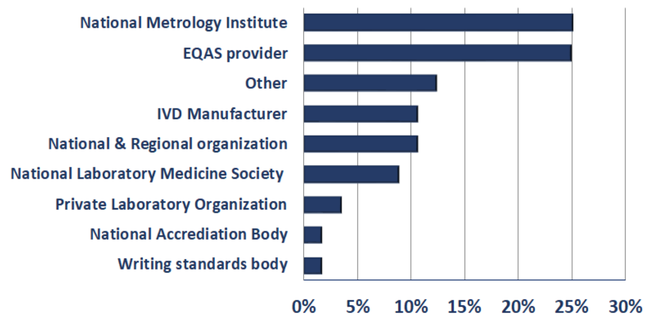
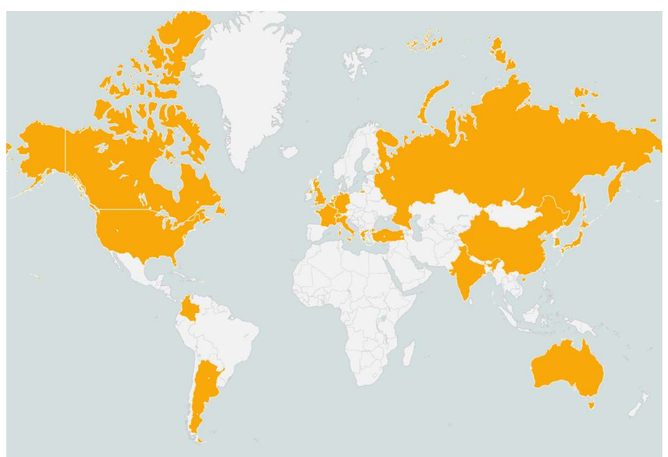
Accurate results for patient care

The Joint Committee for Traceability in Laboratory Medicine (JCTLM)

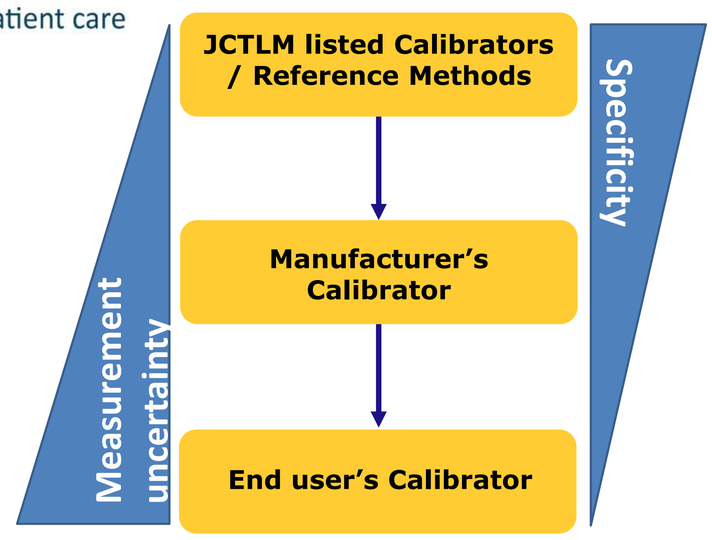
The JCTLM is a committee established by the BIPM, IFCC and ILAC in 2002 to support world-wide comparability, reliability and equivalence of measurement results in Laboratory Medicine for the purpose of improving health care and facilitating national and international trade in *in vitro* diagnostic devices

JCTLM partners include 56 organizations from 20 countries



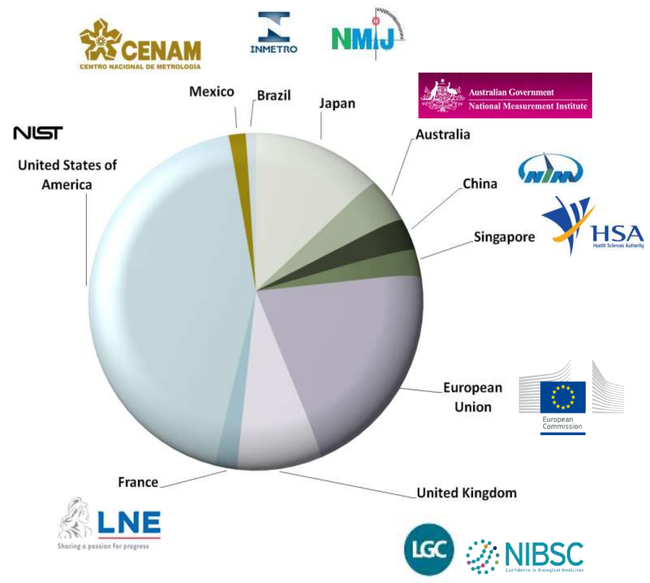


Traceability in Laboratory Medicine

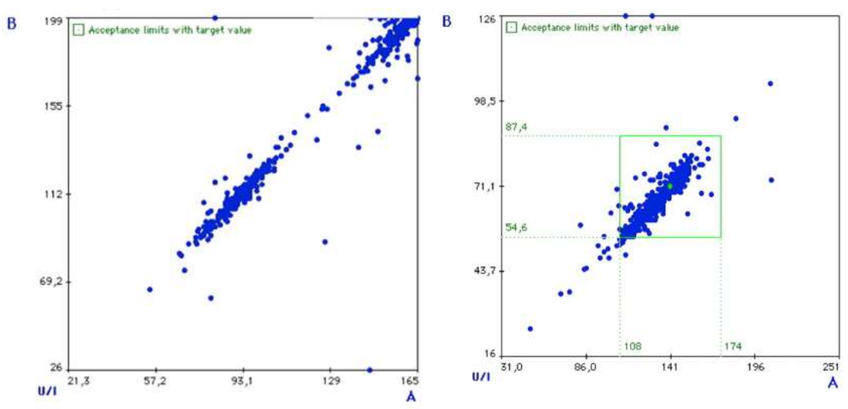


NMIs' contributions to JCTLM Activities

Certified Reference Materials



Accurate results for patient care
Impact of implementation of reference method for Enzyme (GGT)



before after

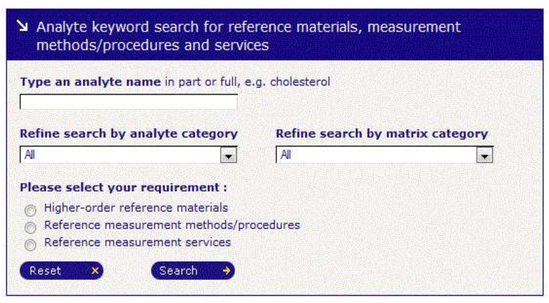
Feedback from an IVD manufacturer (2018):

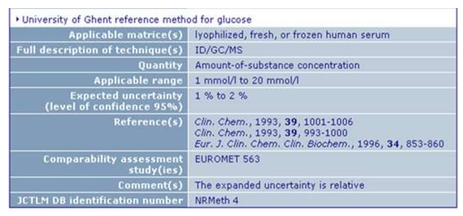
'JCTLM together with BIPM, IFCC and others indeed provided the right direction and path to accurate results for patient care, that our team firmly believes in and closely follows'

JCTLM Database of reference measurement systems

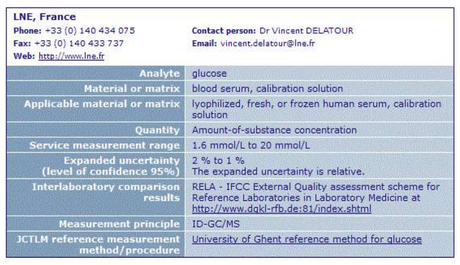
The JCTLM maintains a database of available higher order reference materials, reference measurement procedures, and laboratory measurement services originally required by the *in vitro* diagnostic industry to meet the ED 98/97/EC on *In Vitro* Diagnostic Medical Devices, and now replaced with a regulation.

http://www.bipm.org/jctlm





University of Ghent reference method for glucose	
Applicable matrice(s)	lyophilized, fresh, or frozen human serum
Full description of technique(s)	ID/GC/MS
Quantity	Amount-of-substance concentration
Applicable range	1 mmol/l to 20 mmol/l
Expected uncertainty (level of confidence 95%)	1 % to 2 %
Reference(s)	*Clin. Chem.*, 1993, **39**, 1001-1006 *Clin. Chem.*, 1993, **39**, 993-1000 *Eur. J. Clin. Chem. Clin. Biochem.*, 1996, **34**, 853-860
Comparability assessment study(ies)	EUROMET 563
Comment(s)	The expanded uncertainty is relative
JCTLM DB identification number	NRMeth 4



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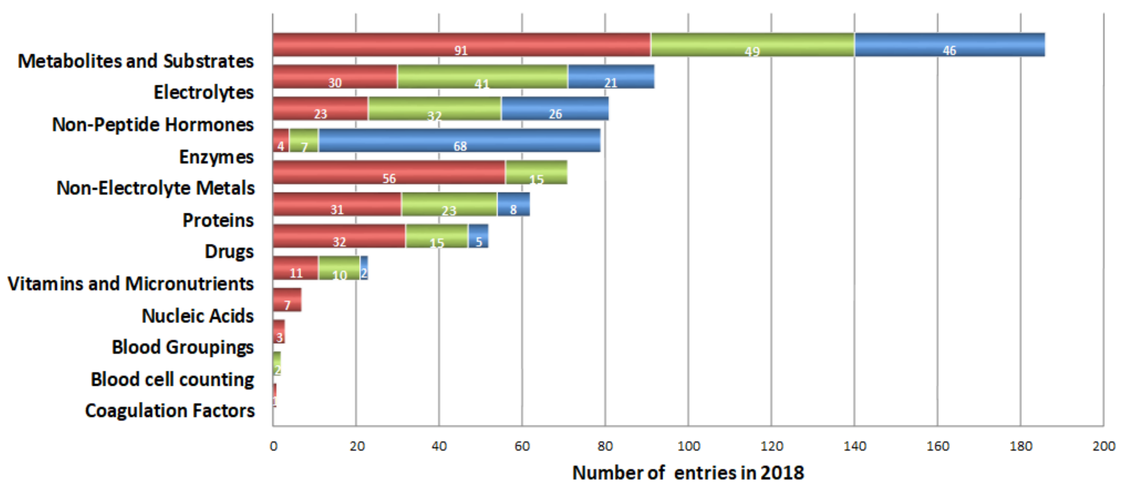
Web: http://www.lne.fr

Analyte	glucose
Material or matrix	blood serum, calibration solution
Applicable material or matrix	lyophilized, fresh, or frozen human serum, calibration solution
Quantity	Amount-of-substance concentration
Service measurement range	1.6 mmol/L to 20 mmol/L
Expanded uncertainty (level of confidence 95%)	2 % to 1 % The expanded uncertainty is relative.
Interlaboratory comparison results	RELA - IFCC External Quality assessment scheme for Reference Laboratories in Laboratory Medicine at http://www.dgkl-rfb.de:81/index.shtml
Measurement principle	ID-GC/MS
JCTLM reference measurement method/procedure	University of Ghent reference method for glucose

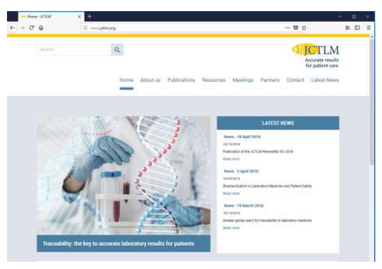
Database content



JCTLM web portal on Traceability for Laboratory Medicine

The JCTLM formed a WG on Traceability: Education and Promotion in 2015 to produce educational materials to demonstrate and promote the value of traceability in laboratory medicine as a means to reduce between-method variability in the interests of improved clinical outcomes and patient safety.

http://www.bipm.org/jctlm



JCTLM Web portal launched in 2016 includes:

1. Extensive and growing list of resources
2. All resources are freely available
3. Regular news updates
4. Forms to apply for JCTLM membership and JCTLM auspices
5. Direct access to the JCTLM Database

Examples of published information

RESOURCES

Glossary of terms and definitions : formal and well used

20 webinars on scientific concepts on metrological traceability and for trainees

PUBLICATIONS

Library of about 100 scientific publications on standardization for various health markets and review/presentations on traceability in laboratory medicine

MEETINGS

Organization of 20 JCTLM Symposia at international conferences

Organization of biennial JCTLM Members' and Stakeholders' Meeting

Approval of 20 meetings world-wide under the auspices of the JCTLM