

CTMS Optimization: A Tale of One Platform, Three Clinical Sites, and One Combined Dataset to Improve Trial Activation, Portfolio Management, and Clinical Trials Reporting

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Background

The Lombardi Comprehensive Cancer Center (LCCC) consists of three clinical sites.

Managing harmonized consortium-wide metrics, to measure progress and guide operational decision making for LCCC, requires entering and accessing clinical trials data in two separate accounts from a single CTMS vendor, OnCore. Previously, each site manually generated single-site reports, which were collated, in order to present consortium-wide metrics. To standardize consortium operations, LCCC set consortium-wide data entry and quality assurance practices and data locks to ease the issuance of metrics.

Goals

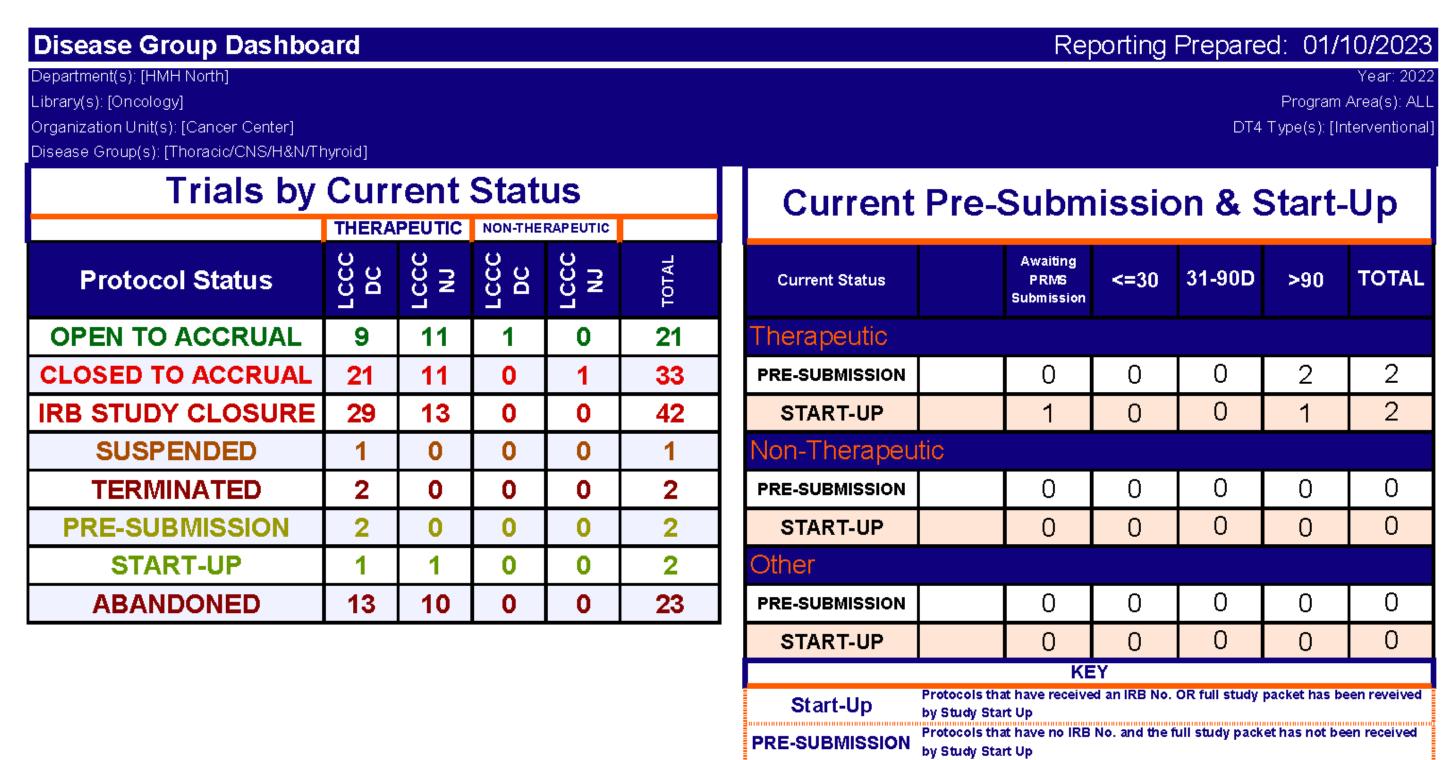
The CTMS Optimization Project goals included:

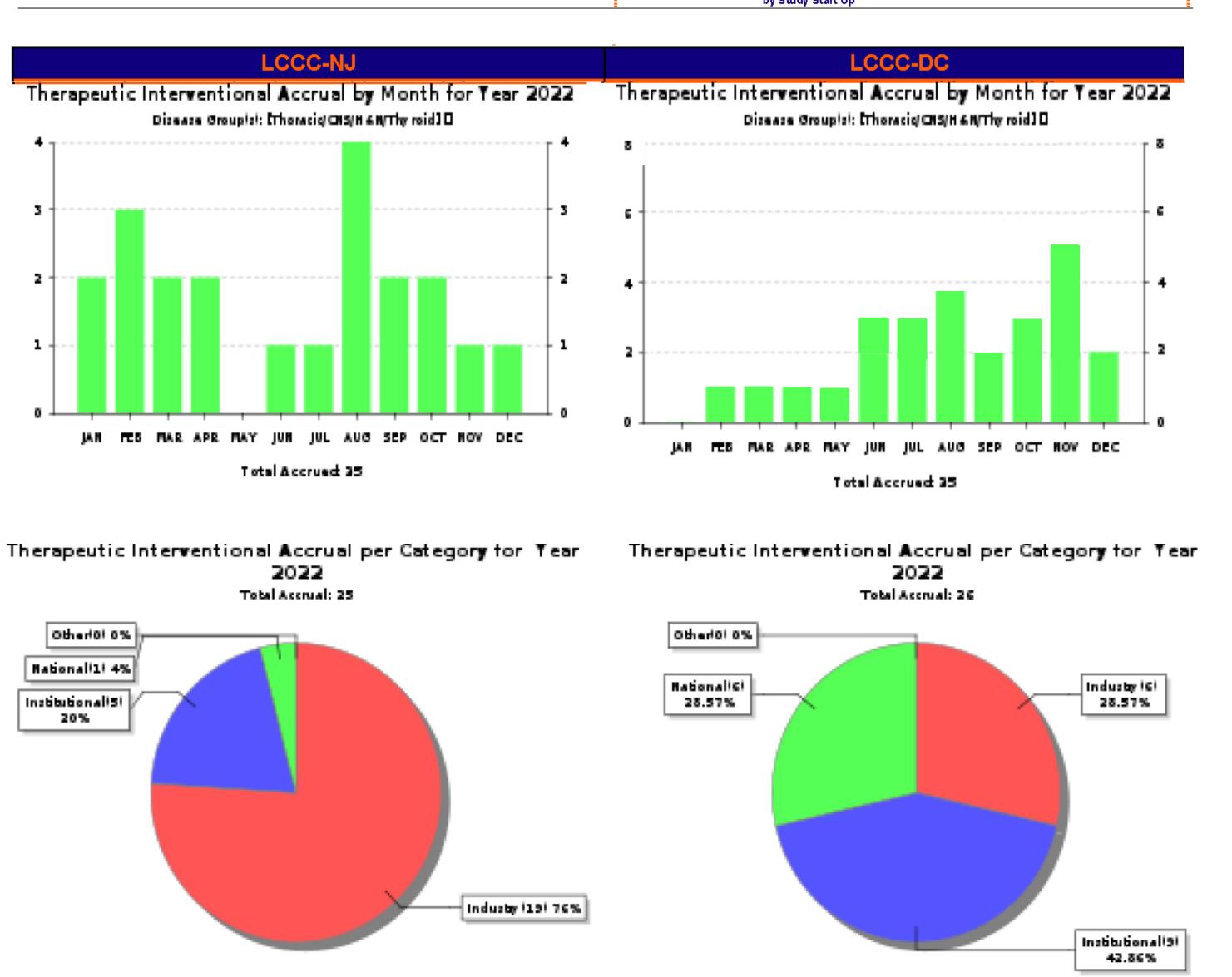
- Provide at-a-glance metrics via dashboards to LCCC Leadership, Clinical Research (CR) Leadership, and Disease Group (DG) Leaders
- Increase efficiency and accuracy of LCCC consortium reporting, measured by a decrease in the person-hours required to provide reports and reproducibility of clinical trials metrics across the consortium
- Harmonize operations across the institutions (e.g., eCRF validation, standardized reporting intervals, monitoring plan)
- Ensure portfolio management via disease group and PRMC activities (e.g., dashboards, reports) and prioritization of Institutional, multi-Institutional, and National protocols to shift protocol portfolio in alignment with NCI expectations

Solutions & Methods

- . Determine and implement predictable reporting cadence with standardized dashboards and reports
- 2. Deploy TIBCO Jaspersoft Studio to create custom coded reports in Java/XML/SQL with dynamic visualizations benchmarked against NCI standards
- 3. Distribute pilot reports displaying pipeline activity, time to activation, accruals trends, and portfolio composition to LCCC stakeholders
- 4. Establish continuous process improvement to ensure relevance
- 5. Solicit stakeholder feedback for additional improvements.

Dashboard Components





🎒 Industry 🔵 Institutional 🦲 Rational 🦲 Other

Report Keys

Current Pipeline Overview Key

- Completed within intended completion window.
- Completed not within the intended completion window.
 - Started and still within the completion window.
- Started and exceeds the intended completion window.
- Not Started. Protocol has not been submitted to PRMS.
- Not Applicable: One task or multiple tasks have been marked as NA in the task list.

Milestone Completion Windows

- 60 PRMS (Days)
- 0 Budget (Days)
- 90 Contract (Days)
- 90 IRB (Days) 20 Overall (Days)

Accrual Progress Key

OPEN TO ACCRUAL AND no enrollment in the last 6 months and < 40% target accrual reached, no enrollment in the last 12 months OR no enrollment life to date

OPEN TO ACCRUAL AND < 40% target accrual reached and enrollment in the last 6 months OR >=40% target accrual reached with 0 enrollment in the trailing 6 months

OPEN TO ACCRUAL AND >=40% target accrual reached and active enrollment within the last 6 months

Date Parameters:

MTD = From 12/01/2022 to 12/31/2022

YTD = From 01/01/2023 to 12/31/2022

Outcomes

- LCCC/CR Leadership & each DG received ata-glance quick reference dashboards & reports
- Saved > 200 person-hrs via coding/ automation
- Condensed monthly report of >80 files
- Provided customized reports to accurately & efficiently capture data across OnCore
- Benchmarked data visualization against NCI expectations for trial activation & accruals
- Increased efficiency & decreased error for PRMC Scientific Progress Review Committee via auto-populated agenda from custom report

Lessons Learned

Gap in services provided by Advarra for managing clinical trials data for NCI-designated Comprehensive Cancer Centers. Bridging the gap with internal solutions allowed LCCC to provide consolidated consortium reports and dashboards to LCCC and CR Leadership, along with DG Leaders – an essential component to assessing progress and tracking activity.

Future Directions

- 1. Deploy consortium-wide task lists to capture additional data points,
- 2. Code customized monthly reports & upload to cloud environment to feed interactive dashboard run via automated coding,
- 3. Conducting feasibility review to determine automated data transfer to fully automate real-time dashboards for consortium-wide access.

Contact

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