

Traceability in Laboratory Medicine

The Role of International/Global Standards in Traceability

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The Role of Standards (and Guidelines)

- **describe**
 - **quality requirements of products and processes**
 - **best practices**
- **help industry, government and users**
- **facilitate world trade**
- **harmonize the level of service to the patients at a high level**
- **are the basis of conformity assessment of products**

Metrological Traceability

- **is an "Essential Requirement" of the European Directive 98/79/EC**
- **will lead to better comparability of patient results over time and space**
- **sets out requirements on reference measurement procedures, reference materials and laboratories**

Forces Prompting International/Global Standardization and Harmonization

- **Development of a global economy**
- **Mobility of individuals**
- **Development of the World Trade Organization**
- **Cooperation of Governments**
- **Technology transfer of professional methods**
- **Electronic Communication**

The Impact on Healthcare and Laboratory Medicine

- **Technological and medical development advances on a global scale**
- **Patients (and samples) move across borders**
- **Requirement of similar (identical) levels of quality**
- **Harmonization of legal requirements (GHTF)**
- **Most manufacturers are global suppliers**

International Standardization

ISO/TC 212, *Clinical laboratory testing and in vitro diagnostic test systems*

Scope: “Standardization and guidance in the field of laboratory medicine and in vitro diagnostic test systems. This includes, for example, quality management, pre- and post-analytical procedures, analytical performance, laboratory safety, reference systems, and quality assurance.”

ISO/TC 212 Management

Chairman: Dr. Klaus Stinshoff (Switzerland)

Secretariat: NCCLS, on behalf of ISO and ANSI

Conveners:

- **Working Group 1, Quality management in the clinical laboratory -
Prof. N.K. Shinton (UK)**
- **Working Group 2, Reference systems -
Dr. Rene Dybkaer (Denmark)**
- **Working Group 3, In vitro diagnostic products -
Dr. Don Powers (USA)**

ISO/TC 212 - Working Group 2

Reference Systems

- **ISO 15193 - Measurement of quantities in samples of biological origin – Requirements of reference procedures**
- **ISO 15194 – Measurement of quantities in samples of biological origin – Description of reference materials**
- **ISO 15195 – Requirements for reference measurement laboratories**
- **ISO 17511 – Metrological traceability of values assigned to calibrators and control materials**
- **ISO 18153 – Metrological traceability of values for catalytic concentration of enzymes assigned to calibrators and control materials**

These standards are developed jointly with CEN/TC 140 under the Vienna Agreement

ISO/TC 212 Membership

Participating members (31)

Argentina	Italy
Australia	Japan
Austria	Korea
Belgium	Mexico
Brazil	The Netherlands
Canada	New Zealand
Chile	Norway
China	Portugal
Czech Republic	Singapore
Denmark	Spain
Finland	Sweden
France	Switzerland
Germany	Turkey
Iran	United Kingdom
Ireland	United States
Israel	

Observer members (12)

Bulgaria	Malaysia
Cuba	Malta
Egypt	Mongolia
Estonia	Saudi Arabia
Hungary	Thailand
India	Zimbabwe

Committee Liaisons (16)

EC4	ISO/REMCO
ECLM	ISO/TC 48/SC 1.4
EDMA	ISO/TC 76
EUROM II	ISO/TC 176
IAMLT	ISO/TC 210
ICSH	IUPAC
IEC/TC 66	WASP
IFCC	WHO

What Is NCCLS?

(In addition to ISO Secretariat)

**NCCLS is an accredited
developer of voluntary
consensus standards and
guidelines for global application.**

Global is Not Synonymous with International

**International = Each Country
gets one vote (ISO process).**

**Global = Participation is open to
all interested experts (NCCLS).**

NCCLS Develops Complementary Documents

ISO

- is recognized by WTO**
- the documents usually outline general requirements**

NCCLS

- develops user friendly documents**
- easy to understand and interpret**
- with a strong educational component**
- used worldwide**

NCCLS – Global and National (if needed)

- **Global participation and cooperation make NCCLS a forum for addressing global needs**
- **NCCLS balances this global approach with the ability to develop documents that are national in scope and application whenever there is such a need**

NCCLS as a Global Organization

- **NCCLS documents serve the worldwide needs of industry, government, and the professions in enhancing the value of medical testing and healthcare services**
- **34% of active members,**
 - **20% of corresponding members, and**
 - **20% of NCCLS volunteers**
 - **are from outside the United States**

NCCLS Documents are Used Worldwide

- **Referenced in government regulations and international standards**
- **Utilized in professional practice guidelines**
- **Translated into other languages**
- **Obtained in bulk to distribute to stakeholders**

NCCLS Principles

- **Practical, in addressing healthcare issues**
- **Timely, to keep pace with technological change and effectively meet current needs**
- **Voluntary in development and implementation**
- **Seeks participation from around the globe**
- **Multi-constituency in addressing issues impacting on different groups**
- **Balanced by representatives from industry, government, and professionals**
- **Fairness to give consideration to all views and precludes conflicts of interest**

NCCLS Service

- **NCCLS offers neutral consensus process**
- **Member organizations provide technical expertise**

NCCLS Products

Documents which include:

- **Standards**
- **Guidelines**
- **Reports**
- **Reference method systems (NRSCL)**

ISO Participation

**ISO/TC 212 will develop
international reference
traceability documents**

NCCLS' Support

- **NCCLS will support the traceability concept and align its activities with JCTLM decisions**
- **NCCLS will develop compatible, global companion documents for the users**
- **NCCLS Board is willing to consider broader role in support of JCTLM**

Gracias

Obrigado

Merci

Arigato

Danke

Thank you