5TH EFLM CONFERENCE ON PREANALYTICAL PHASE
Preanalytical challenges - time for solutions

DATE
22-23 March 2019

VENUE
THE WESTIN ZAGREB
Ul. Izidora Kršnjavog 1, 10000, Zagreb, Croatia

CHAIR
Ana-Maria Simundic

www.preanalytical-phase.org
CHAIRS and SPEAKERS

Fay Betsuo  Department of Biorefinery, Integrated Biobank of Luxembourg (IBBL), Luxembourg
Janne Cadamuro  Department of Laboratory Medicine, Paracelsus Medical University, Salzburg, Austria
Michael P. Cornes  Clinical Chemistry Department, Royal Wolverhampton NHS Trust, Wolverhampton, UK
Michael Fleischhacker  Universitätsklinik u. Poliklinik für Innere Medizin I Mol. Biol. Labor der Abteilung Pneumologie, Halle/Saale, Germany
Palle Fruekilde  Department of Clinical Biochemistry and Pharmacology, Odense University Hospital, Denmark
João Tiago Guimarães  Clinical Pathology and Biochemistry Dept. Hospital de São João, Porto, Portugal
Mercedes Ibarz  Laboratory Medicine, University Hospital Arnau de Vilanova, Lleida, Spain
Giuseppe Lippi  Section of Clinical Biochemistry, University of Verona, Italy
Steve McManus  Royal Berkshire Hospitals NHS Foundation Trust, Reading, UK
Michael Neumaier  Univ. Med. Mannheim, Heidelberg University, Inst. for Clinical Chemistry, Mannheim, Germany
Mads Nybo  Department of Clinical Biochemistry and Pharmacology, Odense University Hospital, Denmark
Andrea Padoan  Department of Medicine-DIMED, University of Padova, Italy
Mario Plebani  Department of Laboratory Medicine, University-Hospital of Padova, Italy
Kathrin Schlueter  BD Life Sciences, Preanalytical Systems, Heidelberg, Germany
Laura Sciacovelli  Department of Laboratory Medicine, University-Hospital of Padova, Italy
Ana-Maria Simundic  Department of Medical Laboratory Diagnostics, University Hospital Sveti Duh, Zagreb, Croatia
Pieter Vermeersch  Clinical Department of Laboratory Medicine, University Hospitals Leuven, Belgium
Alexander von Meyer  Inst. for Lab. Medicine, Kliniken Nordoberpfalz AG and Klinikum St. Marien, Weiden and Amberg, Germany

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Scientific Programme
FRIDAY, 22 MARCH, 2019

OPENING SESSION

08:45 - 09:05 Introductory note – EFLM Walter Guder award ceremony
Ana-Maria Simundic

09:05 - 09:15 Welcome address on behalf of EFLM
Michael Neumaier, EFLM President

09:15 - 09:45 Opening Lecture
Next Generation Preanalytics: biomolecular quality and IT approaches
Michael Neumaier

09:45 - 10:30 Coffee Break

Session: How technology can improve preanalytical phase?
Chairs: Giuseppe Lippi and Ana-Maria Simundic

10:30 - 11:00 Preanalytical challenges in laboratory automation
Mads Nybo

11:00 - 11:30 The importance of knowing the exact sampling time and ways to measure it
Alexander von Meyer

11:30 - 12:00 How technology can assist in managing inappropriate utilization of laboratory resources?
Janne Cadamuro

12:00 - 12:15 Selected Preanalytical cases (3 cases, 5 mins each)
• When clot detection goes wrong: consequences and countermeasures for complete blood counts, Glynis Frans
• Hormones affected by jet-lag: A case report, Merve Sibel Gungoren
• Identification error detected by the software of a fully-automated hematologic analyser, Gian Luca Salvagno

12:15 - 13:30 Lunch
Session: Preanalytical phase - away from routine chemistry laboratory
Chairs: Alexander von Meyer and Michael Cornes

13:30 - 14:00 Preanalytical requirements in hematology
Giuseppe Lippi

14:00 - 14:30 Preanalytical issues in feces analysis
Andrea Padoan

14:30 - 15:00 Preanalytical issues in CSF analysis
João Tiago Guimarães

15:00 - 15:15 Selected Preanalytical cases (3 cases, 5 mins each)
• Preanalytical cases in cerebrospinal fluid analysis, Pavel Broz
• Rotatoria worm as an exogenous contaminant of urine sample, Lidija Gobec
• Testosterone abuse as a source of preanalytical variation of parameters in 24-hour urine - a case report, Dora Vuljanić

15:15 - 16:00 Coffee break

Session: Back to basics
Chairs: João Tiago Guimarães and Janne Cadamuro

16:00 - 16:30 WG-PRE recommendations for managing hemolyzed samples
Ana-Maria Simundic

16:30 - 17:00 Sample stability
Michael Cornes

17:00 - 17:30 How to meet ISO 15189 preanalytical requirements?
Pieter Vermeersch

17:30 - 17:45 Selected Preanalytical cases (3 cases, 5 mins each)
• Flushing of an intravenous catheter: a cause for unreliable laboratory results, Rutger Hengeveld
• A sudden rise in clot errors for routine coagulation testing on a Saturday morning, Bas Calcoen
• Spuriously low sodium and calcium in a 36 year old male in primary care, Sean Costelloe
Scientific Programme

SATURDAY, 23 MARCH, 2019

Session: Preanalytical phase and patient safety
Chairs: Mads Nybo and Mercedes Ibarz

09:00 - 09:30 Preanalytical phase, patient safety and its impact on hospital management
Steve McManus

09:30 - 10:30 Roundtable on Preanalytical quality indicators
Mario Plebani and Laura Sciacovelli

10:30 - 11:15 Coffee break

Session: Preanalytical phase in emerging technologies
Chairs: Kathrin Schlueter and Pieter Vermeersch

11:15 - 11:45 Preanalytical real-world experience with mass spectrometry
Palle Fruekilde

11:45 - 12:15 Standardization of blood draw for liquid profiling – still an issue?
Michael Fleischhacker

12:15 - 12:45 Managing preanalytical variables in Bio banking
Fay Betsuo

12:45 - 13:00 Selected Preanalytical cases (3 cases, 5 mins each)
• Sample pre-warming before analysis reduces spurious IgM and monoclonal protein (MC) results, Pak Cheung Chan
• Dealing with interferences caused by M-protein, Ana Dojder
• Case Report of a Phantom Phaeochromocytoma, Sean Costelloe

13:00 - 13:15 Concluding remarks – Poster Awards
Ana-Maria Simundic
**Posters**

**TOPIC 1 - PREANALYTICAL CASES**

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**P002**  
E. Fliser, B. Jevšnikar, M. Gorenjak  
**Preanalytical case report - Unexpected change of patient identification in LIS**

**P003**  
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**Preanalytical cases in cerebrospinal fluid analysis**

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**Rotatoria worm as an exogenous contaminant of urine sample**

**P005**  
**Flushing of an intravenous catheter: a cause for unreliable laboratory results**

**P006**  
H. Bock, F. Bühling  
**Secondary MGUS or Interference?**

**P007**  
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**A sudden rise in clot errors for routine coagulation testing on a Saturday morning**

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**When clot detection goes wrong: consequences and countermeasures for complete blood counts**

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**Hormones affected by jet-lag: A case report**

**P011**  
P. Eker  
**How does the identification error occur during the requesting of the laboratory tests? A case report from pediatry clinic.**

**P012**  
P. Eker  
**A case report of identification errors for two patients with same names and same ages**

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**Preanalytical Errors in Clinical Laboratory: 3 case reports**

**P014**  
D. Vuljanić, V. Radišić Biljak, E. Galić, AM. Šimundić  
**Testosterone abuse as a source of preanalytical variation of parameters in 24-hour urine - a case report**

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**Identification error detected by the software of a fully-automated hematologic analyzer**

**P017**  
**Dealing with interferences caused by M-protein**
Patient identification error. A particular case

Spuriously low sodium and calcium in a 36 year old male in primary care

Case report of a Phantom Phaeochromocytoma

Three uncommon cases of preanalytical problems in the clinical laboratory of the faculty hospital

Comparison of clinical biochemistry tests with Li-heparin (Barricor™) and gel tubes

Assessing erythocyte sedimentation rate in whole blood anticoagulated with sodium citrate or K2EDTA

Plasma sample quality: comparison between Barricor® and BD lithium heparin

Preanalytical considerations of urine troponin I analysis - a case report

The implementation of the BD Barricor® and the effects on TAT and laboratory results: the experience of an oncology ward

Frequency of latent fibrin in centrifuged serum specimens

Comparison of two serum collection tubes for thyroid autoantibodies determination

EDTA Contamination: Old foe but still not resolved in the laboratory

Comparison of blood collection tubes for routine chemistry analytes

A change in coagulation tubes: impact in sample quality

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