Omega Healthcare

Health Data Solutions

Data You Can Trust: Visualizing Quality Analytics in Cancer Registry

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Introduction

Cancer registry data serves as an essential foundation for understanding cancer incidence, treatment patterns, and quality of care across the United States. At the facility level, clinicians, administrators, and multidisciplinary teams rely on registry data to make evidence-based decisions - but only when they trust its accuracy. For one of Omega Healthcare's largest clients, a multistate hospittal system, building trust depended on clearly communicating the rigor and results of our quality assurance (QA) processes.

Discussion

Omega Healthcare uses a proactive approach to building trust in cancer registry data with interactive QA dashboards that are used to visualize QA processes and analyze the results.

Designing the QA Dashboard was a collaborative process inclusive of all stakeholders from Omega Healthcare and our client. Criteria included: not adding time to existing workflows, easy to understand and use, updating automatically, and providing relevant metrics.

By selecting pre-built reports and using slicers and filters, users can quickly and easily obtain data for all identified use cases. In addition to providing transparency around our >95% abstracting quality score, users can explore trends by facility, abstractor, primary site, data element, and more.

Data gathered in MS Excel during routine workflows and updated nightly power the dashboard. Abstractors are assigned cases via spreadsheets generated from the registry database source that they update as they complete work. Auditors performing inter-rater reviews document their findings on worksheets that are used to directly communicate feedback and are aggregated in the dashboard.

Registry managers use the snapshot of top 10 errors made shown in Figure 3 to guide continuing education planning and delivery. This data-driven approach is highly effective in improving quality scores.

Graphics / Charts

Figure 1: The QA Dashboard Landing Page. Users navigate to the pre-built report they need with a single click.



Figure 2A: Month-over-month performance of the team across the duration of the project.

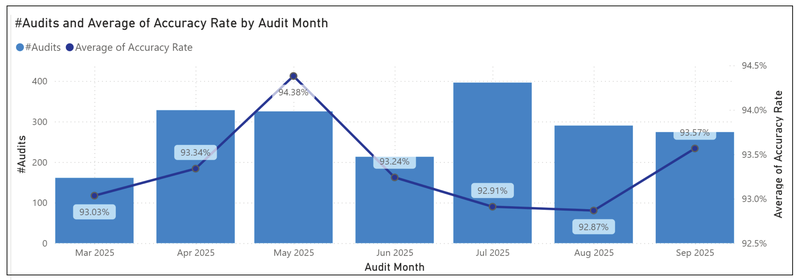


Figure 2B: Overall project performance by individual ODS team members.

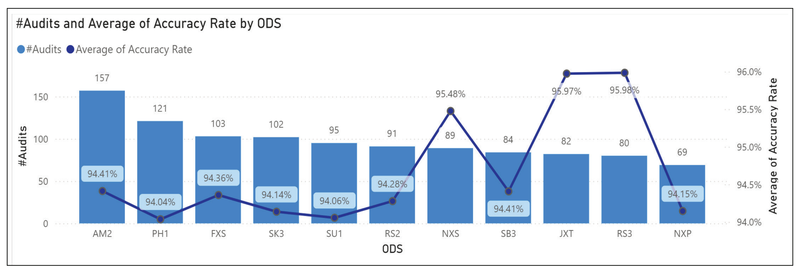
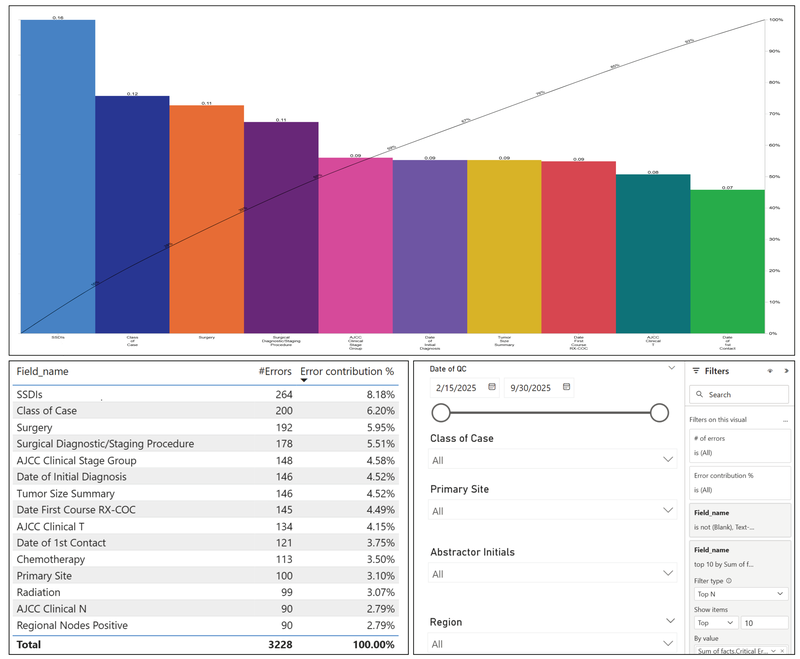


Figure 3: Pareto chart showing top 10 errors. Easily accessible slicers and filters shown at bottom right.



Conclusions

This approach to dashboard development is accessible to any hospital using Microsoft tools and a knowledgeable IT department.

Immediate ROI in the form of time savings are realized with the ability to create cancer committee reports, performance evaluations, QBR slides and more with a few mouse clicks.

Likewise, quality scores improve with targeted education, which further reduce the amount of rework needed to maintain research-ready data.

By gathering input from stakeholders and integrating the dashboard into existing workflows, data becomes accessible and useful - becoming a trusted source of truth.

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