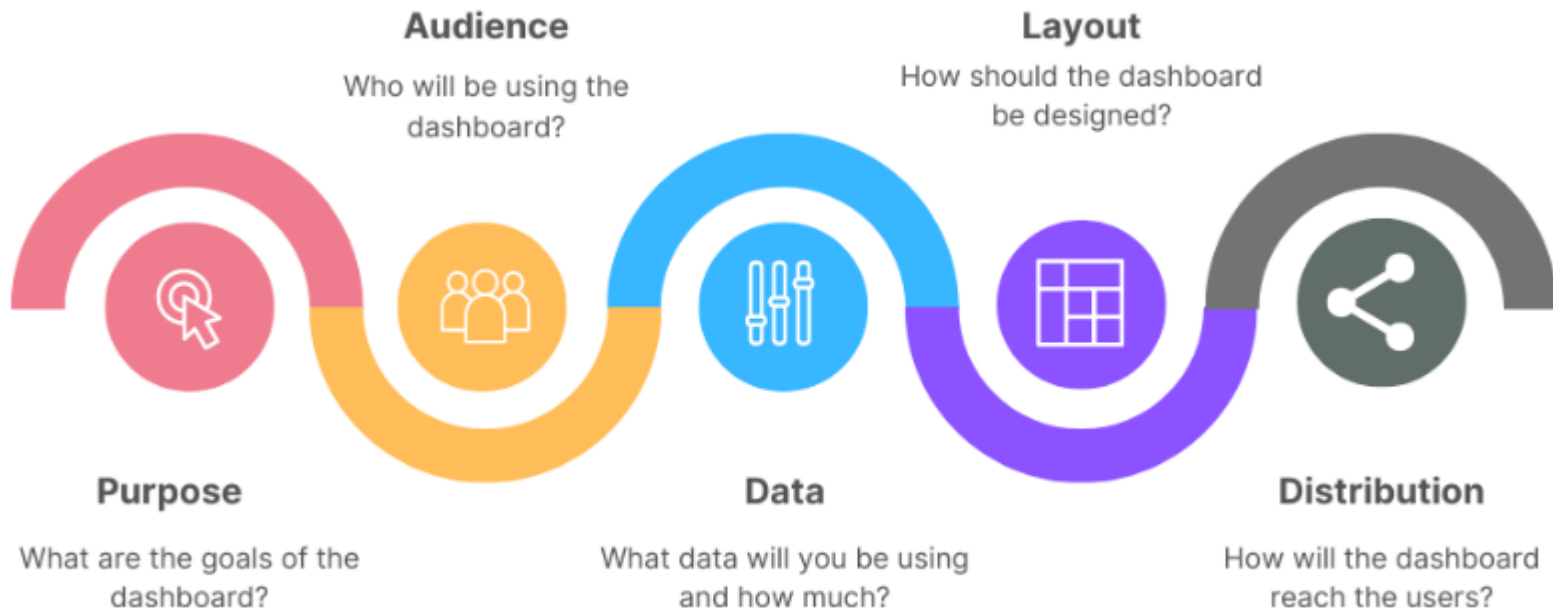


Proposed Workflow



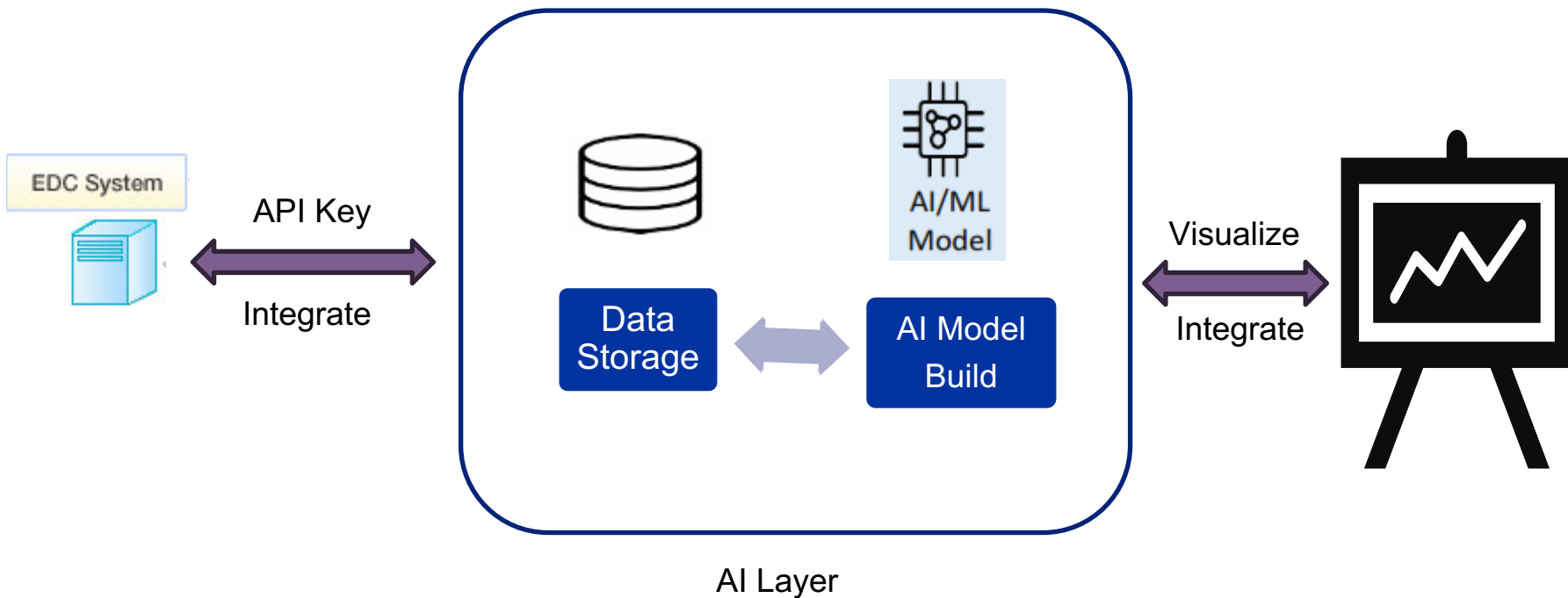


Dashboard Strategy





Proposed AI Framework





AI Dashboard Features for Query Management

Automation of Responses

Visualization of Query Clusters

Enhanced Communication

Root Cause Analysis



Query Grouping and Prioritization

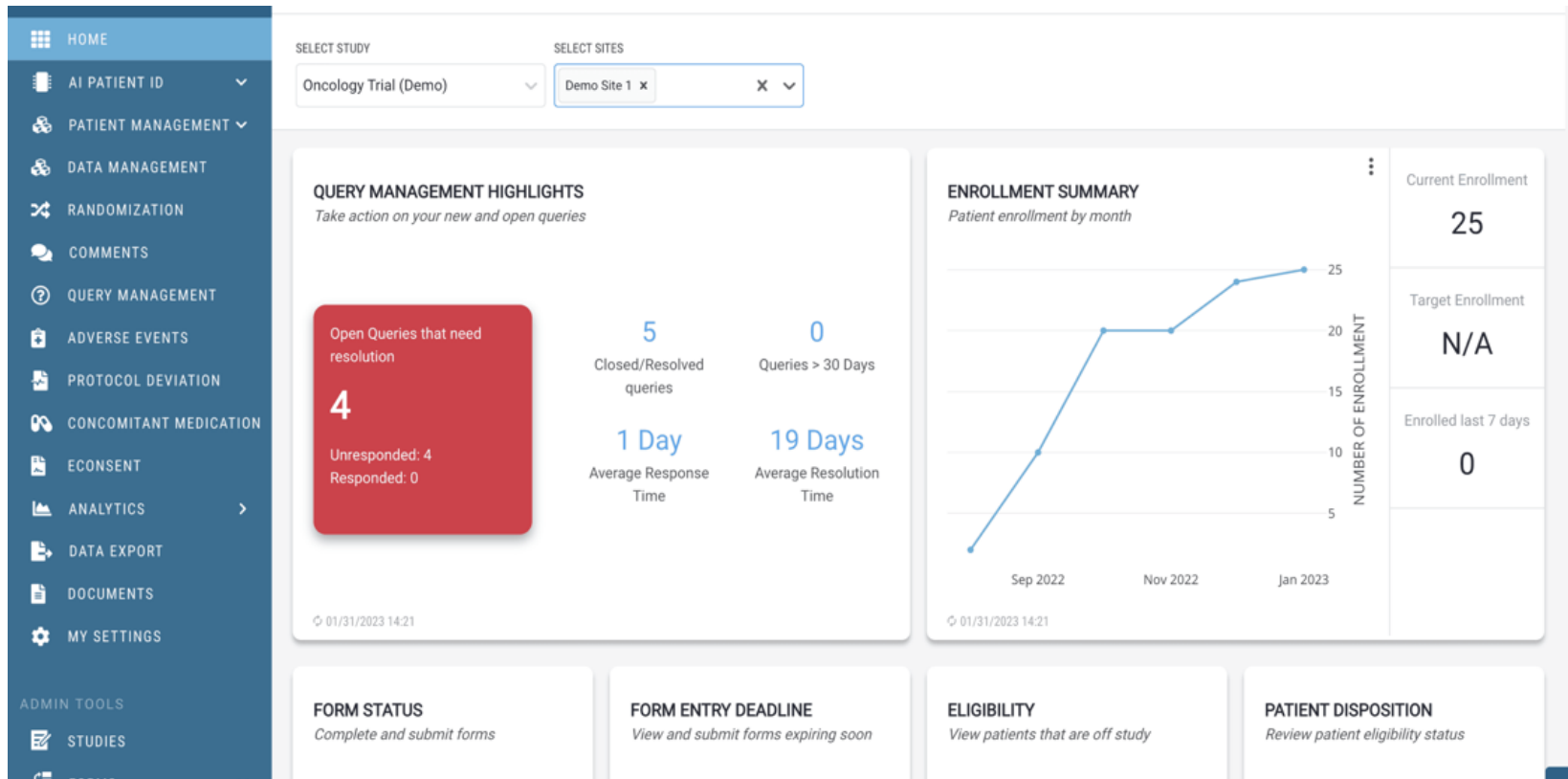
Identifying Data Anomalies

Trend Analysis

Query Resolution Strategies



Use Case





Use Case Cont.

HOME

AI PATIENT ID

DATA MANAGEMENT

RANDOMIZATION

COMMENTS

QUERY MANAGEMENT

ADVERSE EVENTS

PROTOCOL DEVIATION

CONCOMITANT MEDICATION

ECONSENT

ANALYTICS

DATA EXPORT

DOCUMENTS

MY SETTINGS

ADMIN TOOLS

STUDIES

FORMS

TREATMENTS

SITES

PHYSICIANS

SELECT STUDY

Oncology Trial (Demo)

SELECT SITES

Demo Site 1

SELECT TREATMENTS

Select Treatment

SELECT FORMS

Select Form

MAIL

QM SUMMARY

#Open/Unresolved queries

4

Unresponded: 4

Responded: 0

#Closed/Resolved queries

5

#Queries Older Than 30 Days

0

Avg. Response Time (days)

1

Avg. Resolution Time (days)

1

PATIENT ID

QUERY DATE

STATUS

ASSIGNEE

FILTER

SEARCH

Unique Patient ID #

Start d... ~ End da...

?

?

?

Select Assignee...

Select Status...

Question,

SEARCH

CLEAR

☐	PATIENT ID	FORM/PAGE/TREATMENT	QUESTION	TYPE	ADDED BY	ASSIGNED TO	UPDATED RESPONSE	APPROVED BY	STUDY	SITE	TREATMENT	QUERY STATUS
☒	100102	Pre-Operative Imaging Information	2. Type of Imaging	Field	Priya Meghrajani	AM Testing			Oncology Trial (Demo)	Demo Site 1	Control Arm (Demo Trial)	Open
☒	100102	Control Arm (Demo Trial)		Treatment	Anh Dung Nguyen	Anh Dung Nguyen			Oncology Trial (Demo)	Demo Site 1	Control Arm (Demo Trial)	Rejected
☒	100102	Day 0	4. Dosage Rate	Field	Priya Meghrajani	Anna Aquino	05		Oncology Trial (Demo)	Demo Site 1	Control Arm (Demo Trial)	Open



Use Case Cont.

Smart Data Quality: Automated data review process

3 min

To review and approve
AI/ML-generated query



2,615
Queries



130
Hours

16
Days

1
Resource

Traditional: Manual data review process

27 min

To manually review and
write a query



2,615
Queries



1,777
Hours

47
Days

3
Resources



Summary

- Eliminate process of raising queries manually using listings.
- Integrating intelligent tools directly into clinical workflows, optimizes efficiency and efficacy.
- Quality and Turn Around Time.
- Raising queries domain wise in bulk rather than subject wise.



References

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- [https://acdmconference.org/wp-content/uploads/formidable/38/1.4-New-and-Emerging-Technologies Prabha-M-and-Jesika-V_ACDM_Updated-14-Mar.pdf](https://acdmconference.org/wp-content/uploads/formidable/38/1.4-New-and-Emerging-Technologies_Prabha-M-and-Jesika-V_ACDM_Updated-14-Mar.pdf)
- <https://www.datacamp.com/tutorial/create-excel-dashboards-tutorial>
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Thank you!



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Data Science Community**

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