

# Planning & Budgeting for Clinical Trials

# Learning Objectives

After completion of this course, the learner will be able to:

- Identify key components of a clinical research budget
- Increase your confidence level in supporting the budget negotiation process with a corporate clinical research sponsor



# MUSC Clinical Research Liaisons

The Office of Clinical Research welcomes any feedback or suggestions from our clinical research collaborators.

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# Research Opportunities & Collaborations (ROC)

Matching study opportunities with investigators

Study opportunities & Industry Partnerships

Investigator outreach & key research contacts

Feasibility & site selection support

 IQVIA™

 PPD®

 ICON

 parexel®

 TriNetX

 TRIAL INNOVATION NETWORK

 **STAR** Stakeholders, Technology, and Research CRN

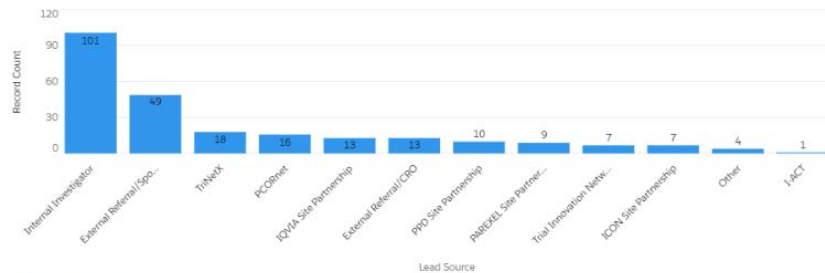


# COVID-19 Research Opportunities; Strategic Approach

## Highlights:

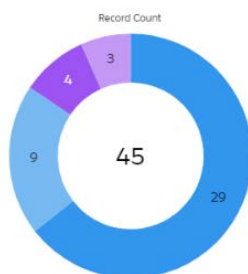
- 232 studies vetted
- 17 in start up
- 45 active
- 3 enrollment closed

COVID-19 Lead Source



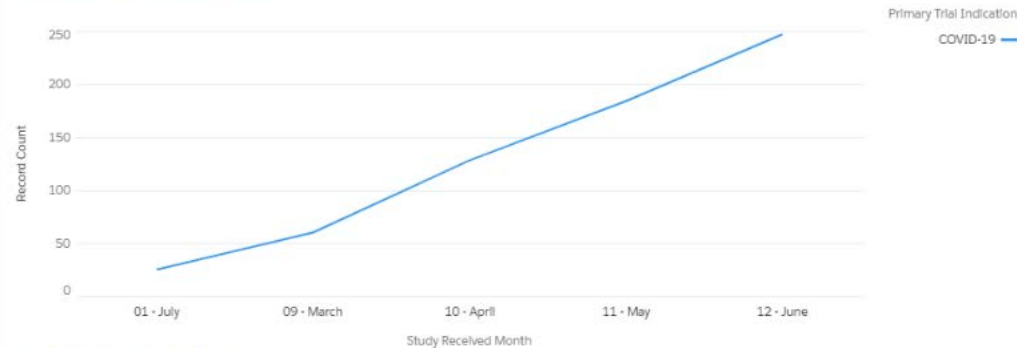
View Report (COVID-19 Lead Source)

COVID Currently Running Trials by Category



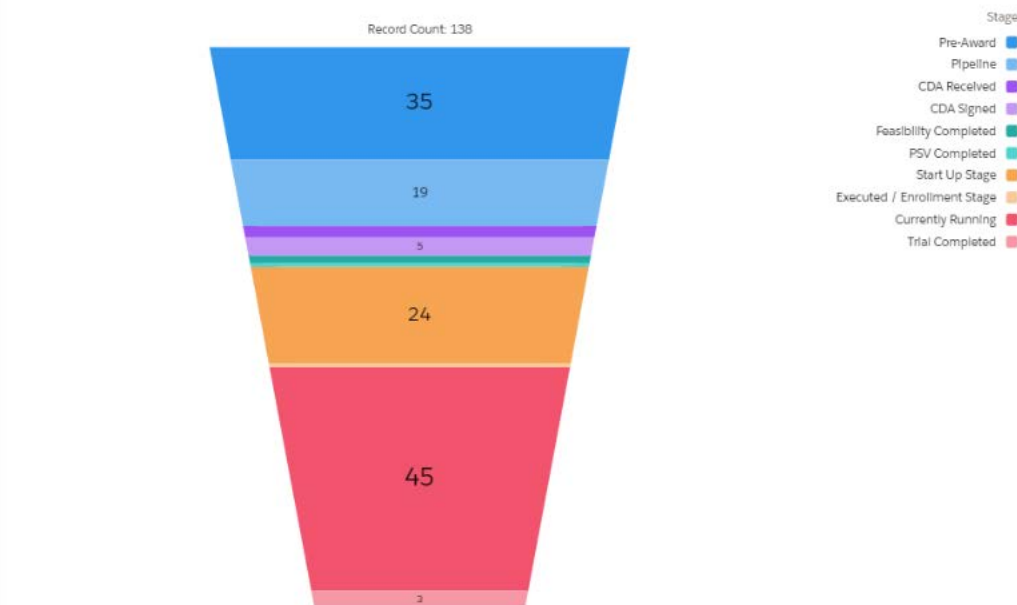
View Report (COVID Currently Running Trials by catigo)

Total COVID-19 Opportunities Vetted



View Report (COVID-19 Studies by counts)

COVID-19 Trial Pipeline Report



View Report (COVID-19 Trial Pipeline Report)



# Moving to Remote & Virtual Trials during COVID-19

<https://research.musc.edu/resources/sctr/research-resources/remote-and-virtual-trials>

## SCTR Institute

Research Resources

Nexus

Remote & Virtual Trials

SUCCESS

Tools & Links



Subscribe To Our Newsletter



Cite the Grant

### Contact Us

SCTR SUCCESS Center

843-792-8300

[SUCCESS@muscd.edu](mailto:SUCCESS@muscd.edu)

[View Staff Resources \(login required\)](#)

 SPARCRequest

Request Services

## Moving to Remote & Virtual Trials during COVID-19



In response to COVID-19, MUSC stakeholders compiled a list of resources and instructions on this page to help guide research teams to a remote and virtual platform. Updates and new resources are posted regularly in response to emerging information.

All the latest research guidance related to the response to COVID-19 can be found on the [Research Hub](#) on the MUSC Horseshoe.

To ask a compliance question or to report a concern, you may call the [University Compliance Office](#) directly at 843-792-8652, use the [Compliance Reporting and Resource Form](#), email [univ-compliance@muscd.edu](mailto:univ-compliance@muscd.edu), or call the Confidential Hotline at 1-800-296-0296. The hotline is available to everyone 24 hours-a-day, 7 days-a-week and provides an opportunity for concerns to be reported anonymously.

## Resources for Research Teams

Investigational Product

+

Specimen Collection

+

IRB

+

eConsent

+

Approved Study Visit Remote Platforms

+

Use of Source Documentation

+

Participant Remuneration

+

Remote Monitoring

+

eSignatures Part 11 Compliant

+

Sponsor Communication

+

Participant Communication

+

Study Team Resources

+

Recruitment

+

COVID-19 Studies

+

Telehealth Billing Considerations

+



# MUSC COVID-19 Research Opportunities

<https://research.musc.edu/clinical-trials/coronavirus-clinical-trials>

## Clinical Trials

[Hollings Cancer Center Clinical Trials](#)

[MUSC Clinical Trials](#)

[South Carolina Research Studies Directory](#)

[Coronavirus Clinical Trials](#)

## Coronavirus Clinical Trials

MUSC is meeting the challenge of the novel coronavirus, COVID-19, through research aimed at discovering vaccines and deepening understanding of how to prevent or mitigate the spread of the virus.

## Research Opportunities for Patients

[A Master Protocol Assessing the Safety, Tolerability, and Efficacy of Anti-Spike \(S\) SARS-CoV-2 Monoclonal Antibodies for the Treatment of Ambulatory Patients with COVID-19](#)

Visit [SCResearch.org](https://SCResearch.org) for more information on this study.

### Recruitment Contact:

Angela Millare  
843-792-3710  
[millare@musc.edu](mailto:millare@musc.edu)

[A Phase 2 Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety and Efficacy of AT-527 in Subjects with Moderate COVID-19](#)

Visit [SCResearch.org](https://SCResearch.org) for more information on this study.

### Recruitment Contact:

Max Lento  
843-792-9697  
[lento@musc.edu](mailto:lento@musc.edu)

[SCTR / MUSC COVID-19 Biorepository](#)

The Medical University of South Carolina (MUSC) is developing a COVID-19 biorepository which will contain blood, urine, and other bodily fluids along with relevant medical information from individuals evaluated, exposed to, or treated for COVID-19. Visit [SCResearch.org](https://SCResearch.org) for more information on this study.

## Research Opportunities for Healthcare Workers

[Healthcare Worker Exposure Response & Outcomes \(HERO\) Registry](#)

MUSC is participating in the HERO Registry, a large, national clinical research community. Healthcare workers across America may join the registry to share clinical and life experiences to understand the perspectives and problems they face on the COVID-19 pandemic front lines.

Visit <https://heroesresearch.org> to learn more and join the registry.

MUSC Contact for questions regarding the HERO Registry:

Elizabeth Szwast  
843-792-4457  
[hinsone@musc.edu](mailto:hinsone@musc.edu)

## Closed Studies

Rapid In-Home SARS-CoV-2 IgG Antibody Testing to Assess Community Level Immunity in Health Care Workers Working in High Risk Exposure Settings

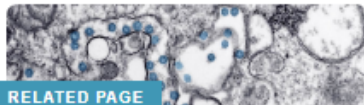
**Status: Closed**

[A Phase II, Open-Label, Randomized, Multicenter Study to Investigate the Pharmacodynamics, Pharmacokinetics, Safety, and Efficacy of 8 mg/kg or 4 mg/kg Intravenous Tocilizumab in Patients with Moderate to Severe COVID-19 Pneumonia](#)

**Status: Enrollment closed**

[Outcomes Related to COVID-19 Treated with Hydroxychloroquine among In-patients with Symptomatic Disease](#)

**Status: Enrollment closed**



RELATED PAGE

### Coronavirus Information

MUSC Health is closely monitoring the outbreak of the coronavirus (COVID-19). The safety of our patients & care team is our number one priority.



RELATED NEWS

### COVID-19 Anxiety

The health, financial and psychological impact of COVID-19 is unprecedented and at this point, includes a lot of unknowns.





# Vaccine Study: AZD1222 for the Prevention of COVID19

Sample Size: 30,000 USA

MUSC: 1,500 participant target

Study design:

- › Adults  $\geq 18$  years
  - › Healthy or stable chronic diseases
  - › At increased risk for SARS-CoV-2 / COVID-19
- › 2:1 randomization ratio
  - › 2 IM doses of AZD1222 or placebo, Days 1 and 29
  - › Stratified by age ( $\geq 18$  to  $< 65$  years;  $\geq 65$  years)
  - ›  $\geq 25\%$  to be enrolled in  $\geq 65$  age stratum
- › Efficacy & safety assessed for 2 years



<https://www.cnbc.com/2020/07/20/oxford-universitys-coronavirus-vaccine-shows-positive-immune-response-in-an-early-trial.html>





# CRO Partnership / Study Team Spotlight

## Fast Tracked COVID-19 Clinical Trial Success!

- MUSC team 3<sup>rd</sup> leading recruiter out of 25 sites
- Dr. Nadig's 1<sup>st</sup> experience as PI, now leading a follow up study
- Charleston and Florence patients
- PPD CRO Partnership



# Budgeting Process

Feasibility &  
Planning

Sponsor & Internal Feasibility

Prospective  
Reimbursement  
Analysis

Who will pay for protocol procedures?

Internal Budget  
Development

Personnel, per patient costs, site level

Budget  
Negotiation

Negotiations and justification

ePDS &  
Contract  
Negotiation /  
Execution

Internal routing & approvals



First Contact > Confidentiality Agreement



Feasibility Survey



Site Qualification Visit



Budget and Contracting



Protocol-packet



IRB



Investigator Meeting



Site Initiation Visit



Recruitment



Data entry  
Monitoring  
Queries



Study Conduct



Invoices



Data analysis



Reporting-publication





## How many patients do we have?

- › How many will qualify considering protocol inclusion/exclusion?
  - › Self-service patient count tools (Epic SlicerDicer, MUSC i2b2)
  - › Patient registries (Hollings, other)
- › How many patients will you need to approach?
- › Anticipated screen failure rate?
- › Anticipated drop out rate?





## How many patients is the sponsor expecting?

- › What will be in the contract/informed consent?
- › Is the target realistic?
- › Poor enrollment = bad value for the sponsor
- › It is better to meet your contracted number and request to amend the contract than to over promise and under deliver!



# Self-Service Query Tools

**Cogito**  **SlicerDicer**

 **TriNetX**

**i2b2** Query & Analysis Tool



# Self-Service Research Data & Feasibility Consultation Service



South Carolina  
Clinical & Translational  
Research Institute



SPARCRequest SPARCDashboard SPARCInfo

Login / Sign Up



## STEP 1: Add/Update Services

Browse Service Catalog

Medical University of South Carolina

CEDAR: Comparative Effectiveness and Data Analytics Research Resource

Center for Biomedical Imaging

Center for Genomics Medicine

ClinCard by Greenphire

Cores & Facilities

Laboratory Services

National Center of Neuromodulation for Rehabilitation (NC NM4R)

Office of Clinical Research

feasibility

Self-Service Research Data & Feasibility

SCTR's Research Data Access & Feasibility team can help you navigate the process of accessing clinical data to evaluate your study's feasibility. Our consultative meeting topics include research feasibility considerations, data access needs, research data request services, and/or study-specific guidance using our self-service tools: Epic's SlicerDicer and CDW Research Query Tool. The team will also work to discuss a myriad of other feasibility considerations and facilitate matching to other service providers, as needed for successful implementation of your study.

Self-Service Research Data & Feasibility Consultation

Show Details

Add

News

Center for Biomedical Imaging(CBI) Services Now Available In SPARCRequest  
Jul 10, 2019

2019-2020 SCTR Technology Development Grants Funding Is Now Open to Applications

Calendar

Jul 18

SPARC OS \_Operations Review  
3:00 PM - 4:00 PM  
Show Details

Jul 19

SPARC OS Governance: Operations and Logistics

My Services

Open

Completed

Self-Service Research Data & Feasibility (0001)

Self-Service Research Data & Feasibility Consultation

Continue

Help/FAQs

Feedback

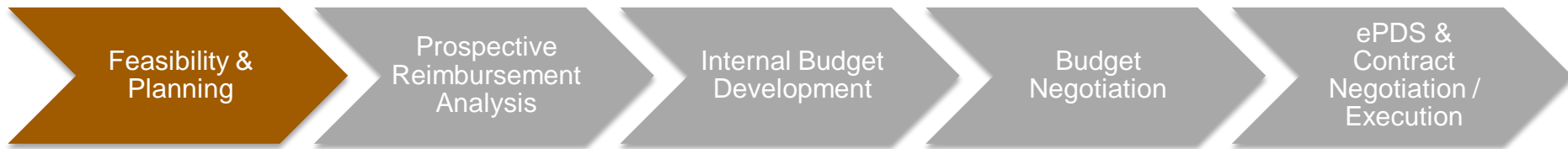
Contact Us



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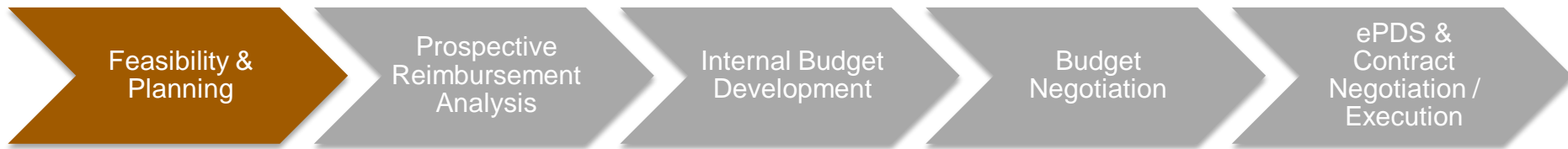






- Who will perform protocol related procedures, research coordination, recruitment, regulatory, store/dispense investigational product?
  - What are the personnel requirements?
  - Do we have them on staff? (i.e. Study coordinators, program assistants, etc.)
- What additional services/approvals/equipment/training may be required?





- When will the study begin and end?
  - Add additional time to the sponsor's estimate as recruitment and study duration is often longer than projected
- Where will the study be conducted, do we have the space?
- Which IRB will be utilized (local vs. central)?
- How will you reach the study's recruitment goals?
  - Clinic roster
  - Advertising
  - Epic recruitment report, BPA, etc.



# Research Coordination & Management

The SCTR Research Nexus provides a wide range of research coordination and management services for MUSC investigators. The research coordinator staff includes experienced, trained, and VA-credentialed personnel, as well as licensed nurse coordinators. For investigators seeking assistance with management of multi-site trials or day-to-day oversight of research programs, project management services are available.

## Services

- Study management and coordination
- Project management
- Regulatory management
- Budget development
- Data management
- Recruitment
- Invoicing and billing
- Quality assurance reviews
- Study assessments (semi-structured interviews, psychometric testing)
- Social-behavioral interventions
- Study record and drug storage for active studies
- Inpatient, outpatient, and outlying clinics, Ralph H. Johnson Veterans Administration
- Support for MUSC researchers for full, partial, or VA-funded studies

## SCTR Institute

◀ | Research Nexus

Coordination & Management

Research Laboratory

Clinical Nursing & Nutrition

Nexus Research Center



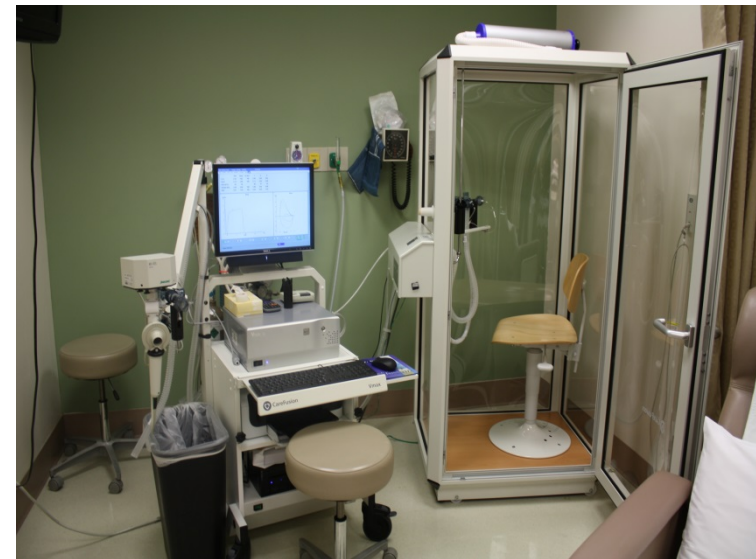
# SCTR Research Nexus

## Phase 1-4 Research Center & Hospital Provider Based Clinic

Outpatient, Inpatient & Mobile Nursing  
Chemotherapy & Biotherapy Certified Nurses  
Nutritionist



6 Examination Rooms  
6 Procedure Rooms  
1 Infusion Suite



Pulmonary Function Testing Suite



# SCTR Research Nexus Laboratory



Qiagen Autopure for Large Volume Automated DNA Extraction



Fume Hood for Hazardous Chemical Handling and Stool Preps



Laminar Flow Hood for PBMC Processing and Aseptic Methods



Six -80°C Freezers, One -20°C Freezer and Two 2-8°C Refrigerators

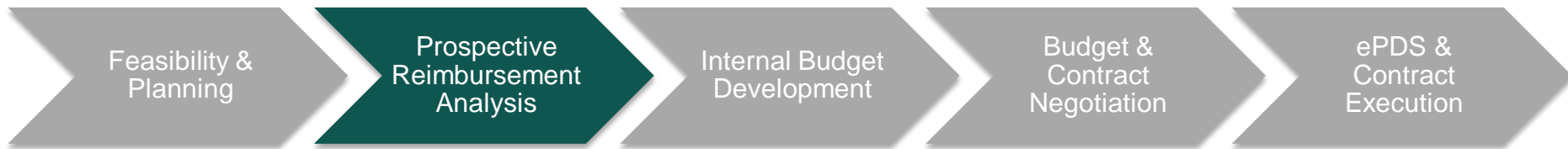


# Investigational Drug Services (IDS)

- Monday through Friday, 8AM to 4:30PM
- 6 staff
- Utilization required for inpatient studies
- All refrigerators and freezers are hooked up to back-up power and alarmed
- Temperatures are monitored remotely
  - 24 hours a day, 7 days a week
  - CheckPoint monitoring system







## Who will pay for protocol procedures?

### Clinical Trials National Coverage Decision (NCD)

- › Intended to extend coverage for routine clinical costs for certain qualifying clinical trials
- › Prior to this directive Medicare did not pay for any costs associated with the care of patients enrolled in a clinical trial
- › Encourage the participation of older Americans in clinical trials (esp. cancer)

### Routine Costs

- › Items and services considered conventional care
- › Can include items and services for prevention, diagnosis, or treatment of complications associated with the clinical trial







## Routine Care vs. Research Costs

- › Routine Care are services that would be provided to the patient regardless of study participation (billable to insurance)
- › Non-covered services/non-routine services are procedures completed strictly for research purposes (billed to sponsor)

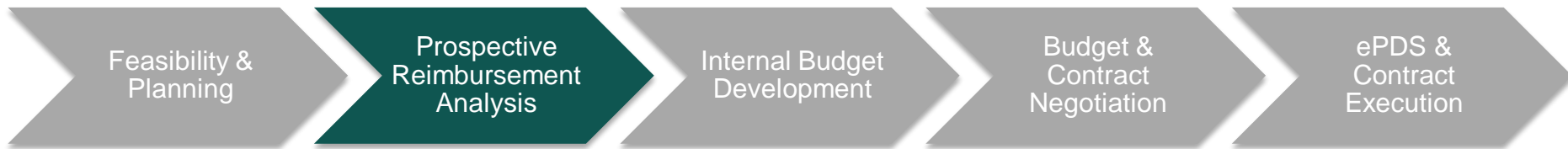
## Routine Care vs. Standard of Care

- › Routine Care or Conventional Care are services that are covered by Medicare
- › Standard of Care may include services not covered by Medicare

***“Physician practices should remember that ‘necessary’ does not always constitute ‘covered’....”***

OIG Compliance Program Guidance for Individual and Small Group Physician Practices  
(October 5, 2000)





## Risks Associated with Research Billing Non-Compliance

### Institutional clinical research billing risks:

1. Billing for services already paid by the sponsor (double billing)
2. Billing for services promised free in the informed consent
3. Billing for services that are for research-purposes only
4. Billing for services that are part of a non-qualifying clinical trial





## Clinical Research Billing Principles

Medicare requires a three-part process for clinical research services coverage:

1. Does the study “qualify” for coverage?
2. What items and services are “routine costs”?
3. Do Medicare rules allow coverage of specific “routine costs” within a clinical trial?





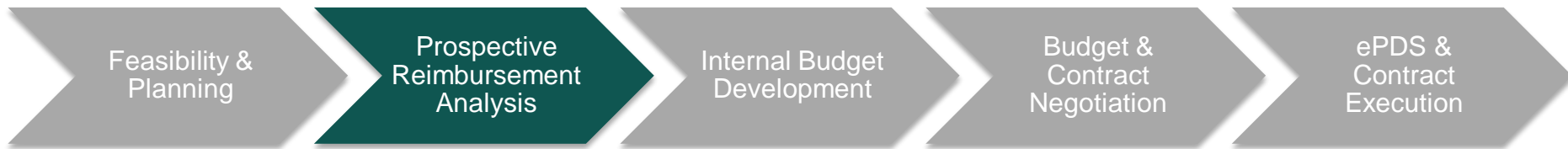
## MUSC Office of Clinical Research (OCR)

### Prospective Reimbursement Analysis (PRA) Process

- › Informs the budgeting process
- › Sets up research billing calendar
- › Used for monitoring & auditing clinical research billing compliance
- › Tool to evaluate financial status of a study

Each MUSC Department has assigned a liaison as the primary point of contact with the OCR for Prospective Reimbursement Analysis (PRA) Process





## All studies with the potential to include MUSC Health billable services will require a Prospective Reimbursement Analysis by the Office of Clinical Research

- › OCR PRA team will partner with study teams to:
  - › Map out research workflow
  - › Provide feasibility analysis support
  - › Build research billing calendar
  - › Inform pricing for CPT coded services in study budgets
  - › Ensure billing compliance harmonization of documents
- › Oncology trials will be included after initial May 1<sup>st</sup> phase-in

OCR PRA Service will be requested in SPARCRequest®

Regulatory and start up packet, essential documents required



# Prospective Reimbursement Analysis Service Request

## About SPARCRequest

Browse Service Catalog

Medical University of South Carolina

South Carolina Clinical and Translational Research Institute (SCTR)

Center for Genomics Medicine

Media Training for Researchers

CEDAR: Comparative Effectiveness and Data Analytics Research Resource

Office of Clinical Research (OCR)

Billing Compliance - Prospective Reimbursement Analysis (PRA)

Research Opportunities and Collaborations

Participant Remuneration

Search by Service Name or CPT Code...

Billing Compliance - Prospective Reimbursement Analysis (PRA)

The Prospective Reimbursement Analysis (PRA) team is responsible for reviewing all clinical research documents, developing the Study Billing Plan, providing pricing for MUSC Health services and conducting coverage analysis to support budgeting and ensure billing compliance. The PRA Team will collaborate with the study team, MUSC Health, and Epic Research to develop accurate billing calendars. If you have any questions please feel free to contact the Office of Clinical Research at 843-792-7900 or [musc-ocr@musc.edu](mailto:musc-ocr@musc.edu). For more information regarding the PRA process, [visit our website](#).

Prospective Reimbursement Analysis

Add

Prospective Reimbursement Analysis Exemption

Add

Additional PRA Services

News

SPARCRequest Email Issue  
April 13, 2018

Calendar

No events scheduled within a month from today.

My Services

Open

Completed

Billing Compliance - Prospective Reimbursement Analysis (PRA) (0001)

PRA

Continue

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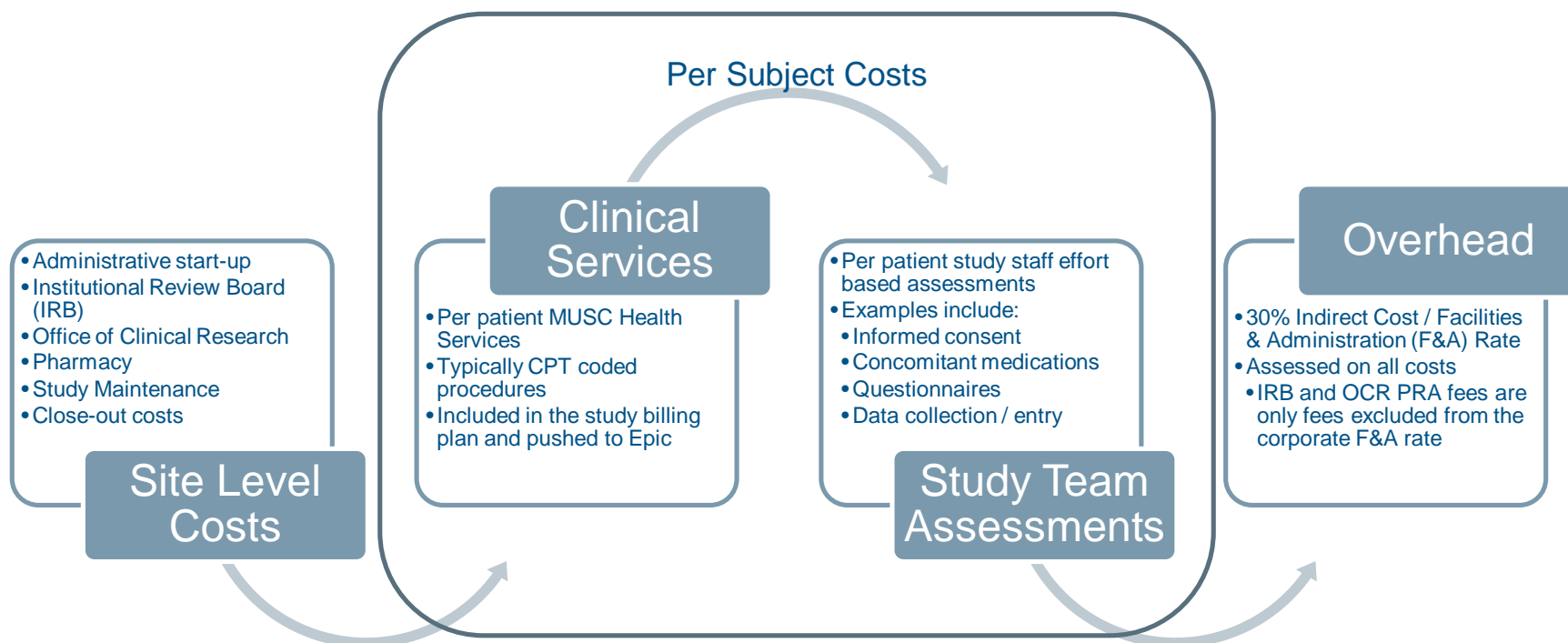
## Budget Categories

- Site level costs
- Per subject costs
- Personnel costs
- Overhead (F&A)





# Sponsor Budget Categories

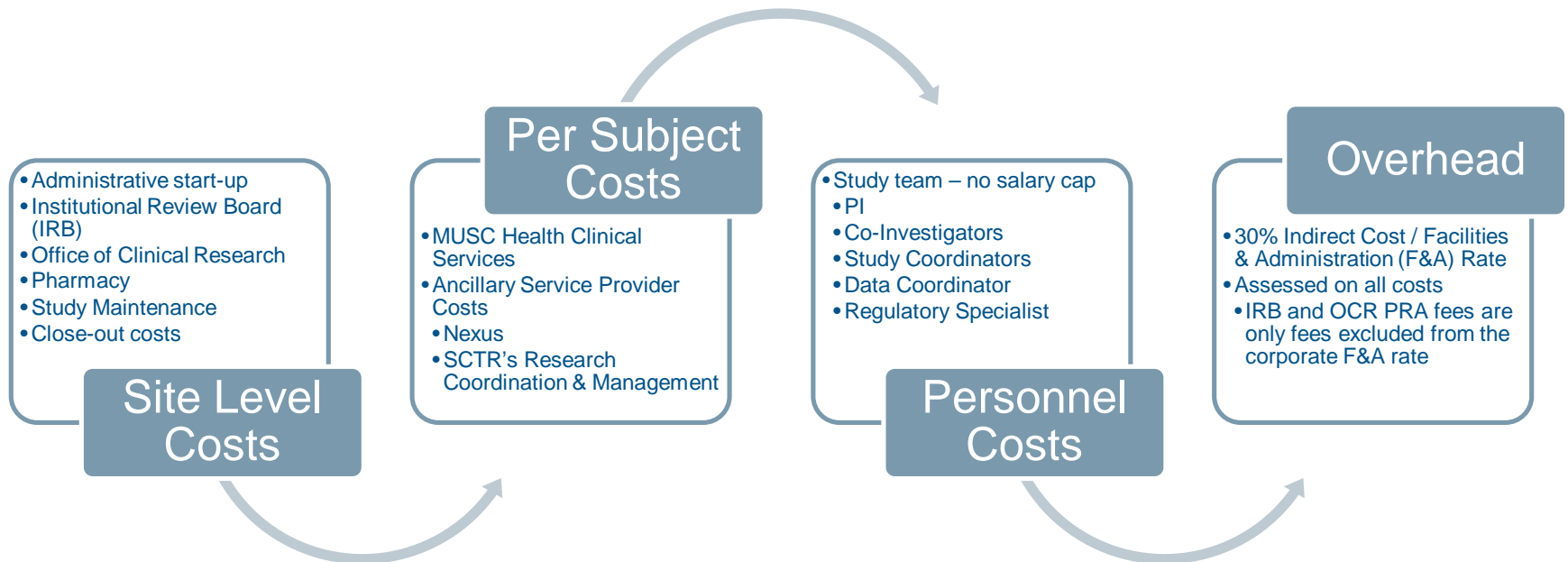


# Sponsor Proposal

Procedure	Pre-Op	Operative	6 Months	1 Year	2 Years	5 Years	7 Years	10 Years
Informed Consent	\$78							
Inclusion/Exclusion Criteria	\$44							
Medical History/Demographics	\$40							
Operative (Surgical) procedure/device		\$48						
PROMIS Global Health	\$17		\$17	\$17	\$17	\$17	\$17	\$17
Ankle Osteoarthritis Score (AOS)	\$24		\$24	\$24	\$24	\$24	\$24	\$24
FAOS Questionnaire	\$18		\$18	\$18	\$18	\$18	\$18	\$18
TAR Satisfaction			\$15	\$15	\$15	\$15	\$15	\$15
Radiographic Assessment (Investigator requirement) 1	\$119		\$119	\$119	\$119	\$119	\$119	\$119
Adverse Event Assessment		\$25	\$25	\$25	\$25	\$25	\$25	\$25
Primary Investigator Fee	\$60	\$60	\$60	\$60	\$60	\$60	\$60	\$60
Study Coordinator Fee	\$48	\$48	\$48	\$48	\$48	\$48	\$48	\$48
Data Entry	\$43	\$43	\$43	\$43	\$43	\$43	\$43	\$43
<b>One Subject</b>								<b>\$2,929</b>
Site Start-Up Fee:	\$3,000							
IRB Fee	\$1,500							
IRB Renewal Fee (per year):	\$500							
Protocol Amendment (per amendment):	\$500							
Archiving Fee At Study Close:	\$500							
Site Monitoring Fee (per visit):	\$384							
Site Close-Out Fee:	\$500							
Serious Adverse Event (per event):	\$100							
X-Rays (Outside standard of care):	\$76							
Unscheduled visits as described in the protocol and will be paid based on CRF deliverable as provided in the fee schedule above								



# Internal Budget Categories





## Site Level Costs – Start-up

These are the charges for activities spent getting a study up and running

If there is no budget agreement & contract, you will not be paid

Most of the budget captures time spent

- › Protocol review
- › Preparing a budget
- › Regulatory submission (IRB forms)
- › Pharmacy review and setup





## Site Level Costs – Other

In addition to startup there are other site level costs. Study maintenance costs, such as:

- › Freezer storage
- › Record storage
- › Monitor change fee
- › Close out costs
- › Etc.

These are often listed itemized as invoiceable costs



# Site Level Costs

These are the charges for activities spent getting a study up and running and study maintenance

- Start-up
- Service provider fees
  - Institutional Review Board (IRB) fees
  - Prospective Reimbursement Analysis (PRA) fees
  - Investigational Drug Services (IDS) fees
  - Radiology Review fees
- Per patient invoiceable items
- Study maintenance costs
- Close out costs

For more justification information, visit the [Office of Clinical Research on the horseshoe here](#)

## About SPARCRequest

Browse Service Catalog

Medical University of South Carolina

CEDAR: Comparative Effectiveness and Data Analytics Research Resource

Center for Genomics Medicine

ClinCard by Greenphire

Cores & Facilities

Laboratory Services

Media Training for Researchers

National Center of Neuromodulation for Rehabilitation (NC NM4R)

Office of Clinical Research (OCR)

Office of Research Integrity

South Carolina Clinical and Translational Research Institute (SCTR)

Study Team Assessments

Clinical Assessments

Site Level Costs

Participant Remuneration

MUHA-Medical University Hospital Authority

Hospital Services - Technical (HB)

Search by Service Name or CPT Code...

Site Level Costs

Study Team Site Level Costs are fees that are intended to cover the cost of the study activities that are required and are independent of participant accrual. These activities are divided into 6 fee category cores: Institutional Fees for Budgeting, Study Team Start-up Fees, Recruitment Fees, Per Patient Invoiceable Item Fees, Study Team Maintenance Fees, and Study Team Closeout Fees. The methodology/justification used to support the recommended fees is found in the description of each assessment. If you have any questions about these fees, justifications or suggestions for additional site level costs, please contact the Office of Clinical Research.

Institutional Fees for Budgeting

Study Team Start-Up Fees

Recruitment Fees

Patient Invoiceable Item Fees

Study Team Maintenance Fees

Study Team Closeout Fees

The Study Team Closeout Fees are site level costs that account for the time and effort required by the study team to complete study closeout requirements for an industry sponsored study.

Pharmacy: Close-Out Fee (study team managed)

Hide Details

8 hours of blended coordination time at ~\$114/hour

Service Rate: \$912.00

Federal: \$0.00 Corporate: \$0.00 Member: \$0.00 Other: \$0.00

Add

Document Storage, Archiving Total Cost

Hide Details

To be determined, based on the study document storage requirements

Service Rate: \$1200.00

Federal: \$0.00 Corporate: \$0.00 Member: \$0.00 Other: \$0.00

Add

Study Close Out: Including All Activities Related to Closing Out the Site


Hide Details

Assumes \$240 PI fee \* 2.5 hours + blended coordination \$114 \* 10 hours

Service Rate: \$1740.00

Federal: \$0.00 Corporate: \$0.00 Member: \$0.00 Other: \$0.00

Add

 **MUSC**  
Medical University  
of South Carolina

Changing What's Possible | MUSC.edu

# Site Level Costs – First Round

Other Services		Service Rate	Sponsor Unit Cost (Negotiated Reimbursement)	Research Cost (Your Cost)	Procedure Occurrence (N)	F&A Applies?	Total Cost to Sponsor (+OH)	Margin to Cover Personnel Effort
<b>Study Level Services (Pass Through)</b>								
Prospective Reimbursement Analysis (0002)		\$ 2,000.00	\$ 2,000.00	\$ 2,000.00	1	N	\$ 2,000.00	\$ -
Prospective Reimbursement Analysis Amendment Fee		\$ 500.00	\$ 500.00	\$ 500.00	1	N	\$ 500.00	\$ -
Study Start-Up Fee/Site Set-Up Fee (0005)		\$ 9,540.00	\$ 9,540.00	\$ -	1	Y	\$ 12,402.00	\$ 9,540.00
Annual Study Maintenance Fee (billing compliance, sponsor/CRO correspondence, ongoing patient)		\$ 5,544.00	\$ 5,544.00	\$ -	11	Y	\$ 79,279.20	\$ 60,984.00
Daily Monitoring Visit Fee (0005)		\$ 804.00	\$ 804.00	\$ -	12	Y	\$ 12,542.40	\$ 9,648.00
IRB Document Study Team Preparation Fee for Amendments, Continuing Reviews, Termination (0005)		\$ 582.00	\$ 582.00	\$ -	1	Y	\$ 756.60	\$ 582.00
Site Audit, Quality Audit, Clinical Trial Master File Audit (0005)		\$ 2,118.00	\$ 2,118.00	\$ -	1	Y	\$ 2,753.40	\$ 2,118.00
Document Storage, Archiving Total Cost (0005)		\$ 1,200.00	\$ 1,200.00	\$ -	1	Y	\$ 1,560.00	\$ 1,200.00
Study Close Out: Including All Activities Related to Closing Out the Site (0005)		\$ 1,740.00	\$ 1,740.00	\$ -	1	Y	\$ 2,262.00	\$ 1,740.00
Initial Protocol Review (0006)		\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	1	N	\$ 2,500.00	\$ -
Continuing Review (0006)		\$ 750.00	\$ 750.00	\$ 750.00	11	N	\$ 8,250.00	\$ -
IRB Amendment (0006)		\$ 500.00	\$ 500.00	\$ 500.00	1	N	\$ 500.00	\$ -
Imaging Protocol Review (Level 1) (0009)		\$ 300.00	\$ 300.00	\$ 300.00	1	Y	\$ 390.00	\$ -
Serious adverse events (SAE)		\$ 348.00	\$ 348.00	\$ -	1	Y	\$ 452.40	\$ 348.00
<b>Study Level Services: Total Cost</b>							<b>\$ 126,148.00</b>	<b>\$ 86,160.00</b>





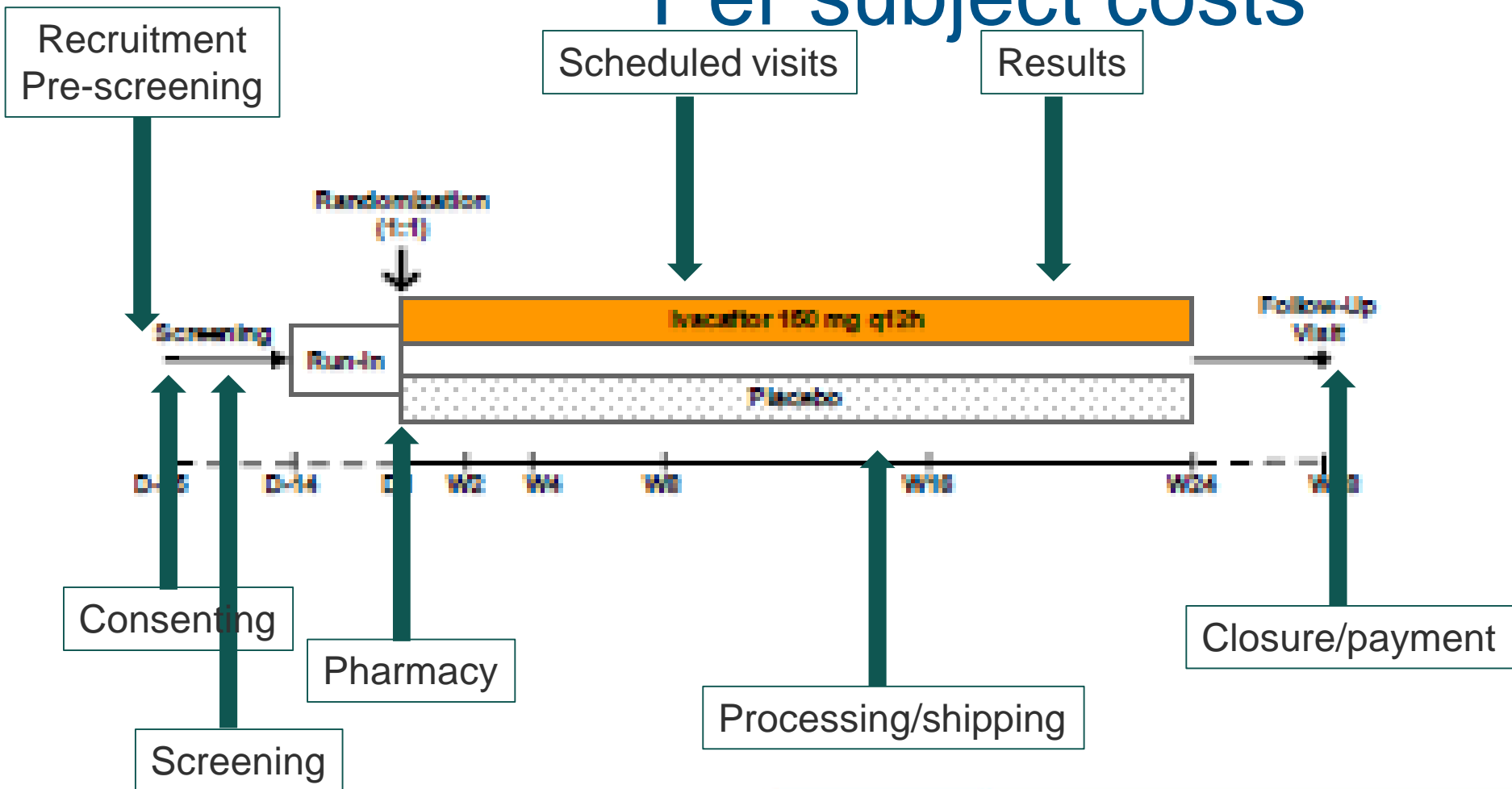
# Site Level Costs – Final

Other Services	Service Rate	Sponsor Unit Cost (Negotiated Reimbursement)	Research Cost (Your Cost)	Procedure Occurrence (N)	F&A Applies ?	Total Cost to Sponsor (+OH)	Margin to Cover Personnel Effort
<b>Study Level Services (Pass Through)</b>							
Prospective Reimbursement Analysis (0002) - fee not accepted by sponsor	\$ 2,000.00	\$ -	\$ 2,000.00	1	N	\$ -	\$ - 2,000.00
Clinical Research Fee - will cover most of the OCR PRA fee	\$ -	\$ 1,528.00	\$ -	1	N	\$ 1,528.00	\$ 1,528.00
Study Start-Up Fee/Site Set-Up Fee (0005)	\$ 9,540.00	\$ 3,860.00	\$ -	1	Y	\$ 5,018.00	\$ 3,860.00
Administrative Fee (billing compliance, sponsor/CRO correspondence, ongoing patient screening/r	\$ 5,544.00	\$ 2,000.00	\$ -	1	Y	\$ 2,600.00	\$ 2,000.00
Daily Monitoring Visit Fee (0005)	\$ 804.00	\$ 804.00	\$ -	12	Y	\$ 12,542.40	\$ 9,648.00
IRB Document Study Team Preparation Fee for Amendments, Continuing Reviews, Termination (0	\$ 582.00	\$ 580.00	\$ -	12	Y	\$ 9,048.00	\$ 6,960.00
Site Audit, Quality Audit, Clinical Trial Master File Audit (0005)	\$ 2,118.00	\$ 1,650.00	\$ -	1	Y	\$ 2,145.00	\$ 1,650.00
Document Storage, Archiving Total Cost (0005)	\$ 1,200.00	\$ 771.50	\$ -	1	Y	\$ 1,002.95	\$ 771.50
Study Close Out: Including All Activities Related to Closing Out the Site (0005)	\$ 1,740.00	\$ 1,100.00	\$ -	1	Y	\$ 1,430.00	\$ 1,100.00
Initial Protocol Review (0006)	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	1	N	\$ 2,500.00	\$ -
Continuing Review (0006)	\$ 750.00	\$ 750.00	\$ 750.00	11	N	\$ 8,250.00	\$ -
IRB Amendment (0006)	\$ 500.00	\$ 500.00	\$ 500.00	1	N	\$ 500.00	\$ -
Imaging Protocol Review (Level 1) \$428 of this fee will go to OCR PRA	\$ 300.00	\$ 629.00	\$ 300.00	1	Y	\$ 817.70	\$ 329.00
Obtain copies of diagnostic films, X-rays	\$ 76.00	\$ 76.00	\$ -	1	Y	\$ 98.80	\$ 76.00
Serious adverse events (SAE)	\$ 348.00	\$ 200.00	\$ -	1	Y	\$ 260.00	\$ 200.00
<b>Study Level Services: Total Cost</b>						<b>\$ 47,740.85</b>	<b>\$ 26,122.50</b>





# Per subject costs



# Per Subject Costs: Events During Study

**SCHEDULE of EVENTS**

Procedures	Pre-op	Op.	6 mo +/-30 days	1 yr +/-60 days	2 yr +/-60 days	5 yr +/-60 days	7 yr +/-60 days	10 yr +/-60 days	Study Close
Informed Consent	X								
Inclusion/Exclusion Criteria	X								
Medical History/Demographics	X								
Operative (Surgical) procedure/device		X							
PROMIS Global Health	X		X	X	X	X	X	X	
Ankle Osteoarthritis Score (AOS)	X		X	X	X	X	X	X	
FAOS Questionnaire	X		X	X	X	X	X	X	
Total Ankle Replacement Satisfaction			X	X	X	X	X	X	
Radiographic Assessment (Investigator requirement)	X		X	X	X	X	X	X	
Adverse Event Assessment			X	X	X	X	X	X	
End of Study									X
Surgical Intervention <sup>1</sup>									
*Sponsor-approved Unscheduled Visit <sup>2</sup>									

<sup>1</sup>&<sup>2</sup> These are not scheduled time point events but will be observed for throughout study participation.



# Per Subject Costs

- CPT Coded Procedures: work with OCR PRA team
- Informed Consent
- Retention activities
- Weight / vital signs
- Demographics
- Questionnaires
- Patient remuneration + fees
- Adverse event reporting (AE)
- Blood draws
- Labs, PK samples
- Shipping Samples

## About SPARCRequest

Browse Service Catalog

Medical University of South Carolina

- CEDAR: Comparative Effectiveness and Data Analytics Research Resource
- Center for Genomics Medicine
- ClinCard by Greenphire
- Cores & Facilities
- Laboratory Services
- Media Training for Researchers
- National Center of Neuromodulation for Rehabilitation (NC NM4R)
- Office of Clinical Research (OCR)
- Office of Research Integrity
- South Carolina Clinical and Translational Research Institute (SCTR)
- Study Team Assessments
- Clinical Assessments
- Site Level Costs
- Participant Remuneration

Search by Service Name or CPT Code...



### Clinical Assessments

Study Team Clinical Assessments are activities required by a study protocol that will be performed by research team personnel effort. The Study Team Clinical Assessment fees are intended to be included in the study budget grid for per patient per visit fees to be negotiated with an industry sponsor to support study team personnel costs for study conduct. The methodology/justification used to support the recommended fees is found in the description of each assessment. If you have any questions about these fees or the justification, please contact the Office of Clinical Research.

#### 12 Lead Electrocardiogram (ECG/ EKG), study team performed and reviewed

Add

[Hide Details](#)

Includes: 12 Lead Electrocardiogram (ECG/EKG), study team performed and reviewed; service cost is on campus MUSC Health professional fee for 93000 as of 1/17/1019, does not include facility fee

**Service Rate:** \$143.00

**Federal:** \$0.00    **Corporate:** \$0.00    **Member:** \$0.00    **Other:** \$0.00

#### Administrative Costs- Per Visit

Add

[Hide Details](#)

To be determined, based on needs of study

**Service Rate:** \$75.00

**Federal:** \$0.00    **Corporate:** \$0.00    **Member:** \$0.00    **Other:** \$0.00

#### Adverse Events

Add

[Hide Details](#)

Assumes PI hourly rate \* 0.1 hours + blended coordination hourly rate \* 0.5 hours

**Service Rate:** \$81.00

**Federal:** \$0.00    **Corporate:** \$0.00    **Member:** \$0.00    **Other:** \$0.00

#### Collect/ Weigh Study Drug

Add

[Hide Details](#)

Assumes blended coordination hourly rate \* 0.2 hours

**Service Rate:** \$23.00

**Federal:** \$0.00    **Corporate:** \$0.00    **Member:** \$0.00    **Other:** \$0.00

#### Concomitant Medications

Add



# Service Rate versus Your Cost

- For industry funded studies, typically request full price of a service
- Difference between full cost and research rate for services can be applied to effort/personnel costs
- Remaining funds on an industry sponsored study are research contingency/development funds
- Example: ankle X-ray CPT code 73610
  - Service rate \$162 = fee sponsor pays site for the service
  - Your cost \$8.62 = research bill study will pay
  - Difference \$153.38 = personnel costs/contingency funds



# Per Patient Costs – 1<sup>st</sup> Round

																Sponsor Unit		Research Cost		# of																		Total Sponsor		Total Research																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Selected Services	CPT Code	Service Rate	Cost (Negotiated Reimbursement)	(Your Cost)	Subjects	Pre-op	Operative	6 month	1 Year	2 Year	5 Year	7 Year	10 Year	Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost Per Patient	Cost 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# Per Patient Costs – Final

Selected Services	CPT Code	Service Rate	Sponsor Unit Cost (Negotiated Reimbursement)	Research Cost (Your Cost)	# of Subjects	Pre-op	Operative	6 month	1 Year	2 Year	5 Year	7 Year	10 Year	Total Sponsor Unit Cost Per Patient	Total Research Cost Per Patient
ITAR						-14	0	180	365	730	1825	2555	3650		
						R	T	R	T	R	T	R	T	R	T
<b>Study Team Assessments(0005)</b>															
Informed Consent		\$ 174.00	\$ 125.00	\$ -	20	1								\$ 125.00	\$ -
Inclusion/Exclusion Criteria		\$ 117.00	\$ 117.00	\$ -	20	1								\$ 117.00	\$ -
Medical History with Demographics		\$ 117.00	\$ 50.00	\$ -	20	1								\$ 50.00	\$ -
Operative (Surgical) Data Collection		\$ 57.00	\$ 57.00	\$ -	20		1							\$ 57.00	\$ -
Quality of Life Questionnaire, General (QOL)		\$ 46.00	\$ 36.00	\$ -	20	1			1		1		1	\$ 252.00	\$ -
Osteoarthritis Pain Intensity Visual Analog Scale		\$ 30.00	\$ 30.00	\$ -	20	1		1	1	1	1	1	1	\$ 210.00	\$ -
Orthopaedic Outcome Score Questionnaire		\$ 46.00	\$ 25.00	\$ -	20	1		1	1	1	1	1	1	\$ 175.00	\$ -
Device/Medication Satisfaction Assessment		\$ 29.00	\$ 29.00	\$ -	20			1	1	1	1	1	1	\$ 174.00	\$ -
Investigator Radiographic Assessment Data Collection		\$ 120.00	\$ 120.00	\$ -	20	1		1	1	1	1	1	1	\$ 840.00	\$ -
Adverse Events		\$ 81.00	\$ 28.00	\$ -	20		1	1	1	1	1	1	1	\$ 196.00	\$ -
Physician- (half hour allotted for this study)		\$ 240.00	\$ 104.50	\$ -	20	1	1	1	1	1	1	1	1	\$ 836.00	\$ -
Study Coordinator		\$ 114.00	\$ 58.00	\$ -	20	1	1	1	1	1	1	1	1	\$ 464.00	\$ -
Data Entry-Per Hour		\$ 58.00	\$ 52.00	\$ -	20	1	1	1	1	1	1	1	1	\$ 416.00	\$ -
<b>Research Device (0010)</b>															
Device		\$ -	\$ -	\$ -	20		1							\$ -	\$ -
<b>Radiology (PB-Outreach)(0011)</b>															
CHG X-RAY ANKLE 3+ VW	73610	\$ 162.00	\$ 162.00	\$ 8.62	20		1		1	1	1	1	1	\$ -	\$ -
Total per Patient per Visit (-OH)						\$ 717.50	\$ 299.50	\$ 482.50	\$ 482.50	\$ 482.50	\$ 482.50	\$ 482.50	\$ 482.50	\$ 3,912.00	
Total Overhead Cost per Visit						\$ 215.25	\$ 89.85	\$ 144.75	\$ 144.75	\$ 144.75	\$ 144.75	\$ 144.75	\$ 144.75	\$ 1,173.60	
Total per Patient per Visit (+OH)						\$ 932.75	\$ 389.35	\$ 627.25	\$ 627.25	\$ 627.25	\$ 627.25	\$ 627.25	\$ 627.25	\$ 5,085.60	
Total Margin per Patient per Visit						\$ 717.50	\$ 299.50	\$ 482.50	\$ 482.50	\$ 482.50	\$ 482.50	\$ 482.50	\$ 482.50		
Total Margin per Study for per Patient Assessments	\$ 78,240.00														
<b>ITAR: Summary</b>															
ITAR: Total Cost (-OH) per Patient			\$ 3,912.00												
ITAR: Total Cost (+OH) per Patient			\$ 5,085.60												
ITAR: Total Margin per Patient			\$ 3,912.00												
MUSC increase over sponsor initial offer				74%											



# Personnel Costs

## Study Team

- › PI
- › Co-Investigators
- › Study Nurse
- › Study Coordinator(s)
- › Data Coordinator
- › Program Assistants

## Administration

- › Billing/Finance Manager
- › Regulatory Coordinator





# Considerations for estimating time

- Pre-screening: how complicated are the inclusion/exclusion criteria?
- Informed consent
  - › Estimate time to answer questions
  - › Length of Informed Consent Document
  - › Legally Authorized Representative (LAR) will take additional time
- Medical history: How big is the medical record?
- Surveys: Will the patient be able to read the entire survey?
- Drug administration: How complicated is the drug delivery?
- Visit prep and scheduling: Are there additional appointments needed?
- Specimen handling: Review the instructions carefully
- Data entry: Are data entered electronically?
- General considerations: Are you including pediatric patients?



# Personnel Costs

Study Information							
SPARC Study ID:							
RMID:							
Short Title:	ITAR						
Protocol Title:	INFINITY Total Ankle Replacement Follow-up (ITAR)						
Sponsor:	ABC Medical Supply						
Primary PI Name:	Minnie Mouse						
Business Manager:	Tinker Bell						
Funding Source:	Industry-Initiated/Industry-Sponsored						
Indirect Cost Rate:	30%						
Staff Fringe Rate:	38.4%						
Authorized Users							
Name	Role	Institutional Base	% Effort	Project Period (i)	Salary Requested	Fringe	Total
Minnie Mouse	Primary PI	\$ 225,000.00	0.5%	144	\$ 13,500.00	\$ 5,184.00	\$ 18,684.00
Donald Duck	Research Assistant/Coordinator	\$ 38,000.00	10%	144	\$ 45,600.00	\$ 17,510.40	\$ 63,110.40
Daisy Duck	General Access User	\$ -	0%	144	\$ -	\$ -	\$ -
<b>Total</b>					<b>\$ 59,100.00</b>	<b>\$ 22,694.40</b>	<b>\$ 81,794.40</b>



# Potential Hidden Costs

## Time not accounted for:

- › Screening
- › Training (including investigator meeting)
- › Monitor visits
- › Queries
- › Serious adverse events

## Supplies

- › Not all supplies will be provided (e.g. IV)



# Breakeven Analysis

## Formula assumptions:

- › All patients complete all visits
- › Study runs within the project period
- › No changes to personnel effort allocations

Study Budget		
Total Study Cost (Sponsor Cost)	\$	149,452.85
Total Margin	\$	104,362.50
Study Contingency	\$	22,568.10
Breakeven Analysis		14
Total Budget	\$	149,452.85



# Final Executed Budget in Contract

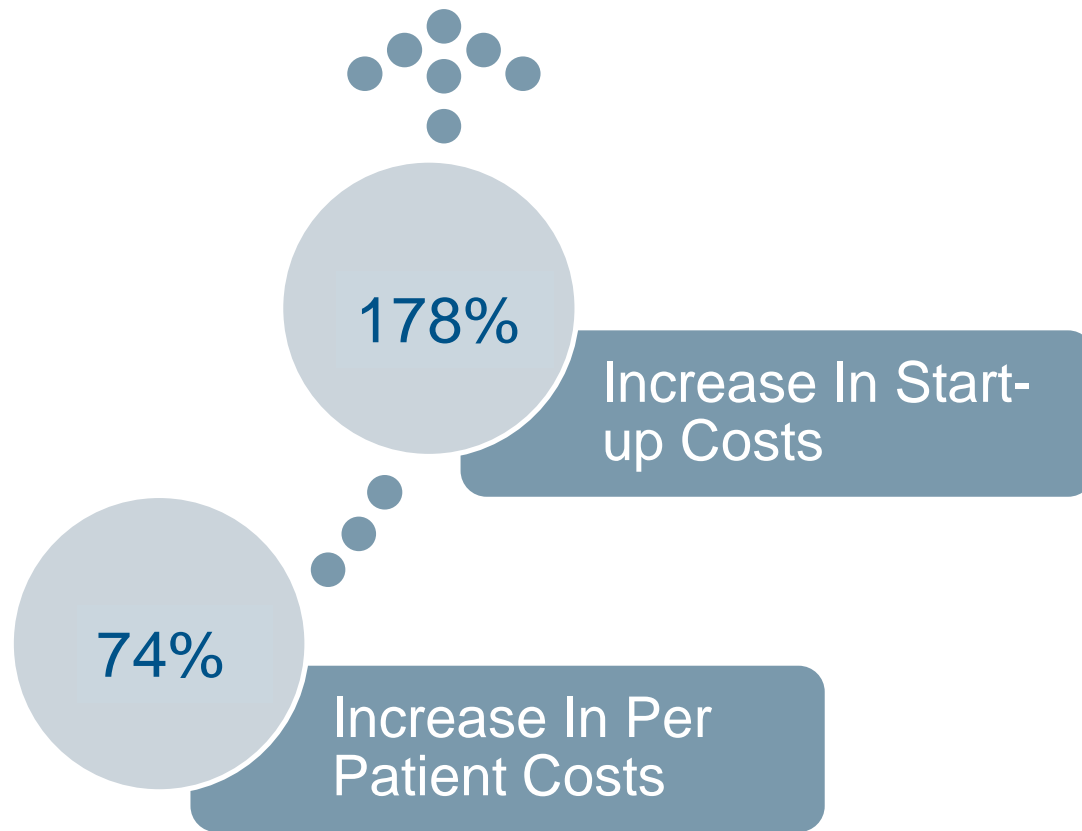
Procedure	Pre-Op	Operative	6 Months	1 Year	2 Years	5 Years	7 Years	10 Years
Informed Consent	\$162.50							
Inclusion/Exclusion Criteria	\$152.10							
Medical History/Demographics	\$65							
Operative (Surgical) procedure/device		\$74.10						
PROMIS Global Health	\$46.80		\$46.80	\$46.80	\$46.80	\$46.80	\$46.80	\$46.80
Ankle Osteoarthritis Score (AOS)	\$39		\$39	\$39	\$39	\$39	\$39	\$39
FAOS Questionnaire	\$32.50		\$32.50	\$32.50	\$32.50	\$32.50	\$32.50	\$32.50
TAR Satisfaction			\$37.70	\$37.70	\$37.70	\$37.70	\$37.70	\$37.70
Radiographic Assessment (Investigator requirement) <sup>1</sup>	\$156		\$156	\$156	\$156	\$156	\$156	\$156
Adverse Event Assessment		\$36.40	\$36.40	\$36.40	\$36.40	\$36.40	\$36.40	\$36.40
Primary Investigator Fee	\$135.85	\$135.85	\$135.85	\$135.85	\$135.85	\$135.85	\$135.85	\$135.85
Study Coordinator Fee	\$75.40	\$75.40	\$75.40	\$75.40	\$75.40	\$75.40	\$75.40	\$75.40
Data Entry	\$67.60	\$67.60	\$67.60	\$67.60	\$67.60	\$67.60	\$67.60	\$67.60
<b>One Subject</b>								<b>\$5085.60</b>

All charges below (inclusive of overhead) are study requirements and will be invoiced at the time they occur.

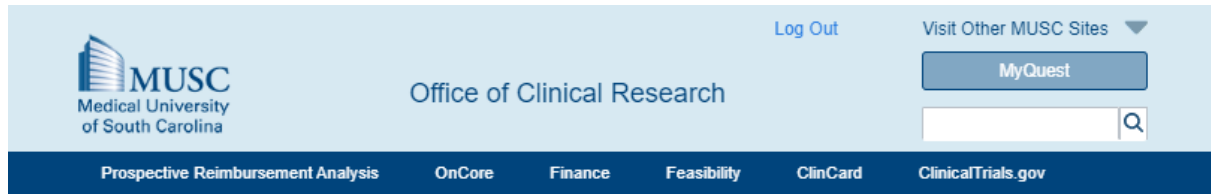
Site Start-Up Fee:	\$5,018
Administrative Fee (billing compliance, sponsor/CRO correspondence, ongoing patient screening/retention, training, administrative costs, etc.)	\$2,600
Clinical Research Fee	\$1572
IRB Fee	\$2,500
IRB Renewal Fee (per year):	\$750
Protocol Amendment (per amendment):	\$500
IRB Document Study Team Preparation Fee for Amendments, Continuing Reviews, Termination	\$754
Radiology Set-Up Fee	\$818
Archiving Fee At Study Close:	\$1,003
Site Monitoring Fee (per visit):	\$1,045.20
Site Audit, Quality Audit, Clinical Trial Master File Audit	\$1,672
Site Close-Out Fee:	\$1,430
Serious Adverse Event (per event):	\$260
Obtain copies of diagnostic films, X-Rays	\$98.80
Unscheduled visits as described in the protocol and will be paid based on CRF deliverable as provided in the fee schedule above	



# Case Study: Budgeting Impact



# OCR Finance Website Resources



[Home](#) > [Research](#) > [Office of Clinical Research](#) > [Finance](#) > Budget Negotiations

## Budget Negotiations

### Tips for Successful Budget Negotiations

The objective of the negotiation process is to end up with an appropriately funded clinical research study. As you begin negotiating, it is important to be prepared and knowledgeable about the clinical research study and to use key skills such as advanced planning, preparation and patience. Below are some tips to ensure a successful negotiation:

1. **Create an internal budget.** After reviewing the study's protocol and initial sponsor budget, create an internal version of the budget to ensure all assessments and costs are accounted for and personnel costs and study fees are captured.
2. **Know your true costs and breakeven.** It is essential that you know the true cost of your study before starting negotiations. Use your internal budget to find the number of patients you need to enroll to breakeven and have enough revenue to cover your true costs. This is a good point to evaluate if the study is right for your team based on the true cost and number of patients it is realistic to enroll.
3. **Leave room to negotiate.** Keeping your true costs and breakeven in mind, make sure you leave room to negotiate/meet in the middle.
4. **Be prepared to justify your costs.** It is important to keep in mind that sponsors can, and often will, ask you to justify certain costs on your budget and you will need to be prepared to provide them with that justification. Sponsors are often looking for justification that the fees our site is requesting are aligned with Fair Market Value (FMV). [This link](#) can will provide you with justification language samples to assist you with this part of the process.
5. **Negotiate using the sponsor's budget format.** Once you have completed the internal budget and financial analysis, translate that information into the sponsor's budget format. By doing this, you can help your sponsor contact understand your changes and may help expedite their review and revisions.

Did you know that the OCR Finance Team is available on a fee for service basis to handle your budget negotiation process for you?

For more information about OCR Finance Team services visit the Finance Team [website](#) or contact the Office of Clinical Research at [843-792-7900](tel:843-792-7900) or [OCRBudgeting@musc.edu](mailto:OCRBudgeting@musc.edu).



# Justification Documentation

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## **Instructions for use:**

***This document contains example justification documentation to support the budget negotiation process with industry sponsors for corporate clinical research studies.***

***When your study specific justification documentation is completed, please utilize your research department letterhead and save as a PDF to provide to the sponsor.***

## **Institutional Fees**

### **F&A Rate**

An overhead rate of 30% TDC is required by the Institution in order to participate in clinical research studies. This overhead rate is charged to all Pharmaceutical Companies and Device Manufacturers for all Clinical Research Studies. The 30% is charged on all costs excluding IRB fees. The overhead is taken directly from payments received and is not part of the compensation paid to the Principal Investigator.

### **Standard Holdback Language**

The standard acceptable holdback percentage for clinical research payments for industry sponsored clinical research studies in which MUSC participates is ten percent (10%).

MUSC expects that at least ninety percent (90%) of each payment due will be made under the terms of the Clinical Trial Agreement, typically upon verification of visit completion or receipt of invoice and that the balance of monies earned, up to ten percent (10%), will be paid to MUSC under the terms of the Clinical Trial Agreement, typically upon acceptance of the Case Report Forms at the end of the study.

### **Office of Research Integrity Institutional Board for Human Research (IRB) Fees**

The IRB Initial Protocol Review fee of \$2500 is charged upon initial submission for IRB review by MUSC.

The IRB Continuing Review fee of \$750 is charged annually by MUSC.

The IRB Amendment fee of \$500 is charged for IRB amendments submitted for review.







# What are Hidden Costs?

Time not accounted for:

- › Screening
- › Training (including investigator meeting)
- › Monitor visits
- › Queries
- › Serious adverse events

## Supplies

- › Not all supplies will be provided (e.g. IV)



Feasibility &  
Planning

Prospective  
Reimbursement  
Analysis

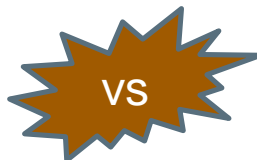
Internal Budget  
Development

Budget  
Negotiation

ePDS &  
Contract  
Negotiation /  
Execution

## Internal Budget

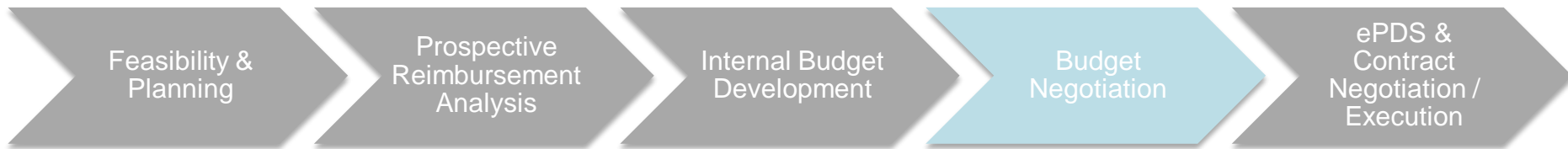
- › Actual costs/activity
- › Contingency Funds
- › Project Period
- › Personnel effort
- › Breakeven analysis
- › Indirect cost on (almost) all costs
- › Max compensation calculation (ORSP)



## Sponsor Budget

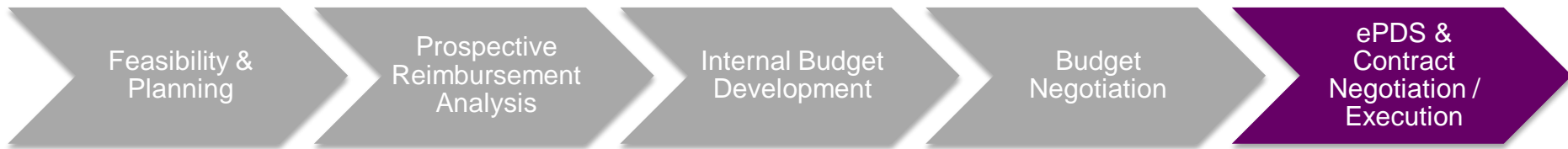
- › Charges to sponsor
  - › Mark up rolled into the charges
- › No contingency (viewed as profit by a sponsor)
- › Sponsor format
  - › Usually in per patient format
- › Indirect costs /Overhead





- Internal versus Sponsor Budget: negotiate in sponsor budget format
  - Know your true costs and breakeven
  - Leave room to negotiate/meet in the middle
- Fair Market Value (FMV)
  - Be prepared to justify your costs
  - Justification documentation
- Providing a realistic enrollment number is key
- Review contract language (screen fails, holdback, etc.)





- Route completed budget and CTA document in ePDS for review and approval
- ORSP will review legal terms
- ORSP will notify study team when document is ready for to be signed by PI and then executed by an institutional official within ORSP





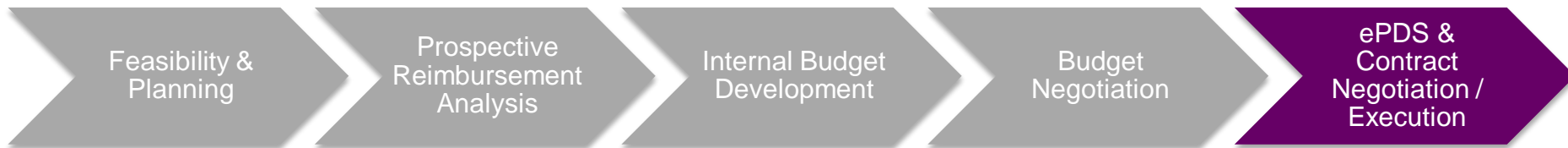
## What goes in the contract?

- Requirements for study conduct

(c) The Principal Investigator shall be responsible for performing the Study and for the direct supervision of any individual performing any portion of the Study (the “**Study Staff**”). In the event one or more sub-investigators provide services under this Agreement, Institution and Principal Investigator shall ensure that each sub-investigator (i) has the experience, qualifications and capabilities to perform the Study in a timely, professional and competent manner; and (ii) agrees to comply with the terms of this Agreement and the Protocol. The Principal Investigator shall use independent medical judgment in determining the eligibility of a Study subject to participate in the Study and as to all aspects of a Study subject’s medical care.

1.2 *Study Treatment.* Vertex shall provide Institution, at no cost, such quantities of the investigational drugs and other drugs as may be required for the Study (collectively, the “**Study Treatment**”). Institution shall safeguard the Study Treatment with the same degree of care used for its own property and in accordance with the Protocol and Applicable Law. Institution shall, following completion or termination of the Study, return or otherwise dispose of any unused Study Treatment, at Vertex’s expense and in accordance with written instructions from Vertex and Applicable Law. Institution shall maintain complete and accurate drug accountability records, and shall promptly provide such records to Vertex upon request. The Study Treatment shall be used solely in conducting the Study.





## What goes in the contract?

- Payment terms – what and when you will be paid

4. *Payments Schedule.* The start-up and administrative fee will be paid upon execution of this Agreement. All other undisputed payments will be made in accordance with the Agreement and within forty-five (45) days following the end of each calendar quarter, based upon the number of visits completed as demonstrated by completion of entry of visit data in the eCRFs/CRFs. Institution shall complete the eCRFs/CRFs within five (5) days following a visit. The final payment is conditioned upon: (a) all enrolled subjects other than subjects discontinued or lost to follow-up having completed treatment in the Study as defined in the Protocol; (b) eCRFs/CRFs and Study Records for all subject visits performed having been completed and delivered to Vertex or designated CRO; (c) all unused Study Treatment having been returned or otherwise disposed of in accordance with Vertex's instruction and Applicable Law; and (d) all queries having been resolved to Vertex's satisfaction.



# Invoicing

Develop a system for tracking all charges and events

Submit invoices for all of these items according to the time schedule outlined in the contract

Reconcile the payments with invoices on a periodic basis

Do not close the study account until you are assured you have received all payments



# Sponsor Invoicing & Receivables

Communicate with your administrators!

- › Who is responsible for invoicing? How often?
- › Let them know when there is study activity = something to invoice
  - › IRB amendments/renewals, screen failures, shipping, unscheduled visits, etc.
  - › Recruitment

***You negotiated a contract and did the work so collect the money!!!***





# Expense Monitoring

Corporate Clinical Studies are contracts, not grants

- › You can only spend what you earn
- › No enrollment = insufficient funds

Effort continues on clinical studies whether patients are being enrolled or not

- › Screening
- › Regulatory (documentation, amendments, continuing reviews)
- › Sponsor communications

Important to monitor your expenses in relation to your income

- › When to consider closing a study?



# What if I fall behind in my revenues?

It is possible to have a negative balance

- › You are paying out charges before you have had invoices paid
- › Salary is most typically attributed to the grant and may not reflect actual activity (pay attention!)

Make sure that invoices have been sent out and that payments have been reconciled

If you cannot enroll, you should stop the study



# Closing out a study

When things are not going so well

When we've completed the study

- › Are you sure we're done? (queries, monitor visits, etc.)
- › Have we invoiced for EVERYTHING?
- › Have we been paid what we invoiced?

How did we do? Any contingency funds?

- › What do we do with them?



# What if I have money left over?

It is possible for an industry study to realize a “profit”

- › Your budget was “off” but you do not need to return the monies as you have a contract agreement with the sponsor
- › Most likely because you are spending more time on the study but not charging personnel time to the grant

You can attribute additional salary to the grant, but only for those who have worked on the study (compliance issue)

After the study is closed, you may move the remaining funds (i.e. all expected charges have been paid) into a residual account

- › This may be used like any other state funds
  - › Salary
  - › Travel
  - › Academic costs



# Final thoughts...

## Budget/Contract Negotiations

- › Always negotiate

## Feasibility, Planning & Enrollment are key

- › PI, Coordinator, Other research staff/experts, Data, Central office/CTO
- › Recruitment plan & execution

## How do we define success?

- › Meeting contract obligations as outlined in the contract
- › Expenses < Income = Contingency/Development funds
  - › Projects with > 25% of the total project revenue may require explanation
  - › <http://academicdepartments.musc.edu/vpfa/policies/grants/4-4.02.htm>

