

TRCC Clinical Trials Network

Investigator and Patient Pools

- 1) Generate and maintain a pool of investigators
- 2) Patient and PI databases to support preparatory to research queries
- 3) Standardization of trial metrics

Harmonization of institutional procedures

- 1) Standardize the collection of data (forms) that characterizes the study requirements per protocol/event schedule and correlates the resources that will be required at each campus involved, e.g.:
 - a. Institutional Resources: Recruitment, Enrollment, Study Conduct, Follow-up
 - b. Services: Laboratory, Pharmacy, Radiology, Respiratory Therapy, Nursing Services, Medical Records
- 2) Standardize the key financial data collected to ensure resourcing and management/compliance:
 - a. Funding Source(s)
 - b. Budget Development
 - i. Medicare Coverage Analysis for Services (billing grid)
 - ii. Full Cost Estimate
 - c. Billing Plan & Communication to Service Providers
- 3) Standardize the planning for the regulatory requirements
 - a. Determination of FDA regulated and IND/IDE requirements
 - b. Determination of ClinicalTrials.gov responsibilities
 - c. Developing Data Safety Monitoring Plan & identifying visit frequency, where visits will occur (affiliate sites), and access to electronic records.

Data Coordinating Center

The SDCC has a number of functions, responsibilities, and systems. The items below represent the necessary operations for a centralized SDCC. Several of the items below may be managed in a virtual operation.

Information Systems

1. Efficient electronic data collection
 - Need low marginal site costs to participate and take advantage of centralized services
 - FISMA, APIs, existing software licenses, etc.,
 - Multiple remote users with different browsers and OSs
2. Centralized Computer Operations
 - Capitalize on UTRC efforts from a single location, Centralized Disaster Recovery, Version Control
3. Informatics integration
 - Biospecimen repository data
 - Imaging data

Data Management Operations

1. Data Collection
 - a. Information validation
 - i. Enforce collection standards with flexible upload capacity
 1. Laboratories, clinical facilities, study participants' homes
 - b. Heterogeneous data types
 - i. Clinical research data from protocol, imaging, biological, EHR
 - c. Transaction audits
 - d. Honest Broker operations
2. Data Curation
 - a. Management activity required to maintain research data long-term such that it is available for reuse and preservation
3. Future-proofing database designs for repurposing
 - a. Data dictionary, ontologies

Biostatistics Services

1. Hypothesis development
2. Study design
3. Endpoint definition
4. Statistical analysis plans
5. Monitoring
 - a. Efficacy/futility, accrual, safety, DSMC
6. Data Analysis
7. Reporting/publishing

Trial Operations

1. Eligibility, Enrollment, and Randomization operations
2. Trial protocol coordination and Operations
 - a. Data collection (CRFs or eCRFs)
 - b. Data Entry
 - c. SOPs and operational procedure manuals
 - d. Quality control/monitoring procedures
 - e. Communications
 - i. Between clinical site PIs, research coordinators, and other network staff.
3. Specimen tracking
 - a. Specimen inventory, release, links

Quality Assurance

1. Quality and Clinical Monitor
 - a. Electronic Sign-offs (Editor → Monitor → PI)
2. Central Audit
3. Data Safety and Monitoring
4. Patient Advocates

IRB and Institutional Agreements, Contracting, etc.

- 1) Centralized versus other systems for IRB review
- 2) Evaluate utility of best practices from CTNeT single IRB implementation (including IRB and contract agreements and use of for-profit IRB provider)
- 3) Confidentiality disclosure agreements, contract negotiations, etc
- 4) Legal and regulatory tools that will advance the initiative (cover memo of CTNeT related IRB procedures, UT system master clinical trial agreement from Beth Lynn Maxwell)

Biobanking

- 1) Best practices for sample collection/processing/storage
- 2) Good laboratory practice (GLP) for freezer monitoring and temperature history logs
- 3) Centralized or federated model for biobanking
- 4) Biorepository software for inventory and sample progeny
- 5) Identify common freezer inventory currently across sites
- 6) Integrating biorepository and clinical information
- 7) Regulatory considerations: historical and moving forward (PHI linked/de-identified etc.)