

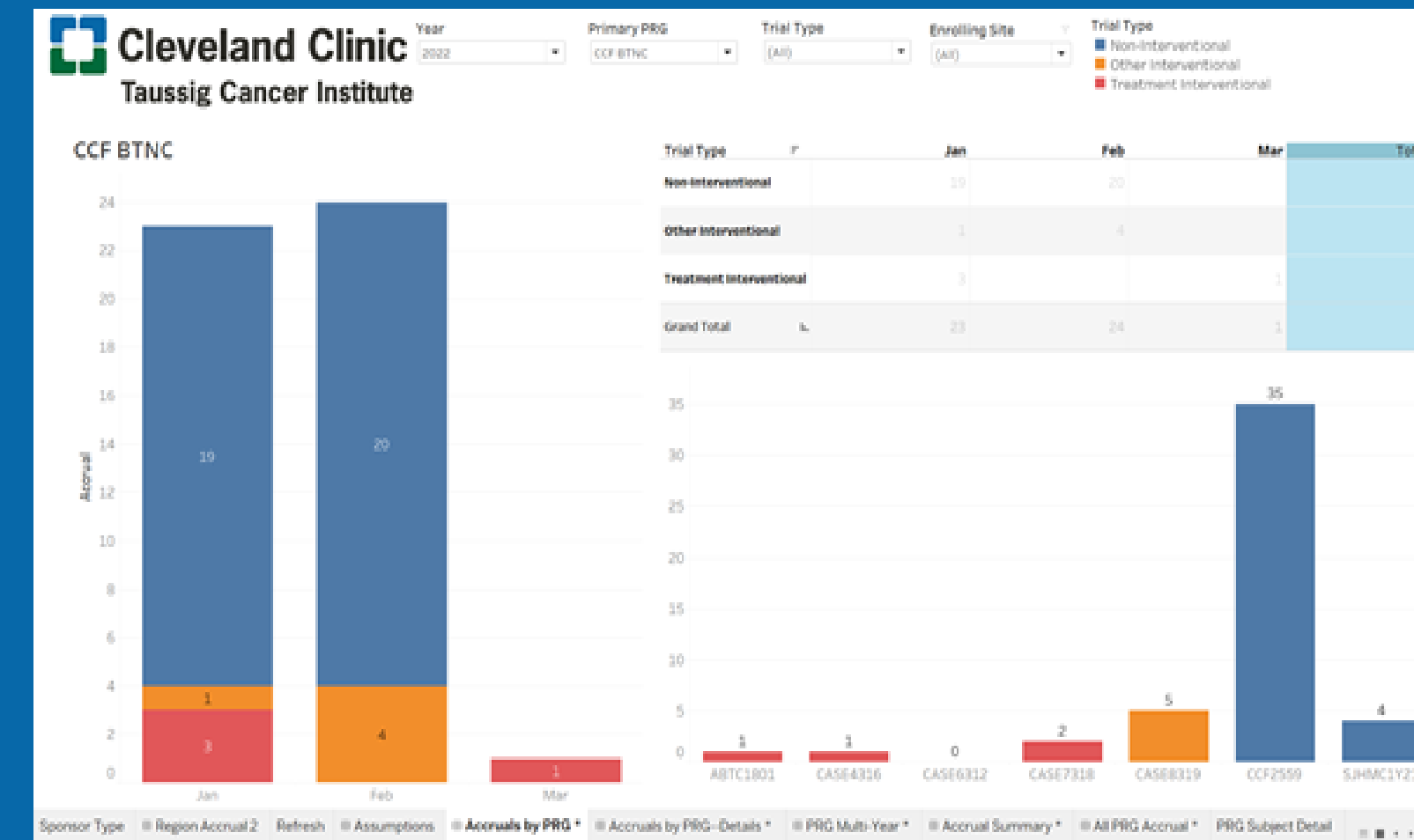
Automated Reporting for Clinical Trial Operations

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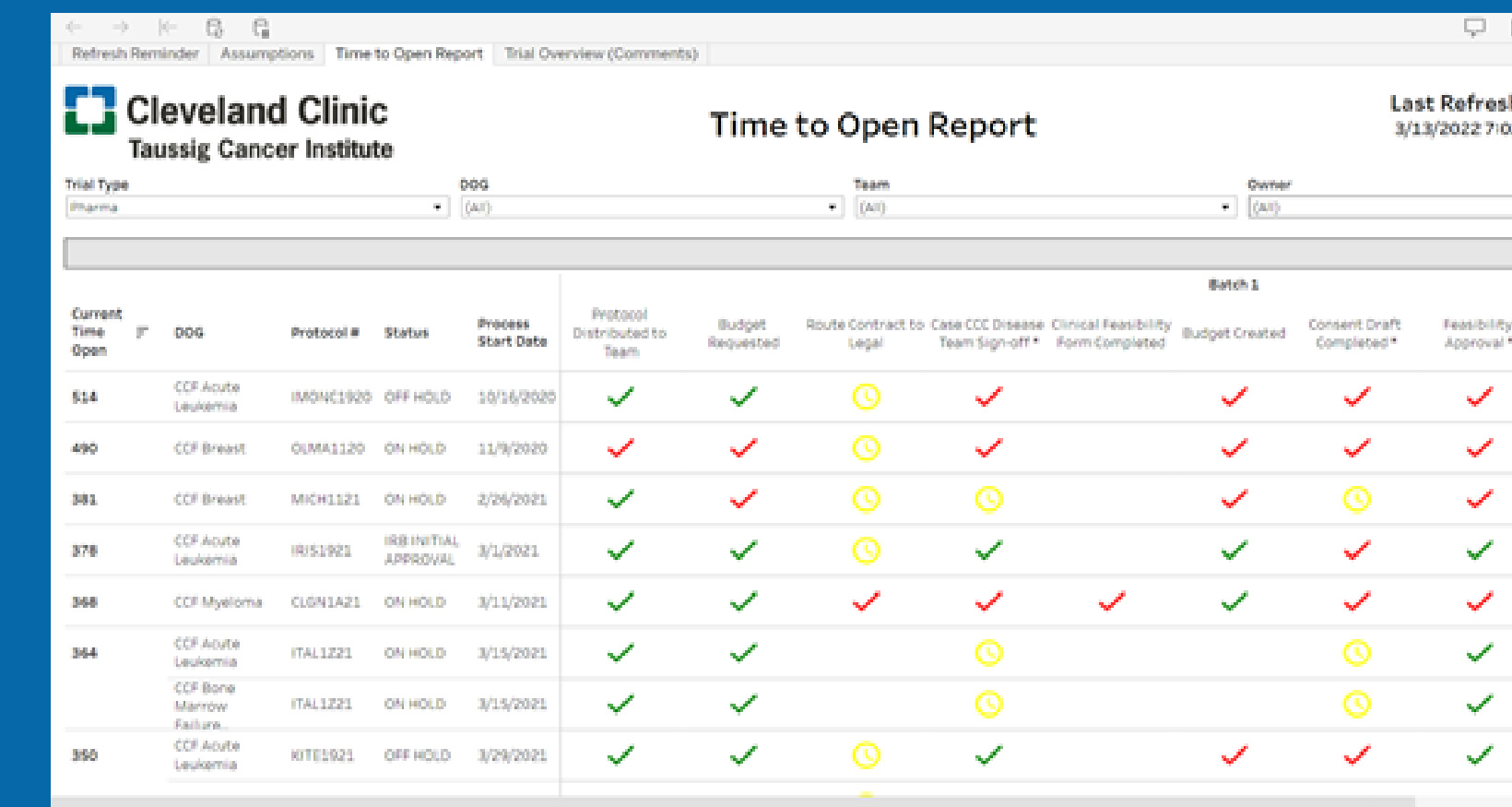
Background:

Day to day operations of a cancer center requires leveraging multiples sources of data from multiple systems. Data such as clinical trial accrual, startup tasks and timelines, and protocol and subject deviations must be visible and accessible. Taussig Cancer Institute manages research operations across 12 different sites in northeast Ohio and Florida, with trials conducted across 18 Program Research Groups (PRGs), running 239 active Interventional trials (as of March 2022). Previously, reports were generated manually, either on a monthly or ad hoc basis. Automated reporting allows us to view critical operational data in real time.



Goals:

- Provide Cancer Center leadership and management accurate and up to date metrics for clinical trial operation, including tracking accruals, startup times, and deviations
- Increase efficiencies with regards to trial oversight and regulatory management
- Insure quality of trial data captured for NCI and other reporting purposes
- Free up time and resources for our Research Informatics team



Current Time Open	IDG	Protocol #	Status	Process Start Date	Protocol Distributed to Team	Budget Requested	Route Contract to Legal	Case CCC Disease Team Sign-off*	Clinical Feasibility Form Completed	Budget Created	Consent Draft Completed*	Feasibility Approval*
514	CCF Acute Leukemia	IM0N1900	OFF HOLD	10/16/2020	✓	✓	⚠	✓	✓	✓	✓	✓
490	CCF Breast	QUM1120	ON HOLD	11/9/2019	✓	✓	⚠	✓	✓	✓	✓	✓
381	CCF Breast	M1K1121	ON HOLD	2/26/2021	✓	✓	⚠	⚠	✓	✓	⚠	✓
378	CCF Acute Leukemia	HR15101	HSB INITIAL APPROVAL	3/1/2021	✓	✓	⚠	✓	✓	✓	✓	✓
368	CCF Myeloma	CL0K1421	ON HOLD	3/11/2021	✓	✓	✓	✓	✓	✓	✓	✓
364	CCF Acute Leukemia	IT111221	ON HOLD	3/15/2021	✓	✓	⚠	✓	✓	✓	⚠	✓
	CCF Bone Marrow Failure	IT111221	ON HOLD	3/15/2021	✓	✓	⚠	✓	✓	✓	⚠	✓
350	CCF Acute Leukemia	H1E1521	OFF HOLD	3/29/2021	✓	✓	⚠	✓	✓	✓	✓	✓

Data is primarily housed in the OnCore clinical trial management system. Oracle SQL is used to query the data, and the data is visualized using Tableau.

Currently we have automated three different reporting processes:

- Time to Open: Using the OnCore Tasklist functionality, we track designated milestones in the pending trial start up process. Teams review this data and are able to highlight barriers and holdups in the process
- Deviations: Protocol and Subject level deviations are tracked within OnCore, and the data can be reviewed in individual PRG meetings and in a monthly compliance meeting
- Accrual: Clinical trial accrual is tracked in near real time, by PRG and broken down by enrolling site and trial type

Both accrual and deviation reports have resulted in significant time savings (15 hours per month for accruals, 8 hours for deviations)

Lessons Learned and Future Directions:

Being a matrix style Comprehensive Cancer Center (in collaboration with Case Western Reserve University and University Hospitals Cleveland), we found it difficult to report out data pertaining only to Taussig, and existing applications did not fill this gap. Our automating processes have allowed us to generate data relevant to Taussig Clinical Trial Operations only.

Adding visibility to the data has highlighted the need for rigorous QA of data entered into OnCore, and we will be expanding our efforts here.

Moving forward we will continue to develop additional reports and visualizations, including expanding our trial startup analysis, PRG specific dashboards and metrics, and tracking compliance and monitoring results for internal Investigator Initiated trials.