

Humanitarian Device Exemption (HDE): Post-approval Activities

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Learning Objectives

- Understand the regulatory responsibilities for an approved Humanitarian Device Exemption (HDE)
- Describe the post-approval reporting requirements
- Understand the purpose of the annual incidence reassessment



Learning Objectives

- Understand the different types of HDE Supplements
- Understand the role of the Pediatric Advisory
 Committee and Institutional Review Boards (IRBs)
 with HDEs



HDE Post-approval Requirements

- Post-Approval Requirements specific to HDEs
 - HDE Supplements (21 CFR 814.108)
 - IRB Approval (21 CFR 814.124)
 - HDE Periodic Reports (21 CFR 814.126)
- General Requirements for all Medical Devices
 - Medical Device Reporting (21 CFR 803.50 and 803.52)
 - Recalls (21 CFR 806.10)



Responsibilities of HDE Holders and Institutional Review Boards (IRBs)





HDE Holder Responsibilities

Ensure that the Humanitarian Use Device (HUD)
 is used only in facilities with functioning IRBs



HDE Holder Responsibilities

Maintain records:

- names and addresses to which the HUD was shipped
- correspondence with Institutional Review Boards (IRBs)
- other information requested by FDA or the reviewing IRB



IRB Responsibilities

IRB Requirements

- must have policies for approval and continuing review of HUD
- may require informed consent prior to use

IRB Approval of an HUD at an institution

- blanket approval for particular HUD or
- case-by-case basis



Emergency Use of an HUD

- Physician may use HUD if unable to obtain IRB approval prior to use:
 - if patient is at risk of serious harm or death
 - must submit report to IRB chair within 5 days
 - notification of use of device
 - identification of patient
 - date of use
 - reason for use



Emergency Use of an HUD

- FDA recommends that physician
 - obtain informed consent from patient
 - check with the IRB for any applicable policies
 - maintain patient protection measures
 - submit follow-up report to HDE holder



Research of an HUD

Use of Device on-label

- for the indications approved under the HDE
- exempt from the Investigational Device Exemption regulation (21 CFR Part 812)
- comply with the requirements for IRB review/approval (21 CFR Part 56)
- comply protection of human subjects (21 CFR Part 50)

Use of Device off-label

- for an indications other than what was approved under the HDE
- comply with the IDE regulation (21 CFR Part 812)
- comply with the requirements for IRB approval (21 CFR Part 56)
- comply protection of human subjects (21 CFR Part 50)



HDE Reports

- Termination/Withdrawal of IRB Approval
- Periodic Reports
- Post-Approval Study Reports
 - if mandated to conduct a post-approval study



Termination/Withdrawal of IRB Approval

- If IRB withdraws approval of HUD:
 - the holder of the HDE must notify the FDA
 - within 5 working days

21 CFR 814.124 (b)



FDA Withdraw of an Approved HDE

- after HDE is approved
- another device with same indication may become legally marketed
 - premarket approval (PMA), premarket notification (510(k)), de novo
- HUD no longer meets requirements of 520(m)(2)(B)
- FDA may withdraw the HDE



HDE Periodic Reports

Device Accountability

- number of devices shipped or sold since HDE approval in the calendar year
- account for multiple devices used in same patient (and vice versa)

Clinical Experience

- known safety information
- medical device reports (MDR)
- data from post-approval studies
- information that may impact labeling

Supplemental Device Changes



HDE Periodic Reports

Updated information on HUD/HDE Status

- HDE justification
 - 21 CFR 814.104(b)(2)
- Probable benefit outweighs risk
 - 21 CFR 814.104(b)(3)
- Annual Incidence Reassessment
 - 21 CFR 814.126



Annual Incidence Reassessment (AIR)

- Updated patient population estimate (PPE) to current U.S. population to ensure that the HUD continues to qualify through the HUD/HDE pathway
- If the PPE exceeds 8000 as a result of the AIR, the HDE may become ineligible for HUD/HDE pathway
 - Options: withdraw HDE, convert to treatment IDE, or identify population through new HUD or orphan subset



HDE Periodic Reports: Device Cost

If cost of the device exceeds \$250, HDE holder must report:

- assessment completed by an independent Certified Professional Accountant (CPA) or a "responsible individual" of the company
- verifying that the amount charged does not exceed the costs of research, development, fabrication, and distribution



Additional Reports

- Medical Device Reporting (MDR) (21 CFR 803)
- Recall Notification (21 CFR 806.10)
- Post-approval Study Reports



HUD Manufacturer Must Report

- HUD-related deaths, serious injuries, or malfunctions
- Within 30 calendar days
- Based on information which they may receive or otherwise become aware of, from any source,
- Which reasonably suggests that the HUD:
 - May have caused or contributed to a death or serious injury; or
 - Malfunctioned and the malfunction of the device would be likely to cause or contribute to a death or serious injury if the malfunction were to recur.



HDE Supplements in the Code of Federal Regulations

Addressed under:

- 21 CFR 814.108
 - "Supplemental applications" under Subpart H (HUDs)
- 21 CFR 814.39
 - "PMA Supplements" under Subpart B (PMAs)



Types of HDE Supplements

- 75-Day Supplement
- 30-Day Notice
- Special HDE Supplement: Changes Being Effected



75-Day Supplements

- Device modifications/Design changes
- Labeling changes
- Manufacturing/Sterilization Site changes
- Post-Approval Study (PAS) Protocol changes
- Requests for annual distribution number (ADN) and profit eligibility
 - modification to ADN

Examples

- Change in materials
- Hardware/software modification
- Extended shelf life



30-Day Notice

 Modifications to manufacturing process

Examples

- Convert a process from manul to automated
- Obtain new manufacturing equipment
- Use an alternate supplier
- FDA may convert to 75-Day PMA Supplement
 - if submission does not qualify for 30-Day Notice



Special HDE Supplement: Changes Being Effected

- Changes that enhance the safety of device
- Labeling
 - newly acquired safety-related information not previously submitted to the FDA, and
 - add/strengthen a contraindication, warning, precaution, or information about an adverse reaction.

Manufacturing Process Change

 generally those that add a step to the quality control or manufacturing processes to enhance safety, but does <u>not</u> impact effectiveness



Special HDE Supplement: Changes Being Effected

- Can be implemented prior to FDA approval
- 30-Day review

Examples

- Improved instructions for use
- New quality assurance step

Guidance: 30-Day Notices, 135-Day Premarket Approval (PMA) Supplements and 75-Day Humanitarian Device Exemption (HDE) Supplements for Manufacturing Method or Process Changes

www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/GuidanceDocuments/ucm080192.htm



HDE Supplements

- Requests for new/expanded indications for use (IFU) outside of existing HUD designation
 - <u>cannot</u> be submitted as an HDE supplement
 - require a new HUD designation



Pediatric Advisory Committee (PAC)

- Conducts periodic annual review of approved HUDs labeled for pediatric patients that are allowed to make profit
- Ensures that HDE remains appropriate (Section 520(m)(2)) for the pediatric population for which is it approved
 - Section 520(m)(8) of Food, Drug and Cosmetic Act
- FDA's Office of Pediatric Therapeutics (OPT), Office of the Commissioner (OC) coordinates review



PAC Review

Information presented to PAC includes:

- MDRs received since approval and relevant safety information
- summary of any post-approval studies
- summary of relevant peer-reviewed literature published since approval

Review Questions

 does probable benefit/risk profile of the device for the pediatric population continue to support the HDE for which the exemption was granted

More Information about the PAC:

www.fda.gov/AdvisoryCommittees/CommitteesMeetingMaterials/PediatricAdvisoryCommittee/default.htm



Summary

- A sponsor has a number of regulatory responsibilities after an HDE is approved and for updating FDA on changes to the device
- After approval of an HDE, there are post-approval reporting requirements
- Annual incidence reassessment is an annual estimate of the target population with the disease or condition



Summary

- Modifications that affect the safety and probable benefit of the device require the FDA's review and approval of an HDE Supplement
- Organizations such as the Pediatric Advisory Committee and Institutional Review Boards have specific roles for HDEapproved devices



Resources

 Humanitarian Device Exemption (HDE): Questions and Answers - Draft Guidance for HDE Holders, Institutional Review Boards, Clinical Investigators, and Food and Drug Administration Staff

www.fda.gov/medicaldevices/deviceregulationandguidance/guidancedocuments/ucm389154.htm

 Guidance for HDE Holders, Institutional Review Boards (IRBs), Clinical Investigators, and FDA Staff - Humanitarian Device Exemption (HDE) Regulation: Questions and Answers

www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/GuidanceDocuments/ucm110194.htm



Resources

Device Advice – Humanitarian Device Exemption

www.fda.gov/medicaldevices/deviceregulationandguidance/howtomarketyourdevice/premarketsubmissions/humanitariandeviceexemption/default.htm

HDE Approvals

<u>www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/DeviceApprovalsandClearances/HDEApprovals/default.htm</u>



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2. Device Advice – Text-Based Education

comprehensive regulatory information on premarket and postmarket topics:
 www.fda.gov/MedicalDevices/DeviceRegulationandGuidance

3. Division of Industry and Consumer Education (DICE)

- If you have a question Email: <u>DICE@fda.hhs.gov</u>
- Phone: 1(800) 638-2041 or (301) 796-7100 (Live Agents 9am 12:30 pm; 1-4:30 pm EST)
- Web Homepage: <u>www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/ContactUs--</u> <u>DivisionofIndustryandConsumerEducation/default.htm</u>