



Traceability, education and promotion: getting the message out

Graham H Beastall

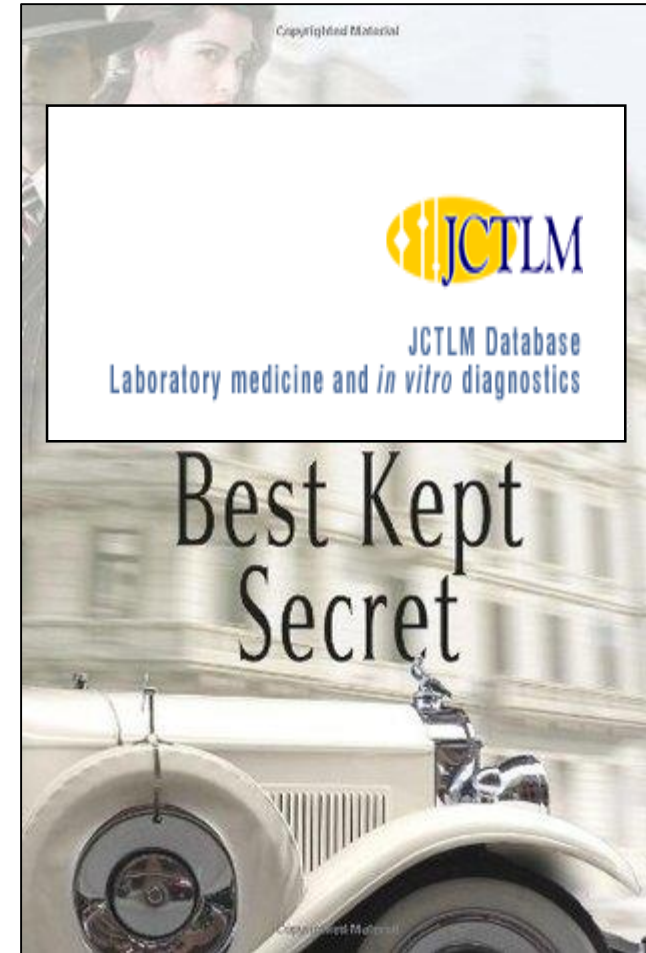
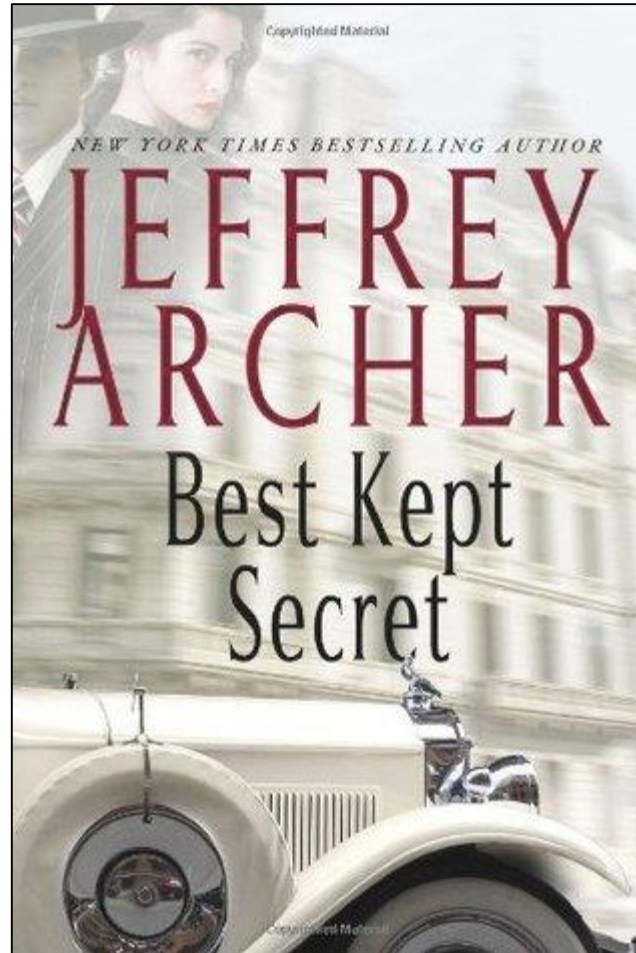
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On behalf of the JCTLM WG for traceability, education & promotion (WG-TEP)

Outline of talk

- Background to formation of JCTLM WG-TEP
- WG-TEP structure and organisation
- TEP achievements to date
- TEP into the future
- How can you help?

Traceability in laboratory medicine & JCTLM?

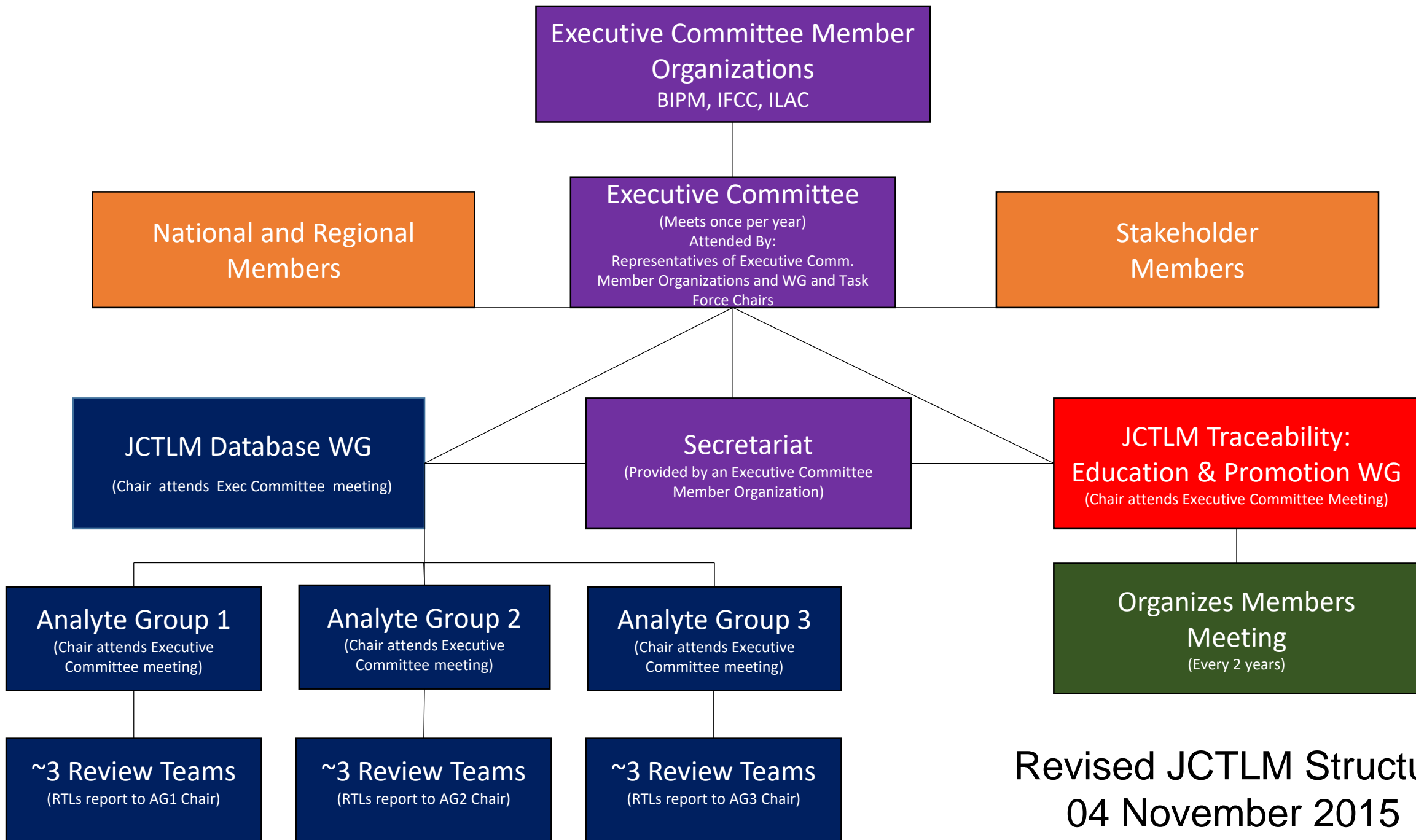


'Evidence' of 'best kept secret': 2013-15

- The 2013 JCTLM Members & Stakeholders meeting recognised 'the issue'
- Traceability is not part of specialist training in laboratory medicine
- Few 'ordinary' laboratory medicine specialists appreciate that traceability can affect the clinical utility of laboratory results
- Traceability statements in IVD products tend to be 'minimalist' in nature
- Disappointing number of citations for JCTLM in Google Scholar
- A detailed Q&A session on harmonization of tests results only mentioned JCTLM once (Clin Chem 2014 60: 923-7)
- Within IFCC knowledge of JCTLM was limited to the Scientific Division

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Revised JCTLM Structure
04 November 2015

WG-TEP Terms of Reference

Aim:

- To produce and promote educational materials to demonstrate 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.

Specific Roles:

- Organisation of the two-yearly JCTLM Members & Stakeholders Meeting
- Organisation of JCTLM scientific and educational meetings, symposia and conferences
- Assessment of applications for meetings to be held with JCTLM auspices
- Production of educational materials to promote the value of traceability in laboratory medicine
- In conjunction with the JCTLM Secretariat production of the annual JCTLM e-newsletter
- Production and maintenance of a 'traceability' website

WG-TEP Membership

Name	Organisation	Country
Graham Beastall	IFCC	UK
Robert Wielgosz	BIPM	FR
Graham Jones	ILAC	AU
Jeanita Pritchett	NIST	US
David Armbruster	Abbott	US
Tony Badrick	RCPAQAP	AU
Elvar Theodorsson	Eurachem	SE
Vincent Delatour	LNE	FR
David Ducroq	WEQAS	UK
Anja Kessler	RfB	DE
Nanette Brouwer	SKML	NL
Chen Baorong	Beijing Aerospace General Hospital Reference Laboratory	CN
Silvia Quiroga / Marta Torres	ProgBA	AR
Ex Officio		
Gary Myers	JCTLM Chair	US
Stephanie Maniguet	BIPM & WG-TEP Secretary*	FR

WG-TEP work streams

Work stream	Activity	Lead
1	Publish definitions of terms used in traceability	Robert Wielgosz
2*	Publish a series of presentations on scientific concepts	Elvar Theodorsson
3	Importance of traceability to IVD manufacturers	Dave Armbruster
4*	Importance of traceability to patients and the public	Graham Jones
5	Global significance of traceability	Graham Beastall
6	Tools for promoting traceability	Graham Beastall
7	Including sessions on traceability in scientific conferences	Graham Beastall / Tony Badrick
8	Publish and maintain a TEP website	Graham Beastall/ IFCC Office

* Subject of presentations in this symposium

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1. Definitions used in traceability

- A glossary of terms and definitions is published on www.jctlm.org
- There are definitions for 11 terms: metrology; measurand; reference material; reference measurement procedure; reference laboratory; traceability; trueness; measurement uncertainty; limit of detection; commutability
- Each term has an every day definition and a formal definition

Example

Term	Every day definition	Formal definition	Source
Metrology	The branch of science that deals with measurement	Science of measurement and its application NOTE Metrology includes all theoretical and practical aspects of measurement, whatever the measurement uncertainty and field of application.	VIM3

3. Importance of traceability to IVD manufacturers

In this issue: Harmonization of Clinical Laboratory Test Results

The Journal of the International Federation of Clinical Chemistry
and Laboratory Medicine

eJIFCC

**Harmonization of clinical laboratory test results:
the role of the IVD industry**

Dave Armbruster¹, James Donnelly²

eJIFCC 2016; 27: 37-47

¹ Director, Clinical Chemistry Scientific Leadership, Abbott Diagnostics
² Chief Scientific Officer, Siemens Healthcare Diagnostics Inc.

Reference Materials, Measurement Methods and Services for *In Vitro* Diagnostics

 **JCTLM**
Accurate results
for patient care

An invitation to Diagnostics
Companies to become
JCTLM Stakeholder
Members

www.jctlm.org
www.bipm.org/jctlm

5. Global significance of traceability

DE GRUYTER

Clin Chem Lab Med 2017; x(x): xxx–xxx

Opinion Paper

Graham H. Beastall*, Nannette Brouwer, Silvia Quiroga and Gary L. Myers, prepared on behalf of the Joint Committee for Traceability In Laboratory Medicine

Traceability in laboratory medicine: a global driver for accurate results for patient care

DOI 10.1515/cclm-2017-0060
Received January 20, 2017; accepted March 15, 2017

Keywords: action plan; commutability; standardization; traceability.

Review article accepted for publication in Clin Chem Lab Med – August 2017 issue

Permission obtained for translation into other languages and re-publication in local journals

6. Tools to promote traceability

- New logo adopted



- Webinar produced to assist trainees in laboratory medicine. Freely available from IFCC e-Academy and www.jctlm.org
- Generic poster and symposium structure for use at conferences
- JCTLM auspices scheme
- New website (see later)

Editorial

Christa Cobbaert

Time for a holistic approach and standardization education in laboratory medicine

DOI 10.1515/cclm-2016-0952

Those responsible for training in laboratory medicine will require support and resources

7. Sessions on traceability at conferences



Traceability /method standardisation: this congress



CIRME

Traceability in laboratory medicine: A matter of patient safety

Federica Braga, Ilenia Infusino, Sara Pasqualetti, Andrea Mosca



Standardization in endocrinology

Philippe Gillery, Eef Lentjes, Catharine Sturgeon, Linda Thienpont



Implementing and maintaining standardization in laboratory medicine

Cas W. Weykamp, Vincent Delatour, Hubert W. Vesper, Christa M. Cobbaert



Traceability in laboratory medicine: What is it and why is it important?

Gary Myers, Elvar Theodorsson, Graham Jones, Graham Beastall

JCTLM members & stakeholders meeting 2017

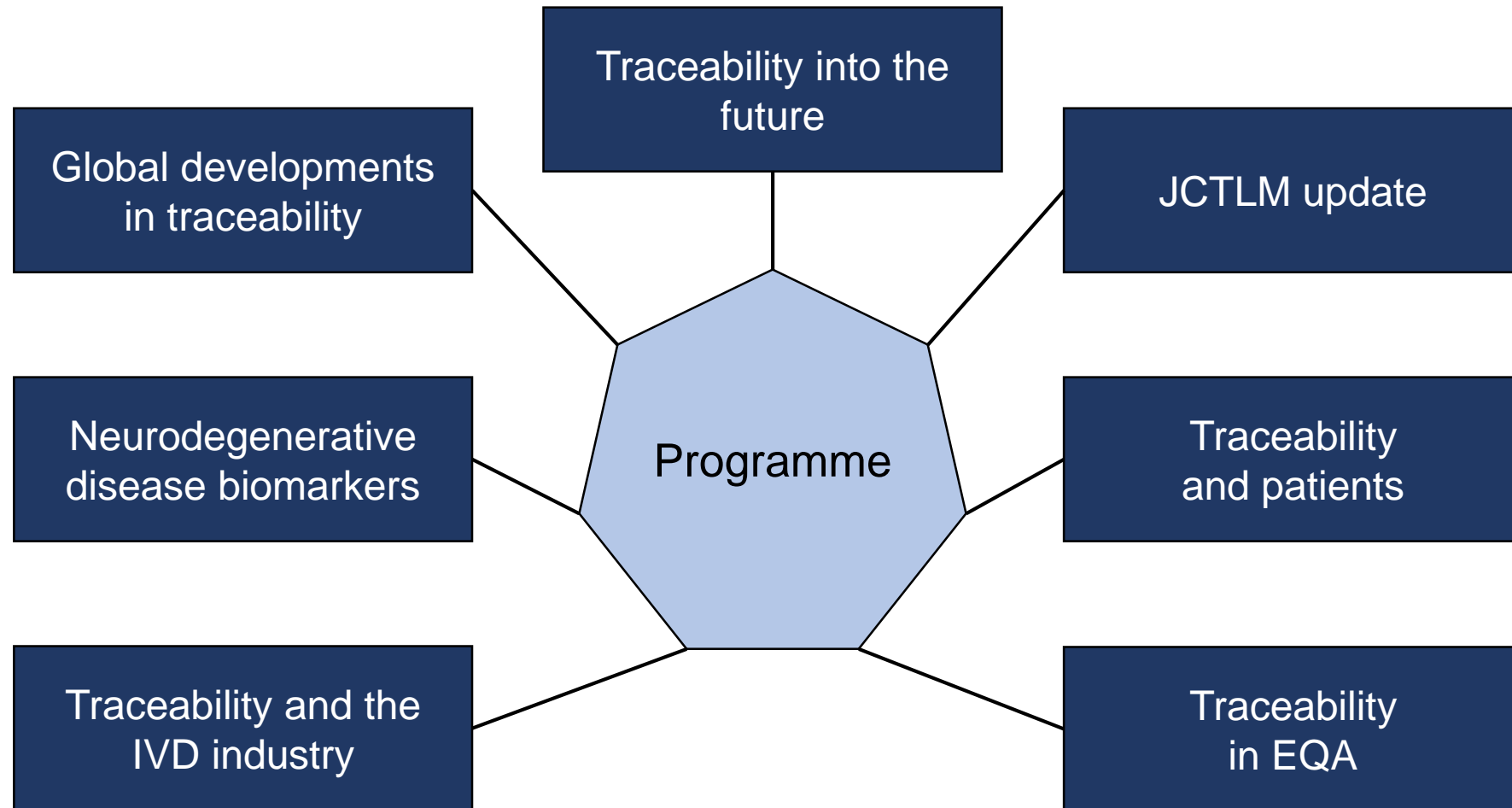
- When? 4 & 5 December 2017
- Where? BIPM, Sèvres, Paris
- Cost? Just €65 to cover catering
- Posters? Yes, on any traceability related topic
- Programme? www.jctlm.org – Meetings section
- Registration? <https://jotformpro.com/71362379177969>



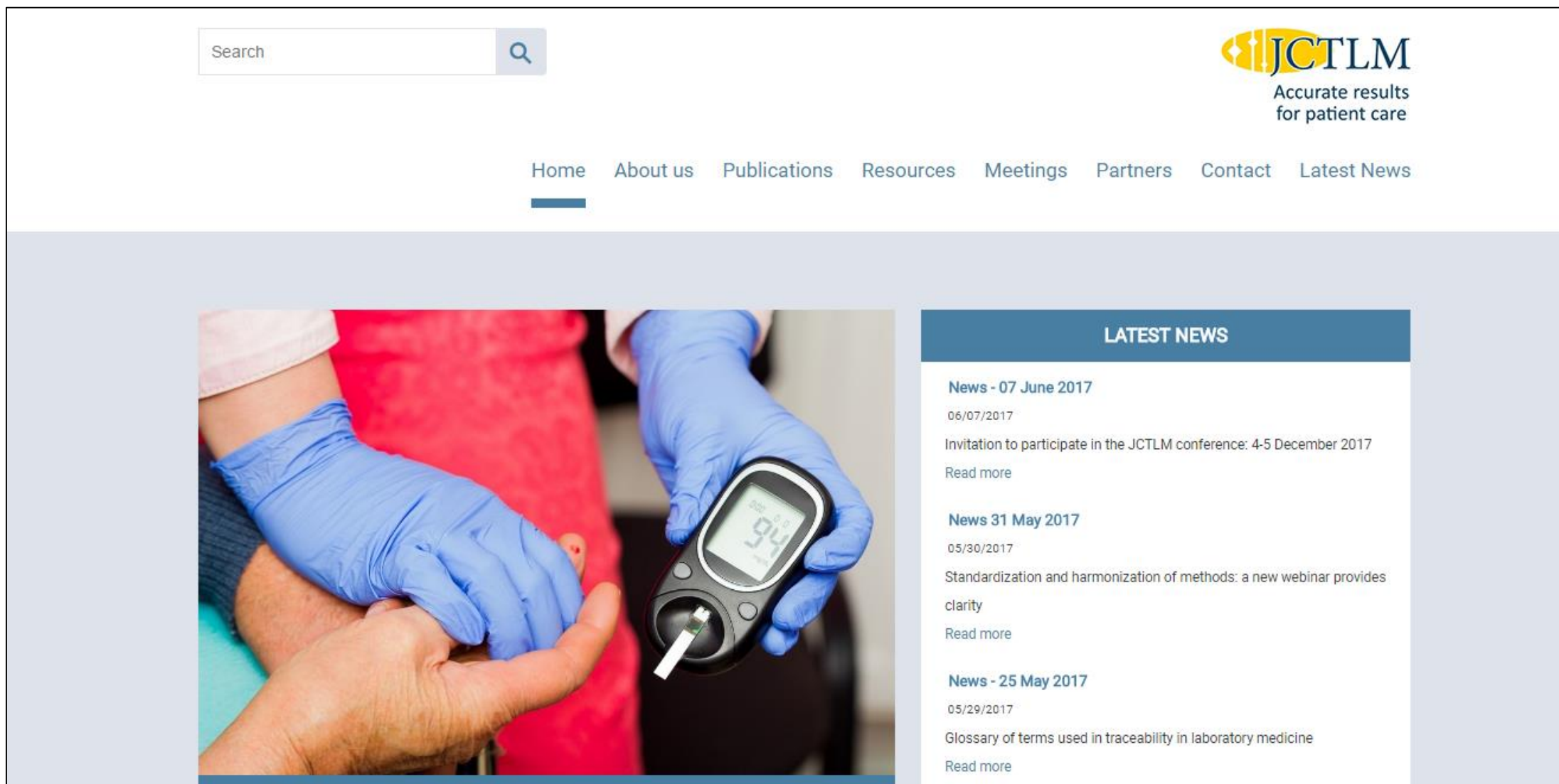
Bureau
↑ International des
↓ **Poids et**
↓ **Mesures**



JCTLM meeting: 4&5 December 2017



8. New TEP website: www.jctlm.org



Search

JCTLM
Accurate results
for patient care


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LATEST NEWS

News - 07 June 2017
06/07/2017
Invitation to participate in the JCTLM conference: 4-5 December 2017
[Read more](#)

News 31 May 2017
05/30/2017
Standardization and harmonization of methods: a new webinar provides clarity
[Read more](#)

News - 25 May 2017
05/29/2017
Glossary of terms used in traceability in laboratory medicine
[Read more](#)



8. New TEP website: www.jctlm.org

Traceability in Laboratory Medicine: Important for Patients

The results from laboratory medicine tests influence a high percentage of all clinical decisions. There are currently about 4000 different analytes (tests) in the global repertoire for laboratory medicine.

Doctors, other users of laboratory medicine services, and patients expect that the laboratory will provide high quality accurate results that will be the same irrespective of which method is used.

This is not always the case. Laboratory medicine methods are often complex in design measuring extremely low concentrations of clinically important biomarkers. These methods are produced by many diagnostics companies around the world. Between-method variability is common and may influence clinical interpretation and clinical outcome.

The Joint Committee for Traceability in Laboratory Medicine (JCTLM) is working with many global partners to reduce between-method variability. The production and adoption of reference materials, reference methods and the establishment of reference laboratories are drivers for accurate patient results.

This website provides resources to illustrate the importance of traceability in laboratory medicine.

[Read More](#)



PUBLICATIONS



RESOURCES



MEETINGS

VISIT JCTLM DATABASE



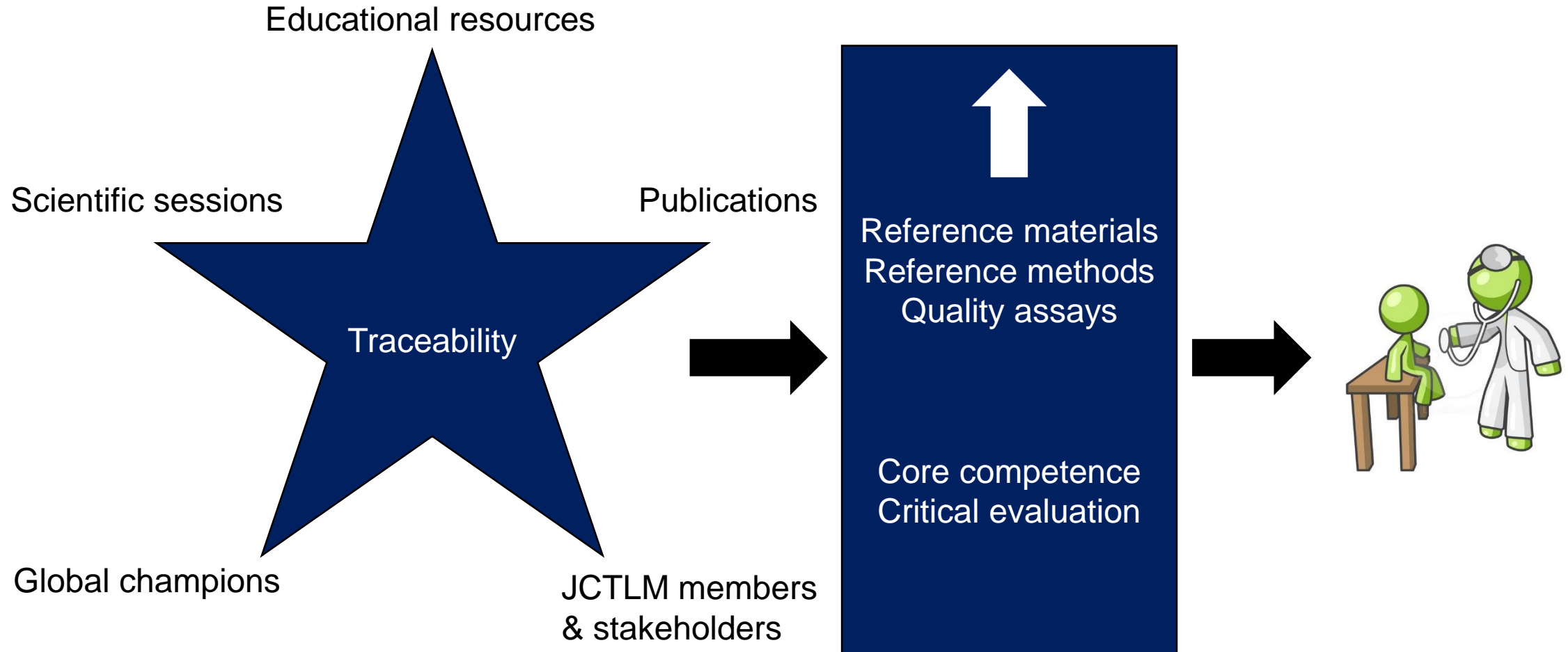
8. New TEP website: www.jctlm.org

- Extensive and growing list of resources:
 - Publications, both general and analyte specific
 - Webinars
 - Scientific presentations
 - Scientific meetings
- All resources are freely available for use
- Regular news updates
- Forms to apply for JCTLM membership and JCTLM auspices
- Direct access to JCTLM database

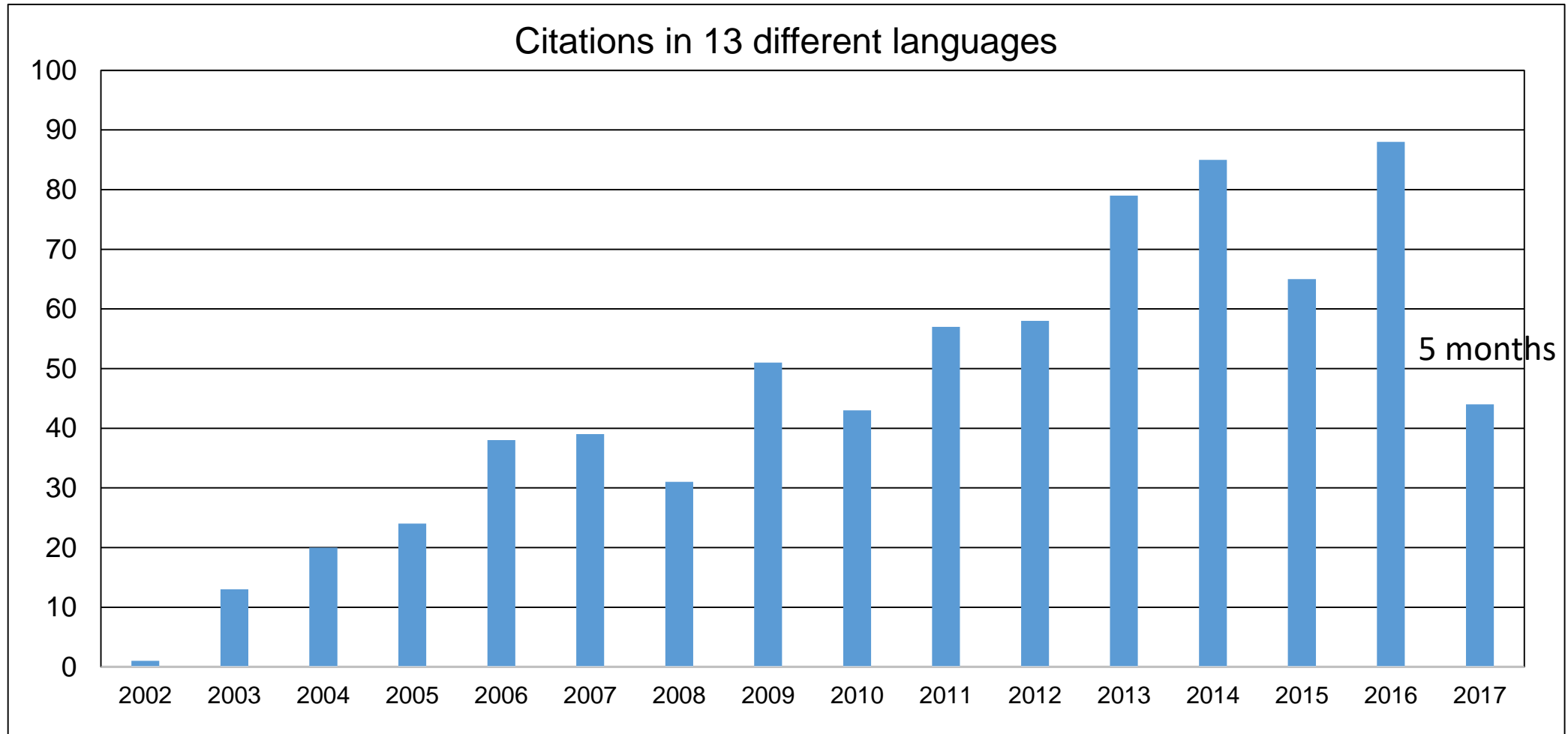
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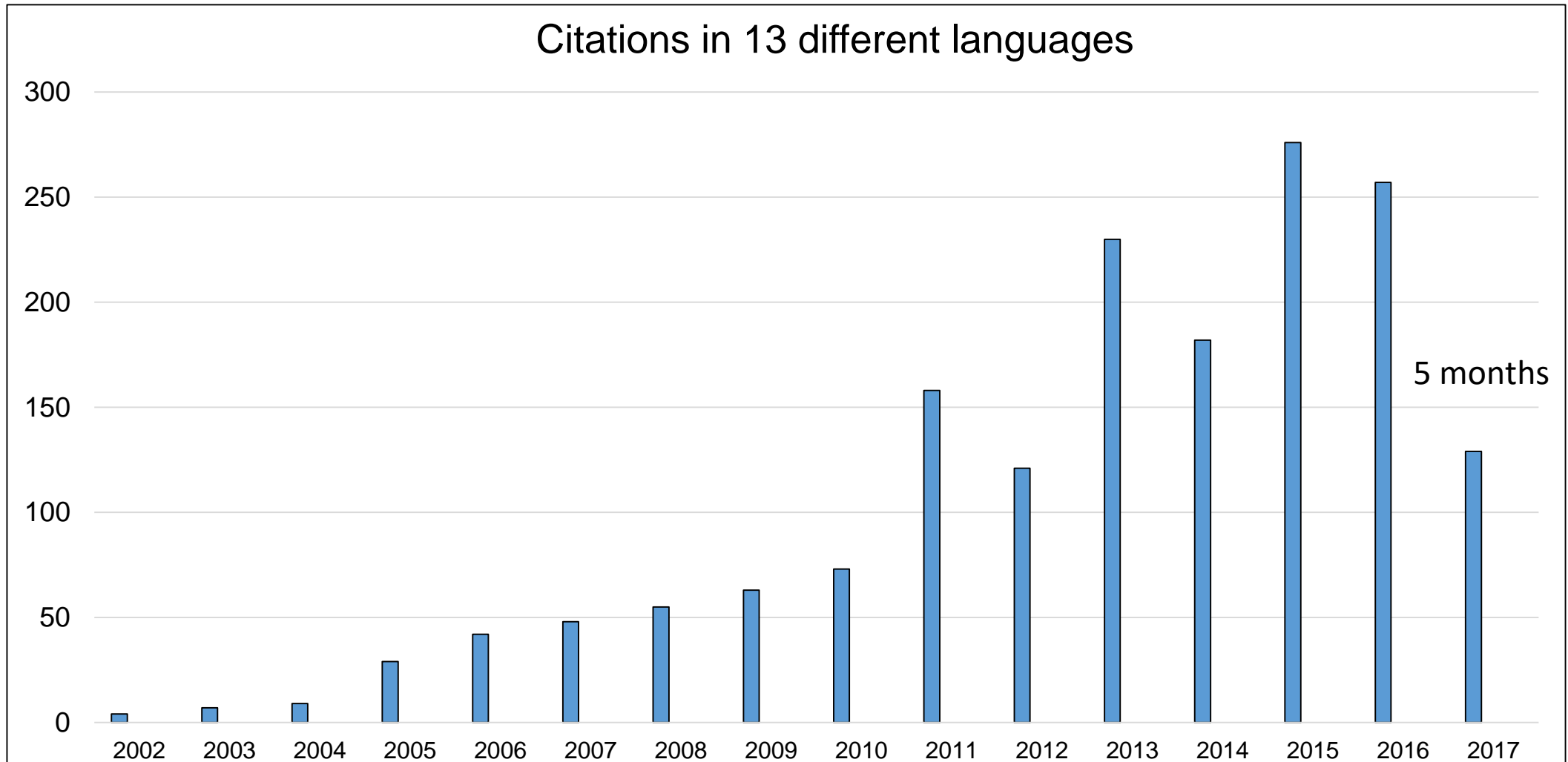
The future of traceability



JCTLM citations: Google Scholar



'Traceability in laboratory medicine': Google Scholar



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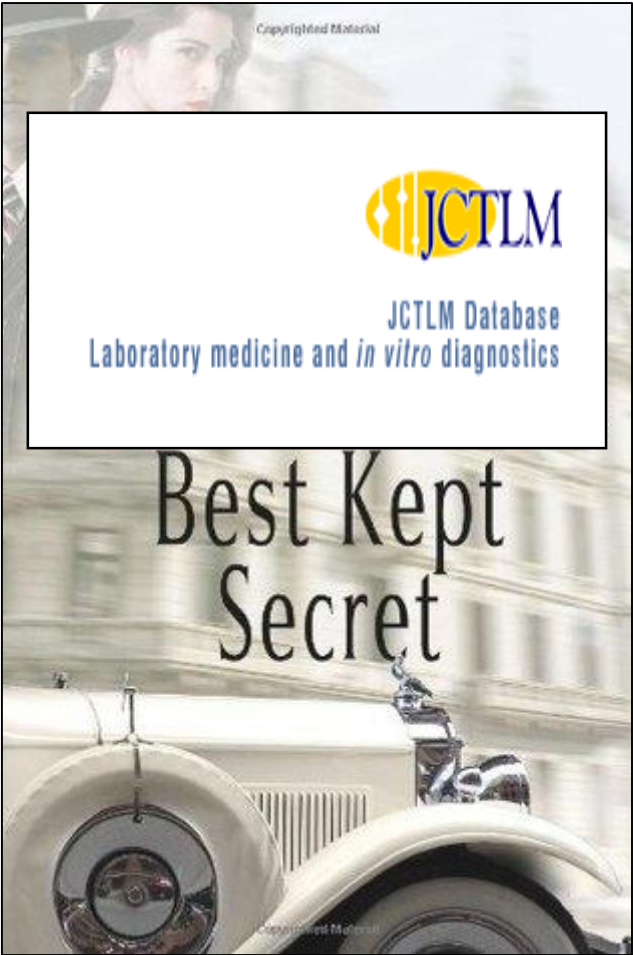
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How can you help to promote traceability?

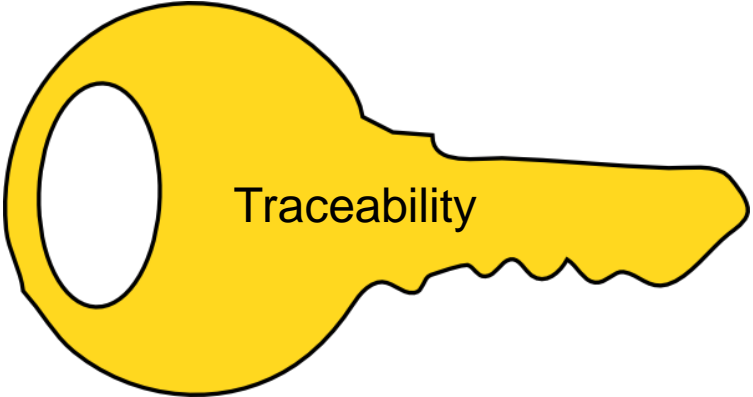
- Check the traceability status of the assays your lab uses
- Visit www.jctlm.org and use whatever resources you wish
- Make suggestions of new resources you would like to see
- Incorporate a session on traceability in laboratory medicine into the training of laboratory medicine specialists in your country
- Consider having a symposium on traceability in your national conference, and requesting JCTLM auspices
- Suggest that your national society / company becomes a JCTLM member – no fee involved!



The challenge



2014



The key to reducing between method variability in laboratory medicine

2020