

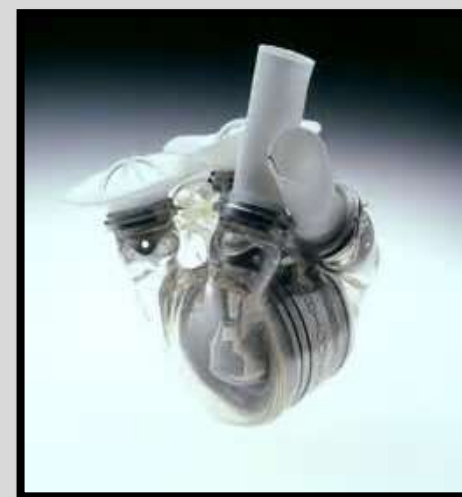
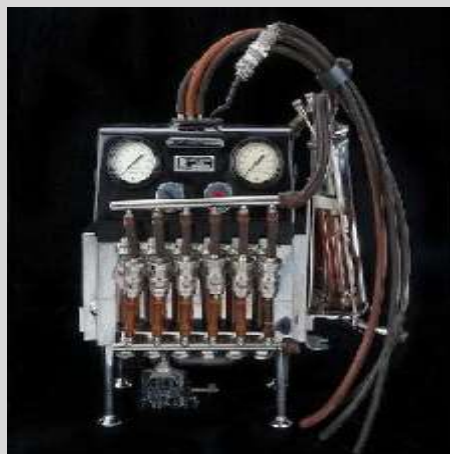
Demystifying the Regulatory Framework for Medical Devices

**FDA Small Business
Regulatory Education for Industry (REdI)
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Innovation



Learning Objectives

- Describe recent legislative changes
- Introduce the steps for developing a Premarket Submission
- Understand the qualifications for a Small Business Certification

Recent Legislative Changes

- 21st Century Cures Act (**Cures**)
- Food and Drug Administration Reauthorization Act (**FDARA**)
- Medical Device User Fee Amendments (**MDUFA IV**)



Medical Device Amendments (1976)



- **Expanded** the Food, Drug and Cosmetic Act by a third
 - Safety and effectiveness of medical devices



Medical Device Amendments (1976)



- **Broadened definition** of a device
- **Classified** medical devices according to their comparative risk into **three classes** (I, II, III)
- Specified **premarket procedures**
- Required evidence of **safety and effectiveness** for premarket approval
- Established mechanisms for **investigational device exemption (IDE)**

21st Century Cures Act (Cures)



- **Purpose:** to **accelerate** medical product development and **bring new innovations and advances** to patients who need them **faster and more efficiently**



Signed into law on December 13, 2016

www.congress.gov/114/plaws/publ255/PLAW-114publ255.pdf

Cures



- Incorporate **patient perspectives** into the development and review process
- **Breakthrough** Devices
- **Least Burdensome**
 - Minimum **amount** of information necessary to adequately address a regulatory question or issue through the most **efficient** manner at the **right time**
- Expand the **HUD/HDE** program
 - Population limit increased from 4,000 to 8,000

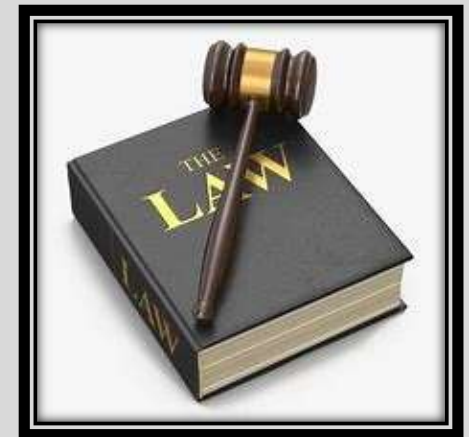
Food and Drug Administration Reauthorization Act (FDARA)



- Reauthorize various FDA **user fee** programs
- Utilize **patient voice**
- Develop and approve products for **rare diseases and pediatrics**
- Over the counter **heading aids**

Signed into law on August 18, 2017

www.congress.gov/bill/115th-congress/house-bill/2430



Medical Device User Fee Amendments (MDUFA IV)

- Reauthorize Medical Device User Fees
 - Do things **Better**
 - Review times
 - Do things **Differently**
 - Least Burdensome
 - Leverage data



Signed into law on August 18, 2017 as part of FDARA

www.fda.gov/ForIndustry/UserFees/MedicalDeviceUserFee/ucm454039.htm

Submission Process: 4 Steps

1. Determine if the product meets the definition of a **device**
2. Identify Regulatory **Classification** and **Pathway**
3. Develop **Valid Scientific Evidence**
 - Nonclinical
 - Clinical (if applicable)
4. Submit Premarket **Application**



Step 1: Determine if Product meets definition of a Device

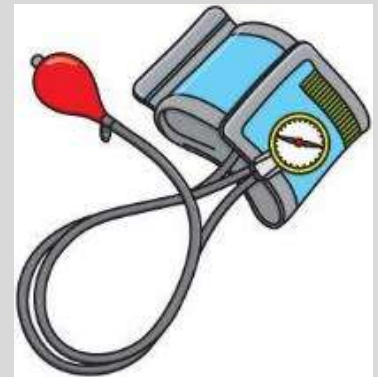


- A instrument, apparatus, implement, machine, contrivance, implant, in vitro reagent, or other similar or related article, including a component part, or accessory which is:
 - *Intended for **diagnosis** of disease or other conditions, or in the **cure, mitigation, treatment, or prevention** of disease*

Food, Drug, & Cosmetic Act, Section 201(h)

Medical Device

Does **NOT achieve** its primary intended purposes **through chemical action** or dependent on being **metabolized**



The term "device" does not include software functions excluded pursuant to section 520(o).

Food, Drug, & Cosmetic Act, Section 201(h)

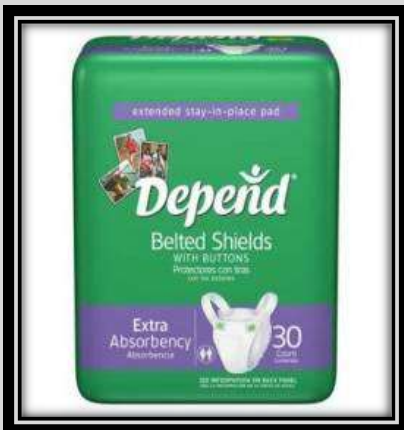
Poll Question:

Which of these is a medical device?

A



B



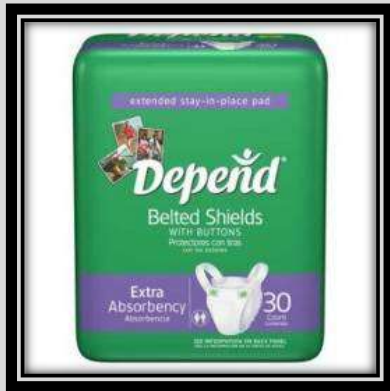
A. Infant diaper

B. Adult protective garment

C. Neither

D. Both

Protective Garment for Incontinence



Protect an incontinent patient's garment from the patient's excreta

21 CFR 876.5920



A baby is not sick and does not have a medical condition



Step 2: Identify Classification & Regulatory Pathway

- Identify regulatory **classification**
- Classification will generally indicate **regulatory pathway** (marketing submission type) for that device type

Regulatory Classification

- Based on **Device Description and Intended Use**
- Classified and regulated according to their **degree of risk** to the public
- Regulatory Control increases from Class I to III
- Product Codes (ProCodes)
 - Three-letter code

Regulatory Controls

- Provide **consistent requirements**
- Appropriate **level** of regulatory oversight
- Based on the level of **risk**
- **General, Special** and **PMA** Controls

General Controls






- Apply to all medical devices, unless exempted by regulation
- Consist of:
 - Prohibition against **adulterated or misbranded** devices
 - **Registration** of manufacturing facilities
 - **Listing** of device types
 - **Good Manufacturing Practices (GMPs)**
 - **Labeling**
 - Premarket notification **510(k)**

Special Controls

- Apply when General controls are insufficient
- Examples:
 - Special **labeling** requirements
 - Mandatory **performance standards**
 - **Postmarket** surveillance
 - Patient **registries**
 - Premarket **data** requirements

Classes of Medical Devices

Class	Risk	Potential Harm	Controls	Submission Type(s)	Percent Devices in Class
I	Lowest 	Present minimal potential for harm	General	510(k) 510(k) Exempt * 93% are exempt from 510(k) submission	35%
II	Moderate 	Higher risk than Class I devices	General and Special (if available)	510(k) 510(k) Exempt	53%
III	Highest 	Sustain or support life, are implanted, or present potential unreasonable risk of illness or injury	General and PMA	PMA	9%

Step 3: Develop Valid Scientific Evidence

- **Non-clinical**

- Animal studies
- Biocompatibility
- In vitro Bench Testing



- **Clinical**

- Well/partially-controlled clinical studies
- Real-world evidence
- Patient preference
- Post-market data



Step 4:

Submit Premarket Application

- **De Novo**
 - De Novo Classification Request
- **510(k)**
 - Premarket Notification
- **PMA (Premarket Approval)**
 - Traditional or Modular PMA
 - Product Development Protocol (PDP)
- **Humanitarian Device Exemption (HDE)**



Each submission type has own sets of processes, regulations (except De Novo), review times, evidence burden



Humanitarian Device Exemption

- Marketing application for an Humanitarian Use Device
- Rare diseases or conditions
 - **Affects or is manifested** in not more than **8,000** individuals in the United States per year
- Similar to PMA
 - **Exempt** from the **effectiveness requirements**
 - Based on **probable benefit**

Food, Drug & Cosmetic Act Section 520(m)



Poll Question:

Did your company make less than \$100M in gross sales/receipts in the past year?

A. Yes

B. No

C. I don't know, but after hearing about the SBD program I will find out!

What is a Small Business?

- A business that reported:
 - **\$100 million or less** of **gross receipts or sales** in its most recent Federal Income Tax Return for a taxable year
 - Including **all affiliates**



Benefit



- **Reduced fee**

- 510(k)
- Original PMA/BLA
- PMA/BLA Supplements
 - PMA Supplements: Panel-track, 180-day, & Real-time
 - 30-day Notices
 - Periodic Reports (the annual fee)
- Premarket Report (PMR)
- 513(g)
- De Novo



Benefit

- **Fee Waiver** for first PMA /BLA or Premarket Report (PMR)
 - Less than **\$30 million gross sales/receipts**



Resources

- **Guidance**
 - [FY 2018 Medical Device User Fee Small Business Qualification and Certification](#)
- **Device Advice:**
 - [Reduced Medical Device User Fees: Small Business Determination \(SBD\) Program](#)

FY 18 User Fees (in U.S. Dollars)

Application Type	Standard Fee	Small Business Fee
510(k)	\$10,566	\$2,642
513(g)	\$4,195	\$2,098
De Novo Classification	\$93,229	\$23,307
PMA, PDP, PMR, BLA	\$310,764	\$77,691♦
Panel-track Supplement	\$233,073	\$58,268
180-day Supplement	\$46,615	\$11,654
Real-time Supplement	\$21,753	\$5,438
BLA Efficacy Supplement	\$310,764	\$77,691
PMA Annual Report	\$10,877	\$2,719
30-day Notice	\$4,972	\$2,486

♦Fee Waiver - Less than 30 million gross sales/receipts

Obtain Your SBD Certification **BEFORE** You Submit a Premarket Application



Questions



Your Call to Action



