# DR. ROBOT

JANE BAMBAUER UNIVERSITY OF ARIZONA

## FDA REGULATION OF DEVICES

Premarket clinical trials or registration, and ongoing monitoring and assessment based on:

- Benefits
- Risks
- Uncertainty / Detectability of failure
- Firm history
- Patient tolerance and perspective
- Patient impact

#### **MOBILE MEDICAL APPS**

Software application that is intended

- To be used as an accessory to a regulated medical device
- To transform a mobile platform into a regulated medical device

Intended to diagnose, cure, mitigate, treat, or prevent disease

#### **MOBILE MEDICAL APPS**

Software application that is **intended** 

- To be used as an accessory to a regulated medical device
- To transform a mobile platform into a regulated medical device

Intended to diagnose, cure, mitigate, treat, or prevent disease









\*Notice

Retake

Save & Continue

# 23andMe

#### IBM Watson for Oncology

Get oncologists the assistance they need to make more informed treatment decisions. Watson for Oncology analyzes a patient's medical information against a vast array of data and expertise to provide evidence-based treatment options.

#### **COMPARISONS AT THE MARGINS**



### **REGULATING AI LIKE PROFESSIONALS**

- Competence < Pre-Market Licensing Post-Market Malpractice Liability
- Conflicts of Interest
- Research and Informed Consent
- Confidentiality v. Duties to Warn

### **REGULATING AI LIKE PROFESSIONALS**

- Competence < Pre-Market Licensing Post-Market Malpractice Liability
- •Conflicts of Interest
- Research and Informed Consent
- Confidentiality v. Duties to Warn

### **POLITICAL ECONOMY PROBLEMS**

and expertise to provide evidence-based treatment options.





#### **Top Spenders**

2017 \$

Lobbying Client	Total
US Chamber of Commerce	\$82,190,000
National Assn of Realtors	\$54,530,861
Business Roundtable	\$27,380,000
Pharmaceutical Research & Manufacturers of America	\$25,847,500
Blue Cross/Blue Shield	\$24,330,306
American Hospital Assn	\$22,094,214
IBM Watson for Oncology	35,000
	50,000
Get oncologists the assistance they need to make more informed treatment decision Watson for Oncology analyzes a patient's medical information against a vast array of	

00

69

09

34

00

10,000