# *"I have SOPs and know how to use 'em!"*

Ryan Schroeder, Director, Clinical Research Network, BMC Mary-Tara Roth, Director, Clinical Research Resources Office, BU Medical Campus Duncan Schulte, Research Regulatory Project Manager, Clinical Research Network, BMC



# SOP STEERING COMMITTEE

#### **Steering Committee**

Executive Leadership: Ravin Davidoff. David Center Co-Chairs CRN: Ryan Schroeder; CRRO: Mary-Tara Roth **Research Operations:** Executive Director, Tina Dasilva CTO: Johanna Chesley Research Compliance/Education: Kaye Mottola **BMC Research Compliance:** Craig Bennett, Jami Wood CTSI/GCRU: George O'Connor, Helia Morris, Ridiane Denis OHRA: Matt Ogrodnik IRB. Jamie Merrill

#### **SOP Approvers**

Chair: Tina Dasilva, Research Operations

OHRA: Matt Ogrodnik

BMC Research Compliance: Craig Bennett

#### **SOP Review Departmental Volunteers**

- Invitations went out to research department chiefs to seek volunteers from subject matter experts within BMC and BU.
- New SOPs Going Forward: After the initial library of SOPs are established, department representatives can initiate requests for additional SOP development to add to the central library

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# **SOP Working Group**



Duncan Schulte Clinical Research Network Regulatory Project Manager



Rana Leed, MPH Human Research Education Manager



Mary-Tara Roth, RN, MSN, MPH CRRO Director



Ryan Schroeder Clinical Research Network, Director

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# **Seminar Objectives**

- Describe the importance of SOPs to clinical and human research
- Review BMC SOPs
  - Why were they developed?
  - What are they?
  - Who needs to use them?
  - Is there required training?

## • How to use SOPs in development of study-specific workflows?

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# BMC has new SOPs and here's why.

AUDIT FINDINGS RELATED TO SOPS & TRAINING GAPS:

- BMC was missing foundational clinical research SOPs
- BMC did not have an SOP development, review and approval process to ensure compliance with requirements of study protocols, internal policy and ICH GCP standards
- Findings related to training inconsistencies and management of training documentation

# HIGH LEVEL GOALS

- Ensure the trust and safety of our patients who volunteer to participate in research
- Ensure the quality of research conducted at BMC to the highest standards
- Provide our physicians and staff with the tools and training to perform their roles with standards of excellence
- Create a set of unified standards for the conduct of clinical research at BMC that spans across BU and BMC affiliation
- Create a long-standing sustainable structure that supports development and maintenance of SOPs that will guide research conducted at BMC

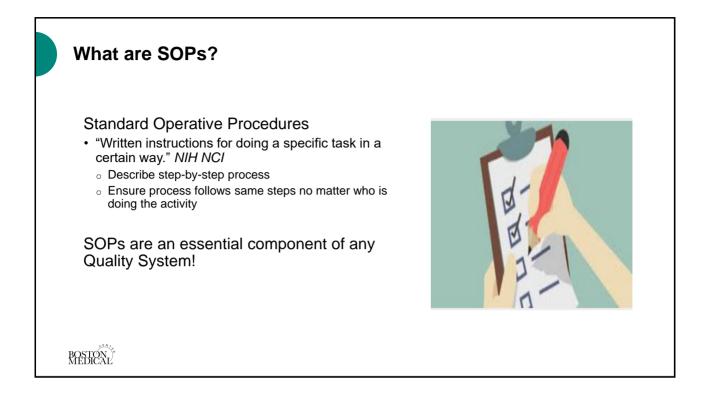


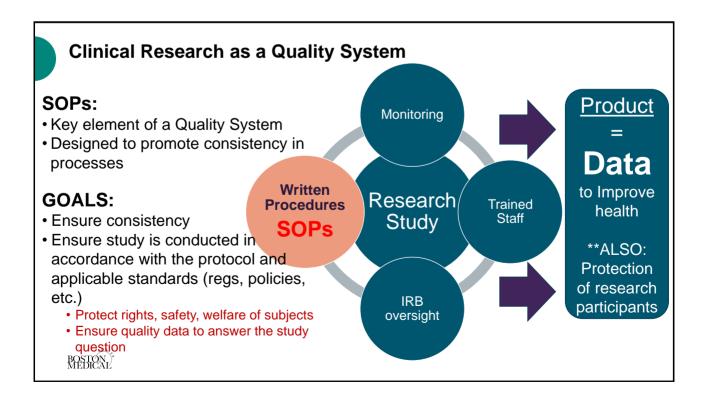
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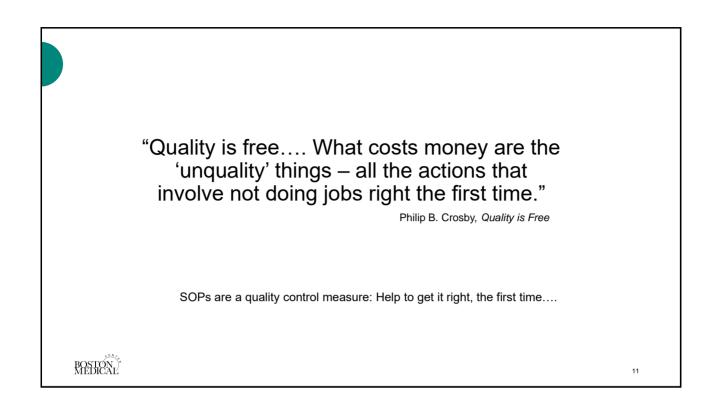
	Upcoming Key SOP Dates/Milestones
	<ul> <li>January 1, 2024: all <u>new</u> studies targeting BMC patients, utilizing BMC facilities and/or services, or using BMC patient data will require completion of training prior to IRB approval</li> </ul>
	<ul> <li>January 1, 2024: <u>new</u> BMC staff working on studies within scope are required to complete training within 90-days of employment start date</li> </ul>
	<ul> <li>December 31, 2024: All clinical research investigators and staff are encouraged to complete training (regardless as to whether studies started prior to 1/1/24)</li> </ul>
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	Importance of SOPs	ì
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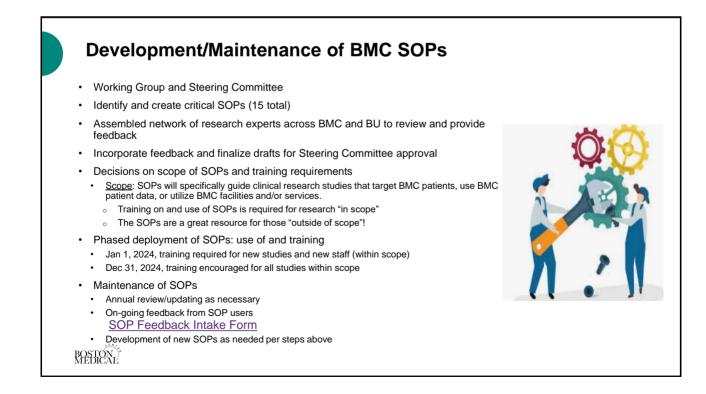


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# Why institutional SOPs?

- Part of our institutions' (BMC and BU) efforts to ensure the highest quality research
- It is becoming more and more an expectation of industry sponsors and government funders that institutions have SOPs to guide clinical/human research
  - · Indicator of quality research
- Institutions can also have confidence that study teams are using/sharing institutionally-endorsed SOPs that align with the regulations, institutional policies, best practices – these practices help meet institutions' goals for research.

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#### What SOPs were developed, and where can I find them? **Approved BMC/BU SOPs** BOSTON UNIVERSIT HELP Institutional Research Policies and Guidance EXCEPTIONAL CARE, WITHOUT EXCEPTION Documents SOP **Research Training** INSPIR II **Quality Management** 2 **Research Team Competency Essential Research Documents** Participant Recruitment **Protocol Deviation Reporting** Adverse Event M Reporting Adverse Event Monitoring, Assessing, and Case Report Form Completie Delegation of Authority and R Essential Research Document Reporting External Audit Preparation **Case Report Form Completion** Informed Consent Process Institutional Clinical Research P Library Site Monitoring Visits Participant Recruitment Participant Withdrawal Participant Withdrawal Protocol Deviation Repo 3 **External Audit Preparation** Quality Management Research Team Com Delegation of Authority and Responsibilities Research Training BOSTÓN SOP Managen Informed Consent Process 15 Site Monitoring **SOP** Management



# Who Do These SOPs Apply To?

These SOPs guide all clinical research studies that target **BMC** patients, use **BMC** patient data, or utilize **BMC** facilities and/or services.

- <u>BMC patients</u>: any individual with a clinical encounter generating a BMC specific medical record
- <u>BMC patient data</u>: patient data derived from BMC medical records and/or systems
- <u>BMC facilities</u>: clinical or non-clinical space owned or operated by BMC
- <u>BMC services</u>: a unit or group operated or managed primarily by BMC staff (e.g. IPS, CRN, CDW, CTO, Laboratory Services, etc.)



Two Tiers of Training – Not a One Size Fits All Approach



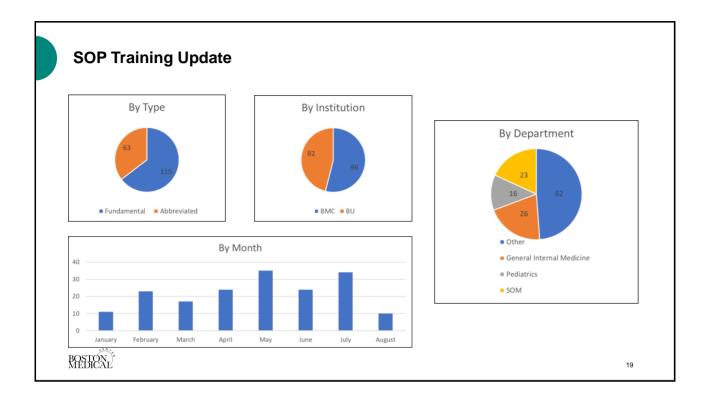
**Fundamental SOP Training-**All SOPs listed must be reviewed and acknowledged by all individuals whose research activities are not exempt categories 4, 9, 10 or Expedited Non-Exempt Category 5. <u>In general, these are</u> <u>studies that are interacting with research subjects.</u>

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

Abbreviated SOP Training- Subset of SOPs that must be reviewed and acknowledged for all whose research activities the IRB has determined to be exempt categories 4, 9, 10, or expedited nonexempt category 5-only. In general, these are studies that are limited to data and/or biospecimen analysis.

- Institutional Clinical Research Policies and Guidance
  Library
- Research Training
- Quality Management
- Research Team Competency
- Essential Research Documents
- Protocol Deviation Reporting

CITI Training – How to Access?					
Step 1: Log on to CITI: <u>www.citiprogram.org</u> and sign in as you usually do to access CITI training.					
Step 2: At the Welcome page, click on Boston University Medical Campus/Boston Medical Center "View Courses."	Boston University Medical Campus/Boston Medical View Courses Center Learner Tools for Boston University Medical Campus/Boston Medical Center				
Step 3: Scroll down to "Learner Tools" at the bottom and select "Add a Course."					
Step 4: Scroll down to Question 10; select appropriate training.	Question 10 BMC/BU Medical Campus Standard Operating Procedures (SOPs) Please choose one learner group below based on the type of study you work on. If you work on both types of studies, you must complete Fundamental				
Step 5: Review each SOP and take each SOP quiz.	Training.  • Fundamental Training: For all research staff who work on studies that are not Exempt Categories 4, 9, 10 or Expedited Non-Exempt Category 5.				
Step 6: If you successfully complete the training it will be uploaded into your INSPIR record of required trainings.	Abbreviated Training: For research staff only working on studies that are Exempt Categories 4, 9, 10 or Expedited Non-Exempt Category 5.      Fundamental     Abbreviated				



### Department List with at least 1 person completing Fundamental or Abbreviated Training

- Amyloidosis Center
- Anatomy and Neurobiology
- Anesthesiology
- Biomedical Genetics
- Biostatistics and Epidemiology Data Analytics Center (BEDAC)
- Boston Medical Center
- Cardiology
- Center for Behavioral Science Research
   General Dentistry
- Clinical Research Resources Office
- College of Arts and Sciences (CAS)
- College of Engineering
- Colon And Rectal Surgery
- Community Health Sciences
- Computational Biomedicine
- Department of Medicine
- Dermatology
- Division of Graduate Medical Sciences

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- Emergency Medicine
- Endocrinology, Diabetes, Nutrition,
   Weight Management
- Environmental Health
- Epidemiology
- Family Medicine
- Framingham Heart Study
- General Clinical Research Unit (GCRU)
   Orthodontics
- Clinical and Translational Science 
   General Internal Medicine
  Institute (CTSI)
  - Genetic Counseling Program Geriatrics
  - Health Law, Policy and Management Pharmacy
     HLPM

  - Hematology/Medical Oncology
  - Henry M. Goldman School of Dental Medicine
  - Infectious Diseases
  - Medical Education
  - Nephrology

- Obstetrics and Gynecology Office Based Addiction Treatment (OBAT)
- Office of Human Research Affairs

Neurology

- Ophthalmology
- Otolaryngology Surgery Pediatric Infectious Diseases
- Pediatrics
- Periodontology and Oral Biology
- Physiology & Biophysics
- Psychiatry
  - Psychology
  - Pulmonary Disease and Critical Care
  - Radiation Oncology
  - Radiology



 School of Public Health School of Theology

Sargent College of Health and Rehabilitation Sciences

- Surgery
- Vascular Neurology

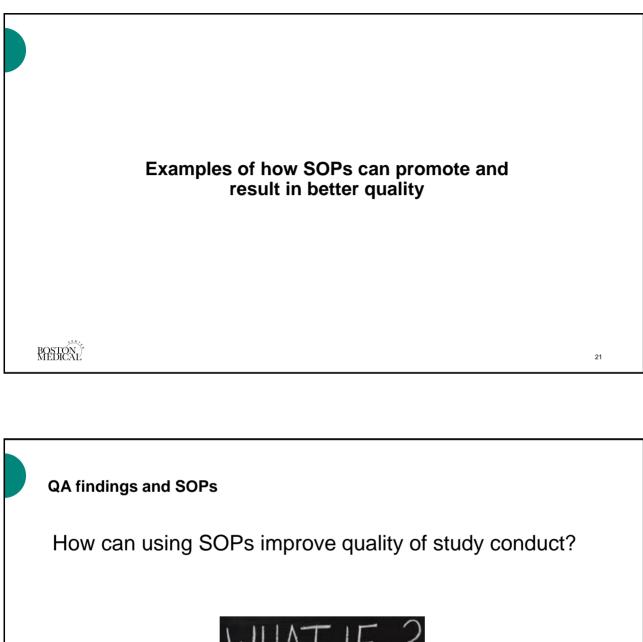
Research Operations

School of Medicine

Rheumatology

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- Virology, Immunology, Microbiology





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# <u>QA Review Finding</u> Informed Consent: Incorrect/Unapproved version of Consent form used

#### Example:

Participant signed a Spanish version of the informed consent form that was missing the IRB approval date stamp. The Spanish version of the consent form had never been submitted to the IRB and was therefore unapproved.

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## How would the SOPs have guided this study team? Informed Consent Process and Documentation Only the current IRB-approved version of the consent form can be used. If a hard-copy consent form is used printing the consent directly from the IRB system on the day of the visit is best practice but can be printed out a few days in advanced if needed. Similarly, if e-consent is used, research teams must ensure the most up-to-date version of the IRB-approved consent form is used. The consent discussion should only be conducted by the Investigator or Research staff members who are 1) delegated this role by the PI (see Delegation of Authority and Responsibilities SOP), and 2) have the appropriate training and qualifications to perform this study task. Training and delegation should be documented in the regulatory files. For research studies that involve a drug, device or surgical procedure, the process and consent discussion must involve a Licensed Independent Practitioner (LIP) unless the IRB has approved an alternative process that protects rights and welfare of participants. The LIP should discuss the purpose, risks, benefits and alternatives of the research. If conducting the full consent discussion, the LIP can sign and date the consent form as the staff member conducting the discussion. If the consent process involves another member of the research team who signs and dates the consent form, then there should be sufficient documentation (such as a progress note) to show that the LIP was involved. See HRPP Policies and Procedures 8.1.3.7. BOSTON

# <u>QA Review Finding</u> Informed Consent: No LIP Involved

#### Example:

For 6 study participants, there was no documentation that a LIP was involved in the consent process as required for studies involving an investigational drug.

According to the study team, study coordinators were conducting the informed consent process independently with no LIP.

### How would the SOPs have guided this study team? Informed Consent Process and Documentation Only the current IRB-approved version of the consent form can be used. If a hard-copy consent form is used printing the consent directly from the IRB system on the day of the visit is best practice but can be printed out a few days in advanced if needed. Similarly, if e-consent is used, research teams must ensure the most up-to-date version of the IRB-approved consent form is used. The consent discussion should only be conducted by the Investigator or Research staff members who are 1) delegated this role by the PI (see Delegation of Authority and Responsibilities SOP), and 2) have the appropriate training and qualifications to perform this study task. Training and delegation should be documented in the regulatory files. For research studies that involve a drug, device or surgical procedure, the process and consent discussion must involve a Licensed Independent Practitioner (LIP) unless the IRB has approved an alternative process that protects rights and welfare of participants. The LIP should discuss the purpose, risks, benefits and alternatives of the research. If conducting the full consent discussion, the LIP can sign and date the consent form as the staff member conducting the discussion. If the consent process involves another member of the research team who signs and dates the consent form, then there should be sufficient documentation (such as a progress note) to show that the LIP was involved. See HRPP Policies and Procedures 8.1.3.7. BOSTON/

# <u>QA Review Finding</u> AE Monitoring/Reporting: No Documentation of AE Assessment

### Example:

Follow-up calls with study participants indicated multiple potential adverse events.

There was no documentation that a study doctor reviewed/assessed AEs, which may have impacted participant safety and/or the validity of study data

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How would the SOPs have guided	<ul> <li>Documenting Adverse Events</li> <li>When an AE is identified, the PI or research staff must document the event(s) within study records. Some research teams might also decide to document the event within medical records if the event has implications for clinical care.</li> <li>Documentation may be completed on paper or electronically. Research teams should develop or have available these forms prior to beginning enrollment. Best practice includes an AE log to record high-level information and participant-specific documentation forms to record additional details. Research teams can make their own decisions where they document specific information: a log and/or participant-specific documentation forms.</li> <li>Regardless of the specific form or log, documentation should include the following:         <ul> <li>Key dates associated with the events and event reporting</li> <li>Date the event occurred</li> <li>Date of first knowledge of the event by any member of the research team</li> <li>Date(s) of any follow-up assessments</li> <li>Date(s) event is reported (IRB, Sponsor, etc. See Reporting section below.)</li> <li>Date of resolution if and when known</li> </ul> </li> </ul>
this	<ul> <li>Date of resolution if and when known</li> <li>Key history of the event including resolution details if and when known</li> </ul>
study	<ul> <li>Relevant medical history if appropriate for event</li> <li>A plan for medical or clinical follow-up if appropriate for the event</li> <li>Assessment of the event as described below (seriousness, severity, relatedness, expectedness) as</li> </ul>
team?	<ul> <li>appropriate/relevant for the study</li> <li>Staff member documenting the event</li> </ul>
RESTOR	<ul> <li>Investigator(s) providing assessment and medical review. This individual should be qualified by training, experience, and license as applicable to the study, and delegated the role by PI if this individual is not the PI</li> <li>Reporting requirements and outcomes when appropriate</li> </ul>



# Putting SOPs to work...a case study

**Duncan Schulte, CRN Regulatory Project Manager** 



#### **Study Protocol**

Table 2. Schedule of study procedures

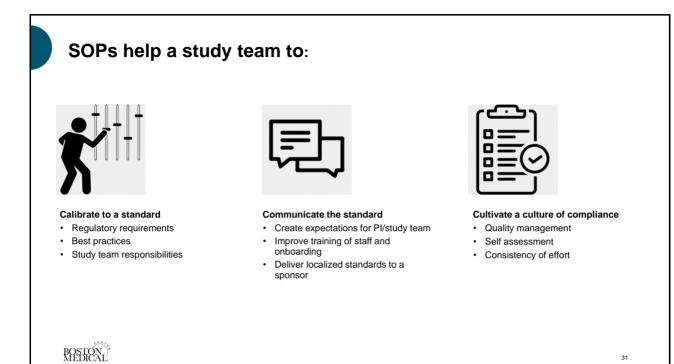
	Screening	<u>Baseline</u>
PROCEDURE	Day -14 to 0	Day -2 to 0
Informed consent	X	
Demographics	х	
Medical History	X	
Concomitant Medications	x	х

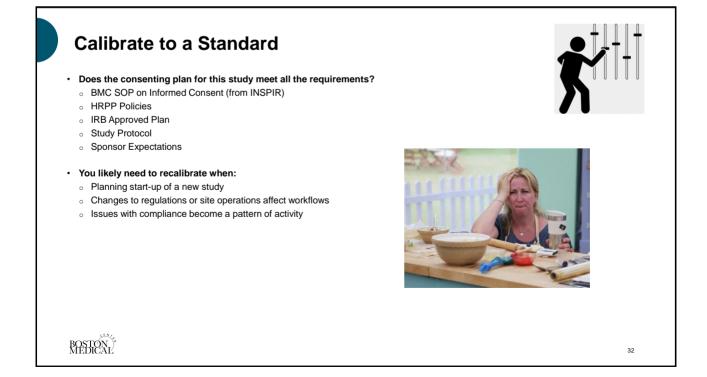
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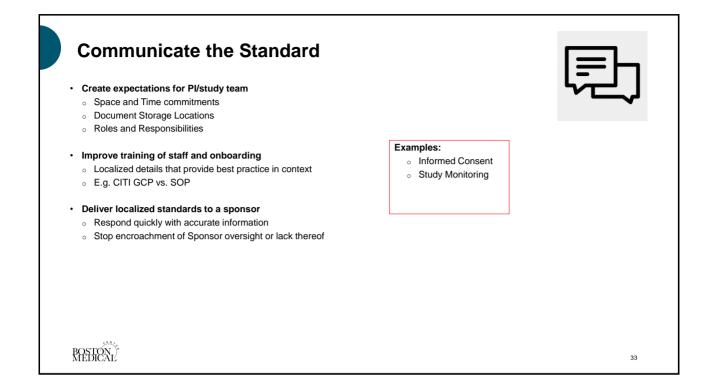
#### Study-Specific Workflows

Ex. Informed Consent Process- Workflow considerations

- · Must meet regulatory requirements
- · Use of IRB approved consent form
- · Consideration of special populations
- · Schedule of personnel obtaining consent
- · Space and time for conducting consenting process
- · Documenting consent process
- Availability of consent form ahead of consent discussion
- · Flow from consent to Screening procedures
- Providing consent form copies after signing
- · Remote or eConsent scenarios







<ul> <li>Goal for Informed Consent Workflow Ex</li> <li>A procedure for ensuring that the con conducted in accordance with [regula that study subjects understand the na and risks</li> </ul>	sent process is being and						
	Informed Consent Documentation	Number: 1.0	Dete: 12Apr2023	Protocol: X PE Dr. X000		tion of Informed Consent Form	BU/BMC Study IRB #: H-3000000 Advanta IRB #: SSU00203391
Informed Consent Process Standard Operating Procedure	<ol> <li>Purpose Describe procedures for preparing informe the informed consent process, and reviewi assurance.</li> </ol>			Participant Name Version of Conse Used:	4	tion of Informed Consent Form Consent obtained by: Date of Consent:	
SOP decodes the requirements for conducting the informed content distuistion and documentation of advanced more for non-scenger sector through the purportagents that involves properties thereinvertion of documentation and a variant properties and the sector of the sector of the sector of the sector through the sector through and the sector of the	2 Policy BellACCBMC SOP "Informed Consent See OHRA HOP LIGht Policies (Oteo: Oteo: OHRA HOP LIGht Policies) (Oteo: Oteo: OHRA HOP LIGht Policies) (Oteo: Oteo: OHRA HOP LIGht Policies) (Oteo: Oteo: OHRA HOP LIGht Policies) (Oteo: Oteo: Oteo: Oteo: Oteo: Oteo: provided to a policies) of the oteo consentiation produce related to the out occumentation produce rela	of Human Res ng an IRB app h delegated rer aintenance. Si of consent proc how and when ures describe p ccur in a dedic	roved Informed Consent sponsibilities related to fudies with waiver of sees are out of scope for a consent form should be preparation of an ICP. For an	teat many series of the series	oby was adequately explain initiated undue influence re participant"s questions and, and risks were revisi- tricipant was obta tricipant was obta consent/assent or saffici tricipant agreed to participant seent form was signed seent form was signed news a compo- seent process was writnes seent process was compli-	or coercion. were answered and all the consent werd. ent time to consider participation. pate in the study and personally is intend is a sporce of the the INB. butcherized Representative (as appro- nt form was used of alandi by the mesarcher. seed by an impartial witness (if applic of the signed informed consent for steed prior to the start of research pr Limited English Proficient (LEP) Par-	evend with the participant in a manner elements, such as purpose, and and dated the consent form. web by the IRB). table). m. ocedures
: When "persignent" is used in this SOP it refers to 2) persignent of the study or 21 LM(s) of persispents. cipal Investigator (PI) and delegated research staff who will meet with prospective participants, conduct the consent sustain, or or obtain informed consent must be sufficiently trained on the consent process and documentation.	Participante Participante (PT) Introductor 20 Introductor	Study coordinate Endopsenate of Practic Lagatic Authorities (J.APC) or gammical and interposed and interposed	lan, Sakahogad Malawar (J. 197), Frei Magnat Aser Salawar Mgal (guarration)), Malawar au den	An Inte The wi	approved translated com rpreter was utilized for ti mess (interpreter or othe the IRB approved consen	he consent process (If yes, documen r adult witness fluent in both langue	t interpreter IDII in 'Notes' below) ages and not associated with the study)

## **Looking Forward**

- More info and links about SOPs and training requirements:
  - Institutional Standard Operating Procedures (SOPs) | Office of Human Research Affairs (bu.edu)
- The SOPs are living processes and as such will change over time.
  - Regulatory Updates
  - BMC/BU Resource Updates
  - Institutional Policy Updates
  - Evolution of Best Practices
- We will keep them updated and we see our research community as valued partners in this effort!

Thank You! "

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### THANK YOU

#### Mary-Tara Roth, RN, MSN, MPH

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