



BU Clinical & Translational Science Institute (CTSI)

# Research Professionals Network Workshop Series

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REPORTING ADVERSE EVENTS (AE), SERIOUS ADVERSE EVENTS (SAE)  
AND UNANTICIPATED PROBLEMS (UP)

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# Objectives

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- 1) To be able to define an adverse event, serious adverse event, and an unanticipated problem
- 2) To understand how to document adverse events
- 3) To identify when an adverse event is reportable and to whom
- 4) To submit a reportable event to BUMC IRB via INSPIR II portal

# Definitions

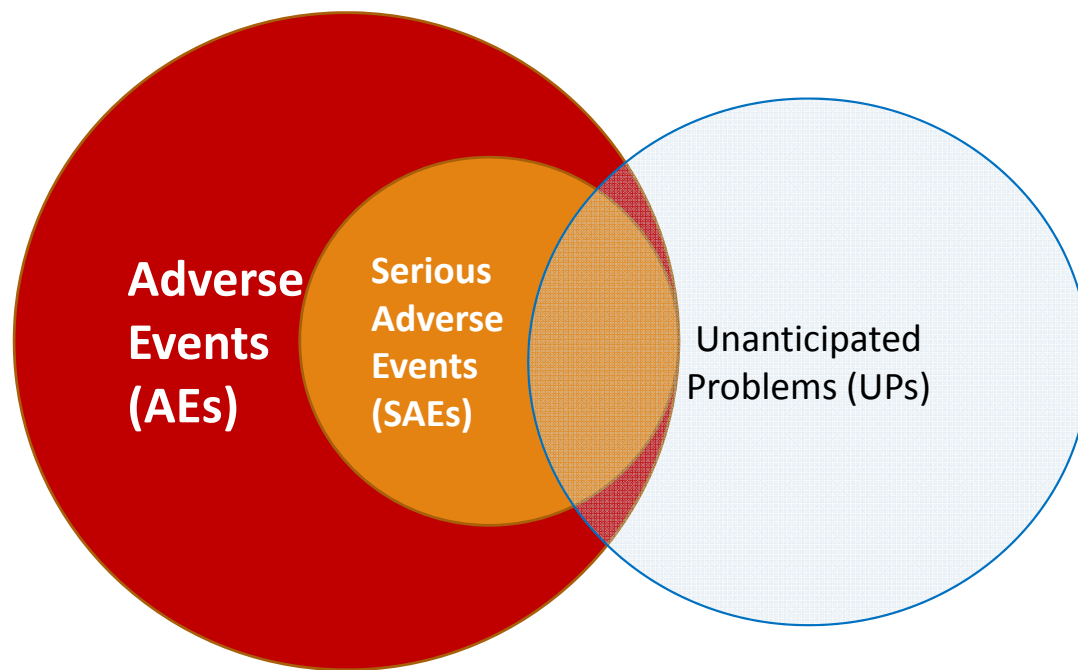
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ADVERSE EVENT (AE)

SERIOUS ADVERSE EVENT (SAE)

UNANTICIPATED PROBLEM (UP)





# Where do definitions come from?

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- International Conference on Harmonization, Good Clinical Practice (ICH GCP)
- BMC/BU Medical Campus Institutional Review Board (BUMC IRB)
  - Policies document: <http://www.bumc.bu.edu/ohra/hrpp-policies/>
- With industry sponsor, defined in clinical protocol

## **Which definition(s) should I follow?**

- **Are you using local BUMC IRB?** If yes, follow BUMC IRB definitions & reporting guidelines
- **Are you using a central IRB?** If yes, follow their definitions & reporting guidelines
- **Does your study have an industry sponsor?** Follow sponsor's definitions per clinical protocol.
- **Do you have an industry sponsor, but using BUMC IRB?** Follow both sponsor and BUMC IRB definitions and reporting guidelines.

# Adverse Event (AE)

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## BUMC IRB definition

**Adverse Event (AE)** is any **untoward or unfavorable medical occurrence** in a human subject, including any **abnormal sign** (for example, abnormal physical exam or laboratory finding), symptom, or disease, **temporally associated** with the subject's participation in the research, whether or not considered related to the subject's participation in the research.

**Example:** A participant who has just given informed consent and completed screening assessments, but has not been randomized yet. The participant leaves the study visit and then gets in a car accident on the way home.

Would this be an AE?      If so, why would it be important to record this as an AE?

# How do AEs come up during study?

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AEs *usually* come from:

- Physical complaint (headache, chest pain, etc...), either reported during an Adverse Event assessment or unprompted participant report
- Abnormal, clinically significant vital signs
- Abnormal laboratory results
- Hospitalization/ER visit
- Abnormal electrocardiograms (ECGs)
- Suicidality assessment (e.g. Columbia Suicidality Severity Rating Scale (C-SSRS))
- Other?

# Adverse Event

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"So I guess this probably counts as an adverse event."



# Serious Adverse Event (SAE)

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## BUMC IRB definition

**Serious Adverse Event (SAE)** is any adverse event that

- results in death;
- is life-threatening (places the subject at immediate risk of death from the event as it occurred);
- results in inpatient hospitalization or prolongation of existing hospitalization;
- results in a persistent or significant disability/incapacity;
- results in a congenital anomaly/birth defect; or
- based upon appropriate medical judgment, may jeopardize the subject's health and may require medical or surgical intervention to prevent one of the other outcomes listed in this definition (examples of such events include allergic bronchospasm requiring intensive treatment in the emergency room or at home, blood dyscrasias or convulsions that do not result in inpatient hospitalization, or the development of drug dependency or drug abuse).

# Serious Adverse Event

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"I suppose this probably counts as an adverse event."

# Unanticipated Problem (UP)

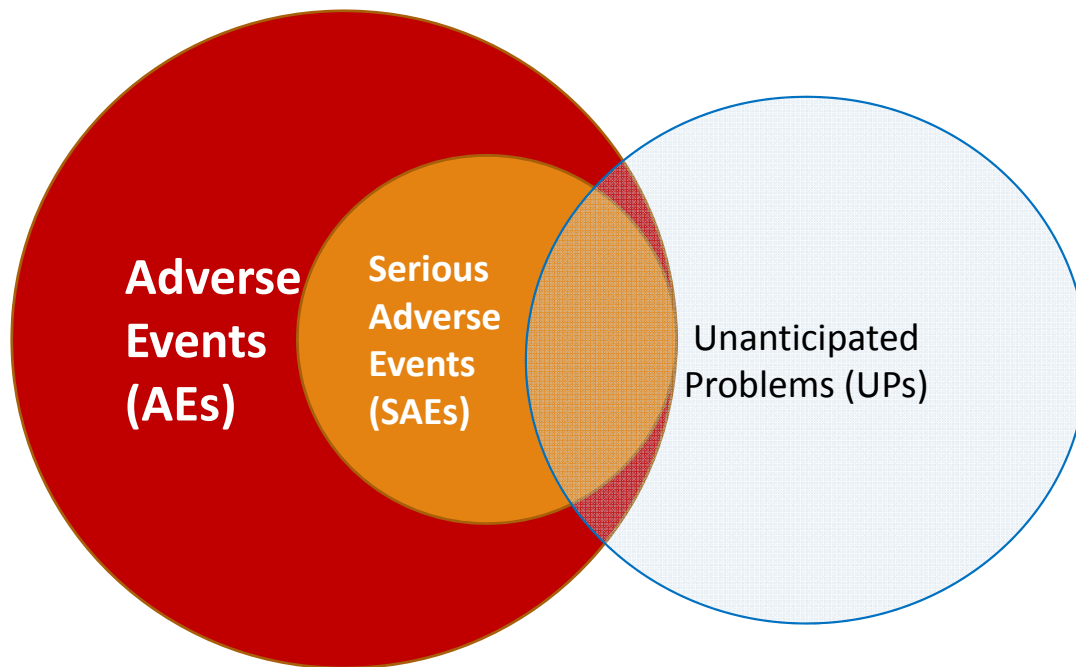
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**Unanticipated Problem** is defined as an event, experience or outcome that meets **all three** of the following criteria:

1. is unexpected (in terms of nature, severity, or frequency) given (a) the research procedures that are described in the protocol-related documents (such as the IRB-approved research protocol and informed consent document); and (b) the characteristics of the subject population being studied; AND
2. is related or possibly related to participation in the research (in this guidance document, *possibly related* means there is a reasonable possibility that the incident, experience, or outcome may have been caused by the procedures involved in the research); AND
3. suggests that the research places subjects or others at a greater risk of harm (including physical, psychological, economic, or social harm) than was previously known or recognized.

# How are these definitions interrelated?

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Not all AEs are SAEs, but all SAEs are AEs.

An AE can be an UP without being a SAE.  
AEs can be both UPs and SAEs.  
Not all SAEs are UPs.

Some UPs are not AEs.

# Reporting

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ADVERSE EVENTS

SERIOUS ADVERSE EVENTS

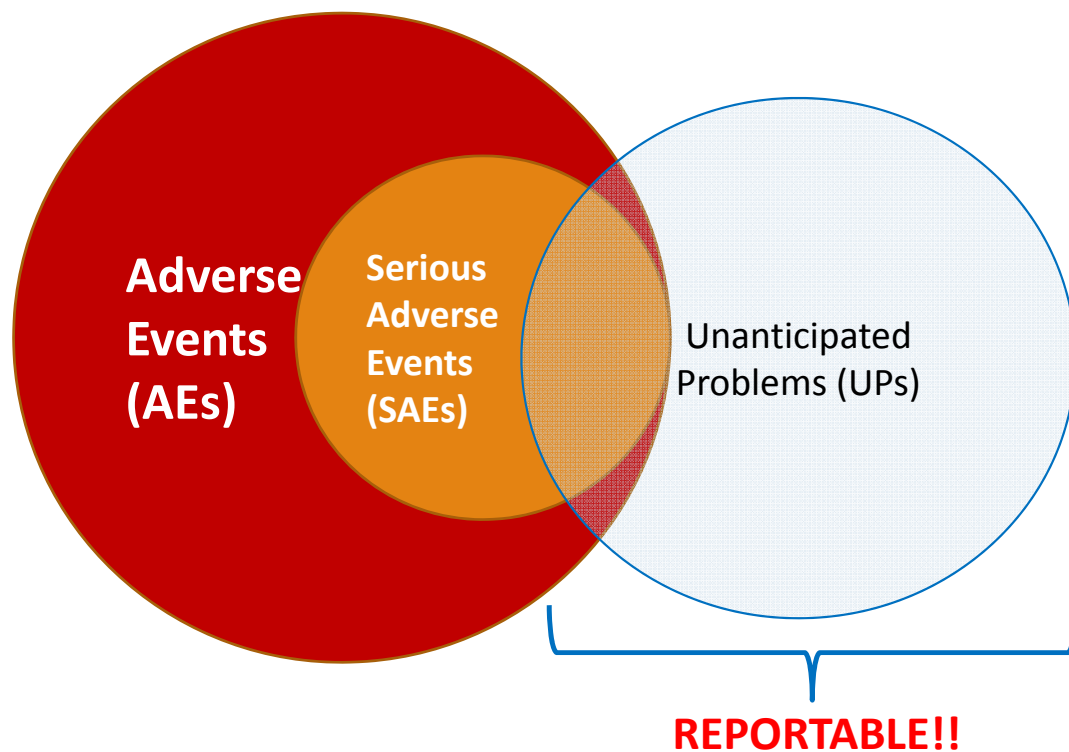
UNANTICIPATED PROBLEMS



**KEEP  
CALM  
AND  
REPORT  
ADVERSE EVENT**

# When is an AE a reportable event?

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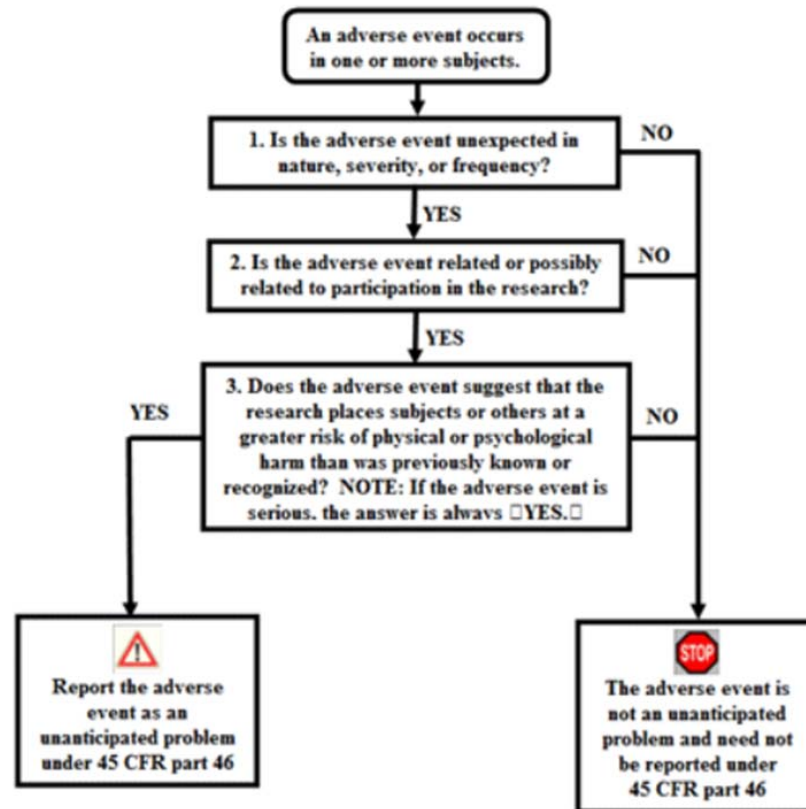


**REPORT to BUMC IRB when an AE meets all 3 criteria to be an Unanticipated Problem**

If an AE is an UP, it must be reported to BUMC IRB within **2 days** of the investigator *learning of* the incident if fatal or life threatening, or within **7 days** otherwise.

If an AE is not a UP, it is reported to IRB at the annual progress report/continuing review.

# Determining Whether an Adverse Event is an Unanticipated Problem



# A note about terminology

When a sponsor says to “**report as an AE**,” they may actually be referring to **documenting** the AE...

- In the CRF
- In the database/eCRF

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## 9.5.4 **Reporting** of Adverse Events, Serious Adverse Events, and Other Events of Interest

Adverse Events (AEs) and Serious Adverse Events (SAEs) have specific reporting procedures as listed in [Appendix 1](#) and [Appendix 2](#).

### 9.5.4.1 Reporting of Adverse Events

#### OVERVIEW

All AEs observed during the study will be reported on the Adverse Events/Side Effects Case Report Form (AE CRF) and in the REDCap data system. All AEs, regardless of relationship to study drug or procedure, should be collected beginning from the time the subject signs the study Informed Consent Form through the last visit. Serious AEs will be collected for 30 days after the last dose following early termination or at the Follow-up Visit, whichever comes later.

Abnormal laboratory values should not be listed as separate AEs if they are considered to be part of the clinical syndrome that is being reported as an AE. Any laboratory abnormality considered to constitute an AE should be reported as an AE on the CRF.

It is the responsibility of the local investigator to review all laboratory findings in all subjects and determine if they constitute an AE. Medical and scientific judgment should be exercised in deciding whether an isolated laboratory abnormality should be classified as an AE.

It is the responsibility of the local investigator to review the results of the movement ratings scales: AIMS, BAS, and SAS each time they are completed and to determine if a result constitutes an AE.

It is also the responsibility of the local investigator to review the results of the C-SSRS in all subjects and determine if any result constitutes an AE. Medical and scientific judgment should be exercised in deciding whether an isolated suicidality rating scale response should be classified as an AE.



# Documentation of Adverse Events

Documentation Type	Purpose	Location
Adverse Event Assessment Form	To assess for presence of AEs in individual research participant	CRF/study binder
Note-to-File	To provide additional info via short narrative about the AE	CRF/study binder
Supporting documentation (e.g. medical record)	Additional source documentation of the AE	CRF/study binder *make sure to <b>de-identify</b> first!
Adverse Event Log	To track <u>all AEs</u> that happen throughout the course of the study	Submit to BUMC IRB at Continuing Review (annually)
Serious Adverse Event Form	To document details of SAE and any follow-up procedures.	Fax/email to sponsor within specified time period. File in participants' CRF/study binder

# Adverse Event Assessment Form

## ADVERSE EVENTS/SIDE EFFECTS FORM

**Instructions:** Record adverse events reported by the patient that are either new or ongoing. Severity of the adverse event or side effect may have varied over the rating period; please record the highest severity rating possible.

Serious Adverse Events (SAEs) and Immediately Reportable Events (IREs) must also be reported, immediately, on the SAE form.

Definitions:

**Mild adverse event:** Awareness of sign, symptom, or event, but easily tolerated.

**Moderate adverse event:** Discomfort enough to cause interference with usual activity and may warrant intervention.

**Severe adverse event:** Incapacitating with inability to do usual activities or significantly affects clinical status, and warrants intervention.

Ask the following questions for each commonly reported adverse event listed below:	Code: 0 = Absent    2 = Moderate 1 = Mild    3 = Severe			
1. <b>NAUSEA:</b> Have you had any problems with nausea?	0	1	2	3
2. <b>VOMITING:</b> Have you had any vomiting?	0	1	2	3
3. <b>SIALORRHEA:</b> Have you had any problems with excessive saliva or drooling?	0	1	2	3
4. <b>DRY MOUTH:</b> Have you had any problems with dry mouth?	0	1	2	3
5. <b>CONSTIPATION:</b> Have you had any problems with constipation?...moving your bowels?	0	1	2	3
6. <b>ORTHOSTATIC FAINTNESS:</b> Have you had any problems with lightheadedness or fainting when you get up from sitting down or lying in bed?	0	1	2	3

Ask the patient if he/she has any other complaints or problems to report and record responses below (if any). Assess each for expectedness, severity, and relatedness:					
20. ADVERSE EVENT:	Expected Unexpected		Mild	Moderate	Severe
	Definite	Probable	Possible	Not likely	Not related
21. ADVERSE EVENT:	Expected Unexpected		Mild	Moderate	Severe
	Definite	Probable	Possible	Not likely	Not related

# Note-to-File

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## NOTE TO FILE

PI:

Date:

Subject ID: **1833-4**

Study Visit #: Stage 2—Month 3

On the morning of Monday [redacted] we received the blood lab results for participant 1833-4 from his [redacted] Stage 2—Month 3 visit. I brought the Study MD to review the results and make a determination regarding the clinical significance of results that were out of range. It was noted that one of the out of range values for the participant was his level of uric acid which was high (9.1 mg/dl). While Dr. [redacted] did not feel that the result was clinically significant and required urgent care or removal of the subject from the study, she recommended that the PCP of the participant be contacted as to this lab abnormality. The same morning, the PCP was contacted by me, [redacted] and notified of the result, in addition to the PI. Any subsequent medical intervention or additional clinical care the participant requires due to this issue will be noted in the case report form in a follow up note to file.

|

Department of Psychiatry  
Boston Medical Center  
720 Harrison Avenue  
Doctors Office Building, Suite 1150  
Boston, MA 02118

# Adverse Event Log

Log template downloaded from  
CRRO website:

<http://www.bumc.bu.edu/crr/regulatory/regulatory-binder/>

[illegible]

# (Serious) Adverse Event reporting form

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## 9.5.4.2 Reporting of Serious Adverse Events

### OVERVIEW

All SAEs and events of interest, regardless of their relationship to study treatment, must be reported to the Coordinating Center within 1 business day from the date the local investigator becomes aware of the event.

Deaths and life-threatening events should be reported immediately by telephone to the Coordinating Center. The immediate report should be followed up within 1 business day by emailing or faxing the completed SAE CRF.

Preliminary SAE CRFs should be followed as soon as possible by detailed descriptions, including copies of hospital case reports, autopsy reports, and other documents requested by the sponsor.

# To whom do you report AEs/SAEs/UPs?

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BUMC IRB, or the IRB of record

The study sponsor/coordinating center

The FDA

Keep in mind that different entities may have different (though usually similar) reporting criteria, timeframes, forms and/or processes.

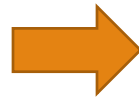
# Reporting AEs to BUMC IRB


## Protocol Items


Protocol Items	
<input type="radio"/>	Study Application
<input type="radio"/>	Informed Consent ▶
<input type="radio"/>	Other Study Documents ▶


## Submission Forms


Available Forms	
<input type="radio"/>	Change Request and Amendments
<input type="radio"/>	Continuing Review Submission Form
<input type="radio"/>	Final/Closure Report Form
<input type="radio"/>	Initial Review Submission Form
<input type="radio"/>	Internal Study Personnel Changes
<input type="radio"/>	Protocol Exception Form
<input type="radio"/>	Reportable Events and New Information Form



 Copy Form

 Add a New Form

 Compare Two Versions

 Delete Selected Form(s)

# 1.0 Reportable Events

Section view of the Form	Entire view of the Form
1.0  Reportable Events and New Information	<b>1.0 Reportable Events and New Information</b>
2.0  Report Date	For information about reporting requirements, click <a href="#">here</a>
3.0  Unanticipated Problems (UPs) Details	<b>1.1 Study Information:</b>
4.0  Need for protocol or consent form modifications	<b>IRB Number:</b> H-35230
5.0  Attachments	<b>Study Title:</b> A Randomized, Multi-site, Parallel-group, Rater-blind Study Comparing Response with Aripiprazole Once Monthly and Standard of Care Oral Antipsychotics in Non-adherent Outpatients with Schizophrenia Identified using the Brief Adherence Rating Scale
	<b>Principal Investigator:</b> David Carlton Henderson, MD
	<b>1.2 Report Type</b>
	<input type="checkbox"/> Unanticipated Problem associated with fatal or life-threatening event - Initial Report <b>**must be submitted within 2 days of investigator learning of event</b>
	<input checked="" type="checkbox"/> Unanticipated Problem NOT associated with fatal or life-threatening event - Initial Report <b>**must be submitted within 7 days of investigator learning of event</b>
	<input type="checkbox"/> Unanticipated Problem - Follow-up Report
	<input type="checkbox"/> Major Protocol Deviation (also select Unanticipated Problem if this deviation suggests that the research places subjects or others at a greater risk of harm than was previously known or recognized.) <b>**must be submitted within 7 days of investigator learning of event</b>
	<input type="checkbox"/> DSMB, DMC, or other safety monitor's report WITH recommended changes to the study (if NO recommended changes, do not file this form; instead, report at the time of Continuing Review) <b>**must be submitted within 7 days of investigator receiving report</b>



# 2.0 Report Date

Section view of the Form	Entire view of the Form
1.0  Reportable Events and New Information	<div><b>2.0 Report Date</b></div> <div><b>2.1 Date Unanticipated Problem or Deviation occurred (or report date for DSMB, DMC or other safety monitor report with recommendations):</b></div> <div><input type="text" value="11/07/2017"/> </div> <div><b>2.2 Date PI became aware of Unanticipated Problem or Deviation (or received DSMB, DMC or other safety monitor report with recommendations):</b></div> <div><input type="text" value="11/07/2017"/> </div>
2.0  Report Date	
3.0  Unanticipated Problems (UPs) Details	
4.0  Need for protocol or consent form modifications	
5.0  Attachments	

**3 UP**  
**criteria**

**3 UP**  
**criteria**

# 4.0 Need for protocol/ICF modifications

Section view of the Form	Entire view of the Form
1.0  Reportable Events and New Information	<b>4.0 Need for protocol or consent form modifications</b>
2.0  Report Date	<b>4.1 Does the protocol require modification?</b>
3.0  Unanticipated Problems (UPs) Details	<input type="radio"/> Yes <input checked="" type="radio"/> No
4.0 <b>Need for protocol or consent form modifications</b>	<b>4.2 Does the Consent Form require modification?</b>
5.0  Attachments	<input type="radio"/> Yes <input checked="" type="radio"/> No
	<b>4.3 Describe either the required modifications or why no modifications are needed. Submit required modifications using a separate Change Request &amp; Amendments form. (Submit this report, even if the required Change Request &amp; Amendment form is not ready to submit.)</b>
	<div><div></div><div>DESCRIBE PROTOCOL/ICF MODIFICATION, OR DESCRIBE WHY NO MODIFICATIONS ARE NEEDED.</div></div>

# 5.0 Attachments (modified protocol/ICF)

Section view of the Form

Entire view of the Form

1.0 Reportable Events and New Information

2.0 Report Date

3.0 Unanticipated Problems (UPs) Details

4.0 Need for protocol or consent form modifications

5.0 Attachments

5.0 Attachments

5.1 Attach here any remaining documents that you have not attached in previous sections

\*\*Do not use this form to report Adverse Events or Serious Adverse Events that do NOT meet the definition of Unanticipated Problems, to report MINOR protocol deviations, or to submit monitoring reports with NO recommended changes. Instead, attach these to the Progress Report form at the time of Continuing Review.

Select or Revise Existing

Add a New Document

Add Multiple Documents


Detach	Version	Sponsor Version	Title	Category	Expiration Date	Document Outcome	Checked Out	View Document
No Document(s) have been attached to this form.								

# This is confusing!

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Yes, it is! **Refer back** to the BUMC IRB policy, study protocol, Manual of Procedures, etc...

**Ask** your fellow RAs/coordinators, project/program manager, ask the IRB, ask the CRRO – it is always better to ask than guess!



# For More Information

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For more information on reviewing and reporting unanticipated problems, visit the Office for Human Research Protections (OHRP) and the Department of Health and Human Services (HHS) webpage

<https://www.hhs.gov/ohrp/regulations-and-policy/guidance/reviewing-unanticipated-problems/index.html>

# GROUP EXERCISE

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