Pre-Congress
Tuesday 26 May 2015
CONTINUING EDUCATION IN CLINICAL TOXICOLOGY:
PRE-CONGRESS SYMPOSIUM

Pharmacology for toxicologists

09.00 Keynote lecture: Dose-effect relationships (including idiosyncratic reactions)

Stephan Krähenbühl
Clinical Pharmacology & Toxicology, University Hospital, Basle, Switzerland

At the end of this session the audience should be able to:
• describe a dose-effect and dose-toxicity relationship
• estimate the therapeutic range of a given drug
• define intrinsic and idiosyncratic toxicants

09.30 Keynote lecture: Kinetics: Absorption - different routes and their specificities

Evangelia Liakoni
Clinical Pharmacology & Toxicology, University Hospital, Basle, Switzerland

At the end of this session the audience should be able to:
• describe the characteristics of different administration routes (oral, intravenous, inhalation, transdermal, etc.)
• anticipate the influence of physicochemical properties of a drug on its absorption from different sites of administration
• understand how oral bioavailability (absorption and first-pass effect) are influenced by drug-drug interactions in pharmacology and toxicology

10.00 Keynote lecture: Role of transporters in drug disposition: Drug-drug interactions and decisional trees

Xavier Decleves
Department of Pharmaceutical Sciences, Inserm UMR-S1144 at University Paris Descartes, Paris, France

At the end of this session the audience should be able to:
• identify the main transporters expressed in human tissues involved in drug disposition (intestine, liver, kidneys, brain barriers)
• recognize significant clinical drug-drug interactions mediated by human drug transporters
• describe FDA and EMA guidelines regarding drug-drug interactions for a new medicine compound that interact with drug transporters and be able to use decisional trees

10.30 - 11.00 Coffee
11.00 Keynote lecture: Metabolism: Phase I and phase II enzymes including polymorphism

Gesche Jürgens
Unit of Clinical Pharmacology, Roskilde University Hospital, Roskilde, Denmark

At the end of this session the audience should be able to:
- explain the underlying mechanisms of phase I and II metabolism
- discuss the most important enzymes involved in phase I and II metabolism
- describe possible clinical and toxicological consequences of genetic polymorphism of drug metabolizing enzymes

11.30 Keynote lecture: Elimination: Renal clearance, enterohepatic circulation

Darren M Roberts
Drug Health Clinical Services, Royal Prince Alfred Hospital, Sydney, Australia

At the end of this session the audience should be able to:
- describe normal physiological processes that influence the excretion of xenobiotics and their metabolites
- discuss the influence of impaired kidney and biliary function on the disposition of xenobiotics and their metabolites
- list examples of therapeutic interventions that influence xenobiotic excretion in the poisoned patient

12.00 Keynote lecture: Modelling dose-concentration-response (1)

Ursula Gundert-Remy
Institute for Clinical Pharmacology and Toxicology, Charité Medical School, Berlin, Germany

At the end of this session the audience should be able to:
- recognize the difference between pharmaco-/toxicokinetics and -dynamics and understand how the two interact
- discuss the different approaches in modelling kinetics and dynamics of xenobiotics
- explain how to interpret data on dose-concentration-response data and how to use them in risk assessment

12.30 - 14.00 Lunch
14.00 Keynote lecture: Development of tolerance

Peter De Paepe\textsuperscript{1,2}

\textit{Department of Emergency Medicine, Ghent University Hospital, Ghent, Belgium; 2 Heymans Institute of Pharmacology, Ghent University, Ghent, Belgium}

At the end of this session the audience should be able to:
- summarize the basic principles of tolerance development
- explain the principles of addiction, dependence and withdrawal
- recognize the clinical consequences of tolerance

14.30 Keynote lecture: How to report on drug-drug interactions (checklist)

Philip A Routledge

\textit{Institute of Molecular and Experimental Medicine, Cardiff University, Cardiff, UK}

At the end of this session the audience should be able to:
- explain the major mechanisms underlying drug-drug interactions (DDIs)
- describe the European regulatory framework for investigation of possible DDIs
- list the main components of a checklist for the development of DDI management guidelines

15.00 Keynote lecture: EXTRIP - Practical considerations in performing kinetics during extracorporeal treatments

Marc Ghannoun

\textit{Nephrology Department at Verdun Hospital, University of Montreal, Montreal, Canada}

At the end of this session the audience should be able to:
- describe how to perform appropriate measurements during extracorporeal treatments
- use appropriate kinetic calculations for determination of dialyzability
- recognize common pitfalls in performing kinetic studies during extracorporeal treatments

\underline{15.30 - 16.00 Coffee}
Interactive case studies

16.00 Case 1 - Can the genotype help to identify the vulnerable poisoned patient?

Kim Dalhoff
Department of Clinical Pharmacology, Bispebjerg University Hospital, Copenhagen, Denmark

16.30 Case 2 - Life is not a Long Quiet River

Bruno Mégarbane
1INSERM U1144, Paris-Descartes University, Paris, France; 2 Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, Paris, France

17.00 Case 3 - Response to antivitamine K oral anticoagulants: how to manage the outliers?

Marie-Anne Loriot
INSERM UMR-S 1147, Université Paris Descartes, Paris, France

At the end of this session the audience should be able to:

- identify genotypes which may be relevant in the evaluation of the poisoned patient
- investigate drug-drug interactions to explain poisoning severity
- discuss the source of interindividual variability in VKA response and explain the genetic basis of this variability

17.30 Close
Main Congress
Wednesday 27 to Friday 29 May 2015

Current to date: 17 March 2015
Symposium: Toxic deaths

08.35  PLENARY LECTURE
Anthropology and forensic toxicology: how to revisit our history?  
Philippe Charlier  
Section of Medical and Forensic Pathology, UVSQ, Montigny-le-Bretonneux, France

At the end of this session the audience should be able to:
- explain the usefulness of archeo-anthropological samples for enhancing and validation of toxicological analyses for forensic purposes
- summarize why well-documented cases are of great interest for establishing objective data for history of diseases and medico-surgical practices
- list reasons why inter-disciplinarity is an obligation for such retrospective diagnoses and individual identification processes

09.20  Keynote lecture: Epidemiology of fatal poisonings: National Poison Data System (NPDS) data 2000-2014 (2)  
Alvin C Bronstein¹,²  
¹Department of Emergency Medicine, University of Colorado School of Medicine, Denver, USA; ²Rocky Mountain Poison Center, Denver Health, Denver, USA

At the end of this session the audience should be able to:
- list three categories of the NPDS Relative Contribution to Fatality (RFC) Rating Scale
- explain the difference between poisoning-related death and fatality
- describe NPDS fatality case volume trends over time from 2000-2014

09.40  Keynote lecture: Toxic murder 2000-2014 (3)  
Robin E Ferner  
West Midlands Centre for Adverse Drug Reactions and University of Birmingham, Birmingham, UK

At the end of this session the audience should be able to:
- recognize the wide range of poisons that has been used in the last fifteen years in murder or attempted murder
- discuss the difficulties of clinical and laboratory diagnosis of poisoning
- discuss whether systematic reporting would be desirable

10.00 – 10.30 Coffee and Posters
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<tr>
<th>Time</th>
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<tr>
<td>08.30</td>
<td>Welcome and PLENARY LECTURE (Auditorium I)</td>
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<tr>
<td>09.20</td>
<td>Anthropology and forensic toxicology: how to revisit our history?</td>
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Symposium: Toxicology in specific populations

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<tr>
<td>09.20</td>
<td><strong>Keynote lecture: Pregnancy and lactation</strong></td>
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<td>Laura Yates, Regional Drug and Therapeutics Centre, UK</td>
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<td><strong>Teratology Information Service, Newcastle upon Tyne, UK</strong></td>
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<td>• identify the risks to both mother and child of acute or chronic</td>
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<td>poisoned pregnant or lactating patient</td>
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<td>• recognize and identify relevant specialist teratology and/or</td>
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<td>09.40</td>
<td><strong>Keynote lecture: The challenge of obesity in toxicology</strong></td>
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<td>Celia Lloret-Linares, INSERM U1144</td>
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<td>**Variabilité de réponse aux psychotropes, Université Paris</td>
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<td>At the end of this session the audience should be able to:</td>
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<td>• discuss the many physiological changes affecting drug</td>
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<td>• identify the predictors of poor prognosis in obese patients</td>
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10.00 10.30 Coffee and Posters
Symposium: Toxic deaths † Part 2

10.30  Keynote lecture: Toxic deaths: Facts and follies of forensic medicine (4)  
Michael G Holland  
Department of Emergency Medicine, SUNY Upstate Medical University, Syracuse, USA

At the end of this session the audience should be able to:
- describe the phenomenon of post-mortem redistribution (PMR) and what factors of an individual case make it likely that the forensic toxicology laboratory values can be explained by PMR
- list the major factors that influence the accuracy and reliability of a blood alcohol concentration (BAC) value, and how adjunctive specimens can aid in interpretation
- explain how the presence of specific short-lived analytes may implicate a particular drug as being the cause of death, even from a heart blood specimen

10.50  A simple prognostic model for predicting mortality in acute aluminium phosphide poisoning (5)  
Ashish K Bhalla, Laxman Jhuria, Navneet Sharma, Susheel Kumar, Surjit Singh  
Post Graduate Institute of Medical Education and Research, Chandigarh, India

11.05  Clinical characteristics of fatal salicylate poisonings (6)  
Helena L Frischtak1, Joshua D King1,2,3, J Priyanka Vakkalanka1,2, Christopher P Holstege1,2  
1School of Medicine, University of Virginia, Charlottesville, USA; 2 Division of Medical Toxicology, University of Virginia, Charlottesville, USA; 3 Division of Nephrology, University of Virginia, Charlottesville, USA

11.20  Clinical risk factors in Emergency Department (ED) patients with prescription opioid overdose (7)  
Lindsay Fox1, Robert S Hoffman2, David Vlahov3, Alex F Manini4  
1Emergency Medicine Residency, the Icahn School of Medicine at Mount Sinai, New York, USA; 2Division of Medical Toxicology, NYU School of Medicine, New York, NY, USA.; 3Office of the Dean, UCSF School of Nursing, San Francisco, USA; 4Division of Medical Toxicology, the Icahn School of Medicine at Mount Sinai, New York, USA

11.35  GENERAL DISCUSSION

11.45  Debate: Should RCT be the standard for clinical toxicology?  
Pro: Nick Bateman; Con: Jeffrey Brent

At the end of this session the audience should be able to:
- understand the advantages of a randomized clinical trial in studying treatment of poisoning (Bateman)
- discuss the pros and cons of observational studies in clinical toxicology (Brent)
- discuss the pros and cons of randomized trials in clinical toxicology (Brent)

12.30 ÷ 14.00 Lunch and Posters
Symposium: Toxicology in specific populations ï Part 2

10.30 Keynote lecture: Bariatric surgery: Implications for clinical toxicology

Marc E Martignoni
Department of Surgery, Klinikum rechts der Isar, Munich, Germany

At the end of this session the audience should be able to:
• describe the indications and procedures in surgery for obese patients
• discuss how surgery in obese patients may influence the diabetic status of the patient
• discuss physiological changes in these patients and how these changes may have an impact in pharmacological/toxicological treatment

10.50 Keynote lecture: Toxicity at therapeutic doses versus acute poisoning: Clinical and pathophysiologicial differences

Florian Eyer
Department of Toxicology, Klinikum rechts der Isar, Munich, Germany

At the end of this session the audience should be able to:
• recognize the principal mechanisms that may lead to toxicity despite treatment at therapeutic doses
• describe examples of typical drugs that are particularly susceptible to develop toxicity under treatment
• summarize the principal methods to prevent and identify adverse drug reactions even under therapeutic doses
• describe typical drug-drug interactions that may lead to toxicity of at least one involved agent

11.10 *Analysis of enquiries about antiretroviral therapy (ART) involving neonates, as reported to the UK National Poisons Information Service (NPIS) (109)

Rebecca ML Waugh¹, Muhammad EMO Elam¹, Lucy C Peart¹, J Allister Vale², John P Thompson³, Michael Eddleston⁴, Simon HL Thomas¹
¹NPIS Newcastle, Newcastle upon Tyne, UK ; ²NPIS Birmingham, Birmingham, UK ; ³NPIS Cardiff, Cardiff, UK ; ⁴NPIS Edinburgh, Edinburgh, UK

11.20 GENERAL DISCUSSION

*Short poster oral
Mini symposium: Snake poisoning

11.30 Immunological cross-reactivity and pre-clinical neutralisation of European viper venoms with ViperaTAb antivenom (8)
Nicholas R Casewell, Ibrahim Al-Abdulla, David Smith, Ruth Coxon, John Landon
MicroPharm Limited, Newcastle Emlyn, UK

11.45 Australian elapid envenoming and intracranial haemorrhage (9)
Ingrid Berlin1, Simon GA Brown2, Ferdi Miteff3, Christopher Levi3, Geoffrey K Isbister1
1School of Medicine and Public Health, University of Newcastle, Newcastle, Australia; 2Centre for Clinical Research in Emergency Medicine, University of Western Australia, Perth, Australia; 3Department of Neurology, John Hunter Hospital, Newcastle, Australia

12.00 *A multicentre cohort study of snake envenoming defines clinical syndromes and influences clinical practice (95)
Geoffrey K Isbister1,2, Nicholas A Buckley2, Colin B Page1,3, Simon GA Brown4
1School of Medicine and Public Health, University of Newcastle, Newcastle, Australia; 2Clinical Pharmacology, Sydney Medical School, Sydney, Australia; 3School of Medicine, University of Queensland, Brisbane, Australia; 4Centre for Clinical Research in Emergency Medicine, University of Western Australia, Perth, Australia

12.10 *Viper envenomation in Italy: Clinical course, laboratory investigations and antivenom treatment in a case series (2002-2012) from Pavia Poison Centre (97)
Andrea Giampreti, Gianluca Melatini, Davide Lonati, Sarah Vecchio, Valeria M Petrolini, Francesca Chiara, Monia Aloise, Marta Crevani, Carlo A Locatelli
Poison Control Centre and National Toxicology Information Centre, Toxicology Unit, IRCCS Maugeri Foundation, Pavia, Italy

12.20 GENERAL DISCUSSION

12.30 ÷ 14.00 Lunch and Posters

*Short poster oral
### LOUIS ROCHE LECTURE

**Using routinely collected data to improve visibility and add value to the work of poisons centres in Europe**

**Simon HL Thomas**  
*NPIS, Newcastle upon Tyne Hospitals NHS Foundation Trust, Newcastle upon Tyne, UK*

At the end of this session the audience should be able to:
- explain the public health value of data collected routinely by poisons centres
- describe methods for the effective dissemination of poisons centre data
- give examples where the use of poisons centre data has had a beneficial public health impact
- predict emerging opportunities for the effective use of poisons centre data in Europe

### Symposium: Veterinary toxicology

#### 15.00 Keynote lecture: Veterinary toxicology: Critical care, lipid therapy and dialysis

**Sophie E Adamantos**  
*Langford Veterinary Services, University of Bristol, Bristol, UK*

At the end of this session the audience should be able to:
- describe the common toxins in dogs and cats amenable to lipid therapy
- describe the common toxins in dogs and cats that may benefit from advanced therapies such as renal support therapies
- describe the limitations of intensive care therapies in dogs and cats compared with people

#### 15.20 Keynote lecture: Development of a new antivenom against Vipera species for use in canines throughout Europe (10)

**Fiona MS Bolton, Nicholas R Casewell, Ibrahim Al-Abdulla, John Landon**  
*MicroPharm Ltd, Newcastle Emlyn, UK*

At the end of this session the audience should be able to:
- recognize the need for the development of a dedicated veterinary antivenom in Europe
- describe the properties of the ideal antivenom and the methods used to demonstrate them
- describe how these criteria were fulfilled during the development of ViperaVet

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**15.40 ÷ 16.10 Coffee and Posters**
Symposium: Antidote availability and toxicity

15.00  Keynote lecture: Antidotes: Urgency, efficacy and availability
       Ana Ferrer Dufol
       Unit of Clinical Toxicology, Clinic University Hospital, Zaragoza, Spain

At the end of this session the audience should be able to:
- discuss the main mechanisms of action of antidotes
- discuss the link between epidemiology of poisoning, urgency of antidote application, antidote effect and availability needs in different health care facilities
- explain how internet tools may be used to set up an efficient antidote network

15.20  Keynote lecture: A National Serum Depot for antivenoms: The set-up and lessons learned (11)
       Marieke A Dijkman¹, Bianca Van den Hurk², Irma De Vries¹
       ¹National Poisons Information Center, University Medical Center, Utrecht, The Netherlands;
       ²National Institute for Public Health and the Environment, Bilthoven, The Netherlands
       Federal Institute for Risk Assessment, Berlin, Germany

At the end of this session the audience should be able to:
- describe the operational structure of an Antivenom Depot organization
- describe how the content of an Antivenom Depot is determined
- discuss the costs involved in establishing and maintaining an Antivenom Depot

15.40  Coffee and Posters
Symposium: Symposium: Veterinary toxicology Part 2

16.10  Keynote lecture: Beneficial liaison between poisons centres and veterinary associations
Sophie E Adamantos
Langford Veterinary Services, University of Bristol, Langford, UK

At the end of this session the audience should be able to:
- recognize the benefits of the concept of One Health in identifying common themes between veterinary and human toxicology
- recognize the specific areas of veterinary expertise that may be able to support poison centres
- recognize the similarities and differences between the risk factors and presentation of poisoning in different species

16.30  Keynote lecture: Species and breed predisposition to toxicants in veterinary toxicology
Alexander Campbell
National Poisons Information Service (Birmingham Unit), City Hospital, Birmingham, UK

At the end of this session the audience should be able to:
- discuss the physiological and pharmacological basis for variations in toxicity between species and breed in veterinary toxicology
- list some common examples of species and breed variation in toxicity encountered in veterinary medicine
- identify strategies for ensuring appropriate breed- and species-specific guidance is developed and provided for veterinary users of poisons centres

16.50  Keynote lecture: What's new in US animal poisons?
Tina A Wismer
ASPCA Animal Poison Control Center, Urbana, USA

At the end of this session the audience should be able to:
- discuss trends seen in the managing of animal toxicoses in the US
- discuss changes in rodenticide poisoning in the US secondary to changes in federal regulations
- discuss changes in the severity and occurrence of marijuana intoxication in pets secondary to state legalization and changing attitudes

17.10  GENERAL DISCUSSION

17.30 CLOSE
Symposium: Antidote availability and toxicity Part 2

16.10 Fomepizole versus ethanol in acute methanol poisoning: A quasi-case-control study (12)

Sergey Zakharov¹, Tomas Navratil¹, Daniela Pelcova¹
¹Toxicological Information Center, General University Hospital and First Faculty of Medicine of Charles University, Prague, Czech Republic; ²Department of Biophysical Chemistry, J. Heyrovský Institute of Physical Chemistry of the AS CR, v.v.i., Prague, Czech Republic

16.30 Clinical findings in patients receiving physostigmine in a toxicologic ICU: A quality and safety assessment study (13)

Stefan Poechacker¹,², Nina Grossmann¹,², Eva Klingbacher¹,², Burkhard Gustorff²
¹Toxicologic ICU, Wilhelminenspital, Wien, Austria; ²Department of Anesthesiology, Intensive Care and Pain Medicine, Wilhelminenspital, Wien, Austria

16.45 Population pharmacokinetics of an Indian F(ab')2 snake antivenom in patients with Russell's viper bite (14)

Geoffrey K Isbister¹,², Kalana Maduwage¹,², Ana Saiao¹, Nicholas A Buckley²,³, Shaluka F Jayamanne²,³, Shahmy Seyed², Fahim Mohamed², Alexandre Mendes², Chandana Abeysinghe², Harindra Karunathilake², Indika Gawarammana², David G Laloo⁶, Janaka H de Silva²,³,⁴
¹School of Medicine and Public Health, University of Newcastle, Newcastle, Australia; ²South Asian Clinical Toxicology Research Collaboration, University of Peradeniya, Peradeniya, Sri Lanka; ³Clinical Pharmacology, Sydney Medical School, Sydney, Australia; ⁴Department of Medicine, University of Kelaniya, Ragama, Sri Lanka; ⁵School of Electrical Engineering and Computer Science, University of Newcastle, Newcastle, Australia; ⁶Clinical Sciences and International Public Health, Liverpool School of Tropical Medicine, Liverpool, UK

17.00 The use of digoxin-specific antibodies in chronic digoxin poisoning (15)

Betty S Chan¹,³,⁴, Margaret O'Leary², Geoffrey Isbister²,³, Nicholas A Buckley³,⁴
¹Clinical Toxicology Unit & Emergency Department, Prince of Wales Hospital, Sydney, Australia; ²School of Medicine and Public Health, University of Newcastle, Newcastle, Australia; ³Clinical Pharmacology, University of Sydney, Sydney, Australia; ⁴New South Wales Poisons Information Centre, Sydney, Australia

17.15 GENERAL DISCUSSION

17.30 CLOSE
Symposium: Critical care in poisonings

09.00  PLENARY LECTURE
Uncommon indications for extracorporeal removal of toxins (129)  
Robert S Hoffman  
Division of Medical Toxicology, NYU School of Medicine, New York, USA  
At the end of this session the audience should be able to:  
• describe the parameters used to evaluate the potential for an unknown or uncommon poison to be removed by extracorporeal therapies  
• explain how to best evaluate the role of extracorporeal therapy in an new or uncommon poisoning  
• discuss the role of extracorporeal toxin removal in hepatotoxic mushroom poisoning, fluoride overdose, manganese toxicity and caffeine poisoning

09.45  Keynote lecture: Poison-induced hyperthermic syndromes: Mechanisms and management  
Philippe Hantson  
Université catholique de Louvain, Cliniques St Luc, Brussels, Belgium  
At the end of this session the audience should be able to:  
• discriminate between the mechanisms leading to drug-induced hyperthermia  
• recognize severity criteria of malignant hyperthermia  
• propose therapeutic strategies for drug-induced life-threatening hyperthermia

10.05  Keynote lecture: Refractoriness of drug-induced hypotension: Prediction and management (130)  
Bruno Mégarbane  
Medical and Toxicological Critical Care Department, Lariboisière Hospital, INSERM U1144 at Paris-Diderot University, Paris, France  
At the end of this session the audience should be able to:  
• discuss how to determine the exact mechanisms of toxic cardiovascular failure  
• discuss how to predict and identify refractoriness to pharmacological treatments of toxic cardiovascular failure  
• describe the aims of ECMO to treat toxin-induced refractory cardiogenic shock

10.25  GENERAL DISCUSSION

10.30 ÷ 11.00 Coffee and Posters
Symposium: Utility of experimental data in poisons information and patient management

09.50  Keynote lecture: New approaches to using mechanistic toxicology data in human health risk assessment

        Martin F Wilks

         Swiss Centre for Applied Human Toxicology, University of Basel, Basel, Switzerland

At the end of this session the audience should be able to:

- explain the current paradigm shift in safety testing away from standard animal experiments towards understanding of toxicity pathways in the context of human exposure
- recognize the differences between mechanism of action, mode of action and adverse outcome pathways and their uses in risk assessment
- describe how emerging concepts such as systems toxicology and the human exposome will change the face of health risk assessment

10.10  Keynote lecture: Translation of toxicological findings from lung cell culture models in clinical toxicology

        Dirk Steinritz

         Institut für Pharmakologie und Toxikologie der Bundeswehr, München, Germany

At the end of this session the audience should be able to:

- discuss existing in vitro lung cell culture models and their use in toxicological and pharmacological experiments
- discuss the advantages but also limitations of these models with regard to the experimental data derived thereof
- discuss ongoing research to improve existing models and techniques in order to meet regulatory requirements

10.30 ÷ 11.00 Coffee and Posters
Symposium: Critical care in poisonings Part 2

11.00 Keynote lecture: Long-term outcome of poisoned patients in the ICU: Determinants and prediction (131)

Dylan W de Lange

National Poison Information Center, University Medical Center, Utrecht, The Netherlands

At the end of this session the audience should be able to:
- recognize that, despite good short-term or hospital outcomes, the long-term outcome of poisoned patients is bad
- recognize that the self-reported health-related quality of life (HRQoL) of surviving patients is poor
- recognize that poisoned patients need better follow up and possibly better care if they have been admitted to the ICU

11.20 Keynote lecture: Management of antidotes during extra-renal therapies

Régis Bédry

Hospital Secured Unit, Pellegrin University Hospital, Bordeaux, France

At the end of this session the audience should be able to:
- name the antidotes that have to be used during extra-renal therapies compared to those which can be stopped during these techniques
- describe for each antidote their pharmacokinetic profile during extra-renal therapies and the consequences of their use
- describe the practical rules for using antidotes during extra-renal therapies

11.40 Keynote lecture: Drug-induced delirium: Features and management

Knut Erik Hovda

The Norwegian CBRNe Centre of Medicine, Oslo University Hospital, Oslo, Norway

At the end of this session the audience should be able to:
- explain the typical features of drug-induced delirium
- describe a strategy for management of drug-induced delirium
- describe features that will commonly increase the susceptibility for drug-induced delirium

12.00 A comparison of vasopressor utility for drug overdose-induced shock (132)

Dalton Cox1, Robert S Hoffman2, Barry Stimmel3, David Vlahov4, Alex F Manini5

1Emergency Medicine Residency, the Icahn School of Medicine at Mount Sinai, New York, USA; 2Division of Medical Toxicology, NYU School of Medicine, New York, USA; 3Cardiology Division, the Icahn School of Medicine at Mount Sinai, New York, USA; 4Office of the Dean, UCSF School of Nursing, San Francisco, USA; Division of Medical Toxicology, the Icahn School of Medicine at Mount Sinai, New York, USA

12.15 GENERAL DISCUSSION

12.30 – 14.00 Lunch and Posters
Symposium: Utility of experimental data in poisons information and patient management ─ Part 2

11.00 Keynote lecture: Targeted approaches in planning of animal studies on organophosphorus compound poisoning to provide valid information for improved therapy

Horst Thiermann
Institut für Pharmakologie und Toxikologie der Bundeswehr, München, Germany

At the end of this session the audience should be able to:
- discuss similarities and differences with regard to metabolizing enzymes, toxicokinetics of poisons and pharmacokinetics of antidotes in various species
- describe the species dependent oxime-induced reactivation of organophosphorus compounds inhibited acetylcholinesterase
- recognize that oxime efficacy and oxime toxicity are different aspects that both have to be considered when extrapolating animal data to human therapy

11.20 Keynote lecture: The central nervous system in poisoning: What can we learn from animal studies?

Pål Aas
Protection and Societal Security Division, Norwegian Defence Research Establishment (FFI), Kjeller, Norway

At the end of this session the audience should be able to:
- discuss the medical treatment of organophosphate poisoning and understand the requirement for several drugs acting at multiple targets
- describe biomedical research using animal models and understand the specific neuropharmacological approaches
- list the neuronal target areas and critical receptors that can be identified through lesion studies and microinfusion studies, respectively

11.40 Keynote lecture: The liver in poisoning. What can we learn from animal models?

Stephan Krähenbühl
Department of Clinical Pharmacology & Toxicology, University Hospital Basel, Basel, Switzerland

At the end of this session the audience should be able to:
- list the main causes of acute intoxications affecting the liver and name examples
- explain the difference in the suitability of animal models for idiosyncratic and intrinsic toxicants
- explain why animal models for acute liver toxicity are useful for exploring molecular mechanisms of, and susceptibility factors for, toxicity and for testing new experimental therapies

12.00 Keynote lecture: The cardiovascular system in poisoning: What can we learn from animal studies?

Sophie Gosselin
Department of Medicine, McGill University, Montreal, Canada

At the end of this session the audience should be able to:
- discuss possible differences in ADME of a toxin between animals and humans
- discuss differences in cardiovascular responses between various animal species and humans
- discuss challenges in generalizing animal models of poisoning to human overdoses

12.20 GENERAL DISCUSSION

12.30 ─ 14.00 Lunch and Posters
Symposium: Critical care in poisonings Part 3

14.00 *How to evaluate the severity of lithium-poisoned patients admitted to the intensive care unit? (149)
   Dominique Vodovar1, Emmanuel Curis2, Souleiman Elbalkhi2,3, Bruno Mégarbane1,2
   1Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, Paris, France; 2INSERM U1144, Paris-Descartes University, Paris, France; 3Laboratory of Toxicology, Lariboisière Hospital, Paris, France

14.10 *Intoxicated ICU patients: Not only high long-term mortality but also high risk for a low quality of life (143)
   Raya Brandenburg1,3, Ivo W Soliman1, Jan Meulenbelt1,3,4, Dylan W de Lange1,2,3
   1Department of Intensive Care Medicine, University Medical Center Utrecht, The Netherlands; 2National Intensive Care Evaluation Foundation, Amsterdam, The Netherlands; 3Dutch National Poisons Information Center, University Medical Center Utrecht, The Netherlands; 4Institute for Risk Assessment Sciences, University of Utrecht, The Netherlands

14.20 *Rapid cooling via ice water submersion for severe drug-induced hyperthermia (137)
   Larissa K Laskowski, Adaira Landry, Susi U Vassallo, Robert S Hoffman
   Department of Emergency Medicine at New York University School of Medicine, Bellevue Hospital Center, New York, USA

14.30 *Multiple intensive care admissions associated with analytically confirmed recreational use of phenibut (β-phenyl-γ-amniobutyric acid) purchased over the Internet (148)
   Anselm Wong1, Mark Little2, David Caldicott3, Chris Easton2, Daniel Andres5, Shaun L Greene1
   1Victorian Poisons Information Centre and Emergency Department, Austin Hospital, Victoria, Australia; 2Cairns Base Hospital, Queensland, Australia; 3Emergency Department, Calvary Hospital, Canberra, Australia; 4Research School of Chemistry, Australia National University, Canberra, Australia; 5ACT Government Analytical Laboratory, Canberra, Australia

14.40 *Air transport of a severe salicylate intoxicated patient: Unforeseen risks (142)
   Rita G McKeever, Gregory S LaSala, David Vearrier, Michael I Greenberg
   Division of Medical Toxicology, Drexel University College of Medicine, Philadelphia, USA

14.50 GENERAL DISCUSSION

14.55 Debate: Should magnesium be systematically used in QT prolongation to prevent torsade de pointe?
   Pro: Jonas Höjer; Con: Donna Seger

At the end of this session the audience should be able to:
- describe how the heart rate affects the risk for torsade de pointes in a poisoned patient with a QTc time of more than 500 ms (Höjer)
- discuss the role magnesium plays in TdP and the lack of value in prophylactic treatment of TdP (Seger)

15.40 – 16.10 Coffee and Posters

*Short poster oral
Mini symposium: Occupational and Environmental exposures

14.00  Markers of oxidative stress and inflammation are more elevated in the exhaled breath condensate of workers exposed to nano-TiO2 than to nano-Fe oxide particles (135)
Daniela Pelclova1, Sergej Zacharov1, Vladimir Zdimal2, Zdenka Fenclova1, Stepanka Vlckova1, Kamila Syslova1, Marek Kuzma3, Tomas Navratil3, Martin Komarc3, Petr Kacer1
1Department of Occupational Medicine, Charles University and General University Hospital, Prague, Czech Republic; 2Institute of Chemical Process Fundamentals, AS CR, v.v.i., Prague, Czech Republic; 3Institute of Chemical Technology, AS CR, v.v.i., Prague, Czech Republic

14.15  Relationship between long-term exposure to ambient air pollution, blood pressure and inflammatory processes among young subjects (136)
Iwona Gawlik, Jakub Marchewka, Krzysztof Bryniarski, Grzegorz Debski, Rafal Badacz, Ida Marchewka, Jakub Konieczynski, Natalia Podolec, Anna Zabowka, Tomasz Guzik
Faculty of Medicine, Jagiellonian University Medical College, Krakow, Poland

Jolene Okaneku, Rita McKeever, David Vearrier, Michael I Greenberg
Department of Emergency Medicine, Drexel University College of Medicine, Philadelphia, USA

14.40  *Serious magic-nano-like lung oedemas caused by a liquid stain protection product: Using two new tests as a combined screening tool for aerosol products (181)
Axel Hahn1, Monika Fischer2, Dorothee Walter2, Clemens Dasenbrock2, Wolfgang Koch2, Kathrin Begemann1, Matthias Greiner1
1Federal Institute for Risk Assessment (BfR), Berlin, Germany; 2Fraunhofer Institute for Toxicology and Experimental Medicine (ITEM), Hannover, Germany

*Short poster oral
Mini symposium: Occupational and Environmental exposures

14.50 *Evaluation of clinical effects after high pressure injection injuries of the hand using 20 years experience of Pavia Poison Centre: A toxicological and surgical emergency (258)
Francesca Chiara, Davide Lonati, Andrea Giampreti, Valeria M Petrolini, Sarah Vecchio, Carlo A Locatelli
Poison Control Centre and National Toxicology Information Centre, Toxicology Unit, IRCCS Maugeri Foundation, Pavia, Italy

15.00 *Carbon monoxide poisoning: Comparison between French and German monitoring systems (186)
Christine Tournoud1, Uwe Stedtler2, Laurent Berthelon1, Maren Hermanns-Clausen2, Ingrid Blanc3, Françoise Flesch1
1Poison and Toxicovigilance Centre, University Hospitals, Strasbourg, France; 2Poisons Information Centre, Children's University Hospital, Freiburg, Germany; 3Poison and Toxicovigilance Centre, Fernand Widal Hospital, Paris, France

15.10 *Acute pulmonary injuries from chlorine-based swimming pool disinfectants in northern Germany (175)
Martin Ebbecke, Rafael Wagner, Herbert Desel, Andreas Schaper
GIZ-Nord Poisons Centre, University Medical Center, Göttingen, Germany

15.20 GENERAL DISCUSSION

15.30 ÷ 16.10 Coffee and Posters

*Short poster oral
Mini symposium: Chemical poisoning: Challenges and Surveillance Methods

16.10 Chemical and biological terrorist attacks identified through the Global Terrorism Database (133)

J Priyanka Vakkalanka, Jennifer L Parker Cote, Rachel Schwartz, Joshua D King, Nathan P Charlton, Christopher P Holstege

Blue Ridge Poison Center, University of Virginia School of Medicine, Charlottesville, USA

16.25 Surveillance of hazardous exposures to liquid laundry detergent capsules in Italy: A preliminary evaluation of the impact of preventive measures (134)

Franca Davanzo¹, Laura Settimi², Anna Celentano¹, Felice Giordano³, Laura Lauria²,
Leonardo Molino¹, Maria Laura Zucconi¹, Beatrice Giliotti¹, Fabrizio Sesana¹

¹National Poison Control Center in Milan, Ospedale Niguarda Cà, Milan, Italy; ²National Institute of Health (ISS), Rome, Italy; ³La Sapienza University, Rome, Italy
Mini symposium: Chemical poisoning: Challenges and Surveillance Methods

16.40  *The European Chemical Emergency Network (ECHEMNET): An EU-level network of experts to respond to cross-border chemical incidents (191)

Charlotte V Hague¹, Rob Orford¹, Herbert Desel², Andreas Schaper², Lisbeth Hall¹, Sally Hoffer¹, Ann Goransson Nyberg¹, Per Leffler¹, Elisabeth Wigenstam¹, Agneta Plamboeck², Jiri Trnka⁴, María del Carmen García Cazalilla⁵, Jesus Ocaña García-Donas⁵, Jose Javier García del Aguila⁴, Raquel Duarte-Davidson¹

¹Centre for Radiation, Chemical and Environmental Hazards, Public Health England, Chilton, UK; ²GIZ-Nord Poisons Centre, University Medical Center Göttingen, Göttingen, Germany; ³National Institute for Public Health and the Environment (RIVM), Advisory Service for the Inspectorate Environment, Bilthoven, The Netherlands; ⁴Swedish Defence Research Agency (FOI), CBRN Defence and Security, Umeå, Sweden; ⁵Empresa Público de Emergencias Sanitarias (EPES), Healthcare Delivery Management Dept, Malaga, Spain

16.50  *Fear of secondary exposure of healthcare personnel can lead to disproportionate measures (195)

Ronald de Groot¹, Antoinette JHP van Riel¹, Gerard A van Zoelen¹, Marianne EC Leenders¹, Irma de Vries¹, Jan Meulenbelt¹

¹National Poisons Information Center, University Medical Center, Utrecht, The Netherlands; ²Department of Anesthesiology, University Medical Center, Utrecht, The Netherlands; ³Institute for Risk Assessment Sciences, Utrecht University, Utrecht, The Netherlands

17.00  Close

17.15 ï 18.15 EAPCCT GENERAL ASSEMBLY (Auditorium II)

*Short poster oral
Poster discussion session
(10 posters selected for short oral presentation)

16.10 Poster presentation and discussion to be confirmed
16.15 Poster presentation and discussion to be confirmed
16.20 Poster presentation and discussion to be confirmed
16.25 Poster presentation and discussion to be confirmed
16.30 Poster presentation and discussion to be confirmed
16.35 Poster presentation and discussion to be confirmed
16.40 Poster presentation and discussion to be confirmed
16.45 Poster presentation and discussion to be confirmed
16.50 Poster presentation and discussion to be confirmed
16.55 Poster presentation and discussion to be confirmed
17.00 Close

17.15 – 18.15 EAPCCT GENERAL ASSEMBLY
### Friday 29 May 2015

**Auditorium I**

#### Young Investigator Award

<table>
<thead>
<tr>
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<tr>
<td>08.30</td>
<td>Introduction to Young Investigator Award</td>
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| 08.35 | Indian Krait (Bungarus caeruleus) envenoming: A clinical and neurophysiological investigation of neuromuscular dysfunction (261)  
  \hspace{1cm} Anjana Silva\textsuperscript{1,2}, Sisira Siribaddana\textsuperscript{2}, E Michael Sedgwick\textsuperscript{3}, Kalana Maduwage\textsuperscript{4}, Nicholas Buckley\textsuperscript{3}, Geoffrey K Isbister\textsuperscript{4}  
  \textsuperscript{1}Monash Venom Group, Monash University, Melbourne, Australia; \textsuperscript{2}Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka, Saliyapura, Sri Lanka; \textsuperscript{3}South Asian Clinical Toxicology Research Collaboration, University of Peradeniya, Peradeniya, Sri Lanka; \textsuperscript{4}School of Medicine and Public Health, University of Newcastle, Newcastle, Australia |
| 08.50 | External validation of the paracetamol-aminotransferase multiplication product to predict hepatotoxicity from paracetamol overdose (262)  
  \hspace{1cm} Anselm Wong\textsuperscript{1}, Marco L Sivilotti\textsuperscript{2}, Paul I Dargan\textsuperscript{3}, David M Wood\textsuperscript{3}, Shaun L Greene\textsuperscript{1}  
  \textsuperscript{1}Victorian Poisons Information Centre and Emergency Department, Austin Hospital, Victoria, Australia; \textsuperscript{2}Pharmacology and Toxicology, Queen\textsuperscript{c} University, Kingston, Canada.; \textsuperscript{3}Clinical Toxicology, Guy\textsuperscript{c} and St Thomas\textsuperscript{c} NHS Foundation Trust and Kings Health Partners, London, UK |
| 09.05 | Do benzodiazepines worsen tramadol toxicity? An experimental study in the rat (263)  
  \hspace{1cm} Camille Lagard\textsuperscript{1}, Lucie Chevillard\textsuperscript{1}, Isabelle Malissin, Patricia Risé\textsuperscript{1}, Jacques Callebert\textsuperscript{1}, Laurence Labat\textsuperscript{1}, Bruno Mégarbann\textsuperscript{1,2}  
  \textsuperscript{1}INSERM U1144, Paris-DESCartes University, Paris, France; \textsuperscript{2}Department of Medical and Toxicological Critical Care Medicine, Lariboisière Hospital, Paris, France |
| 09.20 | The myth of the half RR rule and QT prolongation (264)  
  \hspace{1cm} Ingrid Berling\textsuperscript{1,2}, Geoffrey K Isbister\textsuperscript{1,2}  
  \textsuperscript{1}Department of Clinical Toxicology and Pharmacology, Calvary Mater Newcastle, Newcastle, Australia; \textsuperscript{2}School of Medicine and Public Health, University of Newcastle, Newcastle, Australia |
| 09.35 | Judging commences                                                             |

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| 09.35 | Keynote lecture: Toxicology: from St Paul to the Movies and beyond; a Maltese perspective  
  \hspace{1cm} Mark Zammit |
| 09.55 | Presentation to the winner of the Young Investigator Award |

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10.00 ÷ 10.30 Coffee and Posters
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<th>Time</th>
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<tr>
<td>08.30</td>
<td>YOUNG INVESTIGATOR AWARD (Auditorium I)</td>
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<td>Keynote lecture: Toxicology: from St Paul to the Movies and beyond; a Maltese perspective</td>
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<td>10.00</td>
<td>Coffee and Posters</td>
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*10.00 ÷ 10.30 Coffee and Posters*
Symposium: Drugs of misuse

10.30  Keynote lecture: Gamma-hydroxybutyrate (GHB) and related analogue dependency and withdrawal  
David Wood  
Clinical Toxicology, Guy’s and St Thomas’ NHS Foundation Trust and King’s Health Partners, London, UK

At the end of this session the audience should be able to:
• recognize the pattern of use of GHB and related analogues that is associated with dependency and risk of withdrawal
• describe the clinical features of GHB and related analogue withdrawal
• outline the management of planned and unplanned GHB and related analogue withdrawal

10.50  Keynote lecture: Naloxone public availability and use  
Lewis S Nelson  
Department of Emergency Medicine, NYU Langone Medical Center, New York, USA

At the end of this session the audience should be able to:
• describe the mechanism to provide naloxone for administration by non-medical personnel
• list several benefits of expanding the public availability of naloxone for such use
• discuss several risks of naloxone expansion and mechanisms to limit the adverse consequences

11.10  Keynote lecture: The toxicological significance of recreational drug and novel psychoactive substance (NPS) adulterants  
Fridtjof Heyerdahl  
Dept of Anesthesiology, Oslo University Hospital, Oslo, Norway

At the end of this session the audience should be able to:
• name common adulterants found in recreational drugs and NPS
• discuss the clinical relevance of these adulterants
• recognize clinical situations in which toxicity related to adulterants should be suspected

11.30  Influence of naltrexone induction regime on the stress hormones levels during rapid opioid detoxification (265)  
Robertas Badaras¹, Gabija Dragelyte¹, Linas Zdanavicius¹, Tomas Jovaisa², Juozas Ivaskevicius

¹Centre of Toxicology, Vilnius University, Vilnius, Lithuania; ²Clinic of Anaesthesiology, Lithuanian University of Health Sciences, Kaunas, Lithuania; ³Clinic of Anaesthesiology and Intensive Care, Vilnius University, Vilnius, Lithuania
Symposium: Drugs of misuse

11.45 Validation of two different screening ELISA assays for synthetic cathinones (mephedrone/methcathinone and MDPV) with confirmatory LC-MS in intoxicated patients (266)

Elisa Roda1, Davide Lonati1, Sarah Vecchio1, Eleonora Buscaglia1, Pietro Papa2, Loretta Rocchi2, Carlo A Locatelli1, Teresa Coccini1

1Laboratory of Clinical & Experimental Toxicology and Poison Control Center, IRCCS Maugeri Foundation, Pavia, Italy; 2Laboratory of Analytical Toxicology, IRCCS Policlinico San Matteo Foundation, Pavia, Italy

12.00 The cathinones are the most commonly reported Novel Psychoactive Substances (NPS) associated with Emergency Department presentations with acute drug toxicity reported to the European Drug Emergencies Network (Euro-DEN) (267)

David M Wood1, Alison M Dines1, Fridtjof Heyerdahl2, Christopher Yates3, Isabelle Giraudon4, Knut Erik Hovda2, Paul I Dargan1, on behalf of the Euro-DEN Research Group

1Clinical Toxicology, Guy’s and St Thomas’NHS Foundation Trust and King’s Health Partners, London, UK; 2Norwegian National Unit for CBRNe Medicine, Oslo University Hospital, Oslo, Norway; 3Emergency Department and Clinical Toxicology Unit, Hospital Universitari Son Espases, Mallorca, Spain; 4European Monitoring Centre for Drugs and Drug Addiction (EMCDDA), Lisbon, Portugal

12.15 Monoamine transporter and receptor interaction profiles of psychoactive benzofurans (268)

Anna Rickli1, Simone Kopf1, Marius C Hoener2, Matthias E Liechti1

1Clinical Pharmacology and Toxicology, University Hospital Basel, Basel, Switzerland; 2Neuroscience Research, F. Hoffmann-La Roche Ltd, Basel, Switzerland

12.30 – 14.00 Lunch and Posters
The best papers of 2014 or papers you may have missed

10.30 The best papers of 2014 or papers you may have missed

An international panel will each be asked to select a clinical toxicology paper published in the year 2014 that they consider to be among the best. The aim is to highlight papers that have changed or challenged clinical practice, taught something new or unexpected, improved understanding of toxicological mechanisms, or inspired the panellists. Three speakers, from different countries, will defend their choice in a brief 10 minute presentation followed by discussion.

Discussants:

Lotte Hoegberg
Allister Vale
Geert Verstegen
Round table: Training in Poison Centres

11.30 Round table: Training in Poison Centres

Pre-employment education for poisons information staff
John Thompson
National Poisons Information Service, Cardiff, UK

Initial and ongoing education for poisons centre staff – A European perspective
Hugo Kupferschmidt
Tox Info Suisse, Zurich, Switzerland

Initial and ongoing education for poisons centre staff – A North-American perspective
Jay Schauben
American Association of Poison Control Centers, Jacksonville, USA

Specific training and educational needs of different staff groups
Lotte Høgberg
The Danish Poisons Information Centre, Copenhagen Denmark

Moving forward - what educational standards should be met for poisons centre staff’s individual accreditation?
Irma de Vries
Dutch Poisons Information Center, Utrecht, The Netherlands

Followed by 30 minutes panel discussion

12.30 – 14.00 Lunch and Posters
Symposium: Drugs of misuse - Part 2

14.00  Clinical toxicity of synthetic cannabinoid receptor agonist use (269)
  Alex F Manini¹, Robert S Hoffman², Barry Stimmel³, David Vlahov⁴
  ¹Division of Medical Toxicology, the Icahn School of Medicine at Mount Sinai, New York, USA; ²Division of Medical Toxicology, NYU School of Medicine, New York, USA; ³Cardiology Division, the Icahn School of Medicine at Mount Sinai, New York, USA; ⁴Office of the Dean, UCSF School of Nursing, San Francisco, USA

14.15  *Do users of novel psychoactive substances take what they think they take? An overview of drug product contents analysed within the Swedish STRIDA project (271)
  Matilda Bäckberg¹, Erik Lindeman¹, Olof Beck², Karl-Henrik Jönsson³, Anders Helander²
  ¹Swedish Poisons Information Centre, Stockholm, Sweden; ²Department of Laboratory Medicine, Karolinska Institutet, Stockholm, Sweden; ³Official Medicines Control Laboratory, Medical Products Agency, Uppsala, Sweden

14.25  *Acute autonomic and psychotropic effects of LSD in healthy subjects in a placebo-controlled study (274)
  Yasmin Schmid, Patrick C Dolder, Matthias E Liechti
  Division of Clinical Pharmacology and Toxicology, University Hospital Basel, Basel, Switzerland

14.35  GENERAL DISCUSSION

14.45  Debate: Should cannabis be legalised in terms of public health issues?
  Pro: Karen Simone
  Con: Rick Dart

At the end of this session the audience should be able to:
- describe how cannabis legalization may address safety concerns associated with unregulated marijuana (Simone)
- describe the characteristics of cannabis use and abuse when it becomes a legal substance (Dart)

15.30 - 16.00 Coffee and Posters

*Short poster oral
Mini symposium: Toxicology of antidiabetic medications

14.00 Keynote lecture: The pharmacology and toxicology of new medications to treat diabetes

George M Bosse1,2

1Department of Emergency Medicine, University of Louisville, USA; 2Kentucky Regional Poison Center, Louisville, USA

At the end of this session the audience should be able to:
- discuss the pharmacology of the GLP-1 analogs, DPP-4 inhibitors, SGLT2 inhibitors and amylin analogs
- discuss the toxicology and clinical experience to date with overdose of these drugs
- discuss management of overdose of these drugs from both a poison center and emergency department standpoint

14.20 Keynote lecture: An update on the management of sulfonylurea toxicity

Yedidia Bentur

Israel Poison Information Center, Rambam Health Care Campus, Haifa, Israel

At the end of this session the audience should be able to:
- explain the mechanisms of action of sulfonylureas and octreotide
- describe the laboratory tests required for diagnosing sulfonylureas as the cause of hypoglycaemia
- implement current recommendations for the use of octreotide in sulfonylurea-induced hypoglycaemia

14.40 Keynote lecture: Metformin toxicity: mechanisms and management

John RH Archer

Clinical Toxicology, Guy's and St Thomas' NHS Foundation Trust, London, UK

At the end of this session the audience should be able to:
- describe the mechanism of action and pharmacokinetics of metformin
- explain how metformin may lead to toxic effects both in therapeutic use and in overdose
- list the main objectives for the treatment of metformin toxicity

15.00 *Prolonged, refractory glyburide and nateglinide toxicity in the setting of acute renal failure (334)

Jennifer C Cabot1, James S Morrison1, Alex F Manin2

1Emergency Medicine Residency, the Icahn School of Medicine at Mount Sinai Hospital, New York, USA; 2Division of Medical Toxicology, the Icahn School of Medicine at Mount Sinai Hospital, New York, USA

*Short poster oral
Mini symposium: Toxicology of antidiabetic medications

15.10  *Mortality predictors in lactic acidosis with confirmed serum metformin concentration (343)*

Daniel Morell-García¹, Loreto Quesada Redondo¹, Emilia Civeira Murillo², Isabel Gomila Muñiz¹, Juan Robles Bauzá¹, Andrés Carrillo López³, Jordi Puiguriguer Ferrando⁴, Ana Ferrer Dufo⁵, Bernardino Barceló Martín¹

¹Servicio de Análisis Clínicos-Unidad de Toxicología Clínica, Hospital Universitari Son Espases, Palma de Mallorca, Spain; ²Unidad de Cuidados Intensivos-Unidad de Toxicología Clínica, Hospital Clínico de Zaragoza, Zaragoza, Spain; ³Unidad de Cuidados Intensivos, Hospital Universitari Son Espases, Palma de Mallorca, Spain; ⁴Servicio de Urgencias Médicas-Unidad de Toxicología Clínica, Hospital Universitari Son Espases, Palma de Mallorca, Spain; ⁵Unidad de Toxicología Clínica, Hospital Clínico de Zaragoza, Zaragoza, Spain

15.20  GENERAL DISCUSSION

15.30 ÷ 16.00 Coffee and Posters

*Short poster oral
Mini symposium: Medicine abuse

16.00  *Oxycodone/naloxone preparations can cause acute opioid withdrawal symptoms following intravenous and oral exposure (300)

Anselm Wong1, Dawson Macleod1, Jeff Robinson1, Zeff Koutsogiannis1, Andis Graudins2, Shaun L Greene1

1Victorian Poisons Information Centre and Emergency Department, Austin Hospital, Victoria, Australia; 2Monash Health Clinical Toxicology Service and School of Clinical Sciences at Monash Health, Monash University, Victoria, Australia

16.10  *Estimating nonmedical use of prescription opioids in the United States from social media (301)

Michael Chary1, Nick Genes2, Christophe Giraud-Carrier3, Carl Hanson4, Lewis Nelson5, Alex F Manini2,6

1Icahn School of Medicine at Mount Sinai, New York, USA; 2Department of Emergency Medicine, Mount Sinai Hospital, New York, USA; 3Department of Computer Science, Brigham Young University, Provo, USA; 4Department of Health Science, Brigham Young University, Provo, Utah, USA; 5Department of Emergency Medicine, NYU Langone Medical Center, New York, USA; 6Division of Medical Toxicology, Icahn School of Medicine at Mount Sinai, New York, USA

16.20  *Dextromethorphan abuse in adolescence: A rising trend (302)

Blanka Caganova, Silvia Plackova, Petra Faltanova

National Toxicological Information Centre, University Hospital Bratislava, Bratislava, Slovak Republic

16.30  *The rise in prescription parenteral opiate abuse: Cases reported to an Australian Poisons Information Centre (305)

Nicole E Wright, Rose Cairns, Jared A Brown

NSW Poisons Information Centre, Sydney Children’s Hospital Network, Westmead, Australia

16.40  *Chronic pain and non-medical use of opioids, benzodiazepines and pregabalin in an online national survey in the United Kingdom (311)

Paul I Dargan1, David M Wood1, Andrea C Besharat2, Erin M Martinez2, Jody L Green2

1Clinical Toxicology, Guy's and St. Thomas'NHS Foundation Trust and King's Health Partners, London, UK; 2Rocky Mountain Poison & Drug Center, Denver Health, Denver, USA

16.50  *Characterization of acute opioid overdose in the ToxIC Registry (313)

Katherine L Boyle, Lynn A Farrugia, Jennifer L Carey, on behalf of the ToxIC Consortium

University of Massachusetts Medical School, Worcester, USA

17.00  *Trends over time in population rates of intentional misuse and self-harm mentions with buprenorphine, methadone, and oxycodone as reported to poison centres in Germany, Italy and the United Kingdom (306)

Becki Bucher Bartelson1, Herbert Desel2, Andreas Schaper2, Franca Davanzo3, Fabrizio Sesana3, Gillian Cooper4, John P Thompson4, Darcey JG Johnson1, Jody L Green1

1Rocky Mountain Poison & Drug Center, Denver Health, Denver, USA; 2GIZ-Nord Poisons Centre, University Medical Center, Göttingen, Germany; 3Poison Control Centre of Milan, Azienda Ospedaliera Ospedale Niguarda Ca Granda, Milan, Italy; 4National Poisons Information Service, Cardiff, UK

17.10  GENERAL DISCUSSION

17.25 Close

*Short poster oral
Poster discussion session  
*(15 posters selected for short oral presentation)*

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<td>16.00</td>
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**17.25 Close**
Epidemiology of poisoning

16. The antipsychotic story: an epidemic of prescription and overdose
   Ingrid Berling, Nicholas A Buckley, Geoffrey K Isbister

17. Intentional exposures on school property reported to U.S. Poison Centers
   J Priyanka Vakkalanka, Joshua D King, Christopher P Holstege

18. 15 years of Vitamin D exposures reported to US Poison Centers
   Henry A Spiller, Theodore F Good, Alfred Aleguas

19. Nicotine poisoning related to the use of e-cigarettes
   Sara W Lindberg, Niels Ebbehoej, John Bang, Lars B Christensen

20. Acute poisonings in Iceland: Self-poisonings presenting to the Emergency Departments at Landspitali-University Hospital. Comparison between 2001 and 2012
   Gudborg Gudjonsdottir, Jakob Kristinsson, Anna M Thordardottir

   J Craig Nelson, James B Mowry, Daniel A Spyker

22. Analysis of telephone enquiries to the United Kingdom National Poisons Information Service (NPIS) concerning raspberry ketone weight loss supplements (2011-2014)
   Stephen Jones, Alison M Thomas, J Allister Vale, Michael Eddleston, Simon HL Thomas, John P Thompson

23. Intentional overdoses and self-harm enquiries in adolescents aged 8-16: A retrospective review of enquiries to the National Poisons Information Service in the United Kingdom
   Eleri Thomas, Gillian A Cooper, J Allister Vale, Michael Eddleston, Simon HL Thomas, John P Thompson

   Yury N Ostapenko, Soso O Mebonia, Olga V Arepieva

25. Epidemiology of pharmacological poisoning by oral antidiabetic drugs in Morocco
   Narjis Badrane, Fatima Abadi, Ahlam Mefiah, Driss Soussi Tanani, Naima Rhalem, Rachida Soulaymani Bencheikh

26. Periodicity of human exposures in suicidal intention reported to the Poisons Information Centre (PIC) Erfurt from 2004 to 2013
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348. Supratherapeutic doses of opiates for acute pain crisis in the ED are safe

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349. Post-injection delirium/sedation syndrome after olanzapine long-acting injection: Experience of the Milan Poison Center

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350. Overdose or drug interaction? Reducing risks when starting and stopping rifampicin therapy

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352. EPCCASES: Development of an automated case data collection tool for European poisons centres

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355. TOXBASE® and its use in collecting data on new and uncommon products of interest
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356. TOXBASE®: Its use in answering poison information enquiries in the United Kingdom
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357. TOXBASE®: Keeping a poisons information database current and meeting UK demand
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358. Organizational peculiarities of poison information and advisory help in Russia
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