Risk Based Monitoring as a mechanism to inform DSMC practices

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Background

Future directions will include building a comprehensive library of The HICCC DSMC has approved 33 ssDSMPs with plans using the This is a follow-up to the original quality assurance concept updated Risk Based Monitoring Guidance created in 2017. Figure 2 presented during the 8th and 9th AACI CRI meetings1,2. Based on standardized DSMC trainings in collaboration with CPDM includes overall DSMC metrics from January 2017 to April 2019. the need to increase DSMC oversight, and utilizing FDA guidance for Compliance to improve compliance and safety monitoring for the Risk Based Monitoring3, the HICCC DSMC and CPDM Office created Interventional IITs monitored by the HICCC DSMC. The implementation of ssDSMPs during initial DSMC review has led to study specific data and safety monitoring plans (ssDSMPs) in 2016. more standardized and informed DSMC reviews. The reviews are now

based on pre-determined monitoring risk levels, and reporting Given this process has been in place for 32 months, an evaluation of frequencies as well as greater integration with quality assurance teams this process is required in terms of value added to the DSMC within CUIMC. Operations Process, and how this RBM approach has improved DSMC reviews.

The DSMC reviewers are able to establish clear guidance for QA monitors at the onset of a trial, and make any required In 2016, there were 21 faculty held INDs and the number has since recommendations regarding the ssDSMPs. This has led to a downstream increased to 34 in 2019. Interventional IITs have grown, and there effect of improving the quality of the clinical trials as DSMC reviewers are currently 54 interventional trials monitored by the HICCC DSMC. are able to assess the study objectives and safety guidelines (e.g. DLTs) before a trial activates.

Goal

To evaluate added value of ssDSMPs in the context of DSMC Operations (initial and on-going reviews).

Solutions and Methods

Once a ssDSMP is submitted to the DSMC for review, this document is sent to the assigned reviewer to inform the initial trial review from a safety perspective. Completion of the key risk indicators (KRIs) associated with the trial will ultimately determine the trial's final risk score (high, moderate or low risk).



Results

Finally, the corresponding monitoring summary forms (based on the ssDSMPs) allow the assigned QA monitors to communicate any major findings, and confirm that monitoring activities are proceeding as planned. During these continuing reviews, the DSMC has an opportunity to address any concerning findings due to this integration.



Future Directions

Figure 3: Monitoring Findings Over Time (CUIMC and subsites)



References

1. Otap, D, et al. (2016, July). Not the 'Ethics Police", a unique approach to internal Quality Assurance (QA) and monitoring procedures. Poster Presented at the Association of American Cancer Institutes, 8th Annual AACI Clinical Research Initiative Meeting, Chicago, Illinois, USA.

2. Otap, D, et al. (2017, July). Adapting to Thrive- Risk Based Monitoring of Academic Institutional Investigator Initiated Clinical Trials. Poster Presented at the Association of American Cancer Institutes, 9th Annual AACI Clinical Research Initiative Meeting, Chicago, Illinois, USA.

3. FDA Guidance For Industry; Oversight of Clinical Investigations- "A Risk Based Approach To Monitoring, August 2013".

https://www.fda.gov/downloads/Drugs/Guidances/UCM269919.pdf

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