

### Clinical and Laboratory Standards Institute (CLSI)

Consensus Standards to Support Operational Excellence and Regulatory Compliance

CLIAC Meeting

Barb Jones, PhD | April 10, 2024

#### **CLIA and CLSI Standards Clarification**

- (2) Establishment of performance specifications. Each laboratory that modifies an FDA-cleared or approved test system, or introduces a test system not subject to FDA clearance or approval (including methods developed in-house and standardized methods such as text book procedures), or uses a test system in which performance specifications are not provided by the manufacturer must, before reporting patient test results, establish for each test system the performance specifications for the following performance characteristics, as applicable:
  - (i) Accuracy.
  - (ii) Precision.
  - (iii) Analytical sensitivity.
  - (iv) Analytical specificity to include interfering substances.
  - (v) Reportable range of test results for the test system.
  - (vi) Reference intervals (normal values).

#### CLIA LDT Standard

#### Some Relevant CLSI Standards







# **CLSI Organization and Process**

Accredited Standards Development Organization

#### Who Is CLSI?



## The Global Leader in Setting Clinical Laboratory Standards

The Clinical and Laboratory Standards Institute (CLSI) is a not-for-profit organization that develops laboratory standards worldwide.



#### **CLSI Role in the Diagnostics Ecosystem**

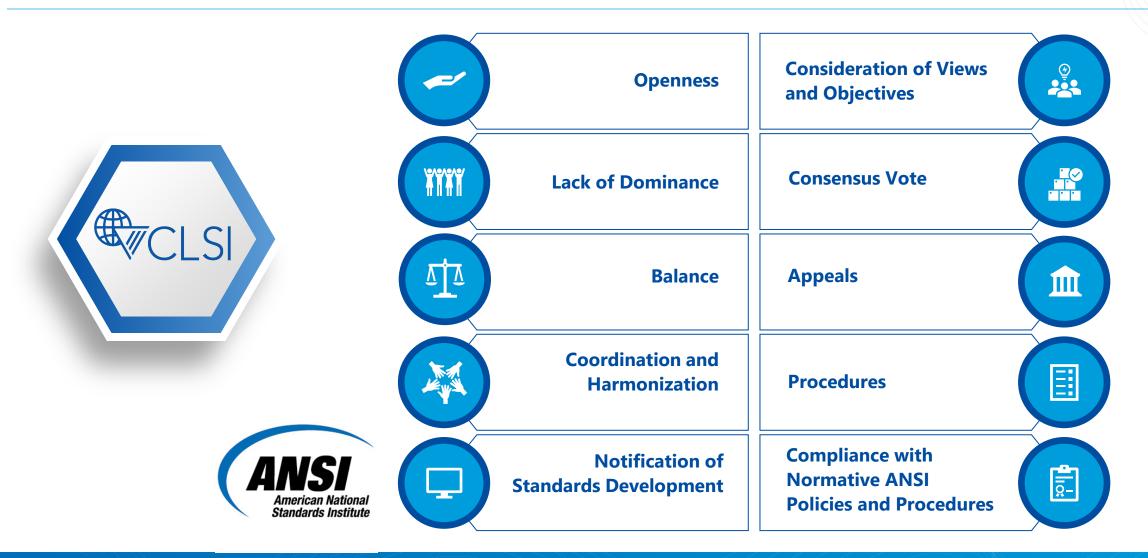
- > Founded in 1967 as NCCLS
  - > 2 months before CLIA enacted
  - > 20+ years before Amendments
- > Created by members of 36 organizations
  - > Department of Health Services (now CDC)
  - > the College of American Pathologists (CAP)
  - > the National Research Council (NRC)
  - > the American Chemical Society (ACS)
  - > the American Academy of Microbiology (now ASM)
  - National Bureau of Standards (now NIST)
- Accredited since 1977 by American National Standards Institute (ANSI) as a standards development organization (SDO)



"...advisory group for the improvement of standards in clinical laboratories and serve as a mechanism to achieve con-census on standards."



#### **Requirements for SDO Accreditation**





#### **CLSI At-a-Glance**

Globally recognized accredited not-forprofit standards development organization Made up of 24,000+ individuals with membership access and 1,600+ active subject matter experts

300 products:

F

standards, guidelines, educational resources, and more Recognized by labs, accreditors, and government agencies as the best way to improve medical lab testing Our products help improve testing outcomes, maintain accreditation, bring products to market faster, and navigate regulatory hurdles



#### **CLSI Standards in Use Around the Globe**





# **GLOBAL CONSENSUS-BASED STANDARDS**

Bringing constituencies together through balanced, inclusive, and participatory processes

#### **Professions**

- Hospital & Clinical Laboratories
- Research & Reference Laboratories
- Colleges & Universities
- Pharmacies



#### Government

- Public Health Agencies
- Public Health Ministries
- Regulatory Bodies
- Accreditors

- In Vitro & Device Manufacturers
- Pharmaceutical Manufacturing
- Commercial & Clinical Trial Laboratories
- MedTech & Testing Companies

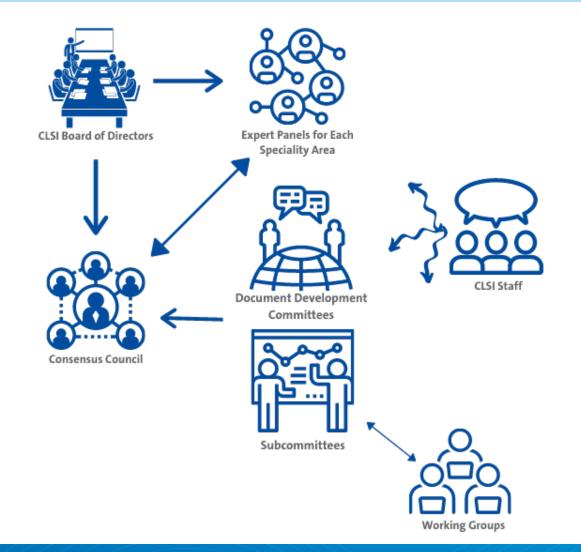


#### **Members & Subject Matter Experts**





#### **How We Work**





#### **THE CLSI CONSENSUS PROCESS**





#### **11 Expert Panels**



Automation and

Informatics







General Laboratory



Preexamination



Hematology



Immunology and Ligand

Assay

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Method Evaluation



Microbiology



Molecular Methods



Newborn Screening





Quality Management Systems



Veterinary Medicine





#### **More than 300 Clinical and Laboratory Standards**



Automation and Informatics Clinical Chemistry and Toxicology IVD Development (Industry) **Emergency Response Evaluation Protocols** General Laboratory & Lab Safety Hematology and Immunology Medical Office Practices Microbiology Molecular Diagnostics Newborn Screening Point-of-Care Testing **Preexamination Processes** Quality Management Systems Specimen Collection & Handling Veterinary Medicine

5

62

36

38

57



# **CLSI's Support of CLIA**

#### **Accreditation Crosswalks**

**190+ Documents** provide guidance for accreditation requirements (CAP, JC)



#### **Quality System Essentials**

24 Documents and over 2800 pages of guidance directly applied to CLIA quality regulations

CLIA Regulation (What must be done)	CLSI Quality System Essentials (How to do it)
Sub-part J: 493.1100-493.1101 Sub-part K: 493.12001239 / 493.12421249 / 493.1282 / 493.1289 / 403-1282 /	Facilities and Safety Management
493.1289 / 493.1282 / Sub-part M: 493.13511495	Organization and Leadership
Sub-part K: 493.12521255	Personnel Management
Sub-part K: 402 12-	Equipment Management
.1242 / 493.1232 / 493.1240-	Supplier and Inventory Management
493.12561282 / 402 100	Process Management
Sub-part K: 493.1231 / 493.1291 Sub-part J: 493.1101e / 493.1105 / Sub-part K: 493	Information Management
Sub-part K. 400	Documents and Records Management
(102 part M: 493.1407	Customer Focus
Sub-part H: 493.801807 / Sub- part K: 493.1239 / 493.1249 / 493.12531254 / 493.1289 / 493.1299	Assessments
Sub-part K: 493.12331234 / 493.1282	
SUD-Dart K. 102 1222	Nonconforming Event Management
93.1249 / 493.1289 / 493.1299	Continual Improvement

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# Federal Agency Use of Consensus Standards

### **Consensus Standard Use Requirements**

#### > National Technology Transfer and Advancement Act (NTTAA) (1996)

Mandates that all federal agencies use technical standards developed and adopted by voluntary consensus standards bodies

> Office of Management and Budget (OMB) Circular A-119, Federal Participation in the Development and Use of Voluntary Consensus Standards and in Conformity Assessment Activities

- > Definition of "Standard" or "Technical Standard" including:
  - Guidelines or characteristics for products or related processes and production methods
  - related management systems practices
  - the definition of terms
  - test methods and sampling procedures
- > Considerations for standards selection, including:
  - the costs and benefits to the Federal government and the regulated public of the agency developing its own standard;
  - the **ongoing use of the standard by other agencies** for the same or a similar requirement, [to] increase consistency across the • Federal government

"[A]II Federal agencies and departments shall use technical standards that are developed or adopted by voluntary consensus standards bodies, using such technical standards as a means to carry out policy objectives or activities determined by the agencies and departments."

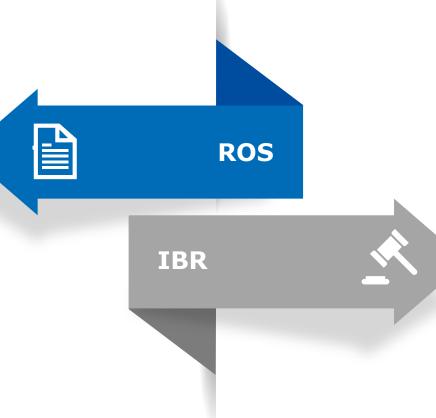
-OMB Circular A-119



# **Federal Agency Vehicles for Consensus Standards**

## **Recognition of Standards**

- Use of standards is voluntary
- Agency has discretion to define process, procedure, requirements
- Can be partially recognized
- Not legally enforceable
- Revocation of recognition does not require lengthy rule change
- Can be easily modified as standards are revised



#### **Incorporation by Reference**

- Entire standard becomes part of rule (1 CFR part 51)
- Has the force and effect of law
- Rule change process must be followed to remove reference
- Example: FDA IBR of ISO
  13485:2016 Medical devices -Quality management systems
   Requirements for regulatory purposes



# **FDA Recognized Standards Program**

#### > FDA recognition is in FD&C Act

514(c)(1)(A) In addition to establishing a performance standard under this section, the Secretary shall, by publication in the Federal Register, recognize all or part of an appropriate standard **established by a nationally or internationally recognized standard development organization**\* for which a person may submit a declaration of conformity in order to meet a premarket submission requirement or other requirement under this Act to which such standard is applicable.

- > FDA recognizes over 1400 standards from 32 SDOs
- > Full or partial recognition of 132 CLSI Standards
- > Clear process for recognition, withdrawal, and external request for recognition

\* Emphasis added

Contains Nonbinding Recommendations

Appropriate Use of Voluntary Consensus Standards in Premarket Submissions for Medical Devices

Guidance for Industry and Food and Drug Administration Staff

Document issued on September 14, 2018.

The draft of this document was issued on May 13, 2014.

This document supersedes "Guidance for Industry and FDA Staff; Recognition and Use of Consensus Standards," issued on September 17, 2007, "Frequently andards," issued on for FDA Staff: Use of

Contains Nonbinding Recommendations

Recognition and Withdrawal of Voluntary Consensus Standards

ontact the Office of 09 or 240-402-8010.

of Health and Human Services Food and Drug Administration evices and Radiological Health logics Evaluation and Research

ontact the Office of the

by e-mail at

ssued on March 12,

Guidance for Industry and Food and Drug Administration Staff Document issued on September 15, 2020.

The draft of this document was issued on September 14, 2018.

This document supersedes "CDRH Standard Operating Procedures for the Identification and Evaluation of Candidate Consensus Standard for Recognition," issued on September 17, 2007.

For questions about this document, contact the Office of Strategic Partnerships and Technology Innovation (OST) at (301) 796-5600 or the Standards and Conformity Assessment Program by e-mail at CDRHStundardStaff?idia.hhs gov.

For questions about this document regarding CBER-regulated devices, contact the Office of Communication, Outreach, and Development (OCOD) at 1-800-835-4709 or 240-402-8010.

OMB Control No. 0910-0120 Current expiration date available at <u>https://www.reginfo.gov</u> See additional PRA statement in Section VII of this guidance

FDA U.S. FOOD & DRUG

U.S. Department of Health and Human Services Food and Drug Administration Center for Devices and Radiological Health Center for Biologics Evaluation and Research



# **Recommendation for CLIAC**

#### **Recommendations for CLIAC Regarding Standards**

- 1. CMS can and should provide CLIA certified labs with further guidance regarding "How to" meet regulation
- 2. CMS can and should develop a Recognized Standards Program (RSP)
- 3. FDA's RSP can serve as a model for development
- 4. CMS has the discretion to develop a RSP without legislative authorization and should take steps towards implementation
- 5. CMS can compel accreditors to refer laboratories to recognized standards when applicable
- 6. CMS, FDA, and CDC can provide communication to CLIA certified laboratories about the RSP







# **Thank You**

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