

Enhancing Stakeholder Accountability Involvement through Technological Advancement

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Abstract

To ensure a successful clinical trial, effective onboarding and support of all stakeholders throughout various phases is crucial. This process should begin with a quality-by-design strategy during trial setup. Stakeholders require access to real-time information and motivation to collaborate across skill areas. Success stories at every stage are vital, achievable through thorough planning. Traditionally, various tools and systems, including Excel, have limited real-time monitoring and proactive engagement. In response, we developed an interactive Power BI dashboard that visualizes task timelines, responsible stakeholders, and milestone progress. This dashboard includes dynamic filtering and clear visual cues, allowing teams to quickly identify delays. Additionally, a Power Automate feature sends reminder emails five days before each task starts, addressing previous issues with missed reminders. This solution enhances visibility, accountability, and timely execution of setup tasks, ultimately improving operational efficiency and data management quality.

1. Introduction

Clinical trial setup requires coordinated efforts across multiple functional stakeholders. Timely execution during this phase depends on clear task ownership, effective communication, and proactive monitoring. Gaps during setup may impact downstream trial timelines.

2. Problem Statement

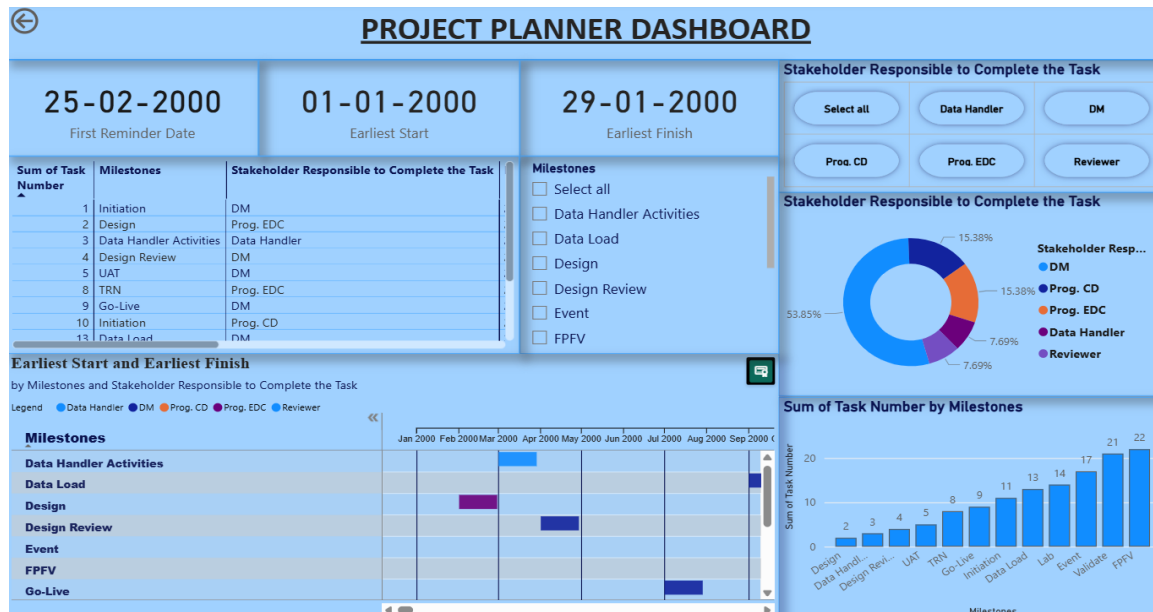
Planning activities are often managed across multiple tools and systems, limiting real-time visibility and requiring manual follow-ups. Missed reminders and lack of centralized ownership tracking can lead to delays during trial setup.

3. Solution Overview

An integrated solution was developed to centralize visibility of setup activities, improve stakeholder accountability, and reduce reliance on manual tracking. The solution combines visual dashboards with automated notifications to support proactive execution.

4. Dashboard Design and Functionality

The dashboard visualizes task timelines, milestones, and responsible stakeholders. Dynamic filters enable focused review, while automated notifications support timely task initiation.



4.1 Stakeholder Project Planning Dashboard

5. Results and Impact

The implementation improved real-time visibility, strengthened accountability, and supported timely execution of setup activities. Manual follow-ups were reduced, and potential delays were identified earlier.

6. Discussion and Lessons Learned

Early stakeholder alignment and clear ownership were critical to adoption. Visual dashboards proved more effective than static trackers, and automation helped address missed reminders.

7. Conclusion

This approach demonstrates how technology-enabled solutions can improve operational efficiency and stakeholder engagement during clinical trial setup.

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