Research Portfolio Management: The Protocol Performance Monitoring Dashboard

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Background

❖ As an NCI-designated comprehensive cancer center, Memorial Sloan Kettering (MSK) is required per Cancer Center Support Grant (CCSG) guidelines to have a Protocol Review and Monitoring System (PRMS), responsible for monitoring ongoing institutional research.

❖ Historically, MSK's PRMS Committee (PRMC) was responsible for monitoring the scientific progress of our clinical research portfolio.

❖ More recently, MSK's PRMC created a Protocol Monitoring sub-committee whose sole responsibility is carrying out their mission by evaluating accrual rates, scientific progress, and patient need and determining trials' potential for completion.

Goal/Methods

❖ To accomplish its task of closing protocols with low potential for completion, the sub-committee needed a real-time reporting tool to aid in identifying underperforming trials.

❖ This tool could be used by department leadership to assess their portfolio and preemptively close underperforming trials that may otherwise be identified by the committee.

❖ In collaboration with MSK's Clinical Research Informatics and Technology, we developed a user-friendly dashboard to assist with assessing protocol performance.

❖ Leveraging data from multiple systems, the dashboard blends comprehensive metrics, including protocol lifespan, estimated time to study completion (ETC), and accrual rates.

Dashboard Features

❖ The pop-out provides context, showing a clear picture of accrual performance for patients accrued with MSK Oversight (internal locations and participating sites) which assists the committee when making decisions about closures.

❖ Multiple filters make it easy to isolate key protocols. E.g., Can isolate protocols that have accrued 0 patients or have been open for an extended period (determined by the user) and may no longer be scientifically relevant.

Next Steps

❖ Broaden utilization to other institutional leaders (i.e., department heads) and provide education to increase transparency and promote collaboration of portfolio management between PRMS and departments.

❖ Reassess needs to identify improvements and new tools.

Select any protocol on the dashboard and a new graph appears showing the # of accruals by month over the lifetime of a study

Main Graph Details
➤ Horizontal Axis - percentage of completed accruals.
➤ Vertical Axis - years open to accrual.
➤ Each dot on the graph represents a protocol and is encoded by color based on ETC.
➤ ETC estimates the amount of time (in years) in which a protocol will complete accrual based on the completed accruals and time open.
➤ Protocols with 0 accruals are listed as unknown.
➤ Over target protocols have met or exceeded planned accruals.

Table Details
➤ Includes important details such as:
  • Regulatory sponsor
  • Principal investigator
  • Last accrual date
  • Number of target and actual accruals
  • ETC
  • Protocol type/category
  • Title
  • Information about prior underperforming notices (i.e., # of NP Notices)
  • When the last notice was issued (i.e., Last NP Date)

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First time used by the new subcommittee