

# Guidance Structure and Key Proposal - overview -

### **Optimizing Standards for Regulatory Use** IMDRF/Standards WG/N51 FINAL: 2018

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#### GHTF/SG1/N44: 2008 "Role of Standards in Assessment of Medical Devices"

IMDRF/Standards/N51: 2014 "Final Report: List of International Standards Recognized by IMDRF Members as of March 2014"

Report: Improving the Quality of International Medical Device Standards for Regulatory Use

IMDRF/Standards/N51: 2018 "Optimizing Standards for Regulatory Use"

Implementation

**NWIP** 

SOP for liaison structure with ISO/IEC



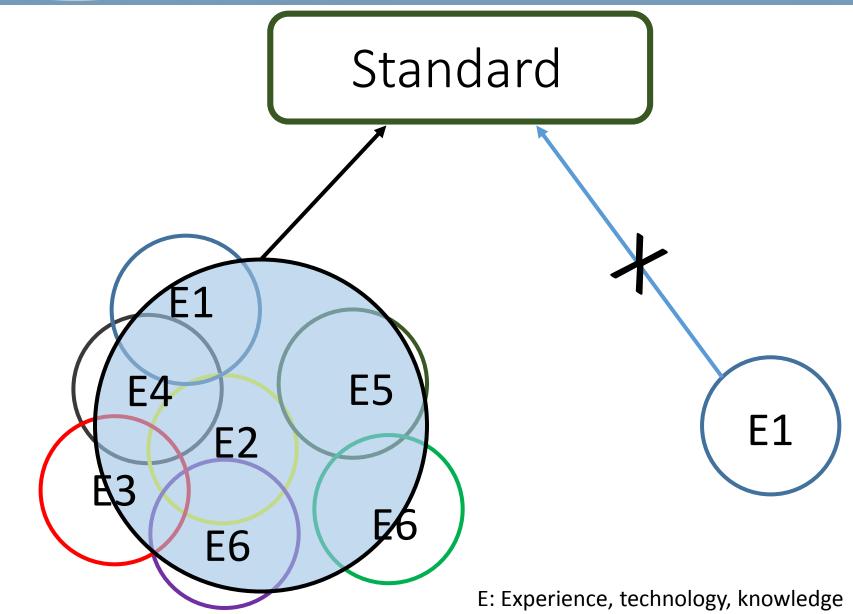
Survey on standard recognition policy

Future

Best practices and policies for the use and recognition of standards

Empowers IMDRF goal of harmonized regulatory approaches





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# **IMDRF Essential Principles**

 The IMDRF EPs provide broad, high-level criteria for design, production, and postproduction (including post-market surveillance) throughout the life-cycle of all medical devices. They provide a framework for regulatory expectations and represent a consensus on fundamental design and manufacturing requirements that, when met, indicate that a medical device is safe and performs as intended and offers significant benefit.

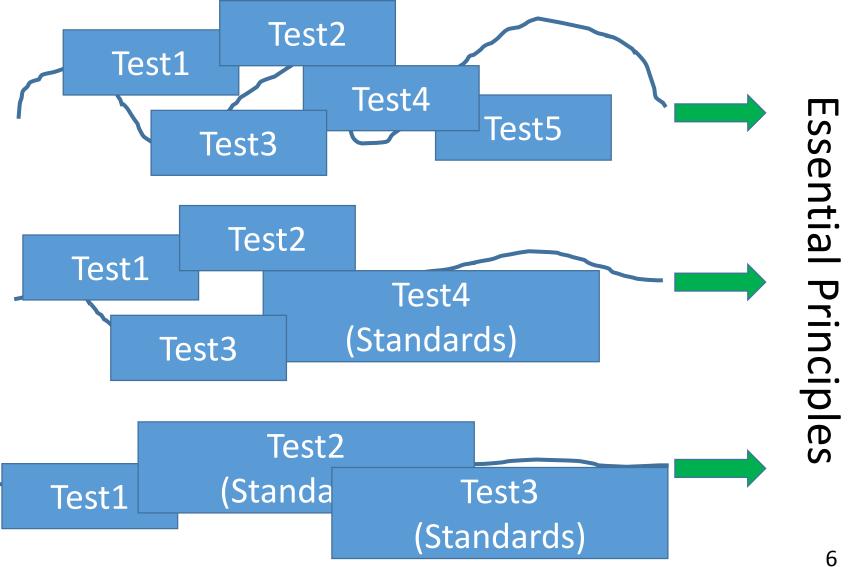


# "IMDRF Essential Principles"

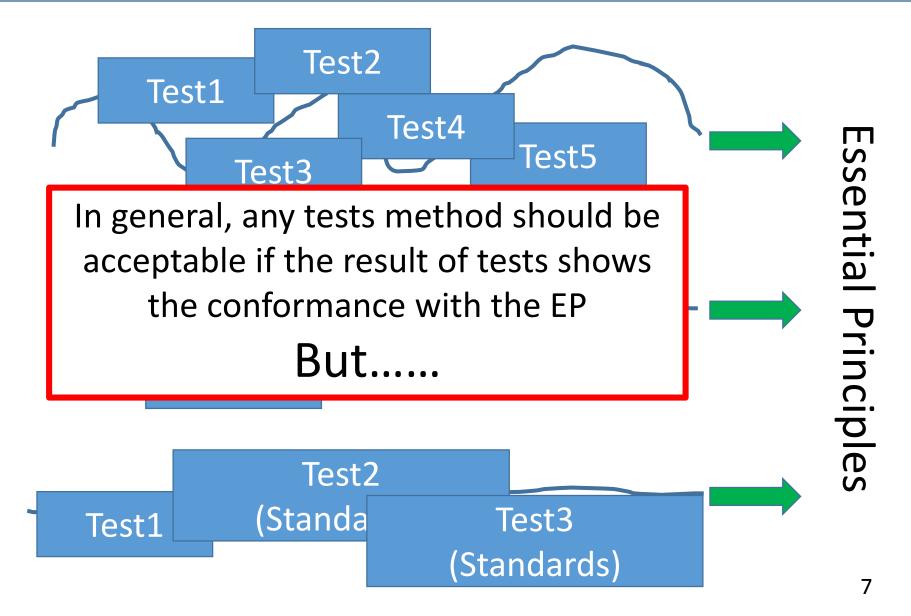
**Chapter 4: General Principles** 

- Chapter 5: Essential Principles Applicable to all Medical Devices and IVD Medical Devices
- Chapter 6: Essential Principles Applicable to Medical Devices other than IVD Medical Devices
- Chapter 7:Essential Principles Applicable to IVD Medical Devices
- Appendix A: Use of Standards in Meeting Essential Principles
- Appendix B: Guidance on Essential Principles











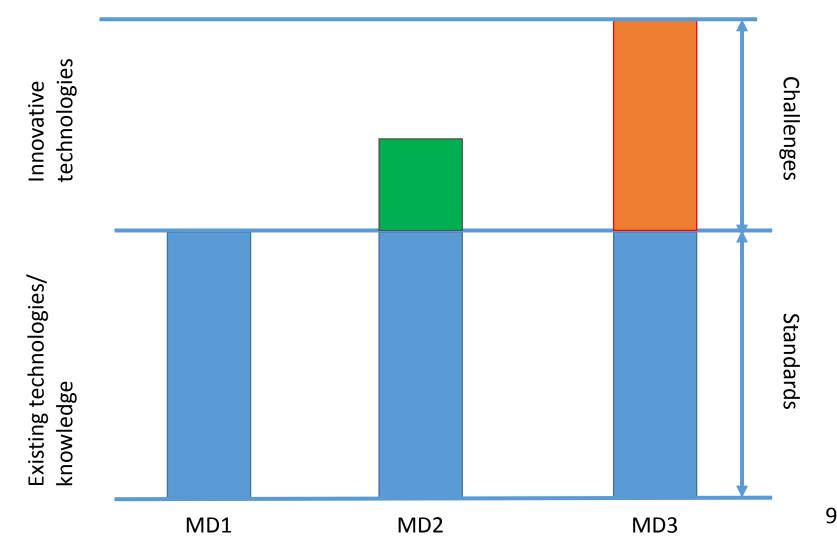
The use of consensus standards

- Enhance transparency
- Reduce duplication
- Reduce oversight

Enhancing quality of application/review Time saving Cost saving



## **Technologies and Standards**







**IMDRF** International Medical Device Regulators Forum

#### **Final Document**

Title: Optimizing Standards for Regulatory Use

Authoring Group: IMDRF Standards Working Group

Date: 25 September 2018

Yuan Lin, IMDRF Chair



How to improve standards and standards developing processes for use in device review

- Two elements
  - Improving standards' content to enhance utility for regulatory purposes
  - Encouraging regulatory authority participation in standards development
- Public consultation
- Publication October 2018





- Audience
  - Regulators
  - SDOs
  - Medical device community
- Scope
  - Resource for standards writers and regulators
  - All medical devices, including IVD



# Main Chapters

### ✓ General

- Recommendation for Standards
  Development
- Enhancing Stakeholder Participation in Standards Development
- ✓ IMDRF and Standards Developing



# General

1. Standards should map to *IMDRF Essential Principles* of Safety and Performance of Medical Devices and *IVD Medical Devices (2018)* 

International Medical

**Device Regulators Forum** 

2. Performance versus design stipulations

IDRF

3. Characteristics for optimized international standards



### General

# 1. Map to IMDRF Essential Principles

International Medical

**Device Regulators Forum** 

- Standards should reflect:
  - A close relationship between the standard's scope and one or more of the IMDRF EPs
  - The clarity and completeness of the requirements contained in the standard as it relates to a specific EP
  - Test methods for determining compliance with each of the requirements in the standard, and clear acceptance criteria for determining that each technical requirement is met



### General

# 2. Performance versus Design Stipulations

- Express a standard's requirements with references to performance, rather than to specific device features
- Fosters innovation and healthy marketplace dynamics
- An example from the *ISO/IEC Directives Part 2* illustrates this principle:

Different approaches are possible in the specification of requirements concerning a table:

<u>Design requirements:</u> The table shall have four wooden legs.

<u>Performance requirements</u>: The table shall be constructed such that [the table top remains level and at its original height] when subjected to ... [stability and strength criteria]. 16



### General

## 3. Characteristics

- Consensus: standards should be written under conditions that promote accessibility, transparency, broad representation and consideration of interests through consultations.
- Fairness: the needs of all stakeholders, including regulators, are considered in standards development.
- **Compatibility:** standards are compatible with the internationally accepted principles of safety and performance of medical devices.
- State of the art: standards represent the state of art in a technological field.





### General

# 3. Characteristics (cont'd)

- Efficiency: they should also promote economic benefits, e.g., reducing redundant reporting requirements, streamlining regulatory activities and harmonizing expectations across different countries and regions.
- **Completeness**: within its scope, a standard address all predictable elements related to Essential Principles of device safety and/or performance.
- Verifiability: requirements include verifiable objective measurements.
- **Repeatability**: testing methods in standards will yield consistent results across different certified test houses.
- **Consistency**: terms and symbols across standards are as consistent as possible.
- **Clarity**: standards are clear, unambiguous, and easily understood.
- Accessibility: standards and associated documents should be reasonably available to relevant stakeholders.



### **Recommendation for Standards Development**

- 1. Optimizing standards content
- 2. Best practices for standard development procedures
- 3. Use of standards in meeting IMDRF Essential Principles



### Recommendation for Standards Development 1. Optimizing Standards Content

- Standards should be crafted so that conformity to them can reduce regulatory burden, demonstrate conformance to IMDRF's EPs, and feature:
  - A strong rationale that:
    - Explains the general requirements and identifying test methods and/or other means of demonstrating compliance
    - Demonstrates how conformance to the standard achieves its goal of satisfying the associated EPs
  - Summary of the type of stakeholder groups involved in the drafting and editing of the standard
  - Identification of risk and direction on how to address
  - A clear scope
  - Terms and definitions established and accepted in other standards
  - Means to assess clinical performance if applicable as part of the normative requirements



### Recommendation for Standards Development 1. Optimizing Standards Content

- Standards should feature (cont'd):
  - Clear and quantitative acceptance criteria that can adequately support IMDRF EPs
  - Explanation of how conformance can be met if no acceptance criteria are included
  - If acceptance criteria not mandatory, justification for why, and how to demonstrate conformance to the standard
  - Well accepted and verified test methods (including for new or unfamiliar methods)
  - Transparent and clear (e.g., 'track changes') revisions
  - An annex or table that cross references the standard's clauses to the Essential Principles



### Recommendation for Standards Development

### 2. Best practices

- Consider regulatory requirements at every step
- Write a strong Business Plan
  - Robust needs analysis: market, safety, regulatory
  - Expectations for regulatory utility
  - Emphasize conformity assessment
- Encourage and solicit a wide variety of expertise
- Get involved early!



# Enhancing Stakeholder Participation in Standards Development

- 1. International, regional and national level participation: joining the conversation
- 2. Recommendations for participation: submitting effective comments



Enhancing Stakeholder Participation in Standards Development

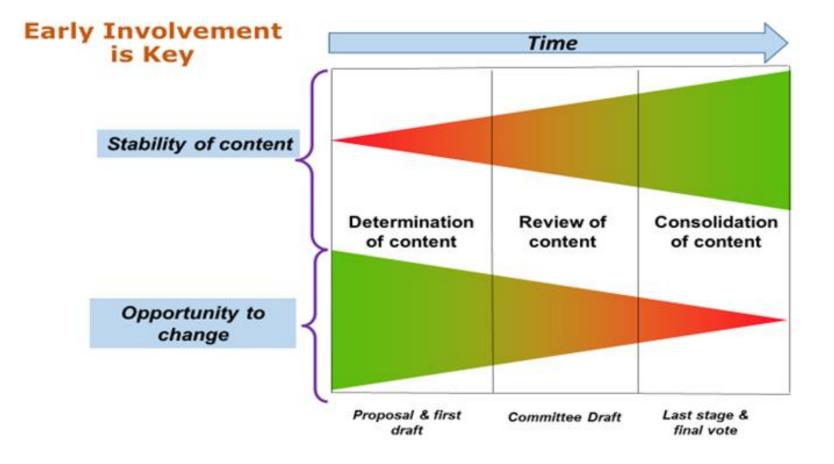
- 1. Joining the conversation
  - Regulators should build a strong standards program that encourages contributions to standards development
  - Engagement with SDOs is essential
    - Through National Bodies and Mirror Committees
    - On SDO Technical Committees
  - Contribute regulatory perspective
  - Consider leadership roles



Enhancing Stakeholder Participation in Standards Development

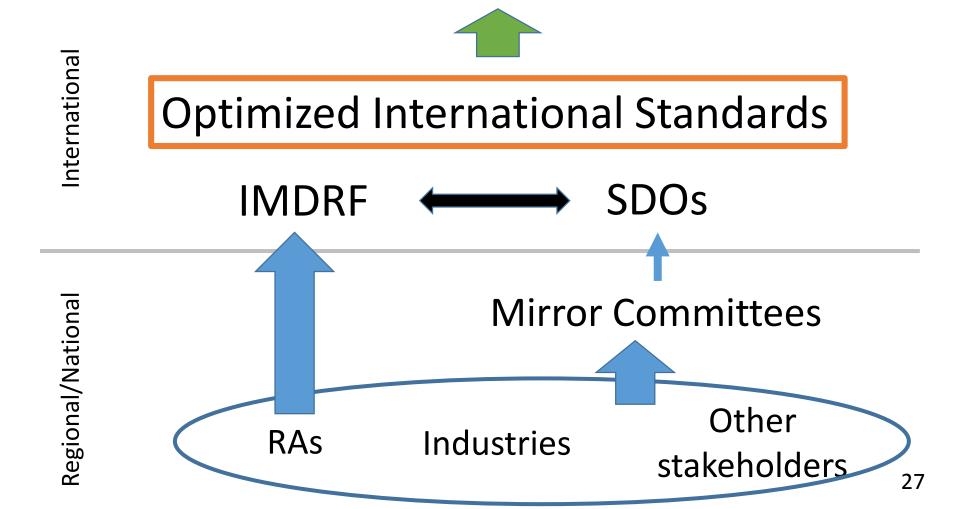
- 2. Submitting effective comments
  - Get involved early (at NWIP stage) and remain engaged throughout the entire process
  - Become familiar with the draft
  - Listen to others, consult regulatory colleagues
  - Consider impact on regulatory processes, especially conformity assessment, testing methods and audit requirements
  - Articulate your position clearly and concisely
  - Use SDO's approach and templates
  - Offer alternative language







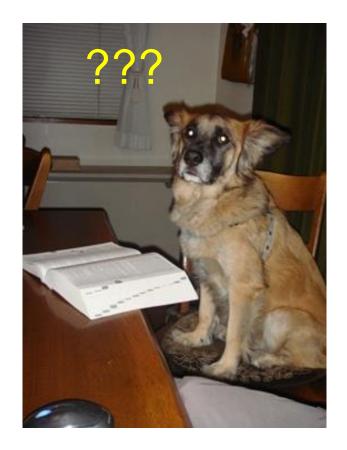
**IMDRF** *Essential Principles* 





### **Any Questions?**







# Thank you!!