Coordinating Center for Clinical Trials (CCCT)

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Today’s Discussion

- Coordinating Centers
  - Types of CCs and their services
  - Why are they important to research

- CCCT- Who we are
  - Our services
  - Our goal
  - How can we collaborate
What are coordinating centers

- Mostly utilized in multicenter trials (2+ enrolling centers)
- Serve as the nucleus of large clinical research programs
- Coordinate various activities and services needed for trial success
- Play a huge role in communication among stakeholders
- Some are founded in academic centers, others in industry
- Typically charged with setting a milestone driven timeline and promoting a strategy that ensures the trial completes on time and on budget

Data Coordinating Centers (DCC)

As the name suggests, DCCs play more of a role on activities associated with data analysis and statistical design

- Expertise in clinical trial design and conduct (includes structure and quality standards)
- Collaborates in protocol development (statistical design, sample size calculations, analysis strategy)
- Provides data management and analyses
- Provides site selection based on feasibility/availability of data
- Insures appropriate adverse event monitoring (quality assurance)
- Procurement of services related to core labs (standardized data)
- Clinical monitoring of data (source comparison to database)
- Website support and online resources for the trial (EDC)
- Manuscript generation and dissemination of results
Clinical Coordinating Centers (CCC)

Similar in name, CCCs play more of a role on clinical activities

- Provide technical expertise in the disease area
- Developing protocol, consents, SOPs
- Contracting with clinical centers
- Formulate site performance plans and recruitment activity
- Develop content of data collection forms
- Coordinate regulatory approval activities
- Obtaining investigational study drug
- Training of sites on clinical protocols

Well-established groups can be both DCC and CCC

Academic Research Organizations (ARO)

- Have been around since 1980s
- A university-based organization/or nonprofit institution that performs one or more functions in a research initiative

- AROs provide
  - Academic expertise and leadership
  - Full-service clinical trial management capabilities
  - Site monitoring, safety monitoring, and clinical events classification
  - Data management, statistical analysis

- The focus of AROs
  - Developing and sharing knowledge to improve patient care
  - Leading and conducting multicenter clinical trials
  - Ensuring these trial findings are published and presented
How are coordinating centers important to research

Successful trials require a team effort
- Sponsor/funding agency
- Investigators/clinical centers
- Vendors/partners/core labs
- Data Safety Monitoring Boards
- Participants

Challenges of Investigators
- Competing demands for your time
- Need for a central hub for logistics & communication
- Need for sound design and statistical analysis plan
- Need for data quality measures (standardization, monitoring)
- Provision of training (protocol, operations, EDC)

Who we are

Coordinating Center for Clinical Trials (CCCT)
CCCT Mission and History

To improve a broad-spectrum of public health interests through the coordination of clinical trials, collaboration with clinical investigators, and development of statistical and trial methodology

- Founded in 1971; ~$250 million in funded projects
- 25 NIH & Industry multi-center clinical trials
- Phase I, II, III trials (from 32 to 42,000 patients and site management ranging from 1 to 600+ sites)
- Leading role in clinical trials research (science and practice – 5 Fellows of Society for Clinical Trials)
- Long history of collaboration with many academic and community institutions

Major Trials

- HDFP (Hypertension Detection and Follow-up Program)
- BHAT (Beta-Blocker Heart Attack Trial)
- SHEP (Systolic Hypertension in the Elderly Program)
- ALLHAT (Antihypertensive and Lipid-lowering Treatment to Prevent Heart Attack Trial); GenHAT (Genetics of ALLHAT)
- SAVE (Survival and Ventricular Enlargement Trial)
- CARE (Cholesterol and Recurrent Events Trial)
- CCTRN (Cardiovascular Cell Therapy Research Network)
- CRYO-ROP (Cryotherapy for Retinopathy of Prematurity)
- ETROP (Early Treatment of Retinopathy of Prematurity)
- FLAT-SUGAR (FLuctuation with inSULin and Glp-1 Added together)
- TWiTCtch (TCD with Transfusions Changing to Hydroxyurea)
- Mobile stroke unit trial (Comparative effectiveness study in tPA eligible stroke patients)
Impact

Intellectual Contribution
- 600+ publications, 70,000+ citations
- 2002 ALLHAT JAMA paper, ISI Web of Science “one of the most cited recent papers in the field of Clinical Medicine”, H-index ~ 100
- Trials published in NEJM, JAMA, Lancet and other leading journals

Landmark trials
- Changed worldwide treatment of hypertension
- Major impact on preventing blindness in premature infants
- Changed practice of post-MI treatment

Clinical Care
- Findings noted in clinical guidelines by national health organizations (e.g. – JNC 5-B); reviews; educational materials
- Findings resulted in standard of care for a disease

Our Services

Study Design
- We help Investigators with design in all phases of trials
- Design includes hypothesis development, well-defined study objectives, selection of study outcome measures and an appropriate assessment schedule, power analysis, and sample size estimations
- Designs include comparative effectiveness, parallel group, factorial, cluster, cross-over, non-inferiority, futility, seamless Phase II-III, SMART, MOST, etc.
Our Services

Study Implementation

- Site selection and recruitment of qualified Investigators and centers
- Assistance with protocol development and trial related training materials (e.g. core lab materials, CRFs, manuals of operation, etc.)
- Creation of secure web-based data entry system allowing Investigators 24/7 access to their clinical site performance metrics and quality control reports
- Recruitment and participation rate assistance: development of recruitment aids (video, posters, cards, etc.), study newsletters, and other trial promotion materials
- Safety and regulatory oversight (AE monitoring, reporting for FDA, DSMB, IRB)

Our Services

Data Analysis and Dissemination

- CCCT uses best-practice methods for the analysis of clinical trial data. Novel statistical methods have also been developed to deal with more complex data when standard methods cannot be used
- Specific expertise in prognostic and prediction models/algorithms using machine learning
- Leadership in preparation of scientific reports and manuscripts and in the publication and presentation of study findings and results
Our Services

Trial Support

- Integrated approach combines administrative support, with project management, data programming, and statistical expertise from seasoned personnel to provide leadership and collaboration for the operation of a first-class coordinating center.
- Design and development of web-based applications for data collection and randomization.
- Execution of plan for central data acquisition, harmonization, management, and analysis, including patient randomization and quality control measures.
- Management of the fiscal and budgetary affairs of clinical trial operations, including subcontracts for patient care expenses to clinical centers and core laboratories.

Clinical Trial Services & Structure
CCCT Team

Barry R. Davis, MD, PhD
Coordinating Center Director
Professor of Biostatistics
Guy S. Parcel Chair in Public Health

Devjian Lai, MD
Professor
Biostatistics

Linda Pifer, MD
Associate Professor
Epidemiology

Jose Miguel Yamal, PhD
Associate Professor
Biostatistics

Stacia Delaniy, PhD
Professor
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David Aguilar, MD
Associate Professor
Genetics

Honglin Zhu, PhD
Associate Professor
Biostatistics

Roeusa Li, PhD
 Associate Professor
Biostatistics

Michael Swartz, PhD
Associate Professor
Biostatistics

Project Management and Trial Support Teams

Lara Simpson, PhD
Faculty Associate
Safety Officer

Judy Battersby, MPH
Clinical Trial Program Mgr.

Shelly Sayers, MPH
Clinical Trial Program Mgr.

Siba Mathew, MS
Clinical Research Associate

Larry Cormier
Director Management Ops.

Staci Hinojosa
Administrative Coordinator

Charlie Cotton, MS
Manager of Analytic Svcs.

Gina DeWitt, BS
Programmer Analyst III

Christian Tandy, BS
Programmer Analyst IV

Michael Gonzalez
Programmer Analyst III
Our Goal

To be the Academic Research Organization (ARO) within the TMC providing academic leadership to full-service clinical trial management capabilities, including clinical expertise, statistical analysis, data management, safety monitoring, site monitoring, and clinical events classification.

We'll work with you from design to dissemination to meet all of your trial needs.

We’d like to hear from you

What are the research needs of your department?

- What do you use for your data needs now?
- Who helps with your stat design and analysis needs?
- How many of you are involved in a multi-center trial? If not, are there limitations that keep you from applying to have multiple locations?
- What resources mentioned today would most benefit your teams?

How can we collaborate?
Contact us:
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Thank you!