

Evaluation & Utilization of Novel Transcatheter Valve Technologies in the U.S. and Abroad

David R. Holmes, Jr., M.D. Mayo Clinic, Rochester

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Presenter Disclosure Information

David R. Holmes, Jr., M.D.

"Evaluation & Utilization of Novel Transcatheter Valve Technologies in the U.S. and Abroad"

The following relationships exist related to this presentation:

None



Background

2004

 87% of clinical studies for medical technology products listed in clinicaltrials.gov were conducted in U.S.

2009

 45% of clinical studies for medical technology products listed in clinicaltrials.gov were conducted in U.S.



TAVR

- TAVR
 - 2002 1st human case
 - 2007 CE MARK approval
 - 2011 U.S. approval
- Mitra-Clip
 - 2003 1st human case
 - 2007 CE MARK approval
 - 2013 U.S. approval



Barriers to Innovating in the U.S.

- Insufficient predictability of what information is needed to allow for the initiation of clinical studies
 - Data requirements can be difficult to identify
 - Increasingly complex devices
 - No established guidance or standards for innovative devices
 - No generally accepted method for justifying data requirements
- Ineffective communication between CDRH and industry
- Poor-quality submissions that do not include or coherently describe relevant information





Investigational Device Exemptions (IDEs) for Early Feasibility Medical Device Clinical Studies

Andrew Farb, MD and Dorothy Abel, BSBME

Andrew Farb, MD and Dorothy Abel, BSBME
Office of Device Evaluation
Center for Devices and Radiological Health (CDRH)
Food and Drug Administration

Goals

 Improved access to beneficial devices is a shared interest of all participants in the clinical studies ecosystem



Stakeholders

- Patients
- Investigators
- Sponsors
- FDA
- IRB
- Sites
- Payers
- Funders



IRB Protocols

- Agreement to treat EFS differently and efficiently
- Rapid turnaround ? 30 days
- Development of a common template for consent
- ?consideration of central IRB



Site Consideration

- Culture of clinical study quality and commitment
- Well developed infrastructure
- Track record research subject monitoring, quality, excellence
- Commitment from IRB to develop protocols in a timely efficient manner
 - ? central IRB
- Commitment to constrain costs
- Access to study participants



