# Developing Budgets for Research Projects Session Focus: Clinical Trials

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## **Today's Topics**

- Core components for an internal (UR) clinical research trial (CRT) budget – What costs need to be included?
- Resources available for determining cost How do I figure out the costs for study items?
- Elements of the UR Budgeting workbook How does the Sponsor/NIH budget get translated into ORPA workbook – or vice versa?





## **Types of Clinical Trials**

### Funding Source

- NIH, FDA or other federal funding
  - Student/Fellow/Faculty Investigator
- Industry Sponsored
  - Pharma (drugs)
  - Medical device company
- Unfunded: Student/Fellow/Faculty

#### TIP:

Federally funded studies have special pricing and overhead. Let your Vendors/Fee for Service providers know as you explore pricing and request quotes.

## New Study Process, Budget Prep

### **Content**

- Clinical Research Trial (CRT) = intervention
  - ✓ ORPA Budgeting workbook needs to be completed and sent to Mike Ritz for review if study involves:

AT LEAST ONE TEST/PROCEDURE That Has A BILLABLE CODE.

 Studies with only questionnaires or chart review are EXEMPT from ORPA Workbook requirement.

### **Steps in New Study Process**

- Initial Contact
- Feasibility Assessment "Lite"
- Obtain/Return Confidential Disclosure Agreement (CDA)
  - a) Send to your Materials Transfer Administrator at ORPA (<a href="http://www.rochester.edu/ORPA/">http://www.rochester.edu/ORPA/</a>), along with a <a href="https://www.rochester.edu/ORPA/">CDA checklist (on ORPA page under "FORMS" – "CDA/Confidential Disclosure/NDA Checklist")</a>
  - b) ORPA returns CDA to sponsor you get Protocol
- 4. Obtain Protocol and Sponsor Budget

### Steps in New Study Process, cont.

- 5. Obtain CRT Protocol and budget and share with Dept. Research Administrator (RA).

  Do I have an administrator?
- 6. Prepare your Budget & UR Budget Workbook <a href="http://www.rochester.edu/ORPA/">http://www.rochester.edu/ORPA/</a>
  - Workbook Template: <a href="https://orpa.ur.rochester.edu//CTP/default.aspx">https://orpa.ur.rochester.edu//CTP/default.aspx</a> – choose 'Shared documents', 'Budgeting forms, Practice Aids, Templates"

### **Establishing a Budget**

### The Three P's:

- Place (Where?)
- Procedures (What?)
- People (Who?)

Answers are Protocol driven

## Establishing a Budget P1 = PLACE

### Where will Study Activities take place?

- Where will subject be seen/treated?
- Who do I need permission from to use it?
- How much will it cost to use that space?

## Establishing a Budget P1 = Place

### 1. Out-Patient Study Costs:

- a) Dept clinic at Strong, Strong Ambulatory Care Facility (ACF) or off-site - CRT use fee? Per visit?
- a) Home/School/Hospice/Workplace Visits
- b) Standard of care visit coupled with study task?
  - i. Split out study vs. SOC (Std of Care)

## Establishing a Budget P1 = Other location-related costs

- Transportation costs/parking (SC, Subject, Family)
- Subject and Caregiver stipends
- Meals/Snacks included?
- Overnight stays for early, late visits?
- Follow-up visits if patient is discharged before study visits completed – how will those be different?
- Cost to recruit/conduct in the community?

## Establishing a Budget P1: Transportation Cost Resources

- Fed gov't(IRS) reimbursement for medical mileage: https://currentmileagerate.com/
- RTS pass/card: <a href="https://www.myrts.com/Buy-Passes">https://www.myrts.com/Buy-Passes</a>
- Taxi: Marketplace Transportation: email Tina Anderson at <a href="mktpltrans@gmail.com">mktpltrans@gmail.com</a> and arrange a flat fee per study subject; they will pick up and drop off at pre-specified times
- UR Garage Parking pass: 312 Requisition to <u>UR</u> <u>Parking office</u>; single or bulk (e.g., 30 at a time)

## Establishing a Budget P1= PLACE

### 2. In-patient study

- Clinical Research Center Ann Miller, RN, CCRC contact at (585) 275-2907 or
- <u>www.urmc.rochester.edu/clinical-translational-science-</u> institute/resources/clinical-research-center
- Emergency Department <u>EMResearch</u>
   <u>https://www.urmc.rochester.edu/emergency-medicine/research.aspx</u>
- Neonatal ICU Dr. Timothy Stevens, Medical Director
- Peds ICU (PICU) Dr. Louis (Gene) Daugherty, Director;
   Tanisha Lewis, Nurse Manager
- Neuro ICU Dr. Debra Roberts, Acting Director;
   Jamie Fodness, Nurse Manager

## Establishing a Budget P1= PLACE

Other Nursing Unit(s) – Medical Director or Nurse
 Manager, or Dr. Mary G. Carey,
 Director of Nursing Research, SON

### TIP:

Contact Dr. Mary G. Carey anytime you are considering a study on an in-patient unit.

Dr. Carey needs to be included in the feasibility assessment with regard to nursing staff involvement.

(See global, or contact her Administrator, Brandon Qualls, to set up a meeting.)

## Establishing a Budget P2 = Procedures (What)

Protocol Driven: What is being done?

Go through Visit Task chart: typical costs include:

Drug(s) Physical exam EKGs

Device Assessments Biopsy

Labs Questionnaires Imaging

X-ray Lumbar Puncture PK samples

## Establishing a Budget P2 = Investigational Product (IP)

- Contact the Investigational Drug Service (IDS):
  - Send Protocol, Investigational Brochure & Pharmacy Manual to Steve Bean (& cc: Carol Cole) via email ASAP
  - Request a study-specific quote, includes:
  - Start-Up fee: \$1,800
    - Per delivery fee: \$75 per subject/Pyxis delivery
      - Annual maintenance fee: \$1,500
      - Close out fee: \$1000

TIP: IP order might also require a build in eRecord, so give IDS time for that to be done

## Establishing a Budget P2=Drug Study: IP costs

### Other questions to ask re: IP costs:

- How is IP delivered? Part of a study visit? Shipped to/from subject? Include pre-paid shippers
- Is 'Local' storage a cost? (E.g., Drug Cabinet needed in CRC for rescue med/controlled substance. Built into budget and paid for by sponsor.)
- Pyxis or local storage: temperature logs required by sponsor/FDA? Include a portable temperature data logger in budget.
- Cost to return used containers or unused meds?

## Establishing a Budget P2 = Procedures

### **Device study: Special Requirements Upfront**

- 1) Device must have a Category B designation from FDA,
- CMS approval obtained for the device/device study for billing purposes, and
- 3) Pre-approval already obtained from any commercial insurers. This is explained in the ORPA SOP on devices: <a href="http://www.rochester.edu/ORPA/">http://www.rochester.edu/ORPA/</a>

#### Other Considerations:

- Is Sponsor providing device?
- Updates/battery changes/removal costs?
- Shipping or repair costs?
- Surgical implant or other special fee for service needed? Sort out SOC vs. Study costs

## Establishing a Budget P2 = Procedures

**<u>Labs/specimens</u>** – blood, urine, sputum (etc.) samples:

Central or Local?

- Central ICON, ACM, Quest sponsor sets up
- Local/Central URMC Labs: URMC Central Lab Services provides clinical laboratory assays and support for researcher studies.

  (https://www.urmc.rochester.edu/pathology-labs/clinical.aspx) study specific test request, separate out Study vs SOC tests
- Will URMC also draw blood?
- Will subjects go to a satellite lab site?

Material and information from 2016 SCORE seminar on URMC Labs at URMC Labs handouts and displayed materials – forms for ordering lab tests; other useful links

## Establishing a Budget Lab Costs: other considerations

- Supplies provided or not? Contact URMC Lab Services if URMC is doing phlebotomy; if not, order from central stores or Medline: http://www.medline.com/home.jsp
- Processing: equipment considerations: Centrifuge? Refrigerated or Rm Temp? Dry ice for shipping? Freezer storage? -20, -70 or -80?
  - See Cold Storage Slide below
- SCORE Resources:
  - ResearchHelp@URMC.Rochester.edu
  - SCORE Chat distribution list (Sign-Up today!)

## Establishing a Budget Lab Costs: other considerations

- Point of Care (POC) Testing: Lab tests done on site with rapid results.
  - click here for information on POCT on the URMC intranet . Contact number: 275-0229.
- Processing of biological samples, biopsies, nucleic acid testing?
  - Obtain outside lab quote or URMC Clinical Trials Processing Lab (URMC-CPTL) - cost per subject or per test; cost to ship; what is NOT SOC is added to budget
  - Christopher Lane, Laboratory Director Phone: (585) 276-5574 <a href="mailto:christopher\_lane@urmc.rochester.edu">christopher\_lane@urmc.rochester.edu</a>



### University of Rochester Clinical Trials Processing Laboratory: A Technical Resource for Clinical Trials and Basic Research

#### **Christopher Lane**

Infectious Disease Division, University of Rochester School of Medicine and Dentistry, Rochester, NY 14642

#### Introduction

The University of Rochester Clinical Trials Processing Laboratory is a fee-for-service resource that supports clinical trials and basic science research. The laboratory is located in the Division of Infectious Diseases in the Department of Medicine, but can assist with any clinical trial conducted at the URMC. The laboratory provides technical services including processing of blood and tissue samples for PIinitiated, pharmaceutical and NIH-funded clinical trials, as well as shipment of specimens according to study protocols. The laboratory follows Good Clinical Laboratory Practices (GCLP), and is externally monitored for GCLP compliance. The laboratory is staffed by 4 fulltime trained technicians and part-time support staff.

#### **Facilities**

- (5) Biological safety cabinet /centrifuge work stations (BSL-2/BSL-2+)
- (6) -80°C storage freezers
- (4) Liquid nitrogen storage tanks
- (total capacity > 60,000 vials)
- The hours of operation are from 8:30 am to 9:00 pm, Monday-Friday.
- Access to tube station
- Automated cell counters

#### **Processing**

Laboratory staff are proficient in preparing a variety of specimen derivatives such as:

Blood:

Peripheral blood mononuclear cells (PBMC) Serum Plasma

- Compartmental Specimens:
  - Nasal (swabs, wicks)
  - Saliva
  - Semen
  - Urine
  - Rectal
  - Cervical (lavages, brushes)
  - Cerebral spinal fluid
- Tissue biopsies
  - Lymph nodes
  - Cervical
  - Liver
  - Endometrial
- Nucleic Acids: DNA extraction from blood or tissue

#### **LDMS Database**

All primary specimens and processed aliquots are entered into the Laboratory Data Management System (LDMS) for the purpose of

- Inventory control
- Barcode labeling
- Shipping manifest

#### Shipping

- IATA trained: All staff members are certified by the International Air Transportation Authority to ship diagnostic specimens.
- The lab is proficient in shipping domestically and internationally.
- The lab is experienced with most national testing labs, such as Covance, Quest, Esoterix, Labcorp, and PPD.
- The lab is experienced in shipping with ice packs, dry ice, or with nitrogen vapor phase dry shippers.
- We can ship using any carrier.

#### **Laboratory Contacts**

Christopher Lane

Laboratory Director Phone: (585) 276-5574

christopher lane@urmc.rochester.edu

<u>Laboratory Technologists</u>
Diane Vosefski, Dan Krysinski, Cassandra
Newkirk, Terry Shepard



#### **Cold Storage Core: A University Resource for Investigators**

#### Christopher Lane

#### Infectious Disease Division. University of Rochester School of Medicine and Dentistry. Rochester, NY

The Cold Storage Core (CSC) Facility is an alarmed and environmentally controlled area that provides a secure on-site environment for long-term storage of research materials at the main medical center campus. UR facilities also maintains four spare -80°C freezers in the CSC for emergency use by UR investigators.

Space for ~50 freezer units

Key Card Entry Control

Preventive maintenance is performed on all units by University Facilities twice per year including:

- 1. Check alarm set points (high & low)
- 2. Check alarm operation with facilities customer support center (requires alarm point installation)
- 3. Check backup battery
- 4. Test temperature LED & chart recorder; calibrate if necessary
- 5. Inspect all gaskets and hinges
- 6. Check indicator lights for proper operation
- 7. Clean condenser
- 8. Check running load amps on 1st & 2nd stages
- 9. Inspect insulation
- 10. Check system for irregular noises
- 11. Check system for obvious leaks
- 12. Check thermistor temperatures 1-5
- 13. Check heat exchanger temperature
- A report of PM completion including unit status and maintenance recommendations will be sent to each user.
- ❖ 24 hour emergency alarm notification (requires alarm point installation). Alarm point tests are performed once per year on all units.
- ❖ Spare freezers are available to all URMC investigators.
- ❖ Fees: PI-Owned Long Term Resident Users: ~\$55.00 per month Emergency Spare Freezers: \$50 per week prorated by time and by fractional volume of freezer space utilized
- ❖ Adding new freezers to the Core will occur on a first-come-first-serve basis
- Space is Currently Available

**CONTACT:** 

Christopher Lane, SrTA CSC Core Director Phone: (585) 276-5574

christopher lane@urmc.rochester.edu

### **Establishing a Budget**

### **TIP: URMC Lab Documentation**

✓ Lab Directors' CVs; CLIA, CAP certificates for all the lab sites, at:

https://www.urmc.rochester.edu/pathology-labs/clinical/permits-certifications.aspx

✓ Lab value Ranges: Documentation at: <a href="https://www.testmenu.com/rochester?redir=www.stronghealth.com/services/pathologylabmed/testsearch.cfm">https://www.testmenu.com/rochester?redir=www.stronghealth.com/services/pathologylabmed/testsearch.cfm</a>. You can locate the standard reference ranges in the right hand side column

## Establishing a Budget $P2 = Visit \ Procedures$

What equipment is required?

Is it available and free as part of P1 or not?

E.g., Is portable ECG machine in clinic, or will you need to contract for it?

What if a test is required that is standard elsewhere but not here?

Will sponsor supply the item, or do you need to find item, order and add cost to budget? (E.g., nasal speculum)

 What if it's a 'specialty' procedure? You have to involve other departments to conduct

## Establishing a Budget P2 = Imaging Procedures

- MR/MRI, CT/CAT scans, Ultrasound, GI procedures, X-rays:
  - ❖ The UR Department of Imaging Sciences: <u>Learn more about starting a clinical trial</u>.
  - JoAnne M. McNamara, RN, ANP, BC <u>JoAnne\_McNamara@URMC.Rochester.edu</u>
- Specialty MRI: Rochester Brain Imaging (RCBI)
  - Contact Judy Ripton <u>jripton@rcbi.rochester.edu</u>

## Establishing a Budget P2 = Other Medical Procedures

- Electrocardiogram (ECG/EKG)
  - Heart Station: Christine Izzo for logistics set up; Abbie Chizuk for billing set up; per EKG fee
- Electroencephalogram (EEGs):
  - ❖ Epilepsy Center Steve Erickson, 5-8856
- Other Special Raters: cardiology, neuro, ophthalmology: <a href="https://sites.mc.rochester.edu/department-intranet-sites">https://sites.mc.rochester.edu/department-intranet-sites</a>
- Assessments, Questionnaires
  - Cost to obtain or get permission to use?
  - Is there a cost associated with training?

## Establishing a Budget P3 = People = Time and Effort

### Life-cycle of a CRT:

- Study start-up efforts
- Conducting Study Procedures
- Documentation
- Study Visit Follow-Up
- Close-Out



# Establishing a Budget P3 = People Costs Study Start Up Costs

### Preparation of regulatory documents/send to Sponsor

- 1572, CV's, licenses, HSPP/GCP Certificates
- Obtaining Approvals: RSRB/WIRB submission
- Pre-Site Selection, Site Initiation, Investigator Meetings
- Study team training & document preparation
- Any other special training needed? (e.g., IATA; studyspecific assessments; phlebotomy)
- Electronic Data Capture & IVR/IWR training
- Budget preparation and negotiations/ORPA workbook

# Establishing a Budget P3 = People Costs Study Start-Up Costs = SC (& PI) Time

- Contacting and meeting with stake-holders, services, internal and external
  - Investigational Drug Service (IDS): meeting with Steve Bean and Carol Cole
  - Medical Directors and Nurse Managers; Clinical Research Center (CRC), "P1" contact folks
  - Conversations and forms to get labs, imaging, etc. set-up
  - ➤ TRAINING STUDY TEAM creating documents, setting up meetings, doing training

# Establishing a Budget P3 = People Costs Ask for Study Start-Up Costs

- Estimate time & effort required to progress from Initial Contact to Site Initiation Visit (or Enrollment?)
- Time & Effort not otherwise captured in study budget
- Depending on complexity of the study, a one time non-refundable start-up cost may range from \$3,000 to \$10,000 may be reasonable.

### Establishing a Budget

## P3 = People Costs Conducting Study Procedures

### Typically underpaid for:

- Medical History How far back; Do you need to request records?
- Inclusion/Exclusion Eligibility Requirements How many? How complicated to assess?
- Informed Consent
  - Simple or Complex study?
  - Setting: Outpatient clinic; ED or ICU
  - Patient, Parent or LAR?

Sponsor may give you a dollar amount for these and other 'standard tasks'. Is it fair, accurate for time spent?

## Establishing a Budget P3 = People = Time & Effort **Conducting Study Procedures**

- Protocol Driven look to study task chart, per visit
- Lab tests: central or local who is doing sample collection; processing; order or pick-up dry ice; packing and shipping? Calculate SC, nurse or other investigator's effort per visit; transferring results to EDC
- Vitals; physical/neurologic/dermatologic/eye exams; EKGs; biopsies; any special set up? Who is allowed to conduct? PI/Sub-I/SC? How much time for ALL steps involved?
- Special raters: cardiology, neuro, ophthalmology: https://sites.mc.rochester.edu/department-intranet-

sites

## Establishing a Budget P3 = People Costs

### Time and Effort *related* to P2 (Procedures):

- Drug: inventory control; ordering; pick-up/drop-off by IDS; infusion time; pill counts; IP accountability; train subject on compliance, re-train subject on compliance
- Imaging: SC time to schedule, walk-over, wait, document
- Time to train subject on and to review: Assessments; Questionnaires; Surveys; Diaries
- Travel time to visit site from your usual location

TIP: Go back over P2 items (procedures) and calculate REALISTIC time/effort per item, add to cost

### **Establishing a Budget**

## P3 = People Costs - get the right rate WHO?? For How Long??

### Time to complete Study visits:

Who does what & how long does it take?

- PI/Sub-l's
- Project/Study Coordinator
- Nursing level of support?
- Patient (or other type) Technical help
- Overtime included for after hours, holiday or weekends?

TIP: Overtime for study team allowed IF sponsor pays, so include in budget, time + overhead

# Establishing a Budget P3 = People Costs Study Visit Documentation & Follow-Up

- Creating/updating/completing source
- ECD/eCRF inputting
- Answering Queries
- AE and SAE process and follow-up
- Safety Report Documentation
- Monitor Visits preparing and conducting
- Updating regulatory docs and IRB approvals

## Establishing a Budget P3 = People Costs & 'Other'

- Overhead: 30% for industry-sponsored
- For multiyear studies, include an inflationary percentage (3%)
- Biostatistician Brian Griebner 5-2407 or Susan Messing 5-0343 for consulting service, hourly billing
- Cost of Advertising, Recruiting materials, paper, postage, other??

## Translating the Budget into a UR Workbook

Using the simple study synopsis and task chart we have created, Beth will show how these costs go into a workbook and provide guidance on 'Participant grid' vs. Non-Participant grid; keeping SOC out of the study costs





MEDICINE of THE HIGHEST ORDER