

FDA Update – Center for Devices and Radiological Health "Introduction to the Medical Device Development Tool (MDDT) Program"

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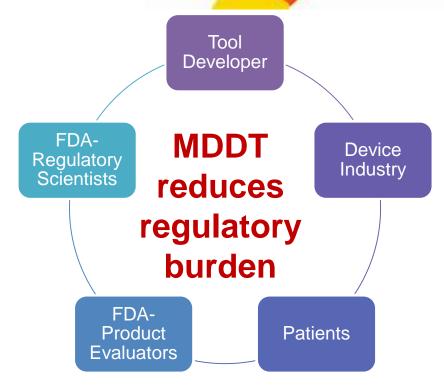
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Medical Device Development Tool (MDDT) Program: Benefit of Qualifying Tools



Research Development

Promotes Efficient Medical Device Development



- Fosters innovation
- Encourages collaboration
- Reduces resource expenditure
- Qualified MDDT applied in multiple device submissions
- Efficiency in CDRH regulatory review resources
- Minimizes uncertainty in regulatory review process

What Is An MDDT?



- Medical Device Development Tool (MDDT) is a method, material, or measurement used to assess the effectiveness, safety, or performance of a medical device
 - A MDDT is scientifically validated and qualified for a specific *Context Of Use* (COU)
 - COU describes the way the MDDT should be used, purpose in device evaluation and/or regulatory submission, and specific output/measure from the tool
 - Qualification is a FDA conclusion that within the COU a MDDT can be relied upon to have a specific interpretation and application in medical device development and regulatory review
 - CDRH reviewers should accept the MDDT outcomes within the qualified context of use (COU)) without the need to reconfirm the suitability and utility of the MDDT when used in a regulatory submission

MDDT Types



COA

- Patient selection for clinical studies
- Clinical study outcomes
 - Objective and subjective

BT

- Objective measure of biologic process or response to an intervention
- Patient selection
- Predict or identify outcomes

NAM

- Models to measure/predict a parameter of interest
- Reduce / Replace animal testing
- Reduce test duration or sample size



Clinical
Outcome
Assessments



Biomarker Tests



Nonclinical Assessment Models

MDDT Exciting Growth Opportunities



- The MDDT program is seeking new MDDT submissions in the following key areas:
 - Surrogate outcomes for clinical trials
 - Biomarker Tests for physiological safety (e.g., electrical hazard, light/EM radiation hazard, biocompatibility, toxicology)
 - Bench Testing Evaluation Methodologies
 - Modeling and Computational Tools
 - Phantom Tools
 - Software Simulation Tools
 - Patient Preference Tools

Resources for More Information



Inquiries for additional information email: MDDT@fda.hhs.gov

- FR notice announcing the MDDT Program (8/10/2017):
 https://www.federalregister.gov/documents/2017/08/10/2017-
 16827/qualification-of-medical-device-development-tools-guidance-for-industry-tool-developers-and-food-and
- MDDT Guidance Document: https://www.fda.gov/ucm/groups/fdagov-public/@fdagov-meddev-gen/documents/document/ucm374432.pdf
- MDDT Public Webpage: http://www.fda.gov/MedicalDevices/ScienceandResearch/MedicalDeviceDevelo-pmentToolsMDDT/default.htm
- Q-Submission Guidance Document: https://www.fda.gov/ucm/groups/fdagov-public/@fdagov-meddev-gen/documents/document/ucm311176.pdf

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Questions?





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