# Comparison of Protocol Review and Monitoring System (PRMS) Operations at a Standalone Versus a Matrixed Cancer Center

B. Benson<sup>1</sup>, B. Stevens<sup>1</sup>, K. Van Abel<sup>1</sup>, S. Hanley<sup>2</sup>, X. Lekperic<sup>2</sup>, K. Napolitano<sup>2</sup>, D. Rathkopf<sup>2</sup>

<sup>1</sup>Mayo Clinic Comprehensive Cancer Center, <sup>2</sup>Memorial Sloan Kettering Cancer Center

## 1. Background

- The National Cancer Act of 1971 formalized the National Cancer Institute (NCI) as an operating division within the National Institutes of Health.
- This paved the way for the current 72 NCI-Designated Cancer Centers across the U.S, who earn and maintain designation by meeting requirements for the NCI P30 Cancer Center Support Grant (CCSG).
- Among the first to receive this designation were Memorial Sloan Kettering Cancer Center (MSK) in 1971 and Mayo Clinic Comprehensive Cancer Center (MCCCC) in 1973.
- To maintain this designation, each center must assure rigorous scientific oversight of all cancer clinical trials via a structured Protocol Review and Monitoring System (PRMS), a core component of CCSG guidelines since 2014.
- While MSK operates as a standalone center and MCCCC functions as a matrixed center within the Mayo Clinic, both centers maintain structured PRMS workflows.

#### 2. Goals

To compare PRMS operations and CCSG guideline interpretations between MSK and MCCCC, identifying operational similarities, differences, and opportunities for collaboration to enhance PRMS effectiveness.

## 3. Solutions and Methods

- PRMS staff from both centers formed a working group.
- Weekly meetings and a shared document facilitated detailed workflow comparison.
- Initial discussions consisted of comparing institutional structures (standalone versus matrixed).
- Comparisons were structured using core PRMS focus areas identified by the group:
  - 1. Organization and Support Structure
  - 2. Prioritization
  - 3. Stage 1 Review
  - 4. Stage 2 Review
  - 5. Performance Monitoring
  - 6. Technology Leveraged

### 4. Outcomes

- The working group created a network between the centers, fostering ongoing collaboration and strategic alignment in PRMS operations.
- We facilitated knowledge sharing by discussing workflows related to CCSG guideline interpretation and generated a comparative table (Table 1) across the focus areas resulting in shared insights:
  - Differences in reporting and organizational structures reflect the inherent differences between matrixed and standalone centers.
  - Both rely on disease experts to prioritize trials to manage portfolio volume and drive activation timelines.

- CCSG guidelines indicate stage 1 should be disease or discipline specific, providing flexibility. MSK's discipline-focused approach contrasts with MCCCC's disease-specific model. Each model aligns with each center's organizational structure.
- CCSG guidelines outline specific stage 2 requirements, therefore both have similar stage
  2 review structure with minimal variation.
- CCSG guidelines require continuous monitoring of open studies for accrual progress, new safety information, and scientific relevance. Both leverage accrual data to identify underperforming trials with each employing a nuanced approach to adapt to differing operational contexts.
- MSK and MCCCC leverage digital tools to ensure PRMS efficiency.

# 5. Lessons Learned and Future Directions Lessons:

- MSK and MCCCC demonstrate a similar interpretation of CCSG guidelines. Operational similarities are anchored in CCSG guidelines with differences attributed to the standalone versus matrixed organizational structures.
- Understanding operational differences enhanced mutual respect and appreciation, boosting collaboration and relationship building. This also led to non-PRMS meetings between the centers about activation and amendments.

#### **Future Directions:**

- Conduct in-depth performance monitoring analysis and share ideas for process improvements and efficiencies.
- Engage PRMS leadership to foster a collaborative network.
- Develop shared educational resources to improve PRMS functions at both centers.
- Collaborate on technological advancements for data optimization, visualization, reporting, and overall process automation.

