Accurate Results for Patient Care Workshop 2017
A JCTLM Members' and Stakeholders' Meeting

Poster session

Monday 4 December 2017

JCTLM
Accurate results
for patient care

P-1: Comparison of human serum 17β-estradiol quantification using the ID-LC-MS/MS assay with the chemiluminescent immunoassays

Dr Qiaoxuan Zhang, Guangdong Provincial Hospital of Chinese Medicine (GPHCM), China

P-2: Measurement of 17- hydroxyprogesterone and cortisol in dried blood spot by liquid chromatography-tandem mass spectrometry as a candidate confirmatory test for congenital adrenal hyperplasia

Dr Liqiao Han, Guangdong Provincial Hospital of Chinese Medicine (GPHCM), China

P-3: Standardization of Anti-Mullerian Hormone immunoassays – Development of a mass-assigned standard for a complex protein

Dr Gail Whiting, National Institute for Biological standards and Control (NIBSC), United Kingdom

P-4: Establishment of the reference method and implementation of the traceability for HbA1c in human blood

Prof. Junqing Wang, Maccura Biotechnology Co., Ltd., China

P-5: Standardization and improvement program for creatinine measurement in human serum

Dr Hugo Gasca-Aragon, Centro Nacional de Metrología (CENAM), Mexico

P-6: Vitamin D metabolite measurement service at NIST: past, present and future

Dr Carolyn Burdette, National Institute of Standards and Technology (NIST), United States of America

P-7: MicroRNAs analysis to monitor Alzheimer disease by minimally invasive methods based on digital PCR: preliminary results of the NeuroMET project

Dr Carla Divieto, Istituto di Ricerca Metrologica (INRIM), Italy

P-8: Diagnosis of metrological traceability of chain 1 in a group of clinical laboratories in Colombia

Dr Aìda Porras-Caicedo, Quik, Colombia

P-9: Refining the interpretation of ferritin in the diagnosis of iron deficiency

Prof. Paul Yip, University Health Network (UHN), Canada

P-10: Data mining of sequential patient data streams can demonstrate inadequacy of calibration in blood gas analyzers

Prof. George Cembrowski, Department of Laboratory Medicine and Pathology, University of Alberta, Canada

Programme

Day 1: Monday 4 December: Traceability in Action

• Welcome and introduction	James McLaren (CIPM)
Session 1: JCTLM update.	Chair: Gary Myers (JCTLM Chair)
• **Report from Chair of Executive Committee**	
Structure and organization	Gary Myers (JCTLM Chair)
The JCTLM database: developments and status	Robert Wielgosz (BIPM)
• **Traceability, education and promotion**	
Definitions	Robert Wielgosz (BIPM)
Resources to explain scientific concepts	Elvar Theodorsson (Eurachem)
Meetings, publicity and promotion	Graham Beastall (IFCC)
• **Discussion**	
Session 2: Keynote Lecture.	Chair: Regina Robertson (ILAC)
• **Why traceability matters to patients?**	Graham Jones (ILAC)
• **Discussion**	
Session 3: Traceability in external quality assessment.	Chair: Tony Badrick (RCPAQAP)
• **Why traceability is important to EQA providers?**	Piet Meijer (EQALM)
• **How we ensure traceability in EQA and stress its importance to users**	
WEQAS (Wales External Quality Assessment Scheme)	David Ducroq (WEQAS)
ProgBA (Buenos Aires External Quality Assessment Scheme)	Silvia Quiroga (ProgBA)
RCPAQAP (RCPA Quality Assurance Programs)	Tony Badrick (RCPAQAP)
• **International EQA surveys for calibration laboratories**	Anja Kessler (RfB)
• **Plenary discussion**	
Session 4: Traceability and the IVD Industry: the manufacturer's role.	Chair: David Armbruster
• **Overview of importance to the IVD industry**	David Armbruster
• **ISO 17511:2003 - Traceability of values assigned to IVD calibrators and controls: a progress report on revisions underway in ISO/TC212**	Neil Greenberg (Convenor, ISO/TC212/WG2)
• **IVD Regulation implications**	tbd
• **Plenary discussion**	

Day 2: Tuesday 5 December: Traceability into the Future

Session 5a: Clinical Challenge – Biomarkers in neurodegenerative disease.	Chair: Graham Beastall (IFCC)
• **Potential clinical applications of biomarkers of neurodegenerative disease**	Sergio Bernardini (University of Rome Tor Vergata)
• **Preanalytical and analytical aspects of CSF biomarker assays**	Armand Perret-Liaudet (Lyon University Hospital)
• **Reference method for b-amyloid in CSF**	Josef Pannee (Inst. of Neuroscience & Physiology, Sweden)
• **Role of metals and metal containing biomolecules in neurodegenerative diseases such as Alzheimer's disease**	Claudia Swart (PTB)
Session 5b: Clinical Challenge – Biomarkers in neurodegenerative disease.	Chair: Graham Beastall (IFCC)
• **The EMPIR project NeuroMET: metrology for improved diagnosis and management of neurodegenerative diseases**	Milena Quaglia (LGC)
• **LCMS methods and traceability of CSF biomarker measurements**	Chiara Giangrande (LNE)
• **Plenary discussion**	
Session 6a: Future developments in laboratory medicine and the implications for traceability.	Chair: Elvar Theodorsson
Infectious diseases	
• **Application of dPCR for reference measurements in infectious disease diagnostics and anti-microbial resistance monitoring**	Jim Huggett (LGC)
• **EQAs in microbiology and standardization of MRSA testing**	Parviz Ahmad-Nejad (HELIOS Universitätsklinikum Wuppertal)
• **Quantitative measurement and imaging of drug-uptake by bacteria with antimicrobial resistance (EMPIR project "MetVBadBugs")**	Paulina Rakowska (NPL)
• **New developments in the Standardization of Gene Amplification Techniques (SoGAT)**	Neil Almond (NIBSC)
Session 6b: Future developments in laboratory medicine and the implications for traceability.	Chair: Elvar Theodorsson
Traceability and the future of laboratory medicine: a global perspective	
• **The National infrastructure for Traceability in Laboratory Medicine in China**	Hongmei Li (NIM)
• **"Standardization of multiple serum apolipoproteins using bottom-up quantitative proteomics" on behalf of the IFCC Scientific Division WG-APO MS**	Christa Cobbaert (Leiden University Medical Centre)
• **HbA1c measurement by IDMS – current situation and future development**	Qinde Liu (HSA)
• **Certified reference materials for ensuring traceability: From experience with steroids and peptides**	Akiko Takatsu (NMIJ)
• **Certified Reference Materials for Prenatal Genetic Testing**	Ji-Seon Jeong (KRISS)
• **Providing traceability for protein biomarkers**	Karen Phinney (NIST)
• **Challenges of Implementing JCTLM methods in the routine Clinical Laboratories**	Ravinder Singh (Mayo Clinic)
Session 7: Responding to the future of traceability.	Chair Gary Myers
• Plenary discussion	