# Standards: The Ultimate Regulatory Weapon

Terry O. Woods, Ph.D.

Inter-American Coalition for Regulatory Convergence,
Medical Technology Sector
External Stakeholder Session
March 14, 2024







## **Topics**



- Value of consensus standards
- FDA's Division of Standards and Conformity Assessment (DSCA)
- Standards Recognition
   Program
- Question and Answer Session



### **VALUE OF CONSENSUS STANDARDS**



### **Benefits of Consensus Standards**



- Improved quality thanks to the consensus process, tapping into a broad array of experts and expertise
- More efficient than lengthy legal or rulemaking approaches
- Encourage innovation and competition among product developers
- Reduce burdens on manufacturers by harmonizing expectations across jurisdictions
- Promote regulatory science at national and international levels
- Streamline conformity assessment

## CDRH strongly encourages the use of standards

### Why?

- FDA-recognized standards have FDA's confidence that conformity will support device claims
- Using recognized standards with a declaration of conformity generally reduces documentation needed in the submission
- Fewer Additional Information questions
- Conformity assessment resource used by multiple jurisdictions



## DIVISION OF STANDARDS AND CONFORMITY ASSESSMENT (DSCA)

### **CDRH's Division of Standards and Conformity Assessment (DSCA)**



7



### **DSCA By the Numbers**

1400+

Recognized standards

400+

CDRH staff contribute to standards development (20%)

3 dozen

Standards development organizations we work with

303

Years of standards experience among DSCA staff

## **DSCA Goals**

Optimize	Increase	Enhance	Support	Practice	Increase
Optimize standards for regulatory use	Increase the appropriate use of FDA-recognized standards across the total product life cycle of devices	Enhance conformity assessment in device review	Support international harmonization through standards	Practice leadership to demonstrate the promise of standards in policymaking, regulatory science and device review priorities	Improve cross- cutting DSCA programs



## DSCA'S STANDARDS RECOGNITION PROGRAM



'Recognition': FDA's formal identification of a standard after determining that it is appropriate for manufacturers to declare conformance (with a declaration of conformity) to meet relevant requirements

- We may recognize all, part or none of the standard
- We publish the decision rationale
- We regularly update databases
  - Recognized Consensus Standards
     Database
  - Non-recognized Consensus Standards
     Database
- We may withdraw recognized standards, as appropriate





ADMINISTRATION		
Home Food Drugs M	Medical Devices Radiation-Emitting Products	Vaccines, Blood & Biologics   Animal & V
Recognized Co	onsensus Standards: Me	edical Devices
r DA Home Wedical L	Databases	
Conformity for medical device the decision even before form Federal Register to the lists of	ost up-to-date list of voluntary consensus standard is. After FDA has decided to recognize a standard, al recognition of the standard occurs by publication f recognized consensus standards can be accesse mity-assessment-program/federal-register-docume	we will update our online database to reflect n in the Federal Register. Publications in the d at https://www.fda.gov/medical-
The following guidance docum	nent is applicable to all recognized standards:	
<ul> <li>Appropriate Use of Volunta</li> </ul>	nent is applicable to all recognized standards: <u>ory Consensus Standards in Premarket Submission</u> ation Staff, issued September 2018.	s for Medical Devices - Guidance for Industry
Appropriate Use of Volunta and Food and Drug Administration	ry Consensus Standards in Premarket Submission	is for Medical Devices - Guidance for Industry
<ul> <li>Appropriate Use of Volunta</li> </ul>	ry Consensus Standards in Premarket Submission	s for Medical Devices - Guidance for Industry
Appropriate Use of Volunta and Food and Drug Administr Learn More	ry Consensus Standards in Premarket Submission	s for Medical Devices - Guidance for Industry  Standards Search Assistance
Appropriate Use of Volunta and Food and Drug Administrate  Learn More  Search Database	ry Consensus Standards in Premarket Submission	
Appropriate Use of Volunta and Food and Drug Administric Learn More  Search Database  Standards Organization	ary Consensus Standards in Premarket Submission ation Staff, issued September 2018.	
Appropriate Use of Volunta and Food and Drug Administrate Learn More  Search Database  Standards Organization Standard Designation Number	ary Consensus Standards in Premarket Submission ation Staff, issued September 2018.	Standards Search Assistance
Appropriate Use of Volunta and Food and Drug Administration	ary Consensus Standards in Premarket Submission ation Staff, issued September 2018.	Standards Search Assistance  V  Recognition Number
Appropriate Use of Volunta and Food and Drug Administrate Learn More  Search Database Standards Organization Standard Designation Number Seywords	ary Consensus Standards in Premarket Submission ation Staff, issued September 2018.  All Standards Organizations	Standards Search Assistance  V  Recognition Number

### Searchable by:

- Standards Development Organization (SDO)
- Designation number
- FDA recognition number
- Keywords
- Inclusion in ASCA
- And more

https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfstandards/search.cfm

# Supplementary Information Sheets (SIS) include:

- Recognition number
- Date of entry into Recognized Consensus Standards Database
- SDO and designation number
- US identical adoption (if applicable)
- Scope of standard
- Extent of recognition
- Included in ASCA?
- Rationale for recognition or partial recognition
- Transition period (if any)
- Examples of applicable device product codes
- Relevant guidance documents or other publications
- Relevant FDA Specialty Task Group (STG)
- Name of contact person

### Part B: Supplementary Information Sheet (SIS)

FR Recognition List Number 053 Date of Entry 12/23/2019

FR Recognition Number 5-125

Standard

ISO 14971 Third Edition 2019-12 Medical devices - Application of risk management to medical devices

#### **Identical Adoption**

ANSI AAMI ISO 14971: 2019

Medical devices - Applications of risk management to medical devices

#### Scope/Abstract

This International Standard specifies a process for a manufacturer to identify the hazards associated with medical devices, including in vitro diagnostic (IVD) medical devices, to estimate and evaluate the associated risks, to control these risks, and to monitor the effectiveness of the controls.

The requirements of this International Standard are applicable to all stages of the life-cycle of a medical device.

This International Standard does not apply to clinical decision making.

This International Standard does not specify acceptable risk levels.

This International Standard does not require that the manufacturer have a quality management system in place. However, risk management can be an integral part of a quality management system.

#### **Extent of Recognition**

Complete standard

#### Rationale for Recognition

This standard is relevant to medical devices and is recognized on its scientific and technical merit and/or because it supports existing regulatory policies.

#### Relevant FDA Guidance and/or Supportive Publications\*

ISO/TR 24971 Second edition 2020-06 Medical devices - Guidance on the application of ISO 14971

AAMI/ISO TIR24971: 2020 Medical devices - Guidance on the application of ISO 14971

Appropriate Use of Voluntary Consensus Standards in Premarket Submissions for Medical Devices - Guidance for Industry and Food and Drug Administration Staff, issued September 2018.

### **FDA Technical Contact**

#### Melissa Torres

FDA/OC/CDRH/OCD/ 301-796-5576 melissa.torres@fda.hhs.gov

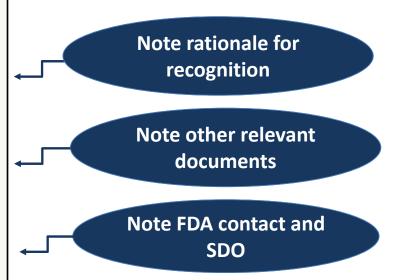
### Standards Development Organization

ISO International Organization for Standardization

https://www.iso.org/



## SIS Example ISO 14971:2019 (complete recognition)



## **Conformity Assessment Defined**

"...demonstration that specified requirements relating to a product, system, process, person, or body are fulfilled." - ISO/IEC 17000

\*\* Testing, inspection and certification are all elements of conformity assessment \*\*



## **Conformity Assessment**

### **Device sponsors:**

- Use standards to address regulatory requirements
- Support their submission with testing
- Work with the test lab to develop test plan
- Report results to FDA (for devices not exempt from such clearance/approval)

### FDA:

- Recommends that sponsors conform to consensus standards via recognition, conformity assessment programs and FDA Guidance and applicable regulations
- Reviews test methods and results and determines that reasonable assurance of safety and effectiveness or substantial equivalence is met
- For exempt devices, methods and results may be reviewed during a QMS inspection or if there are post market issues



## **Using FDA-Recognized Standards**

Though voluntary,
FDA strongly
encourages the use
of recognized
standards in
premarket
submissions

Declarations of conformity (DOCs) are used with recognized standards, reducing documentation submitted to FDA

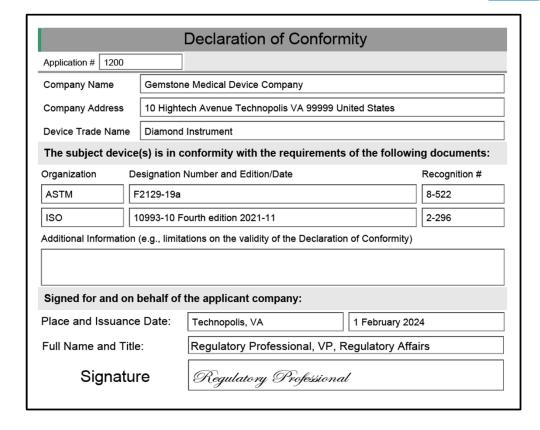
A DOC is a communication tool, conveying key information to review staff in a coherent and concise fashion

Outcome:
reduced
burden for
device
sponsors and
FDA



## Declaration of Conformity (DOC)

- Communication that the device conforms with the cited FDA-recognized standard
- If the manufacturer declares conformity with a recognized standard, a DOC accompanies the submission
- DOCs generally reduce the documentation needed to be included – and reviewed - in a submission
- Complete test reports generally not needed and should not be submitted with a DOC



Above image is a DOC from eSTAR

### 'General Use' of Standards

### For citing:

- Non-recognized standards
- A recognized standard where modifications have been made in testing
- A recognized standard without submitting a DOC

Complete test reports are needed - and will be reviewed - for 'General Use'





- Information that supports the declaration of conformity
- Needed when:
  - Standard does not feature test methods or acceptance criteria
  - Standard allows choices, e.g., for methods or criteria
- The ultimate goal: a standard that clearly outlines expectations for manufacturers and regulators



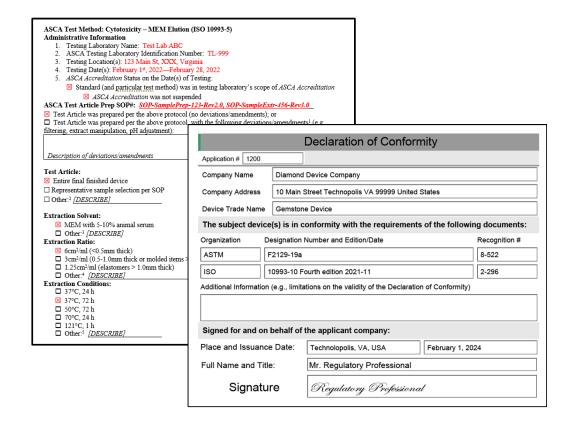
## ACCREDITATION SCHEME FOR CONFORMITY ASSESSMENT (ASCA)

## ASCA Goal: Streamline Conformity Assessment in Pre-market Review



### **Benefits of ASCA:**

- Improves the quality of testing and reporting
- Removes the guesswork about supporting documentation needs
- Provides templates for the only documentation needed:
  - ASCA Declaration of Conformity
  - ASCA Summary Test Report



Above image is a DOC from eSTAR

### **ASCA Progress**

- (56) submissions spanning 7 of 8 OHTs
- Easier and faster than traditional review
- Only 6% required complete test reports
- ASCA transition from pilot to permanent is complete
- Program improvements under consideration with guidance revisions; watch the Federal Register for commenting opportunity
- Expansion criteria to be explored at April 17, 2024 workshop
  - Watch this space for meeting details: https://www.fda.gov/news-events/fda-meetingsconferences-and-workshops





### **Official Observer**

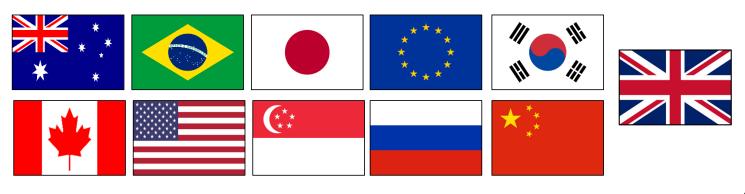








### **Regional Harmonization Initiatives**







International Medical Device Regulators Forum



### **Recommendations:**

- Improve standards for regulatory use
- Enhance participation in standards development

IMDRF/Standards WG/N51 FINAL:2018



### **Final Document**

Title: Optimizing Standards for Regulatory Use

Authoring Group: IMDRF Standards Working Group

Date: 5 November 2018

多件

Yuan Lin, IMDRF Chair

This document was produced by the International Medical Device Regulators Forum. There are no restrictions on the reproduction or use of this document; however, incorporation of this document, in part or in whole, into another document, or its translation into languages other than English, does not convey or represent an endorsement of any kind by the International Medical Device Regulators Forum.

Copyright © 2018 by the International Medical Device Regulators Forum



### **Improve Standards**

### Standards should feature:

- A strong rationale explaining the basis for the requirements in the standard that may assist in interpreting the meaning and/or purpose of the standard
- Clear scope
- Well-accepted and verified test methods (including for new or unfamiliar methods)
- Clear and quantitative acceptance criteria
- Means to assess clinical performance (if applicable) as part of the normative requirements
- Identification of risk and direction on how to address it
- An annex or table that cross references the standard's clauses to the IMDRF Essential Principles

## **Enhance Participation**

- Regulatory Authorities and device firms should build a strong standards programs that encourage contributions to standards development
- Engagement with SDOs is essential
  - —On SDO Technical Committees
  - —Through national bodies and mirror committees
- Contribute your perspective and expertise
- Get involved early at the New Work Item Proposal stage
- Consider leadership roles
- Help build conformity assessment and regulatory priorities into the standards (e.g., test methods, acceptance criteria)





## **QUESTION AND ANSWER SESSION**



### **Future**

- Conformity assessment
  - Greater consideration given to testing needs
  - ASCA and ASCA-type expansion (more standardized reporting)
- Standards-driven international harmonization
  - Capacity-building
  - Fewer 'national' standards
- Optimizing standards initiatives
- Greater reliance upon consensus standards to reduce burden and enhance quality



## **Industry Updates and Education**

### 1. CDRH New

Sign up at: https://public.govdelivery.com/accounts/USFDA/subscribers/qualify

### 2. CDRH Learn: Multi-Media Industry Education

- Videos, audio recordings, power point presentations, software-based "how to" modules
- www.fda.gov/CDRHLearn

### 3. Device Advice: Text-Based Education

- Comprehensive regulatory information on premarket and postmarket topics
- www.fda.gov/DeviceAdvice

### 4. Division of Industry and Consumer Education (DICE)

- Email: <u>DICE@fda.hhs.gov</u>
- Phone: 1(800) 638-2041 or (301) 796-7100 (Hours: 9 am-12:30 pm; 1 pm-4:30pm EST)
- Web: www.fda.gov/DICE

### 5. eSTAR Program

- <a href="https://www.fda.gov/medical-devices/how-study-and-market-your-device/voluntary-estar-program?utm">https://www.fda.gov/medical-devices/how-study-and-market-your-device/voluntary-estar-program?utm</a> medium=email&utm source=govdelivery
- eSTAR Assistance: <u>510K Program@fda.hhs.gov</u>
- Tech Questions/Feedback: <u>eSubpilot@fda.hhs.gov</u>



### **FDA Standards Resources**

- **Division of Standards and Conformity Assessment**www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/standards-and-conformity-assessment-program#intro
- FDA Recognized Consensus Standards Database
   www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfStandards/search.cfm
- Non-recognized Standards Database
   https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfStandards/nr results.cfm
- Email us at: <u>CDRHStandardsStaff@fda.hhs.gov</u>



### **Relevant Guidances**

- Recognition and Withdrawal of Voluntary Consensus Standards guidance
   <u>www.fda.gov/regulatory-information/search-fda-guidance-documents/recognition-and-withdrawal-</u>
   voluntary-consensus-standards
- Appropriate Use of Voluntary Consensus Standards in Premarket Submissions for Medical Devices guidance www.fda.gov/regulatory-information/search-fda-guidance-documents/appropriate-use-voluntary-consensus-standards-premarket-submissions-medical-devices
- Recommended Content and Format of Non-Clinical Bench Performance Testing Information in Premarket Submissions: Guidance for Industry and Food and Drug Administration Staff
  - https://www.fda.gov/media/113230/download

### **ASCA** Resources



### ASCA web page

<u>www.fda.gov/medical-devices/standards-and-conformity-assessment-program/accreditation-scheme-conformity-assessment-asca</u>

### ASCA program guidance

https://www.fda.gov/regulatory-information/search-fda-guidance-documents/accreditation-scheme-conformity-assessment-asca-pilot-program

### ASCA Standards-specific guidances

- Basic Safety and Essential Performance standards-specific guidance:
   https://www.fda.gov/regulatory-information/search-fda-guidance-documents/basic-safety-and-essential-performance-medical-electrical-equipment-medical-electrical-systems-and
- Biocompatibility standards-specific guidance:
   <a href="https://www.fda.gov/regulatory-information/search-fda-guidance-documents/biocompatibility-testing-medical-devices-standards-specific-information-accreditation-scheme">https://www.fda.gov/regulatory-information/search-fda-guidance-documents/biocompatibility-testing-medical-devices-standards-specific-information-accreditation-scheme</a>
- Ask ASCA! ASCA@FDA.HHS.GOV

### **THANK YOU**

