The University of Toledo
Human Research Protection Program
Center for Creative Education Building — and Hu
Drug Administration (FDA) provide the basis for therhan Regarding reporting adverse events and unanticipated pro

HHS regulations:

- Require UT administrators to promptly report any unanticipated problems involving human research subjects to OHRP, institutional officials, and the sponsoring agency [45 CFR 46.103(a)];
- Require the responsible IRB to make certain determinations regarding risks to participants prior to approving research and at least once per yeassidontinuing review is not required [45 CFR 46.111(a); 45 CFR 46.109(e)](f)
- Require institutions engaged in research to have written procedures for ensuring prompt reporting of unanticipated problems violving risks to subjects or others [45 CFR 46.108(a)(41)]D
- Give the responsible IRB the authority to terminate IRB approval of research that is associated with unexpected serious harm to subjects [45 CFR 46.113]

FDA regulations:

- Require investigators to promptly report to the IRB all unanticipated proliped proliped no. 312 and 812].
- Require investigators to submit to the IRB and the sponsor a report of an unanticipated adverse device event (UADE) no later than 10 working days after inthe estigator learns of the ever [2t1 CFR 812.150(a)(1)].

The information contained in this guidancedocument will:

- Provide a framework to ensure that the reporting and review of adverse events and unanticipated problems occur in a timely, meaningful way so that participants in human subject research are better protected from avoidable harms, while minimizing unnecessary burden on investigators and IRB members, and
- Clarify the need to report unanticipated problethat increase the risk of harmodument responsibilities of investigators and the Institutional Review Board with respect to adverse events and unanticipated problemassure compliance with federal regulations for prompt reporting of unanticipated problems to institutional officials, supportingencies, sponsors and the Office for

Human Research Protections (OHR) provide reference links to OHRP and FDA regulatory guidance related to this topic.

B. Definitions

1. What are adverse events?

The HHS regulations at 45 CFR 46 do not define or use the term adversenevish there a common definition of this term across government and non-government entities. For purpus squidance document, the term dverse events used broadly and includes any event meeting the following definition:

Adverse Event- 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.

Adverse events encompass both spits and psychological harm they occur most commonly in the context of biomedical research, although on occasion, they can occur in the context of social and behavioral research.

Serious Adverse Events as defined by the FDA are any of the following desirable experiences associated with the use of a medical proderious adverse events include:

- death as a result of the adverse event
- life-threatening, substantial risk of dying at the time of the adverse event
- inpatient hospitalization, initial or prolonged as a result of the adverse event
- an event that caused disabilityermanent damage or was incapacitating
- congenital anomaly or birth defect
- an incident requiring surgical or medical intervention to prevent permanent damage (devices)
- Other serious events that do not fit the above but may jeopardize the patient

In the context of multicenter clinical trials, adverse events can be characterized as either internal adverse events events or external adverse events

For an institution engaged in a multicenter clinical trial;

- internal adverse events experienced by subjects enrolled by the institutional investigator(s), whereas
- external adverse events experienced by subjects enrolled by investigators at other institutions engaged in the clinical trial. In the case of external adverse, twe interestigators at all participating institutions learn of such events via reports that are distributed by the sponsor or coordinating center of the multicenter clinical trials many institutions, reports of external adverse events represent the majority of adverse event reports currently being submitted by investigators to IRBs.

For an institution engaged in a singlecenter clinical trial, <u>all</u> adverseevents would be considered internal adverse events.

- In the case of an internal adverse event investigator at that institution typically becomes aware of the event directly from the subject, another collaborating tigater at the same institution or the subject's healthcare provider either directly or through reports sent to the investigator. This may include Emergency Room visits or other hospitalizations at other facilities

2. What are unanticipated problems?

The phrase unanticipated problems involving risks to subjects or others" is found but not defined in the HHS regulations at 45 CFR part 46. OHRP considers unanticipated problems eral, to include any incident, experience, or outcome that meets all efollowing criteria:

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

C. How do you determine which adverse events are unanticipated problems?

In OHRP's experience, most IRB members, investigators, and institutional officials understand the scope and meaning of the term adverse eventhe research contebut lack a clear understanding of OHRP's expectations of what, when, and to whome diverse events need to be reported as unanticipated problems, given the requirements of the HHS regulations at 45 CFR part 46 (i.e., adverse events that are unanticipated problems must be reported promptly to the IRB

The keyquestion regarding a particular adverse event is whether it meets the three criteria for being defined as annanticipated problem(1) the adverse event is unexpected, (2) the adverse event is related or possibl?quer(3.)7.6 (t)0 0e

Report at the time of continuing review			

Flowchart for Reporting Internal Adverse Events and Unanticipated Problems to UT IRBs

