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FDA-Regulated Research:

An Overview



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Thursday, October 13, 2022 https://research.med.cornell.edu/irb

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Federal Drug Administration (FDA): Introduction

When Do FDA Regulations Apply?

Today's Topics

Investigational Drugs

Investigational Medical Devices

Expanded Access (Compassionate Use)

Humanitarian Use Devices (HUD)

Emergency Use of a Test Article (Drug, Biologic, or Device)

FAQs



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Federal Drug Administration (FDA): Introduction



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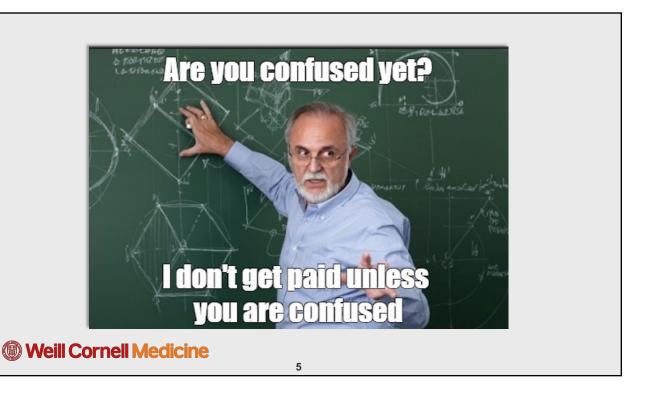
When Do FDA Regulations Apply?



- Clinical investigation instead of research
- Test article, what's that?
- Not your typical human subject...

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Investigational Drugs

- Testing of unapproved drugs
- Testing of approved drugs that involves new indications or significant labeling changes





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So Why Does the FDA Need to Review INDs? Could My Study Be Exempt?

EXEMPT? Well, maybe...

Exemption from IND could be considered for:

- · Clinical investigations using marketed drugs
- · Bioequivalence/bioavailability studies
- Studies using radiolabeled or cold isotopes
- · Studies using dietary supplements or foods
- Studies using endogenous compounds
- · Pathogenesis studies using modified organisms
- Studies using wild-type organisms in challenge models
- · Studies that do not have a commercial purpose

The FDA has two primary objectives in reviewing an IND:

- to assure the safety and rights of subjects in all phases of an investigation; and
- 2. in phases 2 and 3, to help assure that the quality of the scientific evaluation of the drug is adequate to permit an evaluation of the drug's effectiveness and safety (21 CFR 312.22).

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Off-label Use in the Practice of Medicine

Approved products may be used by physicians outside of labeled indications for the practice of medicine

- No IND is needed



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Best Practice?

It's a much safer path to file an IND application and have it deemed exempt than not to file and later be subject to a determination that an IND should have been requested



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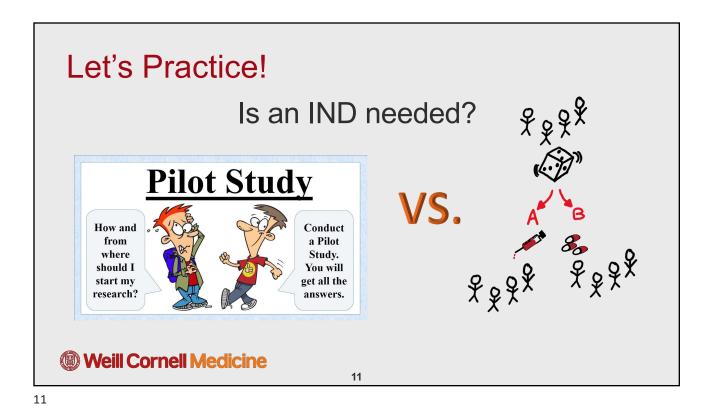
Never Forget the IRB



Whether an IND is or is not required, all clinical research must have IRB review and approval

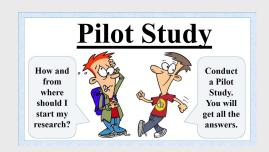
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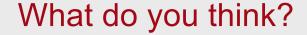
What do you think?

Is an IND needed for this small pilot study?



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Is an IND needed for this small pilot study?

How and from where should I start my research? Conduct a Pilot Study. You will get all the answers.

No!



A small pilot study is an appropriate first step in determining whether a change in labeling should be sought



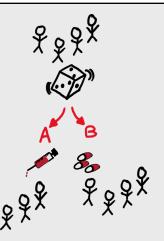
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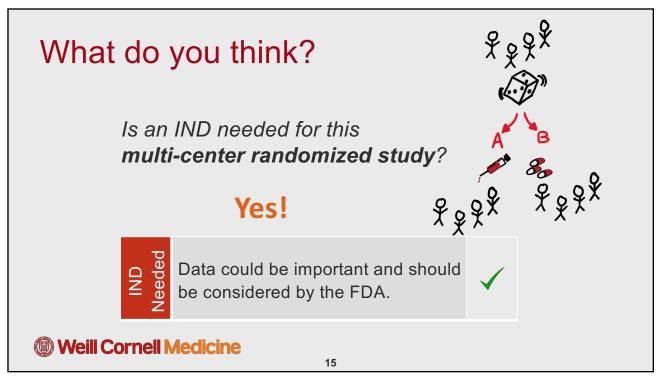
What do you think?

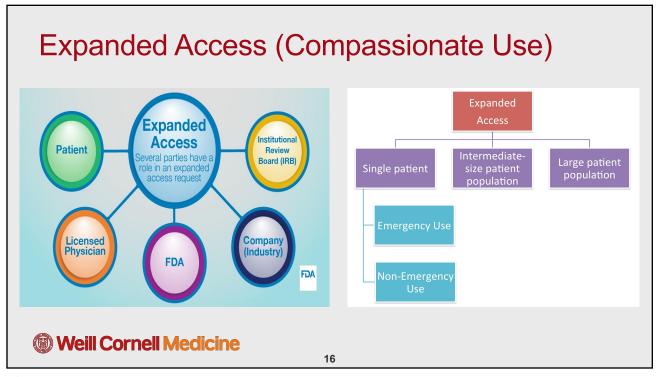
Is an IND needed for this multi-center randomized study?



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Individual Expanded Access Involving Investigational New Drugs (SPINDs)

FDA must determine that:

- Serious/immediately life-threatening disease or condition; no comparable or satisfactory alternative therapy to diagnose, monitor, or treat the disease or condition;
- Potential benefit justifies the potential risks of the drug; risks are not unreasonable;
- Does not interfere with the initiation/conduct/completion of clinical investigations that could support marketing approval of the expanded access use or otherwise compromise the potential development of the expanded access use; and
- The patient cannot obtain the investigational drug under another IND or protocol.



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FDA Form 3296

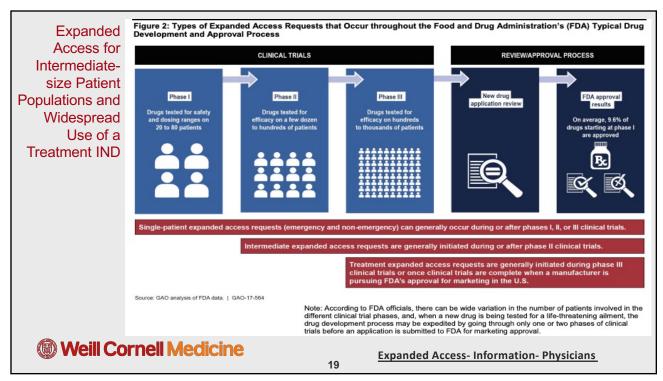
SPINDs): Expedited IRB Review Request

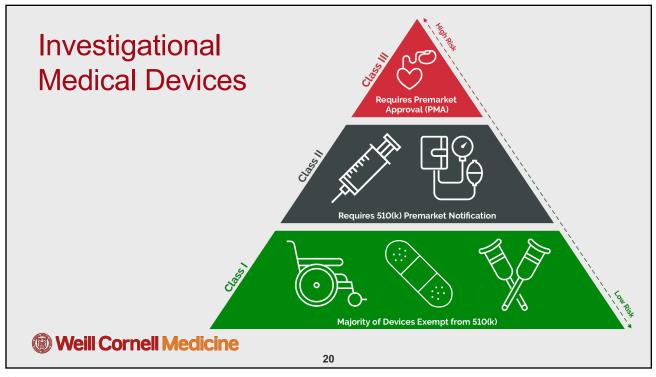
(Emergency /

Non-Emergency

. Letter of Authorization (LOA), if a	onlicable (orongally obtain	ned from the manufac	charer of the doubl
☐ I have attached the LOA. (Attach			
Note: If there is no LOA consult the			
7 Physician's Qualification Stateme	et /Including medical sol	hoof afteroriest year of	graduation, medical specially, state medical
Noense number, current employmen	t, and job title. Alternative	ly, attach the first few	pages of physician's curriculum vitae (CV), if PDF functions for file attachments.)
8. Physician Name, Address, and Co	estact Information		
Physician Name (Sponsor)			Email Address of Physician
Address 1 (Street address, No P.O. box	16)		
Address 2 (Apartment, suite, unit, buildin			Telephone Number of Physician
Address 2 (Apartment, suite, unit, buildir	g, noor, etc.)		Telephone Number of Physician
City	State		Facsimile (FAX) Number of Physician
ZIP Code			Physician's IND number, if known
9. Contents of Submission			
rns submission contains the following follow-up communications, use Form F	materials, which are atta DA 1571 for your submis	onea to this form (sex sion.	ect all that apply). If none of the following apply to the
☐ Initial Written IND Safety Report			nge in Treatment Plan
□ Follow-up to a Written IND Safety	Report	☐ Gen	eral Correspondence
☐ Annual Report		☐ Resp	ponse to FDA Request for Information
 Summary of Expanded Access U 	se (treatment completed)	☐ Resp	ponse to Clinical Hold
10.a. Request for Authorization to U	se Form FDA 3926		
 I request authorization to submit 	his Form FDA 3926 to con	nply with FDA's require	ements for an individual patient expanded access IND.
10.b. Request for Authorization to U	se Alternative IRB Revie	ew Procedures	
 I request authorization to obtain of the treatment use begins, in order review and approval at a convenience. 	r to comply with FDA's req	uirements for IRB revie	(B) chairperson or by a designated IRB member, before w and approval. This concurrence would be in lieu of rs are present.
required materials unless I receiv continue clinical investigations or informed consent, and that an In- approval of this treatment use, or request, treatment may begin with	e earlier notification from wered by the IND if their stitutional Review Board onsistent with applicable hout prior IRB approval, e to conduct the investi-	m FDA that treatmer se studies are placed ((IRB) will be respore FDA requirements, provided the IRB is gation in accordance	receipt of a completed application and all it may begin. I also agree not to begin on on clinical hold. I also certify that I will obtain sible for initial and continuing review and I understand that in the case of an emergency notified of the emergency treatment within 5 with all other applicable regulatory requirements. He 18. Sec. 10(1)
Signature of Physician	atement is a criminal	Onense (0.0.0. 11	Date
To enable the signature field, please fi which have not yet been filled out, ple	Il out all prior required fie ase click here.	lds. For a list of requir	
	For I	FDA Use Only	
	Is this an emergency in	idividual patient IND?	Is this indication for a rare disease (prevalence < 200,000 in the U.S.)?
Date of FDA Receipt			

DEPARTMENT OF I Food at Individual Pat Investigational No (Title 21, Code of Fed	Form Approved: OMB No. 0910-0814 Expiration Date: May 31, 2022 See PRA Statement on last page.	
1. Patient's Initials	TMI	2. Date of Submission (mm/dd/yyyy)
3. Type of Submission NOTE: Checking box 3a or 3b will "turn or 3.a. Initial Submission Gelect this box if this form is an initial submission for an individual	ONLY the fields that must be completed. 3.b. Follow-Up Submission Gefect this box if this form accompanies a follow-up submission by an existing	Investigational Drug Name Physician's INO Number
patient expanded access IND, and complete only fields 4 through 8, and fields 10 and 11.	individual patient expanded access IND, and complete the items to the right in this section, and fields 8 through 11.	
4, Clinical Information		
equest, including an explanation of why ti		
6. Treatment information		
E. Treatment information mentipations Drug Name		
6. Treatment information	(generally the manufacture)	
E. Treatment information mentipations Drug Name	(perceil) the manufacture)	
E. Treatment information investigations for phame Name of the eritity that will supply the day PDA Review Division (if Index)	and schedule of administration, planned duration,	and monitoring procedures. Also include







Which of the following is a medical device?











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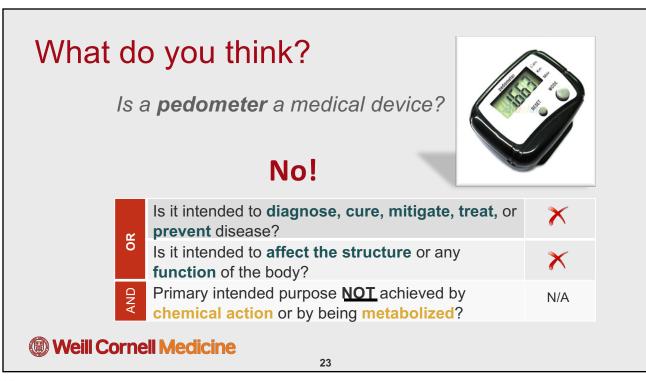
What do you think?

Is a **pedometer** a medical device?



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What do you think?

Is a **blood glucose test kit for home use** a medical device?



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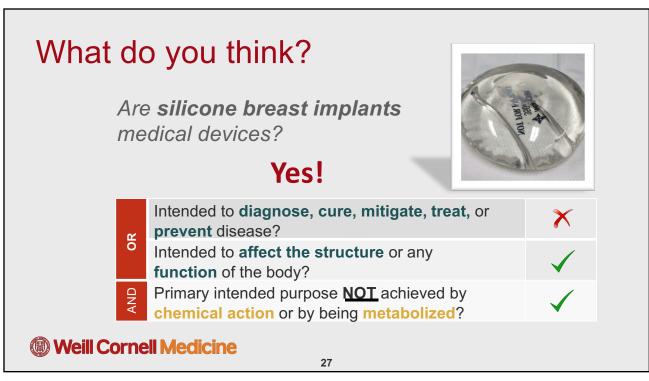
What do you think?

Are silicone breast implants medical devices?



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What do you think?

Is a **subdermal birth control implant** [regulated as] a medical device?



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What do you think?

Is a **VR surgical simulator** a medical device?



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Is a **VR surgical simulator** a medical device?



Yes!

Is it intended to diagnose, cure, mitigate, treat, or prevent disease?
Is it intended to affect the structure or any function of the body?

Primary intended purpose NOT achieved by chemical action or by being metabolized?

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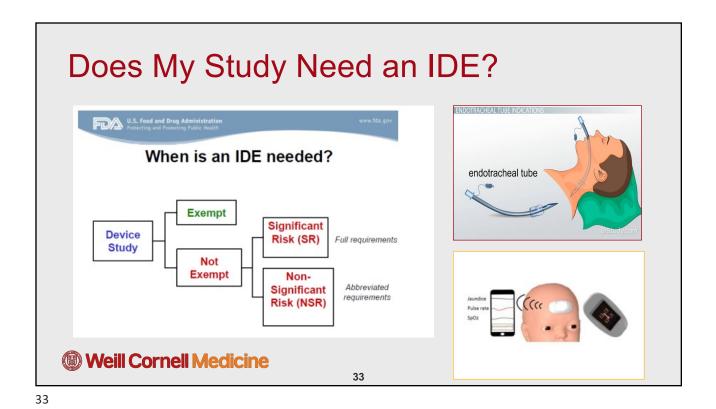
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Great JOB!!!



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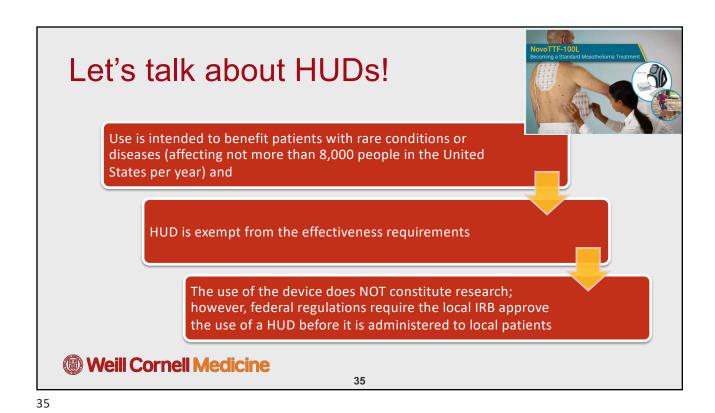
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Who Decides Whether A Device Study is SR or NSR?

CASO GERRADO!

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Emergency Use of a Test Article (Drug, Biologic or Device) Figure 1: Emergency Use or Treatment Use Time for IRB Review? Yes: No: Treatment Use **Emergency Use** FDA FDA IRB Review/ Review/ Review/ Approval Approval Approval IRB Reporting

Life-threatening

- Diseases or conditions where the likelihood of death is high unless the course of the disease is interrupted and diseases or conditions with potentially fatal outcomes where the end point of clinical trial analysis is survival.
- The criteria for life-threatening do not require the condition to be immediately life-threatening or to immediately result in death. Rather, the subjects must be in a life-threatening situation requiring intervention before review at a convened meeting of the IRB is feasible.

Severely Debilitating

- Diseases or conditions that cause major irreversible morbidity.
- Examples of severely debilitating conditions include blindness, loss of arm, leg, hand or foot, loss of hearing, paralysis or stroke.

What About Informed Consent and IRB Reporting of eINDs?

Informed Consent is waived IF:

- the patient is confronted by a lifethreatening situation necessitating the use of the test article;
- informed consent cannot be obtained because of an inability to communicate with, or obtain legally effective consent from, the patient;
- time is not sufficient to obtain consent from the patient's legal representative;
- no alternative method of approved or generally recognized therapy is available that provides an equal or greater likelihood of saving the patient's life.





IRB reporting

- ✓ Reporting of the Emergency Use to the IRB is required of the investigator within five working days after use in
- ✓ This reporting is done via submission of an "Emergency Use of an investigational test article" application form in WRG and contains:
 - Completed form 3926 or 1572/1571
 - Letter of approval from the FDA/sponsor
 - Treatment plan
 - Independent physician concurrence to the proposed treatment
 - Consent form (signed if there was time to seek consent from the patient)

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FAQs

Q: Can I submit my IRB application before I know if I need an IND?

A: Yes, it is possible to submit an IRB application for a clinical study before an IND submission; however, if the IRB determines an IND may be needed, the study may not proceed until confirmation of IND exemption or acknowledgment of IND receipt is obtained from FDA and the 30-day review period has passed.

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Q. I'm using both a drug and a device on my study and I do not qualify for exemption. Do I need both an IND and an IDE?

A: No. Whether you need an IND, or an IDE depends on which product is the primary mode of action in the study. If an investigational drug product is the primary mode of action, you may need an IND. If an investigational device product is the primary mode of action, you may need an IDE. Product accountability and assessment of safety events should still occur for secondary (and other) investigational products.

Q. I submitted an IDE application and 30 days have passed. Can I start my study?

A: No. Unlike an IND, IDEs require approval by the FDA before the study can commence.

Q. If I'm using an approved drug (or device); do I need an IND (or IDE)?

A: If the use of the drug or device product on the protocol is per the approved product labeling, the study **may be** exempt from IND (or IDE) requirements.

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FAQs (continued)

Q. How do I obtain a device study risk determination?

A: The Sponsor or Sponsor-Investigator of the study should make and document an initial risk determination. The risk determination should take into account the use of the device on the protocol. This risk determination should be presented to the IRB. The IRB also needs to make a risk determination. If the IRB deems the device to be of non-significant risk, the Sponsor or Sponsor-Investigator will hold an abbreviated IDE. If the IRB determines the device to be of significant risk, the investigator must submit an IDE application to the FDA.

Q. Do I need an investigator's brochure and what should it include?

A: An investigator's brochure (IB) is a compilation of the clinical and nonclinical data on the investigational product(s) relevant to the IND/IDE. If an IND/IDE includes more than one investigational product, clinical and nonclinical data on each investigational product should be included. A medically qualified person should generally contribute to the authoring of an IB.



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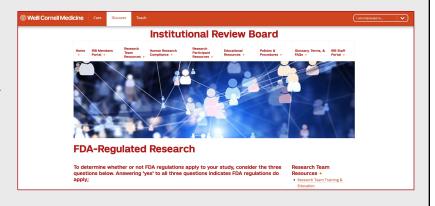
Federal Drug Administration (FDA): Introduction When Do FDA Regulations Apply? Investigational Drugs Investigational Medical Devices Expanded Access (Compassionate Use) Humanitarian Use Devices (HUD) Emergency Use of a Test Article (Drug, Biologic or Device) FAQs Weill Cornell Medicine

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For More Information on FDA-Regulated Research:

Please visit the WCM IRB website:

https://research.weill.cornell.edu/compliance/human-subjects-research/institutional-review-board/research-team-resources/fda-regulated





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FDA Resources

- Investigator-Initiated Investigational New Drug (IND) Applications: https://www.fda.gov/drugs/types-applications/investigational-new-drug-ind-application
- Individual Patient Expanded Access Applications: https://www.fda.gov/drugs/investigational-new-drug-ind-application/physicians-how-request-single-patient-expanded-access-compassionate-use
- Information for Sponsor-Investigators Submitting INDs: https://www.fda.gov/drugs/investigational-new-drug-ind-applications-inds
- Investigational Device Exemption (IDE): https://www.fda.gov/medical-devices/premarket-submissions-selecting-and-preparing-correct-submission/investigational-device-exemption-ide
- FDA Guidance Document: Humanitarian Device Exemption (HDE) Program Guidance for Industry and Food and Drug Administration Staff, issued September 6, 2019, **supersedes "Guidance for HDE holders, Institutional Review Boards (IRBs), Clinical Investigators, and Food and Drug Administration Staff, Humanitarian Device Exemptions (HDE) Regulation: Questions and Answers," issued July 8, 2010 – https://www.fda.gov/media/74307/download
- Expanded Access Contacts:
 - FDA's Office of Health & Constituent Affairs at 301-796-8460 or PatientNetwork@fda.hhs.gov
 - CDER's Division of Drug Information at 855-543-3784 or druginfo@fda.hhs.gov
 - CBER at 800-835-4709 or industry.biologics@fda.gov



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Other Resources



or

Email:

WCM IRB Office: <u>irb@med.cornell.edu</u>
HRPO team: <u>hrpo@med.cornell.edu</u>

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