# Study Startup and Initiation – The Agony and the Ecstasy

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### Learning Objectives Study Startup and Initiation

Summarize known challenges and best practices for efficient and successful study startup

Identify institutional resources available for study startup processes and requirements



## **Setting Ground Rules**

- Discussion assumes that the protocol is already written either by external or internal investigator
- Protocol could mean "INSPIR application" (that's your "study plan") or an actual protocol
- Presentation will make specific references to steps or processes that might only be relevant to
  - Industry sponsored studies
  - Externally-managed multi-site research
  - Studies with a drug or device intervention

But  $\rightarrow$  Many of the steps or processes are applicable to all types of studies

- Discussion is more of a thought-exercise rather than proscriptive
  - Study startup is not a once-size-fits-all important to make decisions and plan according to the study needs, team needs, specific to the each study

Happy to answer questions during and after presentation about applicability to your specific study





# Study Startup – Relevant to all studies

- IRB submission and approval
- Development essential documents –

#### **Participants**

- Case Report Forms data collection forms data entry/collection system
- Source documentation
- Developing essential documents –

#### Regulatory

- IRB approvals
- Study team training
- Delegation log
- Communication planning

- Training for all staff, all roles
  - Protocol and general
  - Having training doesn't mean someone is automatically competent
    - Practice and mentoring still needed
  - Assessment of competencies to do delegated tasks
- Dry Runs
  - Ensure adherence to regulations and policies
  - Establish best practices
  - Ensure consistency in processes and data collection



# Industry-Sponsored + Externally Funded Specific Steps

The next several slides pertain most specifically to those studies that are sponsored by business and industry or those that have some source of external funding and are initiated by somebody outside of BU/BMC

**Primary Examples** 

- Clinical trial from Pfizer with an investigational new drug
- > Multi-site study funded by the NIH but the Lead PI and team is at an external institution

# **Feasibility Assessment**

- Assessment Points
- Study design
- Ability to recruit sufficient number of eligible subjects – set goal
- Staff time requirements and budget
  - Investigator, coordinator, whole team
- Lab tests and procedures
  - Able to do and have the space to do
- Space and equipment
  - Study files and binders
    - Special equipment needed
    - Office space
    - Refrigerator or freezer space
- Operationalization of protocol

#### ICH GCP 4.2 Adequate Resources

- 4.2.1 The investigator should be able to demonstrate a potential for recruiting the required number of suitable subjects within the agreed recruitment period.
- 4.2.2 The investigator should have sufficient time to properly conduct and complete the trial
- 4.2.3 The investigator should have available an adequate number of qualified staff and adequate facilities... to conduct the trial properly and safely.

### Best Practice – all studies can benefit from this process

- Applies to all studies industry sponsor, multi-site investigator initiated, local investigator initiated
- Either assessing your own site, a sponsor assessing your site, you assessing another site

## Next Steps: Site Selected

- Clock has started ticking timeline usually provided during site selection process – meet those goals – or communicate that goals have changed!
- Priorities:
  - Negotiating contract Clinical Trial Agreement (CTA) or other agreement
  - Negotiating budget
  - IRB submission
  - Operationalize the study
  - All must be approved or completed prior to first participant enrolled sometimes before first participant can be screened

## **Budget and Contract Process**

- All studies with external funding sponsored, NIH, multi-site, etc
- Depending on who is "receiving" the funds different departments will handle process and negotiations
  - BU Office of Sponsored Programs (OSP)
  - BMC Clinical Trial Office (CTO): Required if interfacing with any BMC clinical services
- Budget finalization in relation to IRB submissions
  - Dependent on study neither are required to come first
    - Industry sponsored study probably fine to submit to IRB without final budget but should check with OSP or CTO
    - Investigator-initiated dependent on funding source does funder require IRB approval to release funds? Expecting budget cuts to impact study plan or procedures?

### RPN Workshops

- Clinical Research Budgets The Fundamentals (March 2021)
- Clinical Research Budgets Advanced Topics (May 2021)

### **Budget Questions**

- Primarily industry sponsored studies but also some multi-site studies
- Does the budget include direct line-items for:
  - Staffing
  - Study start-up activities
  - Supplies
  - Institutional charges: IRB, IPS, GCRU
  - Participant reimbursement or compensation
  - Recruitment efforts
- Payment milestones
  - Per participant at what timepoints
  - Per data collected –at what timepoints
  - Other milestones
- Non-refundable or required payments regardless of milestones
- If you are able to see the budget during feasibility should assess all of the above at that point

### **General Startup and Initiation Steps**

The rest of the slides are all relevant to any number of studies – regardless of sponsor, funding, design or type

**Primary Examples** 

- Clinical trial from Pfizer with an investigational new drug
- > Multi-site study funded by the NIH but the main PI is at an external institution
- > Single-site study funded by the PI's department here internally
- Observational or interventional studies
- > Data collection or specimen collection studies

All studies should have some amount of planning prior to "opening"







# Study Preparation during Initiation (1 of 2)

- While working through contract, budget, and IRB approval ightarrow
- Logistics Operationalize the Study
  - Where is the study taking place?
  - Inpatient? Outpatient?
  - Map out study visits and what study staff needed for each (MD, RN, CRC)
- Establish study timeline/processes with necessary departments
  - Pharmacy
  - GCRU
  - Laboratories
  - Radiology
- Determine what study specific training needs to take place
- Efficient methods of communication, providing updates, triaging questions/concerns
  - Ensure ongoing conversation throughout study with team and necessary departments

## Study Preparation during Initiation (2 of 2)

- Trainings must take place prior to staff working on study
  - Institutional requirements (human subjects, GCP, SOP...)
  - Protocol-specific training
  - Role-specific training
  - Document training for all staff: <u>CRRO documentation tools</u> for training logs
- Schedule presentations for key departments and clinicians:
  - Ensure they are aware of study timeline and their responsibilities
  - Ensure that referral systems are set up
- Standardize study procedures/data collection
- Develop SOPs, MOPs, checklists, templates, logs, etc

## **Operationalize the protocol**

### What is needed to complete study?

- Clinic space
- Procedure rooms
- Staffing
- Blood draws/laboratory processing
- Radiological imaging
- Source document creation
- Regulatory documents and binder
- Access into systems (internal or external)
- Training

### What processes need to be developed?

- Who, what, when, where, how
- Recruitment/screening
- Consent
- Study procedures
- AE monitoring/reporting
- Deviation monitoring/reporting
- Data collection
- Quality monitoring

Spend time reading the protocol – even if you wrote the protocol. How will you ACTUALLY do the thing that the protocol says?





- Develop advertising materials
  - For participants (obtain communications approval, submit to IRB)
  - For clinicians (materials don't need submitted to IRB, plan does)
- Identify potential barriers or challenges and plan how to address
  - Competing studies, long visits, difficult procedures, location issues
- Identify possible successes and plan how to address
  - If your recruitment plan is amazing and works right away do you have the staffing, resources, time to enroll more than a few participants at a time?
- Plan: How, When, Who, Where → Submit to IRB
  - Identify potential participants
  - Screen potential participants
  - Obtain informed consent



### Check for completion

- All documents uploaded
  - Only correct, most updated version
- All staff added
- All questions answered in full

**Request a CRRO pre-review consultation** 

### **Essential Documents – Developing and Maintaining**

- These are just some of what are considered Essential Research Documents - SOP and ICH has more extensive list. Specific studies might have more than what is listed.
  - ICH GCP Guidance, Section 8: Essential Documents for the Conduct of a Clinical Trial
    - SOP: Essential Documents
- Track status of documents and completed processes
- Save and document all/significant items
- Paper, electronic, cloud-based, hybrid depending on study
- Generally, participant files and regulatory files are not kept in same paper binder
- Somebody should be delegated the responsibility of these files (maintaining and reviewing)
- Obviously not all of these will be available during startup – but plan should be in place for collecting and maintaining. Have binders set up and ready to go.

#### Regulatory Files → General Study Files

- Informed consent and HIPAA Authorization - blank
- Case Report Forms and Source Documents including Questionnaires or Surveys blank
- Protocol, MOP, study-specific SOP, IB
- IRB submissions and approvals (Initial, amendments, continuing reviews, prompt reporting/RENIs)
- Deviations, Adverse Events, Safety Events
  - Reports to IRB/others, logs
  - Communications to sponsor, lead team
  - Team member documentation
  - Delegation of Authority log
  - Training log and certificates if applicable
  - CV and resumes . Licensure
- Participant Logs (Screening, Enrollment, Randomization, etc)

#### Participant Files → Specific to an Individual

- Informed consents and HIPAA Authorizations signed
- Case Report Forms and Source Documents completed
- Includes questionnaires and surveys
  - Shipping documentation
    - To participant, to sponsor, to lab, to etc
    - Communications to participant
      - Letters, emails, telephone calls

## Site Initiation Visit (SIV)

- Usually only done with multi-site industry sponsors or NIH-funded studies
- Ensure understanding of protocol and responsibilities
- Ensure necessary resources are available
- Ensures all training is complete

Recommend doing an SIV regardless of funding/sponsor status  $\rightarrow$ 

All studies will benefit from "all hands on deck" planning and confirming meeting

#### **Discussion points**

- Protocol purpose, design, procedures
- Reporting
- Intervention (drugs, devices, other); storage, instructions, processes, accounting
- Inclusion/exclusion criteria
- Recruitment/screening/enrollment
- Informed Consent
- Randomization processes
- Withdrawal processes
- Case report form completion and data entry
- Source documentation completion and filing
- Adverse Event and Deviation monitoring, assessing, reporting
- Compliance
- Quality management
- "Trial walk-through"
- Review of site regulatory files

## Dry Runs – Making Time to Save Time

- Perform all study procedures without a "real" participant
- Start as early in the process as possible and go the whole way through final data collection
- Provides opportunity to identify Examples →
  - Challenges with physical location
  - Better understanding of time spent on each activity
  - Clarity on staffing needs for each activity
- Go through all physical steps and locations Examples →
  - If participants will be told to visit phlebotomy after the consenting visit and to them come back for the rest of the visit – plan that walk out and figure out how long that could take
  - If you need to get sponsored-provided equipment from your office to the clinic – plan that out, which elevator is best, which routes to avoid
  - If using sponsor-provided platform for randomization ask for test usage and see if you can get on from different computer stations



### Dry Runs – Establish visit flow and identify challenges

- How long will the visit take?
- In what order are the procedures done?
- What needs prepped before the visit how long does that take?
- What is the follow up after the visit how long does that take?
- Who needs to be available (MD, RN, CRC)?
- What is the equipment needed, ancillary services, etc?
- What is the data that is collected as part of the visit are there forms for this ready?
- Based on these dry runs can develop checklist of what happens at each visit
  - Should include who performed the procedure, who was present including signature lines if applicable/relevant
  - Doesn't necessarily mean what happens literally during the visit with the participant can also include the pre and post work that is done
    - Examples -- order placed and signed, data entry, specimen shipped

## Dry Runs – Recommendations

- Do more than one dry run at different times of day or on different days
- Do with different people leading or present
- Include everything don't make any assumptions about how you think something should or could happen – things change and different staff or participants have their own specific needs
  - Reviewing medical records
  - Phone screening
  - Consenting
  - All visits
  - Data entry
  - Specimen preparing and shipping
  - Randomization
  - Working with Investigational Pharmacy



# **Standing Meetings**

- Set to occur on regular basis
- Are not routinely canceled
- Have set, recurring agendas
  - Recruiting and enrollment, enrolled participants and upcoming visits, adverse events, deviations, upcoming IRB submissions, planned amendments, staff time off, etc
  - Use agendas to take notes maintain as part of study documentation
- Discuss successes and problems or issues
- Involve primary team members, can involve others as needed on rotating or as needed basis
- Should occur fairly often during startup planning/initiation and can occur less often as enrollment and study procedures become routine
- Should not occur less than monthly







CRRO Clinical Research Seminar February 2023





### Investigational Pharmacy Services (IPS) – Key Highlights

### Role of IPS

- Provide support for all clinical drug studies conducted at BU/BMC
- Responsible for the receipt, storage, accountability, dispensing and disposition of all research-related drug products
- Ensure the investigational products are used appropriately to maximize study human subject protection
- Ensure compliance with applicable regulatory and protocol requirements regarding the use of investigational products

### Services Offered

- Study Start-Up and Close-Out
- Inventory Control and Storage
- Dispensing and Accountability
- Assist with database maintenance (Vestigo, EPIC)
- Regulatory Documentation
- Randomization and Blinding
- Compounding/Repackaging (if feasible)
- Collaborating with monitors and auditors for site and remote visits including tours for SIVs

Submit Protocol Planning Worksheet along with protocol, investigator brochure, pharmacy manual – will kickoff planning discussion and budget agreement drafting  $\rightarrow$  Under Forms on CTO website









## **Standard Operating Procedures**

- Highlights for Startup and Initiation
  - Essential Research Documents
  - Delegation of Authority and Responsibilities
  - Research Team Competency
  - Really all of them!
- <u>Clinical Research Seminar: November</u>
  <u>2022</u>
  - BMC Clinical Research Standard Operating Procedures Implementation
- Clinical Research Times
  - December 2022 Feature Article: Spotlight on SOPs - A Bright New Future
  - Monthly starting January 2023, Spotlight on SOP section

Adverse Event Monitoring, Assessing, and Reporting
Case Report Form Completion
Delegation of Authority and Responsibilities
Essential Research Documents
External Audit Preparation
Informed Consent Process
Institutional Research Policies and Guidance Documents
Participant Withdrawal
Protocol Deviation Reporting
Quality Management
Research Team Competency
Research Training
Site Monitoring Visits
SOP Management
Subject Recruitment



# Key Takeaways and Highlights

- Study startup and initiation can take a while use this time to set yourself up for success sometimes rushing just means delays after enrollment starts
- Communicate during startup on timelines, expectations, next steps
  - Research team (PI, Co-I, coordinators, etc)
  - Internal and external groups and stakeholders even if you aren't expecting or need a response
- Reach out early in process to the groups who you'll need to interact with throughout study
- Start building and submitting intake forms to build in systems early
  - > CTO, VELOS, ClinCard, IPS, CDW, GCRU, REDCap...probably many others!



# Put your thoughts in the chat or unmute! Let's talk!