

Clinical Trials 101

Liz Busby BSN, RN, OCN
Meredith Fitz-Gerald, MSN, RN
Cindy Joiner, PhD, RN



What is a Clinical Trial?

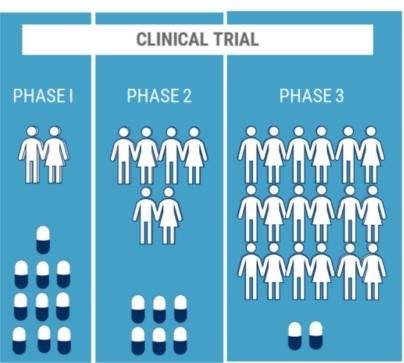
Clinical Trial

- Prospectively planned
- Conducted under well defined conditions:
 - Subject Selection
 - Intervention and evaluation policies
- Specific questions-objectives
- Justify the number of subjects, sample size. Have a statistical plan
- Measurable results rather than plausible reasoning are required to support conclusions

Observational Studies

- Retrospective
- Participants are selected on the basis of presence or absence of an event/condition of interest
- Subjects can be identified from hospital records or other data sources
- Investigators are passive observers









Research is a systematic investigation, including research development, testing and evaluation, designed to develop or contribute to the generalizable knowledge.

Have a protocol

A well designed protocol provides the clinical research team *instructions* and *directions* that are strongly *supported* by scientific rationale for conducting the study. Adherence to the protocol will provide *consistent and* reliable data , as well as guidance on conducting the protocol in a manner to protect human subjects .

Have a statistical plan

- Statistical methods to be used to define the analysis:
 - Sample size
 - Treatment assignment
 - Efficacy
 - Safety
 - PK
 - Plans for interim analysis
 - Subject disposition

Collaborate with a biostatistician or methodologist (BERD)

Ask yourself.....

- Is this feasible?
- Why you want to participate?
- Science?
- Indication?
- PI Collaboration?
- Patient Population?
- Feasible?
- Patient Population?



How do we protect human subjects?

- Design of the study
- Review by the local IRB
- Protocol defined safety measures
- Trained research staff

Know the Rules and Regulations

- International Conference on Harmonization/Good Clinical Practices (ICH/GCP)
- IRB (Institutional Review Board)
- Your Office SOPs (Standard Operating Procedures)
- The Belmont Report
- Declaration of Helsinki
- Institutional requirements
- *Industry Requirements
- *Government agencies (DHHS/OHRP; FDA; NIH)
- (* when applicable)



Regulations! Complicated, boring regulations!

We can't go over them

We can't go under them





Good Clinical Practice (GCP)

GCP is an international ethical and scientific qual standard for designing, conducting, recording, as that involve the participation of human subjects this standard provides public assurance that the well being of trial subjects are protected, consiprinciples that have their origin in the Declarat that the clinical data are credible. Good Clinic nonte Practi likely to follow the International Conference of of a cli (ICH) of GCP guidelines in many aspects. G nprehe (GCP) will enforce tighter guidelines on ethic documentation for the clinical protocol, record Record, training study. Higher standards will be required in tercilities including computers. Quality assurance and that these standards are achieved. (

13 Principles of ICH-GCP

- Ethical principles of the Declaration of Helsinki.
- 2. Benefit of the individual (benefits justify risk).
- 3. Protection of individuals prevail.
- Adequate drug data to support clinical trial.
- 5. Clinical trials should be scientifically sound.
- 6. IRB/IEC approvable / favourable opinion.
- 7. Subject care is under a qualified physician.
- Staff is qualified, educated, experienced and trained.
 - 9. Obtain freely given informed consent.
 - 10. Data accuracy.
 - 11. Confidentiality of records.
 - 12.Good manufacturing practice.
 - 13.Quality systems implemented.

The rights, safety, and wellbeing of the trial subjects are the most important considerations

A trial should be conducted in compliance with the protocol that has been received prior IRB approval

Freely given informed consent should be obtained from every subjects prior to clinical trial participation

All Clinical trial information should be recorded, stored and handled in the way it allows its accurate reporting, interpretation and verification

7 of 10



The Importance of Principal Investigators

- Only 15% of doctors participate in research as Principal Investigators
- 90% of the doctors that do participate in their first clinical study never participate in a second one
- This is unfortunate because PIs play a key role in raising awareness to the general public
- Patients are more likely to enroll in a clinical study if their physician is also a PI

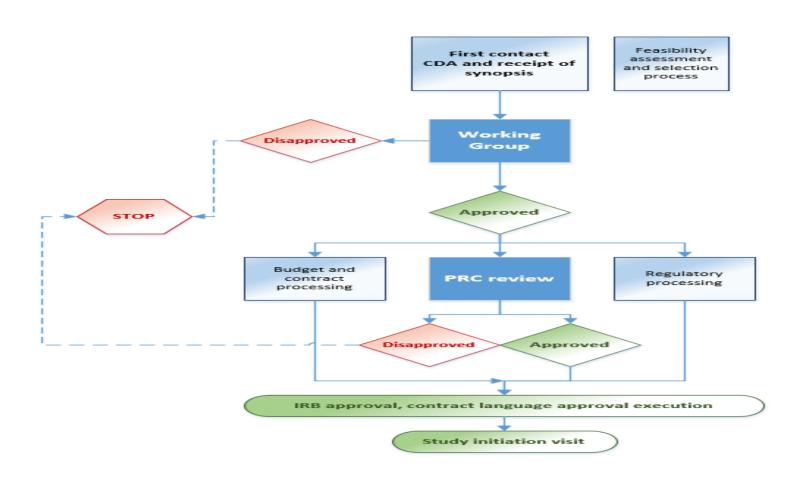


Roles and Responsibilities



- Although the PI is ultimately responsible for the overall conduct of the study, it does not mean that he/she has to do all of the work
- Most of the work that goes into running a study will be delegated to the study coordinator and other research staff
- The PI oversees the studies to ensure that GCP guidelines are met and that the protocol is being followed as accurately as possible

Know the workflow



Be involved

- Once the contract is signed, schedule SIV
- Be sure to attend and meet people at SIV (very important)
- Get information about accrual/amendments/toxicities
 - May consider pre-huddle prior to SIV
- Meet with your staff, especially, CRC, data manager
- Go over indication/logistics/planning
- Recruitment Plan
- Remember: Protocol is most important (Written Intepreted)

Be involved

- Know your patients....
- Eligibility: Dual verification of eligibility. Checklist are helpful, verify backup source
- Follow up, visits, message, calls (all are very important)
- Measurement of primary endpoint, crucial scheduling – CT's, lab results, QOL assessments, Physical exams, etc.
- Documentation Proof of PI oversight
- Investigator calls, safety calls, monitor visits

Provide oversight

- Enroll, enroll, enroll....
- In a way YOU are the SPONSOR, YOU are the Medical Moniter, YOU are responsible
- AND.....
- THE buck stops at you

If you don't know.....ASK...



Resources

- Your School, Department, Division
- CCTS
 - https://www.uab.edu/ccts/research-commons
- IRB
 - https://www.uab.edu/research/home/investigators
- OSP
 - https://www.uab.edu/research/home/ospresearchers-toolkit

CCTS Resources

- Statistical/Methodological
 - BERD
- Coordinator, Regulatory, Data
 - CRSP
- Training, Budgets, ClinicalTrials.gov
 - CRSP
- CRU, Bionutrition, Biospecimens
 - CCTS
- Recruitment
 - i2b2
- Constructive grant reviews
 - Panels

Mentorship is critical



Mentorship, Mentorship, Mentorship...

"Regardless of our title or years of experience, we can learn from each other. Through mentoring and by being open to learn we can reach our ultimate potential." -Lily Bejamin-

Mentors are kinda like shoes...when you find good quality ones you can never have too many

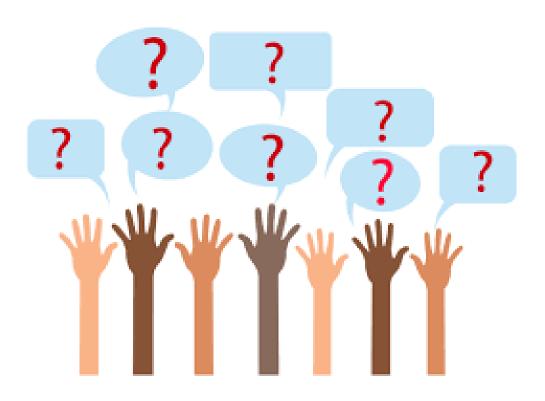


The Benefits of Being A
Principal
Investigator



Best Principal Investigator Ever

and a mug to prove it



Fill in the blanks: I need _____ so I can

