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**Boston
Children's
Hospital**

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Owner Susan Kornetsky:
Manager
Department Research
Applicability Boston Children's
Hospital- Policies
& Procedures

Drugs, Biologics, and Dietary Supplements Policy/ Procedure

Internal Approval

SVP, Research

EVP & Chief Scientific Officer, Research

Scope

This policy describes the various regulatory mechanisms for obtaining, testing, and using drug and biologic products in compliance with federal and state regulations pertaining to clinical investigations

Definitions

Investigational use: Suggests the use of an approved product in the context of a clinical study protocol [21 CFR 312.3(b)]. When the principal intent of the investigational use of a test article is to develop information about the product's safety or efficacy, submission of an Investigational New Drug (IDE) may be required.

Off label use: When the FDA approves a drug or biologic it also includes the indications for which is it approved. Variance from the intended use is referred to as "off label use".

Sponsor-Investigator: An individual who both initiates, conducts an investigation, and under whose immediate direction the investigational drug is administered or dispensed. The term does not include any person other than an individual.

Policy Statements

Research at Boston Children's Hospital that involves the **investigational use** of drugs, biologics, and

dietary supplements must conform to U.S. Food and Drug Administration (FDA) regulations, Department of Health and Human Services (HHS) regulations, and Massachusetts state regulations (94C MGL 8).

FDA regulations have additional requirements for clinical investigations that involve the use of an approved product or biologic, if it is used in a manner for which it is not approved. FDA regulations for investigational new drug (IND) requirements are outlined in 21 CFR 312. Regulations on drug products can be found in 21 CFR 314 and regulations on biological products are in 21 CFR 600.

State regulations (94C MGL 8) require the registration of investigators who use investigational and Schedule II drugs in research protocols.

Current federal law requires that a drug be the subject of an approved marketing application before it is transported or distributed across state lines. Because a sponsor will most likely ship the investigational drug to clinical investigators in other states, they must seek an exemption from that legal requirement.

1. The IND is the means through which the sponsor technically obtains an exemption from the FDA.
2. The IND regulations are detailed in 21 CFR 312.

Exemptions from IND Requirements

Federal regulations also allow for certain types of studies to be exempt from the IND regulations. Per 21 CFR 312.2, Clinical investigations of a drug product that is lawfully marketed in the United States may be exempt from the requirements of the IND regulations, provided that all of the following conditions apply:

1. The study is not intended to be reported to the FDA as a well-controlled study in support of a new indication or use; or support any significant change in the drug's labeling;
2. The study is not intended to support a significant change in the advertising for a prescribed drug;
3. The study does not involve a change in route of administration, dosage level, patient population, or other factors that significantly increases the risks associated with use of the drug product;
4. The study complies with IRB evaluation and informed consent requirements; and
5. The study sponsor and/or investigator do not represent in a promotional context that the drug is safe and effective for the purposes in which it is under investigation.

When research involves the use of a drug other than the use of a marketed drug in the course of medical practice, the regulations also provide for additional exemptions from the IND regulations:

1. A clinical investigation is for an in vitro diagnostic biological product that involves one or more of the following: Blood grouping serum, reagent red blood cells, anti-human globulin.
 - a. The diagnostic test is intended to be used in a diagnostic procedure that confirms the diagnosis made by another, medically established, diagnostic product or procedure.
 - b. The diagnostic test is shipped in compliance with 21 CFR 312.160 C.

2. A clinical investigation involving use of a placebo if the investigation does not otherwise require submission of an IND. (See 21 CFR 312.2 for a full description of exempt categories)

Conducting a Study in Accordance with IND Regulations: Investigator and Sponsor-Investigator Responsibilities

It is the responsibility of the Sponsor (including Sponsor-Investigator or Principal Investigator) to justify why a proposed study meets the requirements for exemption from the IND regulations.

1. Boston Children's Hospital's Regulatory Affairs, in conjunction with the IRB, will determine whether the justification is sufficient to proceed, or whether confirmation by the FDA is necessary.
2. Investigators are advised to review the FDA Guidance document, *Investigational New Drug Applications (INDs) – Determining Whether Human Research Studies Can Be Conducted Without an IND*.

Investigator Responsibilities

Responsibilities of an investigator participating in a study under an IND are detailed in Subpart D of 21 CFR 312. For all investigations subject to IND regulations:

1. The investigator is required to be knowledgeable about the requirements of FDA regulations and
2. Must be listed on a *FDA Form 1572* in order to administer an investigational product.

At the time of continuing review, the IRB may request additional documentation to be confirm the investigator is following the IND requirements.

Sponsor-Investigators Responsibilities

Regulatory responsibilities for investigators and sponsors are detailed in 21 CRR 312 subpart D. A Sponsor-Investigator is responsible for all requirements as both a sponsor and an investigator.

1. Prior to approval of a protocol in which the IND is held by a Sponsor-Investigator, there are two requirements:
 - a. Boston Children's Hospital's Regulatory Affairs will conduct sponsor responsibility training with the Sponsor-Investigator
 - b. A IND/IDE Resource Group (IIRG) Meeting will be held.

Dispensing and Storage of Investigational Drugs and Drugs used in research protocols

All investigational drugs and drugs used for research protocols must be stored and dispensed from the pharmacy and used only under the direct supervision of the Principal Investigator (PI).

1. Investigational drugs must be shipped to the pharmacy and should not be stored in offices and clinic areas.
2. Industry sponsored studies may require inspection of the pharmacy's Investigational Drug Study Area before Boston Children's Hospital is used as a study site.
3. In all cases where study drugs are to be dispensed, the PI or a designee must contact the Pharmacy's Investigational Drug Study Service (ext. 2014 or 6803) to arrange for:
 - a. shipping location
 - b. storage
 - c. dispensing instructions
 - d. compounding
 - e. blinding procedures
 - f. record keeping
 - g. other areas of pharmacy involvement.

Procedures

Investigational New Drug (IND) Application Process

It is the responsibility of the Sponsor-Investigator to submit an IND application to the FDA for studies which must be conducted under an IND. The IND application must contain information in three broad areas:

1. **Animal Pharmacology and Toxicology Studies** - Preclinical data to permit an assessment as to whether the product is reasonably safe for initial testing in humans. For many Sponsor-Investigator (or investigator-initiated INDs), this requirement can be met by submitting a Letter of Authorization cross-referencing a third party's regulatory application. Also included in the IND are data on any previous experience with the drug in humans.
2. **Manufacturing Information** - Information pertaining to the composition, manufacturer, stability, and controls used for manufacturing the drug substance and the drug product. This information is assessed to ensure that the company can adequately produce and supply consistent batches of the drug. For many Sponsor-Investigator (or investigator-initiated INDs), this requirement can be met by submitting a Letter of Authorization cross-referencing a third party's regulatory application.
3. **Clinical Protocols and Investigator Information** - Detailed protocols for proposed clinical studies to assess whether the initial-phase trials will expose subjects to unnecessary risks. Also, information on the qualifications of clinical investigators to assess whether they are qualified to fulfill their clinical trial duties. Finally, commitments to obtain informed consent from the research subjects, to obtain review of the study by an institutional review board (IRB), and to adhere to the investigational new drug regulations.

Boston Children's Hospital Internal Review Process

The IND/IDE Resource Group (IIRG) is a group of experts from across the hospital that internally reviews the IND application prior to submitting to the FDA.

All Investigators seeking to submit an IND to the FDA will first be required to participate in this internal review process to:

1. Review the proposed protocol
2. Review requirements of the institution and of sponsoring an IND
3. Provide recommendations for how the Investigator can meet their regulatory obligations.

FDA Submission

1. Once the IND is submitted, the sponsor must wait 30 calendar days before initiating any clinical trials.
2. During this time, the FDA has the opportunity to review the IND for safety to assure that research subjects will not be subjected to unreasonable risk.
3. At the end of this 30-day review period, the FDA may issue a "Study May Proceed" letter or a clinical hold letter.

Information to be submitted with the IRB Application

Complete IND information must be submitted with any protocol submitted to the IRB that involves an investigational drug or biologic.

1. Investigators are required to submit IND information provided by the sponsor, or if the investigator is also the sponsor a copy of the letter from the FDA that assigns the IND.
2. The IRB will not release a final approval until all IND information is complete.
3. Protocol administrators will be responsible for making sure this information is obtained prior to release of the IRB approval notification and informed consent document.
4. If there is any question as to whether an IND is required, the IRB may require, as part of the review and approval process, that the investigator contact a Boston Children's Hospital Regulatory Affairs Specialist or the FDA to discuss the protocol and to determine if an IND is required.
5. Investigators who propose to use investigational or marketed drugs for unapproved indications must also follow FDA regulations 21 CFR 50 and 56.
 - a. For the most part, the FDA regulations are the same as HHS regulations 45 CFR 46. The regulations are similar with regard to IRB organization, composition, procedure, record keeping, and criteria for approval of research protocol, and informed consent documentation.
 - b. At the time of a continuing review, if an investigator is the sponsor of an IND, a copy of the annual report to the FDA will be requested.

Use of a marketed drug or biologic in a manner for which it is not approved: Off Label Use and Investigational Use

"Off Label Use"

Good medical practice and patient interest require that physicians use commercially available drugs and biologics in a knowledgeable way and with sound judgment. If a physician uses a product for an indication that is not in the approved labeling, it is their responsibility to be well informed about the product and to base its use on firm scientific rationale and sound medical evidence. Use of a product for an individual patient in this manner may be considered "off label use" and "medical practice." This does not require submission of an IND or a protocol to the IRB. The IND regulations do not apply to the use in the practice of medicine for an unlabeled indication of a new drug product approved under part 314 or of a licensed biological product.

"Investigational Use"

Approved drug and biologic products may also be utilized in clinical trials. When the principal intent of the investigational use of a test product is to develop information about the product's safety or efficacy, submission of a protocol to the IRB is required. This is usually performed as a protocol with a hypothesis for a group of defined patients. In this situation the intent is not solely to treat one patient but to look at a group of patients to answer a specific, predetermined set of questions.

FDA has stated that whether an IND is needed to conduct a clinical investigation of a marketed drug primarily depends on the intent of the investigation and the degree of risk associated with the use of the drug in the investigation.

1. A clinical investigation of a marketed drug is exempt from the IND requirements if all of the criteria for an exemption in 21 CFR 312.2(b) are met.
2. When there is a question as to whether the use of a marketed drug or biologic for an unapproved indication requires an IND, the investigator is advised to speak to Boston Children's Hospital's Regulatory Affairs or to contact the FDA directly.
3. The IRB may require that an investigator contact the Boston Children's Hospital Regulatory Affairs or FDA if this has not been done at the time of IRB review, and documentation of the determination is required.

Expanded Access of Investigational Drugs

The use of investigational drugs and biologics is usually limited to subjects enrolled in clinical trials under an IND. However, test articles may show some promise before the trials are completed. When there is no satisfactory standard treatment for a serious, a life-threatening, or a debilitating condition, the FDA has a mechanism that allows expanded access to the drugs before the clinical trials are complete. When no satisfactory alternative treatment exists, subjects are generally willing to accept greater risks from test articles that may treat life-threatening and debilitating illnesses.

Dietary Supplements

The increased use of supplements has led to an increase in research. The FDA has finalized rules that define the types of statements that may be made concerning the effects of dietary supplements on the structure or function of the human body.

When a clinical investigation is intended to evaluate the dietary supplement's ability to diagnose, cure,

mitigate, treat, or prevent a disease, an IND is usually required.

1. The investigator is advised to review with the Boston Children's Hospital's Regulatory Affairs or with the FDA when developing a protocol that involves the use of dietary supplements.
2. The IRB may also require that the FDA be contacted, if the investigator has not already done so.
3. Massachusetts Regulations (94C) for Registration of Investigational Drugs and Schedule II Drugs in Research Massachusetts law requires the registration of investigators who use investigational and Schedule II drugs in research protocols.
 - a. The law requires that any investigator who is using either an investigational drug, as defined by FDA regulations, or a Schedule II drug as part of a research protocol must register and obtain a license as a researcher from the Commonwealth of Massachusetts.
 - b. For MA registration purposes, Research Drug means an investigational new drug, as defined in 21 CFR 312.3, or the investigational use of any scheduled drug in a research study or project where it will be administered or dispensed.
 - c. To facilitate compliance with the law, the State has determined that Department Chairs may opt to assume responsibility for the registration of all research investigators within their departments.
 - i. Boston Children's Hospital registers and obtains a license for any department that engages in research that involves investigational and Schedule II drugs in research protocols.
 1. The license is obtained in the name of the Department Chair; however, the application includes the following information for each study of an investigational drug: list of protocols with PI and approval date, and FDA Form 1572 from each study.
 2. The license is renewed annually. Departments are required to submit a renewal of the license annually and the Hospital's compliance office is available to assist with questions regarding registration.
 - ii. In addition to the information required for the license, the State requires:
 1. A current copy of the Department Chair's Massachusetts Medical License
 2. Massachusetts Controlled Substance Practitioner Registration (if any)
 3. Drug Enforcement Administration Controlled Substance Registration
 - d. For Schedule I and II drugs, individual investigators are responsible to register with both the Drug Enforcement Administration (DEA) and the state. This is distinct from the ability to have the department Chair/Chief apply on behalf of all researchers for IND drugs.
 - i. Individual Investigators should maintain a copy of the Drug Enforcement

Administration Registration of each person required to be registered by the DEA (700.009(c)(2))

Related Content

- U.S. Food & Drug Administration CFR – Code of Federal Regulations
 - 21 CFR.312: Investigational New Drug Application
 - 21 CFR 312.2: Investigational New Drug Exempt Categories
 - 21CFR.314: Applications for FDA Approval to Market a New Drug
 - 21CFR.600: Biological Products
- U.S. Food & Drug Administration Guidance
 - [Information Sheet Guidance for Sponsors, Clinical Investigators, and IRBs: Frequently Asked Questions – Statement of Investigator \(Form FDA 1572\)](#)
 - [Investigator-Initiated Investigational New Drug Applications:](#)
 - [Investigational New Drug Applications \(INDs\) – Determining Whether Research Studies Can be Conducted Without an IND](#)
- Massachusetts General Law
 - Chapter 94C Section 8: Research projects and studies
 - Department of Public Health 105 CMR 700.009: Research Involving Controlled Substances
- IRB Policy
 - Expanded Access – Investigational Drugs (For additional information on expanded access for investigational drugs)
- Boston Children's Hospital Guidance
 - [Office of Regulatory Affairs: Regulatory Resources](#)

Approval Signatures

Step Description

Approver

Date

Applicability

Boston Children's Hospital- Policies & Procedures