# Addressing Challenges of DMC for Small Companies and Clinical Research Organizations

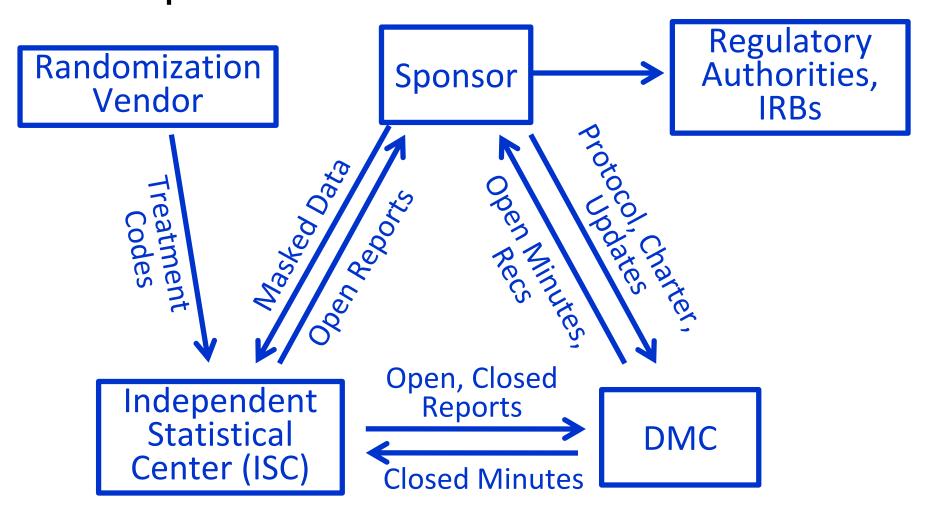
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#### Abstract

#### A Data Monitoring Committee (DMC) is

- Independent group of experts
- Clinicians and at least one biostatistician
- Charged with ensuring patient safety and protecting trial integrity

It involves Sponsor Organization, DMC and often an Independent Statistical Center (ISC). DMC Charter defines roles, responsibilities and procedures for how a DMC operates.



DMC=iDMC, DSMB, DMB, DSMC

#### Motivation

- General increase in use of DMCs
  - Increased FDA safety concerns
- Increase use of adaptive designs, which often rely on the DMC to assist
- Often required by IRBs/Ethics committees
- Increased interests in more personalized
- Identification of compounds for smaller patient populations
- Smaller research organizations are interested in finding successful medications in these small populations

Inherent challenges exist with smaller companies with limited resources and personnel

# **Characteristics for Small Company**

- Tendency for collaborations between a diagnostic device company and a biologic start-up company
- Often R&D in orphan disease areas
- Emphasis on medicine targeted on a subpopulation of interests, thus a smaller population
- Generally one or two compounds in pipeline

#### Inherent Disadvantages

- Fewer sponsor employees -> less clear responsibilities and contractual issues
- Limited financing
- Increased reliance on CROs
  - Multiple vendors involved
  - Data management, statistics, DMCs
- Survival of the company depends on the success of one or two compounds

## **Characteristics for Big Company**

- Well-established internal SOPs and corporate culture
- Systematically trained workforce and personnel throughout each "node" in the
- By definition, more experience in all aspects of a clinical trial

# Inherent Advantages

- Much in-house expertise
- Financing is more readily available
- Decreased reliance on CROs
- Use full-service CROs rather than niche CROs

# What makes DMC special when it comes to Small Company?

- More cross-functional training between the CRO and Sponsor team when starting a DMC
- More communication and collaboration between sponsor team and CRO
- More reliance on CRO statistician and data group for day-to-day operations
- Recommendations often go directly to the head of the organization
- More customized DMC report due to complexities in study design and use of reports for non-DMC activities (such as data review and annual updates)
- Challenges with limited personnel, custom reports, contractual issues, and SOPs

## Challenges and Solutions for DMC in Small Company

Limited personnel

- Make CRO an extension of the study team
- Clear expectations and responsibilities
- More persistent with timelines

Customized requests

- Use existing DMC report templates for data review
- Utilize existing DMC reports for annual safety reports to FDA

Contractual issues

- Initial kick-off meeting to walk through the contract details
- Continuous re-valuation of contract milestones
- Better understanding of responsibilities and expectations

Fewer SOPs

- Allow sponsors to work under CRO's SOPs
- Continual communication on processes for quality control
- Clear work instructions at the beginning of the DMC service

## Conclusion

Increased Collaboration High-quality Charter

More Integrity

Successful Research