Understanding your Protocol: Logistics, Workflows and Strategies

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Objectives

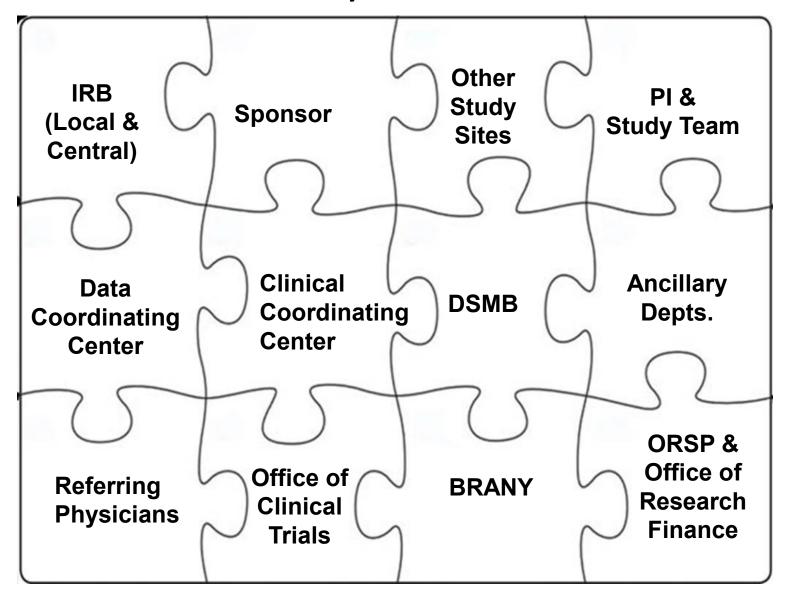
Discuss tools and strategies for...

- Identifying key stakeholders and expectations for your research study (Sponsors, Ancillary Departments, etc)
- Understanding how safety and data oversight plans impact study process (DSMB, monitoring visits etc)
- Understanding the role of institutional systems in the research process (Epic, Velos, EDC, etc)
- Delegating roles and tasks (personnel, workflows, etc)
- Determining enrollment and visit capacity





Identify Stakeholders







Identify & Understand Milestones

Contractual Milestones [Industry or Government Funded]

Billing Implications and Expectations

What you need to know:
Where they would find the info.

Contract, Payment terms, Budget

When to refer to it Best practices for communicating

Admin. Office (OCT & BRANY) responsible for accounts <u>receivable</u>

Study team responsible for accounts <u>payable</u>

Information found in: Research Agreement/Contract, Payment Terms, Budget

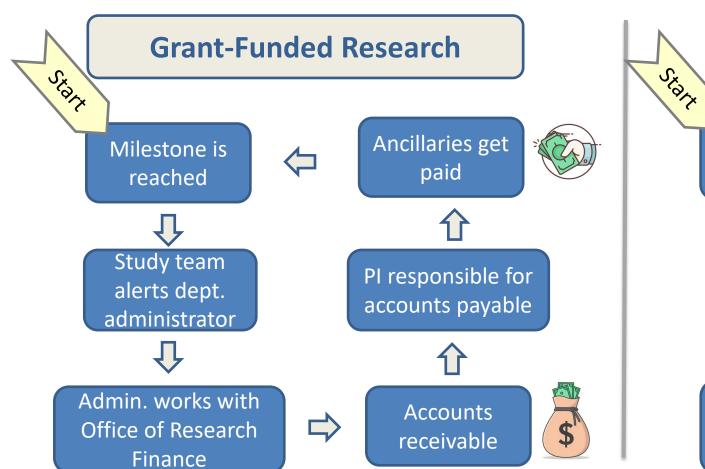


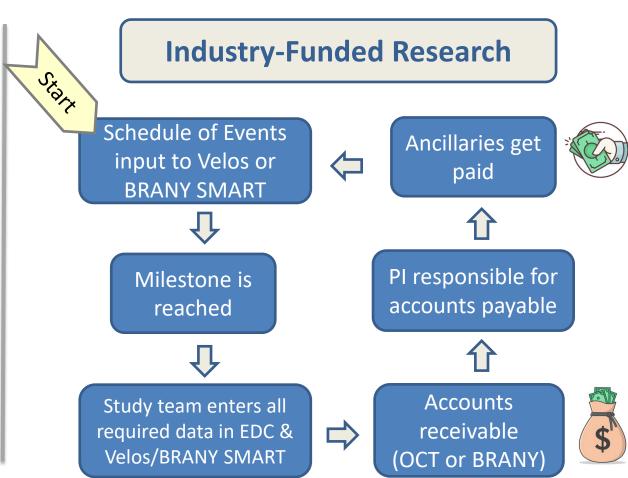


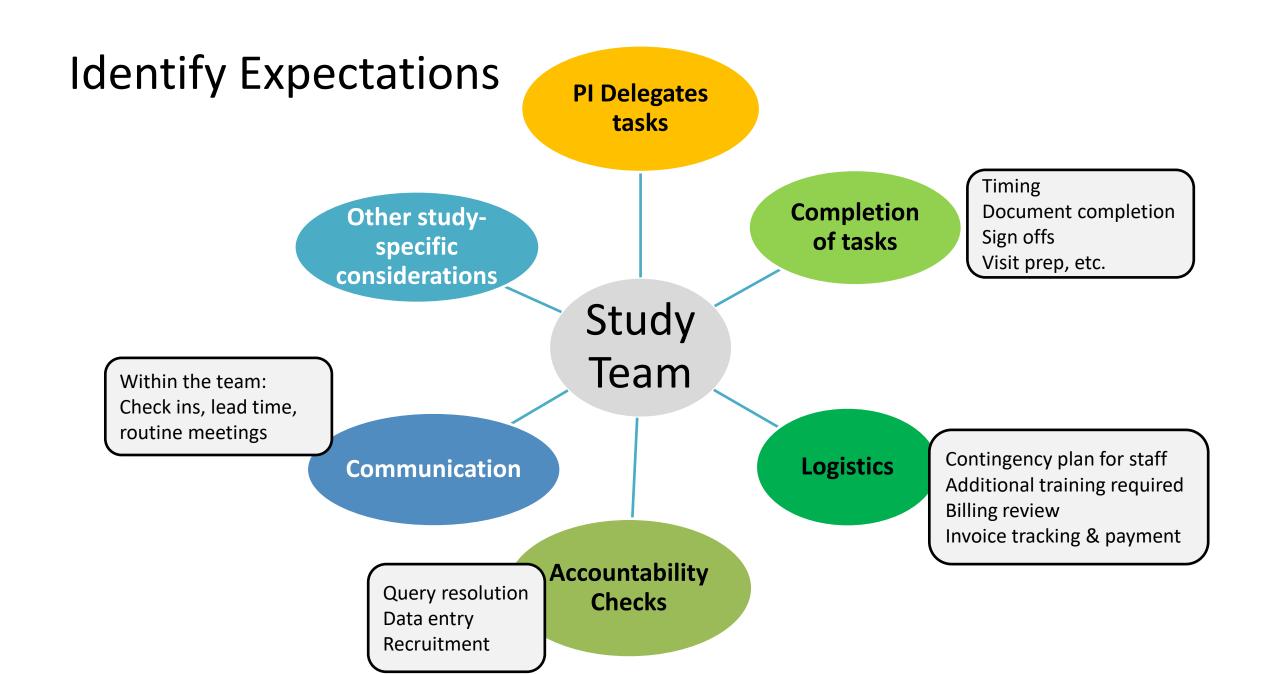
Identify & Understand Milestones

Impact of Department Infrastructure & Funding Source









Identify Expectations: Ancillaries & Other Collaborators

- Identify primary contact
- Know any <u>setup</u> requirements, how much lead time is needed
- Know <u>how</u> they will be notified of a needed research activity, and by <u>who</u>
- Know the expected <u>turnaround time</u>
- Know how essential document maintenance will occur, and where it is stored

Identify Milestones and Expectations







Safety and Data Oversight

IRB

- Which IRB is overseeing the study?
- What are the applicable **reporting** requirements?
- What federal, state and institutional regulations apply to your research?
- ☐ What is the **level of risk** of the study?

DSMB

- ☐ Is there one?
- ☐ How often do they meet?
- ☐ What are the ongoing data submission requirements and deadlines?
- ☐ How will findings be shared? And by who?
- ☐ Who on the study team files and follows up on any correspondence?

Data Coordinating Center

- ☐ Is there one? Where?
- ☐ Where is data stored?
- ☐ How is data securely shared?
- ☐ Are there any blinding considerations?
- Who is responsible for compiling and sharing the data?
- At what time points is data analyzed? (interim analysis, futility, etc.)

CRO/External Monitors

- ☐ Is there one?
- ☐ Is monitoring conducted remotely or in-person?
- □ Have you established necessary access (to campus, to EMR)?
- ☐ How often are visits conducted?
- ☐ How are queries generated and resolved?

Protocol Sections: Adverse Events Definition & Reporting; Deviations/Unanticipated Problems; Data Collection; Data Quality Assurance; Study Monitoring; Data Safety Monitoring Plan

Example: Safety Reporting

IRB

- Which IRB is overseeing the study?
- What are the applicable **reporting** requirements?
- What federal, state and institutional regulations apply to your research?
- ☐ What is the **level of risk** of the study?

Einstein IRB

Multi-Center Trial (Lead site & Sponsor: Storybook Univ.)

Greater than minimal risk

Context

Patient is hospitalized for bronchospasms within 48 hours of taking interventional medication.

Reporting Requirement:

Einstein IRB: within **5 business days** of knowledge of event Storybook Univ.(sponsor): within **24 hours** of knowledge of event

Report Preparation:

Preparation: Review medical records, compile other relevant info.

Assessment: Review, medical assessment and sign-off

Report Submission:

Reportable Event Form (Einstein IRB/iRIS); CRF (Storybook Univ./EDC)
Principal Investigator system sign-off (both)

Report Follow Up:

Provide additional/new information, if requested File report in regulatory binder Further follow up with subject, as needed

Institutional and Other Systems



• Einstein IRB submission portal



- Clinical Research Management System
- Required for all human subject research at MMC-Einstein
- Interfaces with Epic & both IRB Systems (Einstein & BRANY)



Institutional electronic medical record system (EMR)



• Web-based payment system for research subject compensation

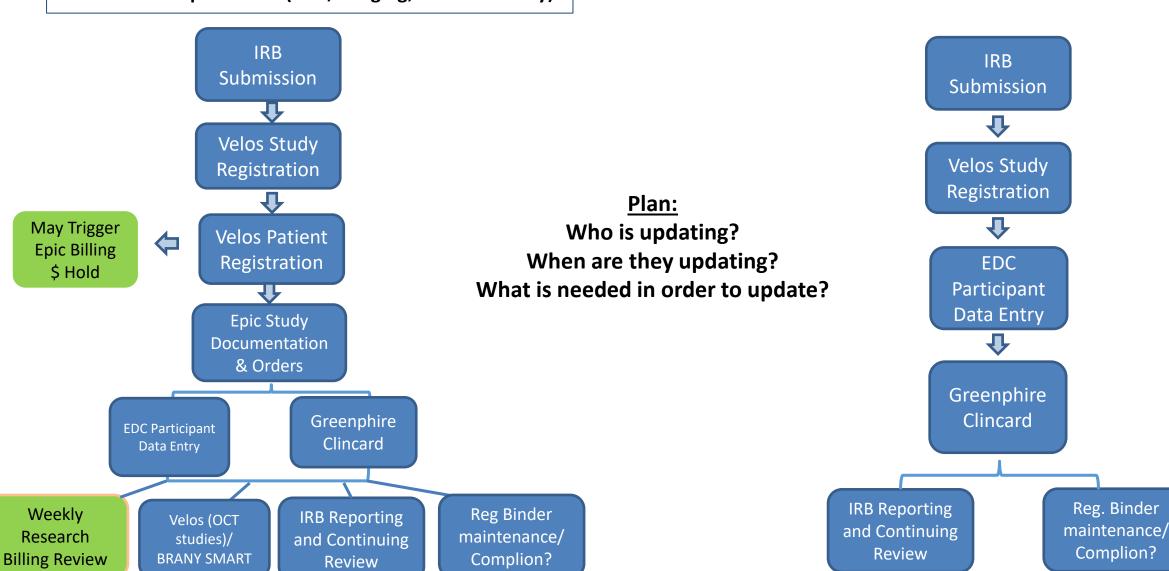


- Electronic Data Capture System (may incl. REDCap)
- Randomization software



• Electronic regulatory binder platform

Interventional/IND Studies
Studies with NCT #s (registered on clinicaltrials.gov)
Studies with Epic Orders (labs, imaging, Res. Pharmacy)



Observational

Studies

General Considerations

Request existing procedural documents [Sponsor, collaborators, ancillaries]

Thoroughly read those documents, ask questions, understand the process detailed

Develop local workflow, referencing existing docs, embed study team and institutional specifics

Common Terminology:

Manual of Procedures (MOP)
Standard Operating Procedures (SOP)
Workflows

- ✓ Level of detail should be proportional to study
- ✓ Don't "reinvent the wheel"
- ✓ Workflow will serve as a tool for communication and building in accountability
- ✓ Be sure all regulatory requirements are baked into your process- safeguard from risk of noncompliance





Prepare and Plan: Recruitment & Enrollment



Consider

Action Plan

Enrollment Target



• Understand any contractual obligations

Recruitment Milestones



Identify recruitment timeline (Are there specific windows)

 Set periodic goals ("x" pts/week, month, etc.) based on enrollment target and visit capacity (new pts & follow-up visits)

Recruitment Strategies



- Develop a recruitment strategy & resources (account for staff availability)
- Develop all patient-facing materials in prep for IRB review & approval

Participant Retention



- Plan for following up with participants
- Create visit reminders, email templates, phone scripts, handouts, etc.





Prepare and Plan: Study Procedures



Consider

Action Plan

Study Roles & Responsibilities



- Clearly define roles/responsibilities [Delegation of Authority Log]
- Ensure necessary training for all responsibilities
- Establish contingency plans for back-ups, if needed

Consent Process



Identify how and where subjects will be consented

Identify who is conducting consent and how is it being documented

Space & Location



- Identify how/where procedures will take place
- Make necessary preparations (who orders labs, reserve space, etc.)

Documentation



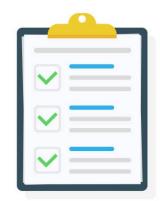
- Understand and define how documentation will occur
- Identify documentation source for all activities

Protocol Section: Study Procedures, Study Schedule, Informed Consent Process





Prepare and Plan: Data Collection



Consider

Action Plan

Data Generation



Understand how data is generated (Retrospective/prospective?)

Data Source



Identify what is official source for all required data (EMR? Paper? Both?)

Ensure user access

Data Collection
Tools



Identify data collection tools and prepare in advance (Questionnaires?
 Participant Diaries?)

Frequency



- Identify timing needs consider visit windows and time sensitive values
- Plan for follow-up phone interviews (set reminders)





Prepare and Plan: Data Entry & Management

Consider





Database/EDC



- Identify what database is being used, who and who is providing/managing?
- Identify who is doing data entry and ensure proper training & user access

Frequency



- Understand data entry TAT requirements (e.g. 48 hrs after visit?)
- Schedule blocks of data entry time

Data query resolution



- Identify who communicates queries
- Understand requirement for correcting/updating the EDC record

Monitoring visits



- Identify the space/time requirements
- Plan for follow-up on findings/report to sponsor

DSMB Meeting/ Data lock

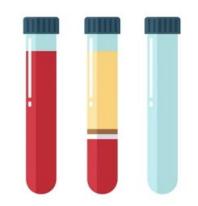


Plan for "crunch" time before upcoming DSMB meeting dates





Prepare and Plan: Sample Collection & Packaging/Shipping



Consider

Action Plan

Collection



- Identify who will collect samples, where they will be collected & at what time points.
- Work with Pathology, CRC, as applicable

Processing and/or Storage



- Understand how/whether sample must be processed prior to storage or shipping
- Coordinate with Pathology/BIOR/BARC if applicable

Kits & Materials



- Identify whether sponsor provides sample collection/shipment kits
- Plan for requesting kits in time for study visits

Shipping



- Identify who will package and ship specimens to central labs
- Ensure IATA compliant training for personnel

Transport & Tracking

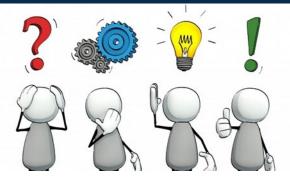


- Plan for transport to BARC or BIOR
- Create a tracking log (include study IDs, collection date, tracking #'s, etc.)





Overall "Workflow" Development

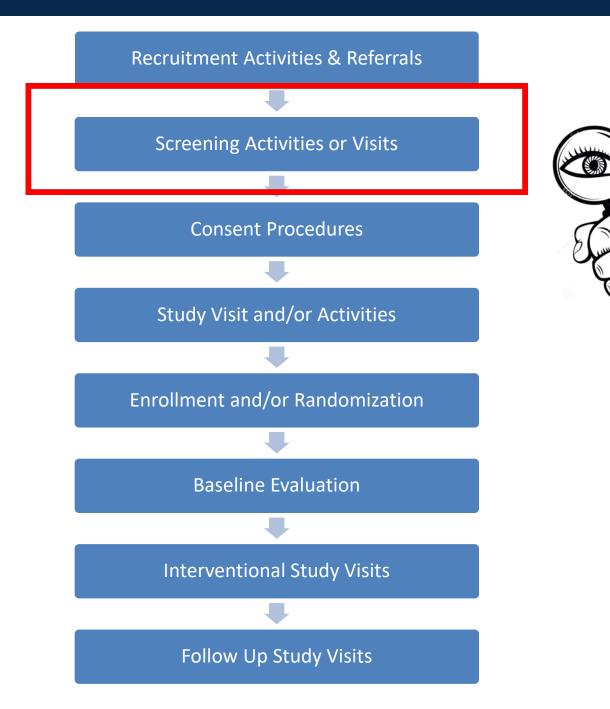


- Also known as: Manuals of Procedures, Manual of Operations, Standard Operating Procedures
- Level of detail should match complexity of study
- Should include:
 - Study-specific task breakdown: <u>full "lifecycle"</u> (Recruitment → Off Study)
 - Institutional requirements
 - Funder and/or sponsor requirements (if applicable)
- Be aware of applicable policies and regulations (local & federal)
- Embed plan for study documentation and regulatory maintenance





Sample high-level workflow







Workflow Development: Core Elements

Activity

Represents a single step of the process

Action

Preparatory steps & how the activity is accomplished (including who, how and when)

Transition

Movement from one activity to the next, or "trigger"

Sub-process
(If applicable)

Defines a set of activities that may be called for based on outcome of prior steps (ex: for ancillary services, once triggered)





Example: Manual of Procedure Snapshot Screening Patients — Activity

Coordinator will:

- Identify potential participant on report or database, verifies eligibility criteria (pre-screen) Call/email patient to gauge interest.
- Schedule in-person screening with PI (or MD) Reserve space (insert specific CRC scheduling steps, if needed) Email
 patient with visit confirmation, directions, estimated duration of visit, procedures to be done, and ICF

Sub-process

- Call patient 48 hrs. before visit to confirm
- Email PI (or investigators) with name, contact info, visit requirements, etc.
- Prepare folder with necessary case report forms, up to date ICF etc.
- Greet patient in lobby
- Investigator will:
 - Obtain <u>informed consent per institutional requirements</u>, complete all visit procedures
 - Notify team if patient is eligible, agreeable and ready to enroll
- Coordinator will:
 - Enter screening data in EDC within 24 hrs.
 - Randomize patient in EDC within 48 hrs.

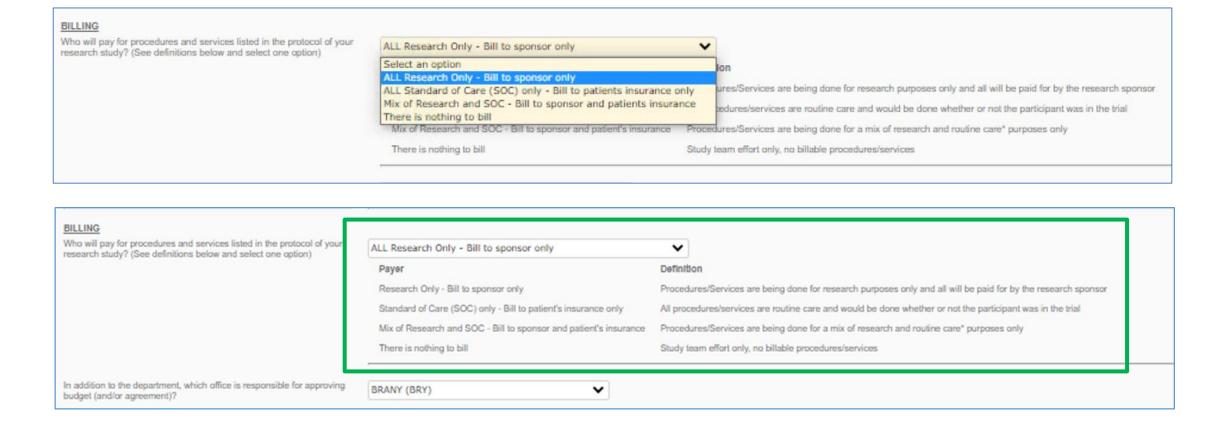
Transition

Action





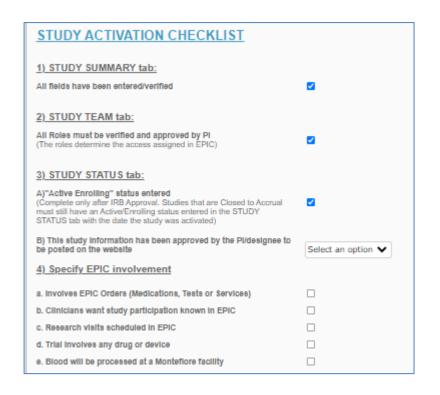
Billing Review and Clearing Charges Velos Study Billing Type/Status

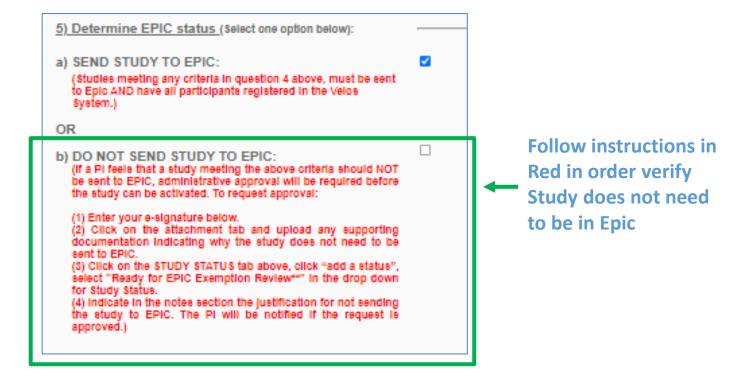






Billing Review and Clearing Changes Studies Sent to Epic vs Not Sent to Epic





Ensure you understand how your study is listed in Velos as this will have implications in Epic!





Billing Review and Clearing Charges

For Studies sent to Epic and are mixed SOC/Res billable:

- Patient status = Initial Consent Signed
- All charges for patients associated to research study will be "held" in Epic (including any non study-related charges) for duration of patient's association to research study.
- All research patient charges must be reviewed in Epic <u>at minimum</u> on a weekly basis
- Once patient has completed the research study- they must be marked "completed/off-study" in Velos- this will trigger Epic to stop holding charges
- ☐ Clarify with your PI who is doing this?
- ☐ Familiarize yourself with the Billing and Epic details of the study in the Velos Study Summary





Common Problems that Hinder Success

- Inadequate training
 - Protocol, applicable regulations (local and federal), SOPs, investigational product management, reviewing IRB requirements, etc.
 - Misunderstanding leads to mistakes!
- Inadequate documentation
 - If you didn't document it, it didn't happen! Records are retained for years after the study is completed- don't leave any gaps that can lead to bigger questions!
- Ineffective/unclear communication
 - Over-communicating/under-communicating
 - "Closed loop" communication
- Limited resources means importance of planning ahead!







General Troubleshooting

Contact Type	Email
Key Study Team	Pls, Co-Investigators, Study Coordinators, Regulatory Coordinator, Research Assistants, etc.
Central Study Stakeholders	Sponsor, Clinical Research Organization, Data Coordinating Center, DSMB, Clinical Coordinating Center
Ancillary Collaborators	Pharmacy, Pathology, Radiology, Clinical Research Center, Biorepository, etc.
IRB	Einstein IRB: IRB@einsteinmed.org BRANY IRB: esummers@brany.com
Institutional Systems	Epic IT: Jason Hussey <u>jhussey@montefiore.org</u> Velos Helpdesk: <u>veloshelp@montefiore.org</u> Einstein iRIS Support: <u>iris-support@einsteinmed.org</u>
Research Compliance	ClinicalResearch@montefiore.org



Keep these contacts accessible and in a central location!





Coordinator as "Navigator"

 Success relies heavily on CRC's ability to effectively manage day-to-day study tasks

- Problem-solving, taking initiative, effective time management, collaboration, and prioritization of tasks.
- Build in turnaround time!
- Effective Communication: Be concise and clear
 - What do stakeholders need to know?
 - Determine frequency and nature of team meetings
 - Create scripts/templates; practice interpreting study jargon
- Seeing the "bigger picture": orient yourself on where you, and the patient, are in the overall study process







Research Studies as a "Service"

Participation in Research is an *Experience* for Patients

- Support their needs wherever possible
- Listen to their feedback and use it for improvement
- Be knowledgeable about your research, but be honest about what you don't know
- Practice empathy







Resources

- DOM Coordinator Training & User Access Checklist
- Epic/Velos Checklists & Tip Sheets
 - Study Management and Activation
 - Patient Status Flow
 - Checklist Patient Enrollment
 - Placing and Linking Orders to a Study
 - New Research Study Review Workflow
 - Research Billing Review Criteria Set-up
- NIH Guidelines for Developing a Manual of Procedures
- Einstein Policies:
 - Principal Investigator Requirements
 - Principal Investigator Responsibilities







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