

1 Detailed Scientific Programme

Pre-Congress Symposium

**CONTINUING EDUCATION IN CLINICAL TOXICOLOGY:
PRE-CONGRESS SYMPOSIUM**

Pharmacology for toxicologists

Session chair: Bruno Mégarbane, Martin Wilks

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

Stephan Krähenbühl

Clinical Pharmacology & Toxicology, University Hospital, Basel, 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, Basel, 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) is 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 barrier)
- 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 interacts with drug transporters and be able to use decisional trees

10.30 - 11.00 Coffee

Session chair: Kim Dalhoff, Timothy Wiegand

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 polymorphisms 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

Session chair: Kai Knudsen, Erica Liebelt

14.00 Keynote lecture: Development of tolerance

Peter De Paepe^{1,2}

¹*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

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 Ghannoum

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

15.30 - 16.00 Coffee

Session chair: Darren Roberts, Donna Seger

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^{1,2}

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

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

Marie-Anne Lorient

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 vitamin K antagonist (VKA) response and explain the genetic basis of this variability

17.30 Close

Main Congress

08.30 Welcome and Opening

Alexander Campbell
President, EAPCCT

Symposium: Toxic deaths

Session chair: Sally Bradberry, Bruno Mégarbane

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 Bronstein^{1,2}

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 ó 10.30 Coffee and Posters

08.35 Welcome and PLENARY LECTURE (Grandmaster Suite)
Anthropology and forensic toxicology: how to revisit our history?

Symposium: Toxicology in specific populations

Session chair: Herbert Desel, Florian Eyer

09.20 Keynote lecture: Pregnancy and lactation

Laura Yates

Regional Drug and Therapeutics Centre, UK Teratology Information Service, Newcastle upon Tyne, UK

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

- identify the risks to both mother and child of acute or chronic poisoning during pregnancy or lactation
- recognize and avoid common pitfalls in the management of the poisoned pregnant or lactating patient
- recognize and identify relevant specialist teratology and/or poisons advisory services through which expert advice can be obtained and which enable collection of longer term fetal outcome data

09.40 Keynote lecture: The challenge of obesity in toxicology

Celia Lloret-Linares

INSERM U1144 Variabilité de réponse aux psychotropes, Université Paris Descartes-Paris Diderot, Paris, France

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

- discuss the many physiological changes affecting drug pharmacokinetics
- identify the factors that can alter drug pharmacodynamics
- identify the predictors of poor prognosis in obese patients

10.00 ó 10.30 Coffee and Posters

Symposium: Toxic deaths ó Part 2

Session chair: Robin Ferner, Geoff Isbister

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 Mortality after antipsychotic poisoning (58)

Henrik Horwitz^{1,2}, Kim Dalhoff^{1,2}, Gesche Jürgens^{1,2}

¹*Department of Clinical Pharmacology, Bispebjerg University Hospital, Copenhagen, Denmark;*

²*Danish Poison Information Centre, Bispebjerg University Hospital, Copenhagen, Denmark*

11.05 §Clinical characteristics of fatal salicylate poisonings (6)

Helena L Frischtak¹, Joshua D King^{1,2,3}, J Priyanka Vakkalanka^{1,2}, Christopher P Holstege^{1,2}

¹*School 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

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

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

- evaluate the risk factors of an early death in relation to antipsychotics
- name factors that may play a role in patient death due to salicylate poisoning
- identify clinical risk factors for in-hospital adverse outcomes following prescription opioid overdose

NB A simple prognostic model for predicting mortality in acute aluminium phosphide poisoning (5) was withdrawn.

§Short-listed for Informa Best Scientific Presentation

Symposium: Toxicology in specific populations ó Part 2

Session chair: Régis Bédry, Robert Palmer

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 pathophysiological 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 cause 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 Elamin¹, 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

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

- describe the common scenarios of antiretroviral overdose in children less than one year of age

11.20 GENERAL DISCUSSION

*Short poster oral

Symposium: Toxic deaths ó Part 3

Session chair: Robin Ferner, Geoff Isbister

11.35 GENERAL DISCUSSION

11.45 Debate: Should Randomised Controlled Trials (RCTs) 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 randomised 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 randomised trials in clinical toxicology (Brent)

12.30 ó 14.00 Lunch and Posters

Mini symposium: Snake poisoning

Session chair: Dabor Résière, Mark Zammit

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 Berling¹, Simon GA Brown², Ferdi Miteff³, Christopher Levi³, Geoffrey K Isbister¹
¹*School of Medicine and Public Health, University of Newcastle, Newcastle, Australia;* ²*Centre for Clinical Research in Emergency Medicine, University of Western Australia, Perth, Australia;* ³*Department 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 Isbister^{1,2}, Nicholas A Buckley², Colin B Page^{1,3}, Simon GA Brown⁴
¹*School of Medicine and Public Health, University of Newcastle, Newcastle, Australia;* ²*Clinical Pharmacology, Sydney Medical School, Sydney, Australia;* ³*School of Medicine, University of Queensland, Brisbane, Australia;* ⁴*Centre 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

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

- evaluate whether monospecific snake antivenoms could be used for treating snakebite by related species
- describe the characteristics of patients with intracranial haemorrhage (ICH) and snake venom induced consumption coagulopathy
- recognise the important inter-relationship between research with large cohorts and how this translates into clinical practice
- evaluate the clinical course of viper envenomation after antivenom administration

12.20 GENERAL DISCUSSION

12.30 ó 14.00 Lunch and Posters

[§]Short-listed for Informa Best Scientific Presentation

*Short poster oral

Session chair: Alexander Campbell

14.00 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

NB CME accreditation has not been requested for this lecture.

Symposium: Veterinary toxicology

Session chair: Alexander Campbell, Tina Wismer

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®

15.40 ó 16.10 Coffee and Posters

14.00 LOUIS ROCHE LECTURE (Grandmaster Suite) Using routinely collected data to improve visibility and add value to the work of poisons centres in Europe
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Symposium: Antidotes

Session chair: Angela Chiew, Lewis Nelson

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

¹*National Poisons Information Center, University Medical Center, Utrecht, The Netherlands;*

²*National 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 ó 16.10 Coffee and Posters

Symposium: Symposium: Veterinary toxicology ó Part 2**Session chair: Nicola Bates, Irma de Vries****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 toxicologyAlexander 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: Antidotes ó Part 2**Session chair: Jeffrey Brent, Daniela Pelclova****16.10 Keynote lecture: Fomepizole versus ethanol in acute methanol poisoning: A quasi-case-control study (12)**Sergey Zakharov¹, Tomas Navratil^{1,2}, Daniela Pelclova¹¹Toxicological 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

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

- compare the effectiveness of fomepizole versus ethanol for the treatment of acute methanol poisoning during mass poisoning outbreak based on the Czech experience from mass methanol poisoning in 2012-2013
- discuss the benefits and õweak pointsö of fomepizole and ethanol from the practical point of view
- explain the role of pre-hospital administration of antidote in suspicious cases of methanol poisoning during mass poisoning outbreaks

16.30 §Clinical findings in patients receiving physostigmine in a toxicologic ICU: A quality and safety assessment study (13)Stefan Poehacker^{1,2}, Nina Grossmann^{1,2}, Eva Klingbacher^{1,2}, Burkhard Gustorff²¹Toxicologic 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 Russellõ viper bite (14)**Geoffrey K Isbister^{1,2}, Kalana Maduwage^{1,2}, Ana Saiao¹, Nicholas A Buckley^{2,3}, Shaluka F Jayamanne^{2,4}, Shahmy Seyed², Fahim Mohamed², Alexandre Mendes⁵, Chandana Abeysinghe², Harindra Karunathilake², Indika Gawarammana², David G Lalloo⁶, Janaka H de Silva^{2,4}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 Chan^{1,4}, Margaret O'Leary², Geoffrey Isbister^{2,4}, Nicholas A Buckley^{3,4}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

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

- name 5 of the major clinical signs of the anticholinergic syndrome
- describe the pharmacokinetics of antivenom in overdose and the advantages of using population analysis
- explain why digoxin Fab may not be effective in managing bradyarrhythmias in chronic digoxin poisoning

17.15 GENERAL DISCUSSION**17.30 CLOSE**

§Short-listed for Informa Best Scientific Presentation

Symposium: Critical care in poisonings

Session chair: Nick Bateman, Philippe Hantson

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 a 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 managementPhilippe 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 ó 11.00 Coffee and Posters

09.00 PLENARY LECTURE (Grandmaster Suite)
Uncommon indications for extracorporeal removal of toxins

Symposium: Utility of experimental data in poisons information and patient management

Session chair: Patricia Casey, Sophie Gosselin

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 ó 11.00 Coffee and Posters

Symposium: Critical care in poisonings ó Part 2

Session chair: Robert Chircop, Milton Tenenbein

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

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

³*Cardiology Division, the Icahn School of Medicine at Mount Sinai, New York, USA;* ⁴*Office 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*

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

- develop a general strategy for vasopressor use in undifferentiated overdose-related shock
- list evidence behind use of High-dose Insulin Euglycemia (HIE) in beta-blocker and calcium-channel blocker overdose

12.15 GENERAL DISCUSSION

12.30 ó 14.00 Lunch and Posters

Symposium: Utility of experimental data in poisons information and patient management ó Part 2

Session chair: Keith Burkhart, Janet Mifsud

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 ó 14.00 Lunch and Posters

Symposium: Critical care in poisonings ó Part 3

Session chair: Robert Hoffman, Knut Erik Hovda

14.00 *How to evaluate the severity of lithium-poisoned patients admitted to the intensive care unit? (149)

Dominique Vodovar¹, Emmanuel Curis², Souleiman Elbalkhi^{2,3}, Bruno Mégarbane^{1,2}
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 Brandenburg^{1,3}, Ivo W Soliman¹, Jan Meulenbelt^{1,3,4}, Dylan W de Lange^{1,2,3}
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 (-phenyl- -amniobutyric acid) purchased over the Internet (148)

Anselm Wong¹, Mark Little², David Caldicott³, Chris Easton⁴, 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

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

- predict the onset of severe toxicity associated with lithium poisoning when admitting a patient in the hospital
- explain that there are indications that intoxicated ICU patients have an alarmingly low health related quality of life
- describe the steps needed to cool a critically ill patient with drug-induced hyperthermia using an ice-water submersion technique
- describe the mechanism of action of phenibut and its clinical effects
- describe the risks associated with intubation of the salicylate toxic patient

14.50 GENERAL DISCUSSION

*Short poster oral

Mini symposium: Occupational and environmental exposures

Session chair: John Thompson, Richard Zammit

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 Syslova³, Marek Kuzma⁴, Tomas Navratil⁵, Martin Komarc⁶, Petr Kacer³
¹*Department of Occupational Medicine, Charles University and General University Hospital, Prague, Czech Republic;* ²*Institute of Chemical Process Fundamentals, AS CR, v.v.i., Prague, Czech Republic;* ³*Institute of Chemical Technology, AS CR, v.v.i., Prague, Czech Republic;* ⁴*Institute of Microbiology, AS CR, v.v.i., Prague, Czech Republic;* ⁵*J. Heyrovský Institute of Physical Chemistry, AS CR, v.v.i., Prague, Czech Republic;* ⁶*Institute of Informatics, Charles University and General University Hospital, 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

14.30 *Characteristics of occupational fatalities from inhalation injury in confined versus non-confined spaces (2003 to 2010) (257)

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
¹*Federal Institute for Risk Assessment (BfR), Berlin, Germany;* ²*Fraunhofer Institute for Toxicology and Experimental Medicine (ITEM), Hannover, Germany*

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

- describe the potential dangers of nanoparticles and the differences from toxicology effects
- discuss the relationship between the levels of particulate matter in the air and inflammatory markers in the blood of young people
- discuss the occupational risk of inhalational toxicity associated with confined spaces versus non-confined spaces
- describe the composition of aerosol products and discuss the characteristics of the most toxic compounds

*Short poster oral

Symposium: Critical care in poisonings ó Part 4

Session chair: Robert Hoffman, Knut Erik Hovda

14.55 Debate: Should magnesium be systematically used in QT prolongation to prevent torsade de pointes?

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 (TdP) 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 ó 16.10 Coffee and Posters

Mini symposium: Occupational and environmental exposures

Session chair: John Thompson, Richard Zammit

- 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, Agnès Verrier³,
 Ingrid Blanc⁴, Françoise Flesch¹
¹*Poison and Toxicovigilance Centre, University Hospitals, Strasbourg, France;* ²*Poisons Information Centre, Children's University Hospital, Freiburg, Germany;* ³*French Institute of Public Health Surveillance, Saint Maurice, France;* ⁴*Poison 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

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

- assess the risks of serious injury after high pressure injection of chemical substances in the hand
- evaluate the interest of compulsory statement (notification) of intoxications by carbon monoxide
- evaluate the risks of swimming pool disinfectants

15.20 GENERAL DISCUSSION

15.30 ó 16.10 Coffee and Posters

*Short poster oral

Mini symposium: Chemical poisoning: Challenges and surveillance methods**Session chair: Carlo Locatelli, Sergey Zakharov****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 Zuccoli¹, Beatrice Giliotti¹, Fabrizio Sesana¹
¹*National Poison Control Center in Milan, Ospedale Niguarda Cà, Milan, Italy;* ²*National Institute of Health (ISS), Rome, Italy;* ³*La Sapienza University, Rome, Italy*

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 Hall³, Sally Hoffer³,
Ann Goransson Nyberg⁴, Per Leffler⁴, Elisabeth Wigenstam⁴, Agneta Plamboeck⁴, Jiri Trnka⁴,
María del Carmen García Cazalilla⁵, Jesus Ocaña García-Donas⁵, Jose Javier García del Aguila⁵,
Raquel Duarte-Davidson¹
¹*Centre for Radiation, Chemical and Environmental Hazards, Public Health England, Chilton, UK;*
²*GIZ-Nord Poisons Centre, University Medical Center Göttingen, Göttingen, Germany;* ³*National Institute for Public Health and the Environment (RIVM), Advisory Service for the Inspectorate Environment, Bilthoven, The Netherlands;* ⁴*Swedish Defence Research Agency (FOI), CBRN Defence and Security, Umeå, Sweden;* ⁵*Empresa Pública 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 Leenders^{1,2},
Irma de Vries¹, Jan Meulenbelt^{1,3}
¹*National Poisons Information Center, University Medical Center, Utrecht, The Netherlands;*
²*Department of Anesthesiology, University Medical Center, Utrecht, The Netherlands;* ³*Institute for Risk Assessment Sciences, Utrecht University, Utrecht, The Netherlands*

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

- name the most common chemical and biological agents employed in terrorist attacks throughout the globe in the past four decades
- acknowledge the role of poison control centers for post marketing surveillance of newly launched products
- recognise health risks associated with accidental exposures to liquid laundry detergents capsules
- describe the process for joining RASCHEM and the network of expert risk assessors and discuss how ECHEMNET supports implementation of the EU Decision on serious cross border threats to health (1082/EU/2013) for chemicals
- discuss the low health risk in treating a chemically contaminated patient without use of extra personal protective equipment

17.00 CLOSE

17.15 ó 18.15 EAPCCT GENERAL ASSEMBLY (Spinola Suite)

[§]Short-listed for Informa Best Scientific Presentation

*Short poster oral

Poster discussion session

Session chair: Nicola Bates, Horst Thiermann

- 16.10 Novel ciguatera shellfish poisoning (CSP) cluster after consumption of *Tectus niloticus*, a gastropod, in Nuku-Hiva, French Polynesia (96)**
Davide Lonati, Clémence M Gatti, Arturo Zancan, H Taiana Darius, Myriam Fleure, Mireille Chinain, Michelangelo Buonocore, Carlo A Locatelli
- 16.15 Incidence and clinical characteristics of lionfish poisoning in Martinique (99)**
Dabor Résière, Laura Cerland, Ruddy Valentino, Cyrille Chabartier, Stephane Kaidomar, Luc De Haro, Bruno Megarbane, Hossein Mehdaoui
- 16.20 Fomepizole kinetics during intermittent (IHD) and continuous hemodialysis (CVVHD): A case study (32)**
Knut Erik Hovda, Trond Vartdal, Brian Latimer, Gaut Gadeholt, Kenneth E McMartin, Dag Jacobsen
- 16.25 Analysis of telephone enquiries to the United Kingdom National Poisons Information Service (NPIS) concerning raspberry ketone weight loss supplements (2011-2014) (22)**
Stephen Jones, Alison M Thomas, J Allister Vale, Michael Eddleston, Simon HL Thomas, John P Thompson
- 16.30 Specific issues of the clinical picture and evolution in acute toxic methemoglobinemia in children (106)**
Viorela Nitescu, Dora Boghitou, Iuliana Gherlan, Catalin Stemate, Doina Coman, Alexandru Ulmeanu, Coriolan Ulmeanu
- 16.35 Child poisonings with methadone in France: A 6-year prospective national survey since the availability of capsules in 2008 (111)**
Luc de Haro, Cyndie Picot, Mathieu Glaizal, Romain Torrents, Florence Cardona
- 16.40 Cluster of naphazoline and phenylephrine intoxications in children due to a compounding pharmacy error (112)**
Yves Haerden, Elisabeth Goossens, Martine Mostin
- 16.45 Long-term effects of vitamin D poisoning in children (113)**
Evgeny A Luzhnikov, Galina N Sukhodolova, Yury N Ostapenko, Liliya A Kovalenko, Alexander S Kovalchuk
- 16.50 Levetiracetam intoxication in a preterm infant due to a medication error (118)**
Emma Talikka, Kalle Hoppu, Pirjo Tynjälä, Liisa Rovamo
- 16.55 Accidental laundry pod exposure resulting in first reported US fatality (57)**
Alfred Aleguas, Tamas R Peredy

17.00 CLOSE

NB CME accreditation has not been requested for this session.

17.15 ó 18.15 EAPCCT GENERAL ASSEMBLY

YOUNG INVESTIGATOR AWARDSession chair: **Hugo Kupferschmidt, Allister Vale****08.30 Introduction to Young Investigator Award****08.35 Indian Krait (*Bungarus caeruleus*) envenoming: A clinical and neurophysiological investigation of neuromuscular dysfunction (261)**Anjana Silva^{1,2}, Sisira Siribaddana², E Michael Sedgwick³, Kalana Maduwage⁴, Nicholas Buckley³, Geoffrey K Isbister⁴¹Monash Venom Group, Monash University, Melbourne, Australia; ²Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka, Saliyapura, Sri Lanka; ³South Asian Clinical Toxicology Research Collaboration, University of Peradeniya, Peradeniya, Sri Lanka; ⁴School 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)**Anselm Wong¹, Marco L Sivilotti², Paul I Dargan³, David M Wood³, Shaun L Greene¹¹Victorian Poisons Information Centre and Emergency Department, Austin Hospital, Victoria, Australia; ²Emergency Medicine, Pharmacology and Toxicology, Queen's University, Kingston, Canada.; ³Clinical Toxicology, Guy's and St Thomas NHS Foundation Trust and Kings Health Partners, London, UK**09.05 Do benzodiazepines worsen tramadol toxicity? An experimental study in the rat (263)**Camille Lagard¹, Lucie Chevillard¹, Isabelle Malissin², Patricia Risède¹, Jacques Callebert¹, Laurence Labat¹, Bruno Mégarbane^{1,2}¹INSERM U1144, Paris-Descartes University, Paris, France; ²Department of Medical and Toxicological Critical Care Medicine, Lariboisière Hospital, Paris, France**09.20 The myth of the half RR rule and QT prolongation (264)**Ingrid Berling^{1,2}, Geoffrey K Isbister^{1,2}¹Department of Clinical Toxicology and Pharmacology, Calvary Mater Newcastle, Newcastle, Australia; ²School of Medicine and Public Health, University of Newcastle, Newcastle, Australia

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

- relate clinical and neurophysiological abnormalities in Indian Krait envenoming and the ability of antivenom in reversing these effects to the possible pathophysiology behind the neuromuscular paralysis
- interpret a paracetamol-aminotransferase multiplication product to predict hepatotoxicity in paracetamol poisoned patients
- discuss how diazepam administered in combination with tramadol alters tramadol-induced toxicity
- evaluate whether the half RR rule is a useful screening method of assessing for QT prolongation

09.35 Judging commences**09.35 Keynote lecture: Toxicology: from St Paul to the Movies and beyond; a Maltese perspective**Mark Zammit**NB CME accreditation has not been requested for this lecture.****09.55 Presentation to the winner of the Young Investigator Award****10.00 ó 10.30 Coffee and Posters**

08.30 YOUNG INVESTIGATOR AWARD (Grandmaster Suite)
Keynote lecture: Toxicology: from St Paul to the Movies and beyond; a Maltese perspective

10.00 ó 10.30 Coffee and Posters

Symposium: Drugs of misuse

Session chair: Paul Dargan, Karen Simone

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

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

- recognise that the stress response induced by rapid opioid detoxification can be decreased with a novel scheme of induction with the opioid antagonist naltrexone

[§]Short-listed for Informa Best Scientific Presentation

The best papers of 2014 or papers you may have missed

Session chair: Leslie Dye, Simon Thomas

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 Høgberg

Retained drugs in the gastrointestinal tracts of deceased victims of oral drug overdose.

Livshits Z, Sampson BA, Howland MA, Hoffman RS, Nelson LS.

Clin Toxicol (Phila). 2015 Feb; 53(2):113-8.

Forensic features of pharmacobezoars.

England G, Heath KJ, Gilbert JD, Byard RW.

J Forensic Sci 2015 Mar; 60(2):341-5.

Allister Vale

Description of 3,180 courses of chelation with dimercaptosuccinic acid in children & with severe lead poisoning in Zamfara, Northern Nigeria: a retrospective analysis of programme data.

Thurtle N, Greig J, Cooney L, Amitai Y, Ariti C, Brown MJ, Kosnett MJ, Moussally K, Sani-Gwarzo N, Akpan H, Shanks L, Dargan PI.

PLoS Med 2014; 11: e1001739.

Geert Verstegen

Should computerised tomography replace endoscopy in the evaluation of symptomatic ingestion of corrosive substances?

Bonnici KS, Wood DM, Dargan PI.

Clin Toxicol (Phila) 2014 Nov; 52(9):911-25.

NB CME accreditation has not been requested for this session.

Symposium: Drugs of misuse ó Part 2

Session chair: Paul Dargan, Karen Simone

- 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, Guyø and St Thomasø NHS Foundation Trust and Kingø 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

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

- discuss the usefulness of ELISA for the diagnosis of acute cathinones intoxication
- describe the categories of NPS seen in presentations in the first 9 months of the Euro-DEN Project
- describe the main mechanism of action of novel psychoactive benzofurans and the benzodifuran 2C-B-Fly

12.30 ó 14.00 Lunch and Posters

[§]Short-listed for Informa Best Scientific Presentation

Round table: Training in Poison Centres

Session chair: Ed Krenzelok, Martin Wilks

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 ó A European perspective

Hugo Kupferschmidt

Tox Info Suisse, Zurich, Switzerland

Initial and ongoing education for poisons centre staff ó 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 ó individual accreditation?

Irma de Vries

Dutch Poisons Information Center, Utrecht, The Netherlands

Followed by 30 minutes panel discussion

NB CME accreditation has not been requested for this session

12.30 ó 14.00 Lunch and Posters

Symposium: Drugs of misuse - Part 3

Session chair: Fridtjof Heyerdahl, Christopher Yates

14.00 Clinical toxicity of synthetic cannabinoid receptor agonist use (269)

Alex F Manini¹, Robert S Hoffman², Barry Stimmel³, David Vlahov⁴
¹*Division of Medical Toxicology, the Icahn School of Medicine at Mount Sinai, New York, USA;* ²*Division of Medical Toxicology, NYU School of Medicine, New York, USA;*
³*Cardiology Division, the Icahn School of Medicine at Mount Sinai, New York, USA;*
⁴*Office 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
¹*Swedish Poisons Information Centre, Stockholm, Sweden;* ²*Department of Laboratory Medicine, Karolinska Institutet, Stockholm, Sweden;* ³*Official 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

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

- describe the toxidrome associated with synthetic cannabinoids and identify cardiovascular toxicity associated with synthetic cannabinoid receptor agonists
- describe the added value of drug testing in body fluids compared with the patient's self-report of drug exposure
- describe the acute autonomic and psychotropic effects of LSD (200mcg) in healthy subjects

14.35 GENERAL DISCUSSION

*Short poster oral

Mini symposium: Toxicology of antidiabetic medications**Session chair: Frederic Baud, Alvin Bronstein****14.00 Keynote lecture: The pharmacology and toxicology of new medications to treat diabetes**George M Bosse^{1,2}*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 toxicityYedidia 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

Symposium: Drugs of misuse - Part 4

Session chair: Fridtjof Heyerdahl, Christopher Yates

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

Mini symposium: Toxicology of antidiabetic medications ó Part 2

Session chair: Frederic Baud, Alvin Bronstein

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 Manini²

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

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 Puiguriquer Ferrando⁴, Ana Ferrer Dufol⁵, Bernardino Barceló Martín¹

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

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

- describe how to identify glyburide and nateglinide toxicity in patients with acute renal failure and treat a patient with glyburide and/or nateglinide toxicity
- name parameters that will be predictive of mortality in patients with chronic metformin therapy and lactic acidosis

15.20 GENERAL DISCUSSION

15.30 ó 16.00 Coffee and Posters

*Short poster oral

Mini symposium: Medicine abuse**Session chair: Martin Caravati, David Wood****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

¹*Victorian Poisons Information Centre and Emergency Department, Austin Hospital, Victoria, Australia;* ²*Monash 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 Manini^{2,6}

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

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

- describe the situations when opioid withdrawal symptoms can occur with use of oxycodone/naloxone
- discuss the social media techniques that can be used for toxicosurveillance and describe trends for nonmedical use of prescription opioids in the US using Twitter
- describe the basic pathophysiology of dextromethorphan poisoning and identify the risk of the dextromethorphan abuse

*Short poster oral

Poster discussion session

Session chair: Ana Ferrer Dufol, Alison Good

- 16.00 Toxic exposures in young children resulting in tracheal intubation (138)**
Benjamin W Hatten, Gillian A Beauchamp
- 16.05 Too bad to be true? Osmol gap >300 mOsm/L (139)**
Vincent Nguyen, Scott N Lucyk, Mary Ann Howland, Mark K Su, Lewis S Nelson
- 16.10 Severe hypertensive crisis and takotsubo cardiomyopathy after intrathecal clonidine pump failure (140)**
Varuna Ruggoo, Hwee Min Lee, Andis Graudins
- 16.15 A novel screening method to detect *in vitro* neurotoxicity: Effects of illicit drugs on neuronal activity (255)**
Laura Hondebrink, Steffie W Drega, Regina GDM van Kleef, Remco HS Westerink, Jan Meulenbelt
- 16.20 Massive parenteral manganese overdose: Minimal role for hemodialysis (219)**
Elizabeth O Hines, Irfana Soomro, Mary Ann Howland, Robert S Hoffman, Silas W Smith
- 16.25 Accidental *Panaeolus foeniseeii* exposures: No clinically relevant effects in children (231)**
Katharina M Schenk-Jaeger, Bettina Plenert, Dagmar Eckart, Bettina Haberl, Gabriele Schulze, Janine Borchert-Avalone, Uwe Stedtler, Rudolf Pfab

NB CME accreditation has not been requested for this session.

Mini symposium: Medicine abuse 6 Part 2**Session chair: Martin Caravati, David Wood****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
¹*Clinical Toxicology, Guy's and St. Thomas NHS Foundation Trust and King's Health Partners, London, UK;* ²*Rocky 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
¹*Rocky Mountain Poison & Drug Center, Denver Health, Denver, USA;* ²*GIZ-Nord Poisons Centre, University Medical Center, Göttingen, Germany;* ³*Poison Control Centre of Milan, Azienda Ospedaliera Ospedale Niguarda Ca' Granda, Milan, Italy;* ⁴*National Poisons Information Service, Cardiff, UK*

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

- discuss trends in abuse of prescription opiates in Australia
- describe the pattern of non-medical use of opioids, benzodiazepines and pregabalin in patients with chronic pain
- describe common trends in patient characteristics and agents associated with acute opioid overdose reported to the Toxicology Investigator's Consortium (Toxic) registry
- describe the trends over time of intentional exposure cases to buprenorphine, methadone, and oxycodone, as reported to poison centres in Germany, Italy, and the United Kingdom

17.10 GENERAL DISCUSSION

17.25 CLOSE

*Short poster oral

Poster discussion session (continued)

Session chair: Ana Ferrer Dufol, Alison Good

- 16.30 Methotrexate exposures reported to the Poisons Information Centre Erfurt, Germany (315)**
Anne Stuerzebecher, Germaine Frimlova, Michael Deters, Helmut Hentschel
- 16.35 Unusual management of an inadvertent overdosage of vinorelbine in a child: A case report (316)**
Maria L Zuccoli, F. Giscardo Panzavolta, F Andrea Stella, M Adriana Tomoiaga, Leonardo Molino, Marina Caligara, Carmelita D'Ippolito, Fabrizio Sesana, Francesca Assisi, Franca Davanzo
- 16.40 Sleeping Beauty: Prolonged sedation following an alprazolam and fluconazole overdose (325)**
Angela L Chiew, Kate Sellors, Betty Chan
- 16.45 Duloxetine overdose: A case series (331)**
Simone Just, Sonja Gros, Cornelia Reichert, Elja Heistermann, Petra Hoffmann-Wahlbeck, Uwe Stedtler, Carola Seidel, Elke Färber, Sabine Stoletzki, Gabriele Dostal, Dieter Genser, Dagmar Prasa
- 16.50 Analysis of clinical factors that predict diagnosis in suspected acute poisoning (156)**
Robert Camilleri
- 16.55 Poisoning with *Cicuta virosa* in Sweden (242)**
Sonny Larsson, Ulla Westberg, Javid Hussain, Ulf Göransson
- 17.00 Intensive support therapy and mortality in *Colchicum autumnale* poisoning (241)**
Miran Brvar
- 17.05 The incidence of tramadol-related seizures is affected by co-ingestants (339)**
Brett A Roth, Mathias B Forrester, Miguel C Fernandez, Masoumeh Ghiasvand
- 17.10 The Global Educational Toxicology Uniting Project (GETUP) (360)**
Anselm Wong, Rais Vohra, Anne-Michelle Ruha, Zeff Koutsogiannis, Kimberlie A Graeme, David M Wood, Paul I Dargan, Anne Creaton, Shaun L Greene
- 17.15 GENERAL DISCUSSION**

17.25 CLOSE

NB CME accreditation has not been requested for this session.

Epidemiology of poisoning

16. The antipsychotic story¹ – an epidemic of prescription and overdose
Ingrid Berling, Nicholas A Buckley, Geoffrey K Isbister
17. Intentional exposures on school property reported to US 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 Ebbelhoej, John Bang, Lars B Christensen
20. Acute poisonings in Iceland: Self-poisonings presenting to the Emergency Departments at Landspítali-University Hospital. Comparison between 2001 and 2012
Gudborg Gudjonsdottir, Jakob Kristinsson, Anna M Thordardottir
21. Change over time and severity of antidepressant and antipsychotic medications managed by US poison centers: 2000-2014
J Craig Nelson, James B Mowry, Daniel A Spyker
- [‡]22. Analysis of telephone enquiries to the UK 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 UK
Eleri Thomas, Gillian A Cooper, J Allister Vale, Michael Eddleston, Simon HL Thomas, John P Thompson
24. Characteristics of the toxicological situation in Sochi during Winter Olympic Games of 2014
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 Meftah, 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
Helmut Hentschel, Dagmar Prasa, Germaine Frimlova, Simone Just, Gisela Liebetrau, Bettina Plenert, Anne Stuerzebecher, Michael Deters
27. Poisoning by carbon monoxide in Morocco: 1991-2012
Rachida Aghandous, Naima Rhalem, Lahcen Ouammi, Abdelmajid Soulaymani, Abdelrhani Mokhtari, Rachida Soulaymani-Bencheikh

[‡]Poster discussion session 6 see page 25

Antidotes

28. Tolerance and efficacy of a new antivenom Fab2 variety in the treatment of *Bothrops lanceolatus* bites in Martinique

Dabor Résière, Vanessa Chomono, Ruddy Valentino, Cyrille Chabartier, Jeanlouis Ferge, Etienne Caffiot, Stephane Kaidomar, Michel Schoelsser, Yanick Brouste, Victor Moravie, Bruno Mégarbane, Hossein Mehdaoui

29. Hydroxocobalamin and sodium thiosulfate in acute cyanide poisoning

Sergey Zakharov, Pavel Urban, Tomas Navratil, Manuela Vaneckova, Zdenek Seidl, Pavel Diblik, Pavel Kuthan, Daniela Pelclova

30. Pre-hospital ethanol administration improves outcomes in mass methanol outbreaks

Sergey Zakharov, Daniela Pelclova, Pavel Urban, Tomas Navratil, Pavel Diblik, Ivana Kurcova, Jaromir Belacek, Martin Komarc, Michael Eddleston, Knut Erik Hovda

31. Variations in serum ethanol concentrations during the treatment of acute methanol poisoning

Sergey Zakharov, Tomas Navratil, Tomas Salek, Ivana Kurcova, Daniela Pelclova

[‡]32. Fomepizole kinetics during intermittent (IHD) and continuous hemodialysis (CVVHD): A case study

Knut Erik Hovda, Trond Vartdal, Brian Latimer, Gaut Gadeholt, Kenneth E McMartin, Dag Jacobsen

33. Comparison of adverse drug reaction rates using a two-bag to a standard three-bag intravenous acetylcysteine regimen for paracetamol poisoning

Andis Graudins, Angela Harper

34. A novel infusion protocol for the administration of acetylcysteine

Geoffrey K Isbister, Michael A Downes, Kylie McNamara, Ingrid Berling, Ian M Whyte, Colin B Page

35. Is normobaric oxygen efficient in cyanide poisoning? A systematic review of individual cases

Frederic J Baud, Wilfried Steffens, Stephen W Borron, Roland Rödelsperger, Ulrike Kuepper, Herlinde Smet, Thomas Zilker, Henk Vrijhof

36. Admission characteristics of patients receiving physostigmine in a Toxicologic ICU: A quality and safety assessment study

Stefan Poehacker, Nina Grossmann, Eva Klingbacher, Burkhard Gustorff

37. A 2-year analysis of scorpion envenomations in a regional poison center following new scorpion antivenom introduction to the US market

Shireen Banerji, Alvin Bronstein

38. Intravenous lipid emulsion for amlodipine/benazepril toxicity: A case report

Rachel Schult, Rachel M Gorodetsky, Timothy J Wiegand

[‡]Poster discussion session ó see page 25

39. Successful management of acute collective hydrogen sulfide exposure
Isabella Orsini, Chiara Pracucci, Primo Botti, Francesco Gambassi, Alessandra Ieri, Emanuela Masini, Guido Mannaioni
40. The impact of new paracetamol treatment guidelines on children who take accidental acute paracetamol overdose
Emer Timony-Nolan, Elaine Donohoe, Edel Duggan, Ronan O'Sullivan
41. A new national antidote database: An open online service
Stefan Arvidsson, Mark Personne
42. Chemical instability of glucagon when given as a continuous infusion
Yvonne Lao, Fridtjof Heyerdahl
43. Doubling the third dose of intravenous N-acetylcysteine survey: An international practice perspective
Saad Al Juma, Eric Villeneuve, Audree Elliot, Robert B Palmer, Sophie Gosselin
44. Early administration of isosorbide dinitrate improves survival of cyanide-poisoned rabbits
Ophir Lavon
45. Evolution of the antidote treatment in acute poisoning in an emergency department
Pilar Miranda-Arto, Ana Ferrer-Dufol, Francisco J Ruiz-Ruiz, Sebastian Menao-Guillen
46. Severe cardio-respiratory adverse effects after concentrated and rapid intravenous fomepizole administration: A case report
Davide Lonati, Francesca Chiara, Giulia Scaravaggi, Veronica Basso, Luca Chiovato, Carlo A Locatelli
47. Safe and effective use of physostigmine for olanzapine overdose
Rachel M Gorodetsky, Rachel Schult, Timothy J Wiegand
48. Antidote treatment of poisoned children before admission to the Toxicology Department
Viorela Nitescu, Stefan Gatcan, Nicolae Stanciu, Elena Galamaga, Cristina Oglinda, Ana Oglinda
49. Is hyperbaric oxygen efficient in cyanide poisoning? A systematic review of individual cases
Frederic J Baud, Wilfried Steffens, Stephen W Borron, Roland Roedelsperger, Ulrike Kuepper, Herlinde Smet, Thomas Zilker, Henk Vrijhof
50. N-acetylcysteine treatment of paracetamol poisonings in the Czech Republic and Slovakia: Outcomes and side effects
Michal Urban, Blanka Caganova, Silvia Plackova, Ivana Kurcova, Sergej Zacharov, Daniela Pelclova
51. First-line sodium thiosulphate administration - effective in a case of potassium cyanide suicidal ingestion
Diletta Sabatini, Andrea Giampreti, Paolo Mazzini, Carla Caranti, Laura Rolandi, Rolando De Sanctis, M Caterina Grassi

52. Massive paracetamol overdose: Early NAC prevented liver damage but not pancytopenia
Jonas Höjer
53. Severe pediatric cyanide poisoning due to smoke inhalation: Two cases
Marco Marano, Mara Pisani, Matteo Di Nardo, Corrado Cecchetti, Caterina Tomasello, Paola De Rose, Davide Lonati
54. Antidote availability in emergency departments in the municipality of Campinas, São Paulo state, Brazil
Luciane CR Fernandes, Camila C Prado, Maira M Branco, Carla B Fernandes, Eduardo M De Capitani, Stephen Hyslop, Fabio Bucaretychi
55. Naloxone availability in the USA: Bystander versus emergency medical services (EMS) administration
Alberto Perez, Richard A Kamin, Tamas Peredy
56. Comparison of hyperbaric oxygen treatment reported to poison centers in the US and Israel
Wendy Klein-Schwartz, Yedidia Bentur

Toxic deaths

- [£]57. Accidental laundry pod exposure resulting in first reported US fatality
Alfred Aleguas, Tamas R Peredy
59. Changes in pediatric poisoning mortality: A 20-year retrospective study
Viorela Nitescu, Dora Boghitou, Iuliana Gherlan, Doina Coman, Anca Donoica, Andreea Odagiu, Catalin Stemate, Coriolan Ulmeanu
60. Causality assessment of fatal poisoning: Evaluation of the GfKT causality score
Maren Hermanns-Clausen, Andreas Schaper, Angelika Holzer, Ingrid Koch, Andreas Stürer, Anne Stürzebecher, Stephan Rhode, Hugo Kupferschmidt
61. Poisoning deaths in Poland: Type and prevalence detected on analysis of cases from 6 poison centres during the period 2009-2013
Anna Krakowiak, Anna Piekarska-Wijatowska, Piotr Hydzik, Beata Szkolnicka, Tomasz Kłopotowski, Sebastian Picheta, Barbara Porbska, Andrzej Antocznyk, Daria Schetz, Jacek Sein Anand, Magda / ukasik-Głocka, Paulina Pastuszka
62. In-hospital mortality after toxic exposures in Spain, the EXITOX project
Jordi Puiguriquer Ferrando, Ana Ferrer Dufol, Santiago Nogué Xarau
63. Toxicologic related deaths: A case series from 1970 to 2014
Francesco Gambassi, Primo Botti, Alessandra Ieri, Chiara Pracucci, Lara Bertieri, Guido Mannaioni

[£]Poster discussion session 6 see page 25

[§]Short-listed for Informa Best Case Report

64. Characteristics of deaths in subjects with post-mortem detection of cannabis: Preliminary results
Sophie Garapon, Nathalie Grosleron-Gros, Véronique Dumestre, Régis Bédry, Jean Hiquet, Emilie Christin, Sophie Gromb-Monnoyeur
65. Once upon a time the toxic related deaths: A case series from 1924 to 1960
Francesco Gambassi, Primo Botti, Alessandra Ieri, Chiara Pracucci, Lara Bertieri, Andrea Missanelli, Isabella Orsini, Guido Mannaioni, Emanuela Masini
66. Fatal poisonings in Estonia 2002-2013
Raido Paasma, Mailis Tõnisson, Triin Võrno, Cathrine Lund, Knut Erik Hovda
67. Fatal iron poisoning in an adult
Jonas Höjer, Paula Hernandez
68. Toxic deaths: Data from the Poison Control Centre of Morocco (CAPM)
Naima Rhalem, Hanane Chaoui, Lahcen Ouammi, Abdelmajid Soulaymani, Rachida Soulaymani-Bencheikh
69. Fatal intoxication with pharmaceutical agents: A 5-year epidemiological study
Julia V Radenkova-Saeva, Ralitzia B Atanasova
70. A fatal case of consumption of beta-methylphenylamine, caffeine and dexamphetamine
Kai Knudsen
71. Characteristics of deaths with detection of opioids in the body: Preliminary results
Sophie Garapon, Nathalie Grosleron-Gros, Véronique Dumestre, Régis Bédry, Jean Hiquet, Emilie Christin, Sophie Gromb-Monnoyeur

Forensic toxicology

72. Drug-facilitated sexual assaults in Italy: Final data of the VARD (Violence And date Rape Drugs) project
Sarah Vecchio, Emanuela Cortini, Francesca Chiara, Eleonora Buscaglia, Sabina Strano Rossi, Giovanni Serpelloni, Carlo A Locatelli
73. Use of incapacitating substances to commit robberies: The Italian experience
Sarah Vecchio, Emanuela Cortini, Monia Aloise, Eleonora Buscaglia, Sabina Strano Rossi, Giovanni Serpelloni, Carlo A Locatelli
74. The prevalence of marijuana in fatalities involving operators of motor vehicles in Denver County, Colorado, USA
Christopher O Hoyte, James Caruso
75. Characteristics of telephoned poisons information enquiries arising from British prisons: A report from the UK National Poisons Information Service (NPIS)
Patricia Gilmore, Peter Holmes, Leonard C Hawkins, Michael Eddleston, John P Thompson, J Allister Vale, Simon HL Thomas

76. Poison center utilization by law enforcement personnel
J Priyanka Vakkalanka, Anjali Kapil, Joshua D King, Christopher P Holstege
77. Utilization of uniform crime reports and poison center data to identify patterns in substance abuse
J Priyanka Vakkalanka, Emma Kingsbury, Joshua D King, Christopher P Holstege
78. Penetrating trauma and overdose: An uncommon combination in complex suicide attempts
Matthew K Griswold, Katherine L Boyle, Kavita M Babu, Jon D Dorfman

Veterinary toxicology

79. Severity of cholinergic side-effects after therapeutic use of the organophosphate diazinon (dimpylate) to combat flea infestations in cats and dogs
Anne A Kan, Marieke A Dijkman, Jan Meulenbelt, Irma de Vries
80. Be aware of renal toxicity in dogs following a small ibuprofen overdose
Marieke A Dijkman, Anne Kan, Jan Meulenbelt, Irma De Vries
81. Common toxic exposures of animals in the Netherlands: A report from the Dutch National Poisons Information Center
Anne A Kan, Henneke N Mulder-Spijkerboer, Marieke A Dijkman, Irma de Vries, Jan Meulenbelt
82. Is *Vipera berus* antivenom needed for pet treatment?
Marieke A Dijkman, Anne A Kan, Gerard Willemse, Jan Meulenbelt, Irma De Vries
83. Toxic effects due to ingestion of *Tradescantia spathacea* (Sw.) leaves by an adult dog
Eduardo M De Capitani, Jessica S Cunha, Silvia RC Gattai, Carla F Borrasca-Fernandes, Julie HA Dutilh
84. Ingestion of *Amanita pantherina* in a dog
Kristin O Seljetun, Jartrud W Skjerdal, Astrid Mordt
85. Lethal mushroom poisoning in a dog
Kristin O Seljetun, Helga R Lorentzen, Frederik L Dolva
86. Toxic deaths in cats and dogs reported to the Veterinary Poisons Information Service (VPIS)
Nicola Bates, Nick Edwards
87. Liquid detergent capsule exposure in cats and dogs
Andreia A De Sousa, Stella Matumo, Nick Edwards
88. Lipid infusion: An analysis of cases reported to the Veterinary Poisons Information Service (VPIS)
Philip Rawson-Harris, Nicola Bates, Nick Edwards
89. Palm oil ingestion in dogs
Nicola Bates, Jane Ellison, Nick Edwards

90. Canine exposure to jellyfish

Nicola Bates, Philip Rawson-Harris, Nick Edwards

91. Diclofenac ingestion in dogs: What are the risk factors associated with clinical signs?

Philip Rawson-Harris, Nicola Bates

92. Electronic cigarette ingestion in dogs

Nicola Bates, Joanna Crouchley, Nick Edwards

93. Nitroxylnil causes severe hyperthermia in dogs

Nicola Bates, Nick Edwards

94. Adder antivenom: The experience and opinions of veterinary professionals in the UK

Nicola Bates, Nick Edwards

Animal poisoning

*95. A multicentre cohort study of snake envenoming defines clinical syndromes and influences clinical practice

Geoffrey K Isbister, Nicholas A Buckley, Colin B Page, Simon GA Brown

‡96. Novel ciguatera shellfish poisoning (CSP) cluster after consumption of *Tectus niloticus*, a gastropod, in Nuku-Hiva, French Polynesia

Davide Lonati, Clémence M Gatti, Arturo Zancan, H Taiana Darius, Myriam Fleure, Mireille Chinain, Michelangelo Buonocore, Carlo Alessandro Locatelli

*97. Viper envenomation in Italy: Clinical course, laboratory investigations and antivenom treatment in a case series (2002-2012) from Pavia Poison Centre

Andrea Giampreti, Gianluca Melatini, Davide Lonati, Sarah Vecchio, Valeria M Petrolini, Francesca Chiara, Monia Aloise, Marta Crevani, Carlo A Locatelli

98. A novel strategy for identifying *Naja atra* species-specific venom antigen C3 for developing cobra snakebite confirmation test in Taiwan

Chih-Chuan Lin, Chien-Chun Liu, Jau-Song Yu

‡99. Incidence and clinical characteristics of lionfish poisoning in Martinique

Dabor Résière, Laura Cerland, Ruddy Valentino, Cyrille Chabartier, Stephane Kaidomar, Luc De Haro, Bruno Mégarbane, Hossein Mehdaoui

100. Severe envenomation by *Bothrops venezuelensis*

Katrin Faber, Daniel Tuchscherer, Maria Martinez, Joan Fuchs, Dimitios A Tsakiris, Katharina E Hofer

*Short poster oral ó see page 11

‡Poster discussion session ó see page 25

101. Treatment of black widow spider (*Latrodectus mactans*) envenomation: A review of 53 cases
Eleni Basanou, Angeliki Kaloustou, Vassiliki Sofidiotou, Kostas Fountas, Diomedes Kalantzopoulos, Vassiliki Papathanassiou, Polyxeni Neou
102. Coral snake bites in Brazil: A review
Fabio Bucarety, Eduardo M De Capitani, Stephen Hyslop, Cinthia K Rodrigues, Marlene Zannin, Nelson J Da Silva, Jose Yamin Risk, Luciana L Casais E Silva
103. Multidisciplinary proposal of loxoscelism management: A clinical case
Giscardo F Panzavolta, Andrea Stella, Maria Laura Zuccoli, Ilaria Rebutti, Fabrizio Sesana, Fabio S Garuti, Roberto Fumagalli, Franca Davanzo
104. A snake bite by Dinniki's Viper
Verena Schrettl, Norbert Felgenhauer, Florian Eyer
105. Viper bites on the left and right hand side of the River Rhine: Comparison of experiences in the poisons centres in Freiburg and Strasbourg
Uwe Stedtler, Christine Tournoud, Françoise Flesch, Maren Hermanns-Clausen

Poisoning in specific populations

- ‡106. Specific issues of the clinical picture and evolution in acute toxic methemoglobinemia in children
Viorela Nitescu, Dora Boghitoiu, Iuliana Gherlan, Catalin Stemate, Doina Coman, Alexandru Ulmeanu, Coriolan Ulmeanu
107. Unintentional medication errors in children under the age of 1 year reported to the National Poisons Information Centre of Ireland
Nicola Cassidy, John X Herbert, Patricia B Casey, Edel Duggan
108. Self-poisoning in the elderly: A 10-year observational study
Emma E Morrison, James W Dear, Euan A Sandilands
- *109. Analysis of enquiries about antiretroviral therapy (ART) involving neonates, as reported to the UK National Poisons Information Service (NPIS)
Rebecca ML Waugh, Muhammad EMO Elamin, Lucy C Peart, J Allister Vale, John P Thompson, Michael Eddleston, Simon HL Thomas
110. Paracetamol toxicity in an extremely preterm neonate after an inadvertent intravenous overdose: A case report
Pirjo I Tynjälä, Janne T Backman, Maria Karjalainen, Kalle Hoppu

‡Poster discussion session ó see page 25

*Short poster oral ó see page 9

‡111. Child poisonings with methadone in France: A 6-year prospective national survey since the availability of capsules in 2008

Luc de Haro, Cyndie Picot, Mathieu Glaizal, Romain Torrents, Florence Cardona

‡112. Cluster of naphazoline and phenylephrine intoxications in children due to a compounding pharmacy error

Yves Haerden, Elisabeth Goossens, Martine Mostin

‡113. Long-term effects of vitamin D poisoning in children

Evgeny A Luzhnikov, Galina N Sukhodolova, Yury N Ostapenko, Liliya A Kovalenko, Alexander S Kovalchuk

114. Methemoglobinemia due to dapsona in a child: Follow up after therapeutic intervention using non-invasive pulse co-oximeter

Eduardo M De Capitani, Carla F Borrasca-Fernandes, Fábio Bucarectchi

115. Chronic ayurvedic medicine use in pregnancy associated with fetal abnormalities

Anselm Wong, Paul I Dargan, Zeff Koutsogiannis, Shaun L Greene

116. Poisoning exposures in infants: Data from the Tygerberg Poison Information Centre, Cape Town, South Africa

Carine J Marks, Daniel J Van Hoving, Cherylynn A Wium, Catherina E Du Plessis

117. Cardiac ischemia and rhabdomyolysis associated with 2,4-dinitrophenol misuse for weight loss and body building in a pediatric patient

Philip Craven, Casey Turner, Brian Galovic, E Martin Caravati

‡118. Levetiracetam intoxication in a preterm infant due to a medication error

Emma Talikka, Kalle Hoppu, Pirjo Tynjälä, Liisa Rovamo

119. Effects on the neonate of maternal abuse of drugs during pregnancy

Purificación Ventura Facil, Pilar Samper Villagrasa1, Sebastian Menao Guillen, Clara Serrano Ferrer, Ana Ferrer Dufol

120. Head injury or intoxication? Unidentified eye drop ingestion resulting in naphazoline toxicity in a toddler

Hwee Min Lee, Andis Graudins

121. Acute poisoning in patients with mental disorders

Julia V Radenkova-Saeva, Anelia M Loukova

122. Toxic coma in children and related mortality: A retrospective study of 9 years in a Pediatric Emergency Department

Simona Stanca, E Madalina Petran, Coriolan E Ulmeanu

‡Poster discussion session ó see page 25

123. Accidental hashish ingestion in children: A Pavia Poison Centre case series

*Monia Aloise, Andrea Giampreti, Sarah Vecchio, Valeria M Petrolini, Davide Lonati,
Carlo A Locatelli*

124. Accidental ingestion of Portion snus may cause delayed onset of symptoms

Merethe M Schei, Liv IF Beck, G Vibeke Bakken

125. Poisoning by substances of abuse among children: Data from the Moroccan Poison Control Center, 2008-2012

*Hanane Chaoui, Naima Rhalem, Mohamed Badri, Lahcen Ouammi, Abdelmajid Soulaymani,
Rachida Soualymani Bencheikh*

126. Severe acute poisoning in children: A 5-year retrospective study

E Madalina Petran, Simona Stanca, Coriolan E Ulmeanu

127. Pharmacovigilance in pediatrics: Medication errors reported to National Milan Poison Control Center

*Maria L Zuccoli, F Giscardo Panzavolta, Laura Settimi, F Andrea Stella, M Adriana Tomoiaga,
Leonardo Molino, Marcello Ferruzzi, Fabrizio Sesana, Franca Davanzo*

128. Suicidal adolescents: Examining self-poisonings within the pediatric population

*Lynn A Farrugia, Katherine L Boyle, Jennifer L Carey, on behalf of the
Toxicology Investigators Consortium*

Critical care

*137. Rapid cooling via ice water submersion for severe drug-induced hyperthermia

Larissa K Laskowski, Adaira Landry, Susi U Vassallo, Robert S Hoffman

£138. Toxic exposures in young children resulting in tracheal intubation

Benjamin W Hatten, Gillian A Beauchamp

£139. Too bad to be true? Osmol gap >300 mOsm/L

Vincent Nguyen, Scott N Lucyk, Mary Ann Howland, Mark K Su, Lewis S Nelson

£§140. Severe hypertensive crisis and takotsubo cardiomyopathy after intrathecal clonidine pump failure

Varuna Ruggoo, Hwee Min Lee, Andis Graudins

§141. Special populations: Pediatric propofol infusion syndrome treated with extracorporeal membrane oxygenation, hemodialysis and carnitine

Rebecca E Bruccoleri, Diana J Felton, Michele M Burns

*142. Air transport of a severe salicylate intoxicated patient: Unforeseen risks

Rita G McKeever, Gregory S LaSala, David Vearrier, Michael I Greenberg

*143. Intoxicated ICU patients: Not only high long-term mortality but also high risk for a low quality of life

Raya Brandenburg, Ivo W Soliman, Jan Meulenbelt, Dylan W de Lange

144. Critical limb ischemia after intra-arterial injection of dissolved clorazepate dipotassium tablets

Jochen Stenzel, Ursula Tanase, Gabriele Dostal, Norbert Felgenhauer, Florian Eyer

145. Pentobarbital coma with loss of pupillary light reflex

Gregory S LaSala, Kara J Sexton, Jolene Okaneku, Casey Hand, David Vearrier, Michael I Greenberg

146. Compartment syndrome secondary to neuroleptic malignant syndrome

Gregory S LaSala, David Vearrier, Michael I Greenberg

147. Acute fulminant fat embolism syndrome following high-volume intramuscular and accidental intravascular injection of paraffin/oil-based steroid solution

Mathias Hjort, Lotte CG Hoegberg, Merete Almind, Tejs Jansen

*148. Multiple intensive care admissions associated with analytically confirmed recreational use of phenibut (-phenyl- -amniobutyric acid) purchased over the Internet

Anselm Wong, Mark Little, David Caldicott, Chris Easton, Daniel Andres, Shaun L Greene

*149. How to evaluate the severity of lithium-poisoned patients admitted to the intensive care unit?

Dominique Vodovar, Emmanuel Curis, Souleiman Elbalkhi, Bruno Mégarbane

*Short poster oral ó see page 20

£Poster discussion session ó see page 37

§Short-listed for Informa Best Case Report

150. Admission criteria in pediatric intensive care units in acute poisoning
Coriolan Ulmeanu, Florin Rusu, Anca Slavila, Irina Davidescu, Cristian Tanase, Dan Gavrus, Valeria Vlasceanu, Iuliana Gherlan, Dora Boghitou, Viorela Nitescu
151. Prolonged mixed metabolic and toxic encephalopathy in carbamazepine poisoning
Radu Macovei, Ilenuta Danescu, Genica Caragea, Mihai Ionica
152. Acute lipoid pneumonia presenting as acute coronary syndrome in an amateur fire breather
Michael C Galante, Mark D Levine
153. Paroxysmal atrial fibrillation after cannabis smoking
Ilenuta Danescu, Radu Macovei, Genica Caragea, Mihai Ionica
154. Atypical neuroimaging findings in a patient presenting with overdose: A case report
Jawaid Akhtar, Emily Brant, Daniela Morato, Joseph H Yanta
155. Abstract withdrawn
284. Diffuse alveolar hemorrhage following synthetic cannabinoid abuse
Danielle K Matilsky, Kevin Davey, Allegra Long, David Terca, Jason Chu

Poisoning management

- [‡]156. Analysis of clinical factors that predict diagnosis in suspected acute poisoning
Robert Camilleri
157. Analysis of risk factors that predict severity of acute poisoning
Robert Camilleri
158. Importance of abdomen CT scan and gastroscopic pharmacobezoar removal following massive acute drug overdose
Filippo Gori, Marco Cirronis, Alessandra Ieri, Valentina Galli, Francesco Gambassi, Manuela Bonizzoli, Laura Tadini Boninsegni, Guido Mannaioni
159. Endoscopic retrieval of enteric-coated aspirin tablets in massive overdose
Ann M Arens, Hallam M Gugelmann, Salman A Rhaman, Craig Smollin
160. Acute poisonings and rhabdomyolysis: A 10-year retrospective study in a medical university clinic
Marie Vangstad, Mari A Bjornaas, Dag Jacobsen

[‡]Poster discussion session 6 see page 39

161. Modern intermittent haemodialysis (IHD) is an effective method of removing salicylate in chronic topical salicylate toxicity

Anselm Wong, Kathy Mac, Anders Aneman, Jeffrey Wong, Betty S Chan

162. Massive carbamazepine overdose treated with continuous veno-venous hemodialysis

Craig Smollin, Annie Arens, Mathew S Petrie, Thomas Kearney

163. Accidental intrathecal administration of bleomycin: Favourable outcome after cerebrospinal fluid exchange

Judith Cottin, Elodie Jean-Bart, Jean M Saponi, Alexandre Pirolet, Marie C Perrin, Thierry Vial

164. Complete spinal paralysis following a brachial plexus block treated with lipid infusion

Richard D Shih, Diane Calello

165. Hemodialysis in glycine toxicity

Christopher Styles, Richard D Shih, Diane Calello

166. Safety and efficacy of phenobarbital for benzodiazepine detoxification

Maria Sili, Francesco Gambassi, Carlo Smorlesi, Brunella Occupati, Guido Mannaioni

167. Treatment of hospitalized acute poisonings in Estonia (EstTox 2009)

Raido Paasma, Triin Võrno, Cathrine Lund, Knut Erik Hovda

168. Ventricular tachycardia in mixed drug overdose treated successfully with lidocaine and magnesium sulfate

Ching-Hsing Lee, Chun-Kuei Chen, Meng-Huan Wu

169. Isoniazid poisoning: Pharmacokinetics and effect of dialysis after massive ingestion

Kirsty Skinner, Ana Saiao, Ahmed Mustafa, Jessica Soderstrom, Gregory Medley, Michael S Roberts, Geoffrey K Isbister

170. Intravenous lipid emulsion for treatment of local anesthetic systemic toxicity

F Andrea Stella, F Giscardo Panzavolta, Fabrizio Sesana, Maria L Zuccoli, Valeria Dimasi, Marcello Ferruzzi, Paolo Severgnini, Franca Davanzo

Chemical poisoning

^s171. Acute renal failure and neurological damage after topical application of brake fluid containing diethylene glycol

Sarah Vecchio, Valeria M Petrolini, Davide Lonati, Andrea Giampreti, Laura Zaratini, Rita Bertuetti, Carlo A Locatelli

172. How common are exposures to soluble film automatic dishwashing products in the UK? A retrospective UK National Poisons Information Service (NPIS) study conducted from January 2008 to October 2014

Rachael C Day, Michael Eddleston, Simon HL Thomas, John P Thompson, J Allister Vale

^sShort-listed for Informa Best Case Report

173. Has the International Association for Soaps, Detergents and Maintenance Products (AISE) product stewardship programme had an impact on the number of liquid laundry detergent capsule exposures reported to the UK National Poisons Information Service (NPIS)?

Rachael C Day, Michael Eddleston, Simon HL Thomas, John P Thompson, J Allister Vale

174. Incidence of carbon monoxide intoxication in Belgium

Marijke Fortuin, Bernadette Tissot, Martine Mostin

*175. Acute pulmonary injuries from chlorine-based swimming pool disinfectants in northern Germany

Martin Ebbecke, Rafael Wagner, Herbert Desel, Andreas Schaper

176. MAGAM II: Prospective observational multicentre poisons centre study on eye exposures caused by cleaning products

Maren Hermanns-Clausen, Herbert Desel, Elke Färber, Carola Seidel, Angelika Holzer, Florian Eyer, Antje Engel, Dagmar Prasa, Erol Tutdibi, Andreas Stürer

177. Trends in cyanide exposures reported to the UK National Poisons Information Service (NPIS) from 2008 to 2012

Nicola Wheatley, Gillian A Cooper, John P Thompson, J Allister Vale, Michael Eddleston, Simon HL Thomas, James M Coulson

178. Epidemiology and clinical characteristics of hydrofluoric acid (HF) exposures: 6-years' experience of the Pavia Poison Control Centre

Davide Lonati, Sarah Vecchio, Andrea Giampreti, Valeria M Petrolini, Marta Crevani, Carlo A Locatelli

179. A rare complication of ethyl acetate poisoning

Chun Kuei Chen

180. Caustic exposures reported to the Belgian Poison Centre

Geert Versteegen, Martine Mostin

*181. 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

Axel Hahn, Monika Fischer, Dorothee Walter, Clemens Dasenbrock, Wolfgang Koch, Kathrin Begemann, Matthias Greiner

182. Delayed life-threatening airway edema after caustic ingestion in a child

Daniel J Sessions, Vikhyat S Bebartha, Joseph K Maddry

183. Kettle descalers: A brewing issue

Gloria Alldridge, Stephen Jones, J Allister Vale, Michael Eddleston, Simon HL Thomas, John P Thompson

184. Update: Cases of aerotoxic syndrome reported to BfR

Nina Glaser, Kathrin Begemann, Esther Feistkorn, Axel Hahn

*Short poster oral ó see pages 21 and 23

185. Drinking strep test reagents: A case of nitrite poisoning
Vivian M Dalaker, Odd Martin Vallersnes, Linn E Fosshaug, Kirsti S Andersson, Knut Erik Hovda
- *186. Carbon monoxide poisoning: Comparison between French and German monitoring systems
Christine Tournoud, Uwe Stedtler, Laurent Berthelon, Maren Hermanns-Clausen, Agnès Verrier, Ingrid Blanc, Françoise Flesch
187. Liquid laundry pods on either side of the Rhine
Christine Tournoud, Uwe Stedtler, Maren Hermanns-Clausen, Ingrid Blanc, Laurent Berthelon, Françoise Flesch
188. Current status of carbon monoxide poisoning in Belgium
Marijke Fortuin, Martine Mostin
189. Pediatric exposures to laundry detergent capsules
Anna Celentano, Fabrizio Sesana, Laura Settimi, Giordano Felice, Leonardo Molino, Beatrice Giliotti, Ilaria Rebutti, Valeria Dimasi, Franca Davanzo
190. Inquiries to the New Zealand Poisons Centre concerning exposures to aerosol oven cleaners
Richard W Mason, Robin J Slaughter
- *191. The European Chemical Emergency Network (ECHEMNET): An EU-level network of experts to respond to cross-border chemical incidents
Charlotte V Hague, Rob Orford, Herbert Desel, Andreas Schaper, Lisbeth Hall, Sally Hoffer, Ann Goransson Nyberg, Per Leffler, Elisabeth Wigenstam, Agneta Plamboeck, Jiri Trnka, María del Carmen García Cazalilla, Jesus Ocaña García-Donas, Jose Javier García del Aguila, Raquel Duarte-Davidson
192. Reports on cases of poisoning from eye exposure, in particular, detergents and cleaning agents
Kathrin Begemann, Nina Glaser, Matthias Greiner
193. Spurious serum chloride measurement in severe metabolic disturbance associated with 2-butoxyethanol ingestion
Michael A Downes, Ingrid L Berling, Tim H Stanley, Geoffrey K Isbister
194. Retrospective analysis of oral exposure to vinegar essence in Austria, 2002-2013
Tara Arif, Kinga Bartecka-Mino, Helmut Schiel, Angelika Holzer, Dieter Genser
- *195. Fear of secondary exposure of healthcare personnel can lead to disproportionate measures
Ronald de Groot, Antoinette JHP van Riel, Gerard A van Zoelen, Marianne EC Leenders, Irma de Vries, Jan Meulenbelt
196. Dichloroethane as a cause of Parkinsonism: A case report
Jonas Surkus, Kristina Lauckaite, Danguole Surkiene, Ruta Leksiene, Marius Perminas

*Short poster oral ó see pages 23 and 24

197. Ethylene glycol poisonings associated with acute kidney injury in the Slovak Republic
Silvia Plackova, Blanka Caganova, Petra Faltanova, Tomas Liptak, Olga Otrubova, Jaroslav Kresanek
198. Complicated diagnosis of ethylene glycol poisoning: A case report
Ruta Leksiene, Laima Peleckaite, Inga Skarupskiene, Asta Stankuviene, Jonas Surkus, Vytautas Kuzminskis, Inga Arune Bumblyte, Edita Ziginiskiene
199. Dishwasher tablets: Corrosive or irritant following accidental exposure?
Feargal O' Connor, Patricia B Casey, Edel Duggan
200. Extensive rhabdomyolysis enhanced acute renal failure in a severe delayed ethylene glycol poisoning
Ilenuta Danescu, Radu Macovei, Genica Caragea, Mihai Ionica
201. Hydrogen sulfide poisonings in Denmark 2004-2014
Julie Volk, Niels E Ebbenhøj
202. The dangers of chlorinated pools: A case of severe keratitis and episcleritis
Mara Pisani, Davide Lonati, Giorgia Bottaro, Annamaria C Musolino, Umberto Raucci, Massimo Crisogianni, Marco Marano
203. Use of a polyamphoteric solution in the event of ocular and cutaneous chemical accidents: 12 cases
Jean-Luc Fortin, Philippe Paulin, Marie-Pierre Bitar, Jacqueline Payre, François Ravat, Lucien Bodson, Jean-Michel Macher
204. The effectiveness of patient-tailored treatment for acute organophosphate poisoning
Chih-Chuan Lin, Dong-Zong Hung, Hsien-Yi Chen, Kuang-Hung Hsu
- Pesticide poisoning**
205. Acute human toxicity of emamectin
Wang TeHao, Wu Ming-Ling, Ger Jin, Tsai Wei-Jen, Deng Jou-Fang, Yang Chen-Chang
206. PiCCO interpretation for acute glyphosate intoxication with shock: Favors cardiogenic origin
Cho Ju Wu, Chih Chuan Lin
207. Glyphosate intoxication resulting in ventricular dysrhythmias and cardiogenic shock
I-Lin Wu, Chih-Chuan Lin
208. Acute poisoning with the neonicotinoid insecticide imidacloprid misdiagnosed as organophosphate intoxication
Shih-Hao Wu, Chun-Kuei Chen, Chih-Chuan Lin

209. Successful treatment with hemodialysis for acute renal failure after glyphosate poisoning: A case report

Meng-Huan Wu, Ching-Hsing Lee

210. Chlorfenapyr intoxication: A fatal case with acute pancreatitis

Hung-Sheng Huang, Chih-Chuan Lin

211. Cardiovascular findings in a prospective case series of fatal diazinon poisoning in children

C Iolanda Vivisenco, Coriolan E Ulmeanu

212. Acute pancreatitis in carbofuran poisoning: A case report

Ilenuta Danescu, Radu Macovei, Genica Caragea, Mihai Ionica

213. A dangerous sip: Acute copper nitrate accidental poisoning in a child

Andrea Giampreti, Monia Aloise, Valeria M Petrolini, Anna Ronchi, Carlo A Locatelli

214. Abstract withdrawn

215. Epidemiology of acute pesticide poisoning in Greece: A 2-year analysis

Chrysanthi Kafkala, Angeliki Kalostou, Eleni Basanou, Kostas Fountas, Vassiliki Sofidiotou, Spyridoula Zoniou, Polyxeni Neou

216. Severe amitraz poisoning in a teenager

E Madalina Petran, Simona Stanca, Coriolan E Ulmeanu

217. Severe but reversible toxicity with aldicarb ingestion

Adam Michael, Ahmed Mustafa, Gregory Medley, Jeffrey Grice, Michael S Roberts, Geoffrey K Isbister

218. Two cases of severe methomyl pesticide intoxication

Byung Hak So, Kyungman Cha

Metal poisoning

[£]^{\$}219. Massive parenteral manganese overdose: Minimal role for hemodialysis

Elizabeth Q Hines, Irfana Soomro, Mary Ann Howland, Robert S Hoffman, Silas W Smith

220. Pregnancy outcome after metal-on metal hip arthroplasty: A case report

Chiara Pracucci, Isabella Orsini, Maria Cristina Aprea, Brunella Occupati, Guido Mannaioni, Carlo Smorlesi, Francesco Gambassi, Alessandra Pistelli

221. BfR case series of elevated metal levels caused by metal-on-metal implants

Axel Hahn, Kathrin Begemann, Esther Feistkorn, Matthias Greiner

[£]Poster discussion session 6 see page 37

^{\$}Short-listed for Informa Best Case Report

222. Evaluation of human cases with elemental and inorganic mercury exposure compared to German human biomonitoring (HBM) values

Axel Hahn, Maren Prochnow, Kathrin Begemann, Esther Feistkorn

223. Assassination with arsenic: A special case

Marianne EC Leenders, Ronald De Groot, Irma De Vries, Jan Meulenbelt

224. Risk of lead poisoning in patients with retained lead fragments in the body

Claire Masson-Samoyault, Régis Bédry, Estelle Sudre, Pierre Brun, Nahid Nadjimi-Sarram, Sophie Gromb-Monnoyeur

225. Cobalt cardiotoxicity in a patient with bilateral metal-on-metal (MoM) arthroplasty

Christine Payen, Corine Pulce, Jean-Marc Saporì, Thierry Vial

Food poisoning

226. Clinical management of foodborne botulism poisoning in emergency setting: An Italian case series

Davide Lonati, Luigi Flore, Sarah Vecchio, Andrea Giampreti, Valeria M Petrolini, Fabrizio Anniballi, Dario De Medici, Carlo A Locatelli

[§]227. Botulism caused by vacuum packed whitefish (*Corregonus lavaretus*)

Mark Personne, Ann-Sofi Skagius

228. Dangerous palytoxin exposure after boiling coral

Emanuela Cortini, Davide Lonati, Valeria M Petrolini, Andrea Giampreti, Aurelia Tubaro, Carlo A Locatelli

229. LSD poisoning after ingestion of contaminated beef in a family of four

Alfred Aleguas, Julia M Pearson, Tamas R Peredy

230. Deadly threat in the preserving jar

Helmut Hentschel, Dagmar Prasa, Germaine Frimlova, Simone Just, Gisela Liebetrau, Bettina Plenert, Anne Stuerzebecher, Michael Deters

Mushroom poisoning

^{£§}231. Accidental *Panaeolus foenisecii* exposures: No clinically relevant effects in children

Katharina M Schenk-Jaeger, Bettina Plenert, Dagmar Eckart, Bettina Haberl, Gabriele Schulze, Janine Borchert-Avalone, Uwe Stedtler, Rudolf Pfab

232. Lights and shadows of urinary amanitin concentration in clinical practice

Giuseppe Musella, Francesca Assisi, Franca Davanzo, Selene Gaviraghi, Adriano Masarin, Paolo Severgnini, Paola Angela Moro, Fabrizio Sesana

[£]Poster discussion session ó see page 37

[§]Short-listed for Informa Best Case Report

233. Mushrooms poisoning in Italy: A 2-year case series (2012-2013) from the Pavia National Poison Centre

Sarah Vecchio, Andrea Giampreti, Valeria M Petrolini, Davide Lonati, Francesca Chiara, Marta Crevani, Teresa Coccini, Carlo A Locatelli

234. Mushroom poisoning: A proposed new clinical classification

Julian White, Scott Weinstein, Luc De Haro, Regis Bedry, Andreas Schaper, Barry Rumack, Thomas Zilker

235. How can we reduce the number of mushroom poisonings among immigrants and tourists?

Eva K Olsson, Ulla Westberg

236. A rare case of acute renal failure related to *Amanita proxima* ingestion

Andrea Mancini, Pernina Angelini, Francesca Assisi, Michele Bozzi, Cristoforo Cuzola, Vincenzo Giancaspro, Elvira Laraia, MariaTeresa Nisi, Stefano Balestreri, Anna R Proscia, Giuseppe Tarantino, Ottavio Vitale, Francesco Petrarulo, Franca Davanzo

237. From delightful mushroom to poisoning: A Danish mushroom syndromes survey

Line Lydeking, Christian HR Hansen, Niels E Ebbehøj, Lotte CG Hoegberg

238. Evaluation of the benefit of a mushroom identification service for the National Poisons Information Centre, Norway in 2013-2014

Kristin O Seljetun, Marte Espeland

239. Pediatric mushrooms poisoning: A fairy tale to warn children and adults

Fabrizio Sesana, Francesca Assisi, Rossana Borghini, Anna Celentano, Marcello Ferruzzi, Leonardo Molino, Franca Davanzo

240. Mushroom poisoning: A descriptive study of 19 cases

Ona Escoda, Santiago Nogué, Jordi To-Figueras, Gregori Casals

Plant poisoning

[£]241. Intensive support therapy and mortality in *Colchicum autumnale* poisoning

Miran Brvar

[£]242. Poisoning with *Cicuta virosa* in Sweden

Sonny Larsson, Ulla Westberg, Javid Hussain, Ulf Göransson

243. *Nerium oleander* ingestions are relatively benign

Edward P Krenzelo

244. Attempted suicide by ingestion of ricin soup

Agnes G van Velzen, Iris C van Sommeren-de Potter, Meyno O den Dulk, Antoinette JHP van Riel, Jan Meulenbelt, Irma de Vries

[£]Poster discussion session ó see page 39

245. Poisoning due to Wisteria seed ingestion: The Pavia Poison Centre case series

Marta Crevani, Valeria M Petrolini, Davide Lonati, Andrea Giampreti, Monia Aloise, Giulia Scaravaggi, Carlo A Locatelli

246. Culinary mistakes involving daffodils: Do you know your onions?

Sian CD Harbon, Gillian A Cooper, J Allister Vale, Michael Eddleston, Simon HL Thomas, John P Thompson

247. Three ðtoxicö plants

Alison M Good, Caroline McGrory, Simon HL Thomas, John P Thompson, J Allister Vale, Michael Eddleston

248. Abstract withdrawn

249. Acute liver injury after ingestion of rhubarb leaves: A case report

Ruth Kastianje, Mare Oder, Kristiina Põld

250. Plants: Analysis of exposures reported to the National Milan Poison Control Center (2010-2013)

Chiara Falciola, Maria Laura Zuccoli, Leonardo Molino, Beatrice Giliotti, Maria L Colombo, Fabrizio Sesana, Franca Davanzo

Experimental toxicology / Mechanisms of toxicity

251. Opioids may bind protein targets associated with the serotonin syndrome

Keith K Burkhart, Darrell Abernethy

252. *In vitro* inhibition of aldehyde-dehydrogenase by mushroom extracts

Rudolf Pfab, Katrin Romanek, Bettina Haberl, Florian Eyer

253. Abstract withdrawn

254. Abstract withdrawn

[£]255. A novel screening method to detect *in vitro* neurotoxicity: Effects of illicit drugs on neuronal activity

Laura Hondebrink, Steffie W Drega, Regina GDM van Kleef, Remco HS Westerink, Jan Meulenbelt

256. Mitochondrial toxicity of valproic acid and its reversion using L-carnitine: First results from an experimental model

Agathe Potier, Lucie Chevillard, Patricia Risède, Kelly Da Silva, Philippe Manivet, Bruno Mégarbane

[£]Poster discussion session ó see page 37

Occupational and environmental poisoning

*257. Characteristics of occupational fatalities from inhalation injury in confined versus non-confined spaces (2003 to 2010)

Jolene Okaneku, Rita McKeever, David Vearrier, Michael I Greenberg

*258. 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

Francesca Chiara, Davide Lonati, Andrea Giampreti, Valeria M Petrolini, Sarah Vecchio, Carlo A Locatelli

259. Unintentional needlestick injuries in livestock production

D Michael G Beasley, Lucy M Shieffelbien, Wayne A Temple

260. Tympanic membrane perforation and cranial nerve VII and VIII injury due to a hot metal injury: A case report

Brian Cone, Jawaid Akhtar, Nathan Menke, Emily Brant

*Short poster oral ó see pages 21 and 23

Classic and new drugs of abuse

270. Acute neuro-respiratory toxicity of 3,4-methylenedioxypropylamphetamine: An experimental study in the rat

Nadia Benturquia, Lucie Chevillard, Cyril Masnere, Nihad Hamadco, Olivier Roussel, Patricia Risède, Jacques Callebert, Paul Dargan, Bruno Mégarbane

*271. Do users of novel psychoactive substances take what they think they take? An overview of drug product contents analysed within the Swedish STRIDA project

Matilda Bäckberg, Erik Lindeman, Olof Beck, Karl-Henrik Jönsson, Anders Helander

272. Increased use of new psychoactive substances (NPS) in the Netherlands

Johanna J Nugteren-van Lonkhuyzen, Laura Hondebrink, Daan van der Gouwe, Tibor M Brunt

273. Nopaine No Gain: A case of recreational ethylphenidate toxicity

George P Bailey, James H Ho, Simon Hudson, John RH Archer, Paul I Dargan, David M Wood

*274. Acute autonomic and psychotropic effects of LSD in healthy subjects in a placebo-controlled study

Yasmin Schmid, Patrick C Dolder, Matthias E Liechti

275. MDPV in Sweden: Checked-in, never left. Differences in market cycles of New Psychoactive Substances

Maria Enghag, Karin Feychting, Erik Lindeman

276. Acute intoxications by synthetic cannabinoids in the emergency system: An Italian case series

Carlo A Locatelli, Sarah Vecchio, Andrea Giampreti, Eleonora Buscaglia, Azzurra Schicchi, Pierangela Grignani, Giovanni Serpelloni

^s277. Bad trip due to 25I-NBOMe: A case report from the EU Project SPICE II Plus

Maren Hermanns-Clausen, Verena Angerer, Josephine Kithinji, Christina Grumann, Volker Auwärter

278. Emergency department admissions due to disulfiram-ethanol interaction

Kristof Segher, Walter Buylaert, Peter De Paepe

279. Abstract withdrawn

280. Laboratory confirmation of recreational drugs in Oslo, Norway

Per Sverre Persett, Odd Martin Vallersnes, Elisabeth L Øiestad, Ritva Karinen, Stig Tore Bogstrand, Fridtjof Heyerdahl, Knut Erik Hovda

281. Acute poisoning by DOC (2,5-dimethoxy-4-chloroamphetamine): Report of 6 cases presenting together at the Emergency Department

Jorge Navarro Calzada, Roman Royo Hernandez, Sergio Duerto Cebollada, Emilia Civeira Murillo, Sebastian Menao Guillen, Ana Ferrer Dufol

*Short poster oral ó see page 32

^sShort-listed for Informa Best Case Report

282. Acute health problems due to recreational drug use in patients presenting to an urban emergency department in Switzerland

Evangelia Liakoni, Patrick C Dolder, Katharina Rentsch, Matthias E Liechti

283. Novel psychoactive substances: Findings in a regional toxicology center in 2014

Dieter Müller, Hartmud Neurath, Simone Just, Gesine Liebetrau, Herbert Desel

284. Has been moved to Thursday (critical care theme)

285. Psychosis associated with acute poisoning by recreational drugs and novel psychoactive substances: A European case series from the Euro-DEN project

Odd Martin Vallersnes, Alison M Dines, David M Wood, Christopher Yates, Fridtjof Heyerdahl, Knut Erik Hovda, Isabelle Giraudon, Paul I Dargan, on behalf of the Euro-DEN research group

286. When a law for terrorism risk provides help in the discovery of new psychoactive substances (NPS)

Francis Grossenbacher, Jean Marc Sapori, Catherine Feliu, Jean Michel Gaulier, Helene Marty, Carole Carolet

287. Severe poisoning after nasally administered mixture of NBOMe compounds: A case report

Alexandra Boucher, Romain Hernu, Antony Citterio-Quentin, Mustapha Moulisma, Luc Humbert, Thierry Coulon, Thierry Vial

288. Severe agitation due to novel synthetic cannabinoid abuse treated with prehospital ketamine

Janetta L Iwanicki, Whitney J Barrett, Dazhe J Cao, Jennie A Buchanan, Omeed Saghafi, Kennon J Heard, Kevin E McVane

289. Therapeutic difficulties with a symptom-triggered regimen for alcohol withdrawal syndrome

John RH Archer, David M Wood, Anna M Watson, Paul I Dargan

290. Respiratory depression and ventilatory support in synthetic cannabinoid exposures: Report from the ToxIC Registry

Diane P Calello, Richard D Shih, Alex B Troncoso, On Behalf of the ACMT Toxicology Investigators Consortium (ToxIC)

291. Spice or marijuana: What's the difference?

Mark Su, Maria Mercurio-Zappala, Robert S Hoffman

292. Calls to the Finnish Poison Information Centre concerning drugs of abuse 2010-2013

Mervi Saukkonen, Sanne Toivonen, Anna-Mariia Termälä, Kalle Hoppu

293. Presenting symptoms in GHB poisoned patients are independent of concomitant drugs

Mojca Skafar, Damjan Grenc, Miran Brvar

294. Stress-induced cardiomyopathy and delayed fatal dysrhythmia after huffing 1,1-difluoroethane

Joseph H Yanta, James R Boulden, Andrew M King, Michael G Abesamis, Nathan B Menke

295. Levamisole: A high-risk cocaine adulterant

Santiago Nogué, Jordi To-Figueras, Gregori Casals, José-M Mascaró, José Hernández-Rodríguez, Victor Gil

296. Mixed benzodiazepine-heroin acute toxicity is associated with more severe toxicity than heroin toxicity not associated with benzodiazepine use

Paul I Dargan, Alison M Dines, Fridtjof Heyerdahl, Christopher Yates, Isabelle Giraudon, Knut Erik Hovda, David M Wood, on behalf of the Euro-DEN Research Group

297. Perception of prescription drug safety in an online national survey in the United Kingdom

David M Wood, Paul I Dargan, Andrea C Besharat, Erin M Martinez, Jody L Green

298. Review of the European-Drug Emergencies Network (Euro-DEN) training package for non-specialist workers to assess acute recreational drug and novel psychoactive substance (NPS) toxicity in night-time economy environments

David M Wood, Alison M Dines, Fridtjof Heyerdahl, Christopher Yates, Isabelle Giraudon, Raido Paasma, Knut Erik Hovda, Paul I Dargan, on behalf of the Euro-DEN Research Group

299. Deaths involving recreational drugs and novel psychoactive substances reported to the European Drug Emergencies Network (Euro-DEN): A review of the first 9 months

Alison M Dines, Paul I Dargan, Knut Erik Hovda, Fridtjof Heyerdahl, Christopher Yates, Isabelle Giraudon, David M Wood, on behalf of the Euro-DEN Research Group

Medicine abuse

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

Anselm Wong, Dawson Macleod, Jeff Robinson, Zeff Koutsogiannis, Andis Graudins, Shaun L Greene

*301. Estimating nonmedical use of prescription opioids in the USA from social media

Michael Chary, Nick Genes, Christophe Giraud-Carrier, Carl Hanson, Lewis Nelson, Alex F Manini

*302. Dextromethorphan abuse in adolescence: A rising trend

Blanka Caganova, Silvia Plackova, Petra Faltanova

303. Emergency Department presentations following recreational use of baclofen, gabapentin and pregabalin: A Euro-DEN case series

Christopher Yates, Alison M Dines, David M Wood, Knut Erik Hovda, Fridtjof Heyerdahl, Isabelle Giraudon, Roumen Sedefov, Paul I Dargan, on behalf of the Euro-DEN research group

304. Acute behavioural disturbance associated with phenibut purchased via an Internet supplier

Michael A Downes, Ingrid L Berling, Geoffrey K Isbister

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

Nicole E Wright, Rose Cairns, Jared A Brown

*Short poster oral ó see pages 36 and 38

*306. 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 UK

Becki Bucher Bartelson, Herbert Desel, Andreas Schaper, Franca Davanzo, Fabrizio Sesana, Gillian Cooper, John P Thompson, Darcey JG Johnson, Jody L Green

307. An Internet snapshot study to investigate the cost and availability of the novel benzodiazepines diclazepam, flubromazepam and pyrazolam in the UK

Rachelle Abouchedid, David M Wood, John RH Archer, Paul I Dargan

308. Prescription drug overdose resulting from drug abuse: Moroccan Poison Control and Pharmacovigilance Centre data (1980-2011)

Narjis Badrane, Fatima Abadi, Ahlam Meftah, Hanane Chaoui, Naima Rhalem, Rachida Soulaymani Bencheikh

309. Prescription opioids: Reported reasons for non-medical use in an online national survey in the UK

Paul I Dargan, Jody L Green, Erin M Martinez, Andrea C Besharat, David M Wood

310. Pregabalin, gabapentin and baclofen: Sources of drug acquisition for non-medical use in an online national survey in the UK

David M Wood, Andrea C Besharat, Paul I Dargan, Erin M Martinez, Jody L Green

*311. Chronic pain and non-medical use of opioids, benzodiazepines and pregabalin in an online national survey in the UK

Paul I Dargan, David M Wood, Andrea C Besharat, Erin M Martinez, Jody L Green

312. Benzodiazepines and δZ Drugs δ : Reported reasons for non-medical use in an online national survey in the UK

David M Wood, Jody L Green, Andrea C Besharat, Erin M Martinez, Paul I Dargan

*313. Characterization of acute opioid overdose in the ToxIC Registry

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

Pharmaceutical poisoning

[§]314. Cardiovascular toxicity with levetiracetam overdose

Colin B Page, Ahmed Mostafa, Ana Saiao, Greg Medley, Jeffrey Grice, Michael Roberts, Geoffrey Isbister

[£]315. Methotrexate exposures reported to the Poisons Information Centre Erfurt, Germany

Anne Stuerzebecher, Germaine Frimlova, Michael Deters, Helmut Hentschel

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[§]Short-listed for Informa Best Case Report

[£]Poster discussion session δ see page 37

- £316. Unusual management of an inadvertent overdosage of vinorelbine in a child: A case report
Maria L Zuccoli, F. Giscardo Panzavolta, F Andrea Stella, M Adriana Tomoiaga, Leonardo Molino, Marina Caligara, Carmelita D'Ippolito, Fabrizio Sesana, Francesca Assisi, Franca Davanzo
317. Massive paracetamol overdose
Angela L Chiew, Geoffrey K Isbister, Nicholas A Buckley
318. Tramadol overdose is associated with an increased risk of seizure but not serotonin toxicity
Nicole Ryan, Geoffrey K Isbister
319. Levodropropizine overdose: A multicenter analysis of poison center data
Elke Färber, Sonja Gros, Elja Heistermann, Uwe Stedtler, Gabriele Dostal, Sabine Stoletzki, Dieter Genser, Dagmar Prasa
320. Accidental intravenous administration of haloperidol decanoate
Valeria M Petrolini, Eleonora Buscaglia, Giulia Scaravaggi, Antonella Valli, Laura Rolandi, Carlo A Locatelli
321. New oral anticoagulants (NOACs): An increasing problem for poison centres?
Ingo Sagoschen, Oliver Sauer, Andreas Stürer
322. A decade of Australian methotrexate dosing errors: What more can be done?
Jared A Brown, Rose Cairns
323. High-visibility warning labels on paracetamol containing products do not prevent supratherapeutic ingestion
Joe-Anthony Rotella, Anselm Wong, Jocelyn Howell, Amy Robotham, Shaun L Greene
324. Acute toxicity profile of tolperisone in overdose: A consecutive case series
Katharina E Hofer, Viktor Martos, Christine Rauber-Lüthy, Katharina M Schenk-Jaeger, Hugo Kupferschmidt, Alessandro Ceschi
- £325. Sleeping Beauty: Prolonged sedation following an alprazolam and fluconazole overdose
Angela L Chiew, Kate Sellors, Betty Chan
326. Lack of serious cardiotoxicity in patients with desvenlafaxine overdose
Gopi Mann, Naren Gunja
327. Patterns of toxicity of antiretroviral therapy as reported to the UK National Poisons Information Service (NPIS)
Rebecca ML Waugh, Muhammad EMO Elamin, Lucy C Peart, J Allister Vale, John P Thompson, Michael Eddleston, Simon HL Thomas
328. Overdoses of riluzole reported to the UK National Poisons Information Service
Alison M Good, Caroline McGrory, Simon HL Thomas, John P Thompson, J Allister Vale, Michael Eddleston

£Poster discussion session ó see page 39

329. Severe lithium poisoning: A case series from Norway
Mari A Bjornaas, Knut E Hovda, Anne K Fagerheim, Rune T Simonsen, Dag Jacobsen
330. Two years of paracetamol misdosing: The experience of National Milan Poison Control Center
Maria L Zuccoli, F Giscardo Panzavolta, F Andrea Stella, M Adriana Tomoiaga, Angelo Travaglia, Leonardo Molino, Fabrizio Sesana, Franca Davanzo
- [£]331. Duloxetine overdose: A case series
Simone Just, Sonja Gros, Cornelia Reichert, Elja Heistermann, Petra Hoffmann-Wahlbeck, Uwe Stedtler, Carola Seidel, Elke Färber, Sabine Stoletzki, Gabriele Dostal, Dieter Genser, Dagmar Prasa
332. Changes to prescribed psychotropics following intentional overdose
Lynn A Farrugia, Emily Gordon, Alexandra Sanseverino, Sean H Rhyee
333. Serum warfarin concentrations and corresponding INR after intentional warfarin overdose
Annie M Arens, Shogo J Miyagi, Timur Durrani, Howard T Horng, Craig Smollin
- *334. Prolonged, refractory glyburide and nateglinide toxicity in the setting of acute renal failure
Jennifer C Cabot, James S Morrison, Alex F Manini
335. A survey of doctors' knowledge and confidence in managing paracetamol toxicity
Wui-Ling Chan, Dong-Haur Phua
336. Acute poisoning with diuretics, antihypertensive and antiarrhythmic medicines
Rayna D Stoyanova, Julia V Radenkova-Saeva
337. A case of severe overdose with valproic acid treated with carnitine and continuous renal replacement therapy (CRRT)
Kai Knudsen
338. Acute liver injury after low doses of acetaminophen by intravenous route in an alcoholic patient
Francis Grossenbacher, Catherine Feliu, Zoubir Djerada, Veronica Pinel Petit, Carole Carolet, Bruno Lafon
- [£]339. The incidence of tramadol-related seizures is affected by co-ingestants
Brett A Roth, Mathias B Forrester, Miguel C Fernandez, Masoumeh Ghiasvand
340. APAP x AT in staggered, chronic and time unknown acetaminophen overdoses
Nicholas E Nacca, Michael Hodgman
341. 5-Oxoproline concentrations in acetaminophen overdose
Mary S Paden, Michael Mullins, Evan Schwarz, Dennis Dietzen, Robert Nerenz, David Liss

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342. Toxicity of desvenlafaxine in overdose

Ioana A Vlad, Jason M Armstrong

Adverse drug reactions

*343. Mortality predictors in lactic acidosis with confirmed serum metformin concentration

*Daniel Morell-García, Loreto Quesada Redondo, Emilia Civeira Murillo, Isabel Gomila Muñiz,
Juan Robles Bauzá, Andrés Carrillo López, Jordi Puiguriguer Ferrando, Ana Ferrer Dufol,
Bernardino Barceló Martín*

344. Lithium chronic and acute-on-chronic poisoning: A retrospective case series

*Viola Mazzucco, Lara Bertieri, Primo Botti, Francesco Gambassi, Andrea Missanelli,
Emanuela Masini, Guido Mannaioni*

345. A severe adverse drug reaction related to deferasirox

*Marco Marano, Mara Pisani, Corrado Cecchetti, Bianca M Goffredo, Matteo Di Nardo,
Federica Deodato, Davide Lonati, Francesca Stoppa, Alessandra Simula*

346. Severe adverse drug reactions and anaesthesiologic intervention: Experience of the National Milan Poison Control Centre

*F Giscardo Panzavolta, Carlotta Boselli, Marcello Ferruzzi, Rossana Borghini, Fabrizio Sesana,
Franca Davanzo*

347. Abstract withdrawn

348. Supratherapeutic doses of opiates for acute pain crisis in the ED are safe

Gregory S LaSala, Jena Lee, James R Roberts

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

*Giscardo F Panzavolta, Andrea F Stella, Maria L Zuccoli, Adriana M Tomoiaga, Angelo Travaglia,
Fabrizio Sesana, Franca Davanzo*

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

Linda V Graudins, Michael J Dooley

Poisons centre activities

351. Telephone-based product identification by poisons centers

*Maren Hermanns-Clausen, Herbert Desel, Elke Färber, Carola Seidel, Angelika Holzer,
Florian Eyer, Antje Engel, Dagmar Prasa, Erol Tutdibi, Andreas Stürer*

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

Martin Ebbecke, Richard D Adams, Erik Andrew, Robertas Badaras, Al Bronstein, Gabija Dragelyte, Raquel Duarte-Davidson, Charlotte Hague, Monique Mathieu-Nolf, Rob Orford, Daniela Pelclova, Fabrizio Sesana, Sergey Zakharov, Herbert Desel

353. Review of calls concerning human medicine to the poisons center of the northern France: How many calls concern the scope of pharmacovigilance?

Bea Lelièvre, Marine Auffret, Jacques Caron, Damien Paucelle, Monique Mathieu, Sophie Gautier

354. Cloud and business intelligence technologies in the poison center consulting service and national reporting system

Miran Brvar, Ernest Zejn

355. TOXBASE® and its use in collecting data on new and uncommon products of interest

Richard D Adams, Alison M Good, Simon HL Thomas, John P Thompson, J Allister Vale, Michael Eddleston

356. TOXBASE®: Its use in answering poison information enquiries in the UK

Gillian Jackson, Alison M Good, Simon HL Thomas, John P Thompson, J Allister Vale, Michael Eddleston

357. TOXBASE®: Keeping a poisons information database current and meeting UK demand

Gillian Jackson, David J Lupton, Alison M Good, Simon HL Thomas, John P Thompson, J Allister Vale, Michael Eddleston

358. Organizational peculiarities of poison information and advisory help in Russia

Yury N Ostapenko, Vladimir I Kazachkov, Konstantin M Brusin, Hugas S Porksheian, Alexander V Sabaev

359. A glimpse of trends in the Poisons Information Centre of Vienna, Austria

Angelika Holzer, Kinga Bartecka-Mino, Helmut Schiel, Tara Arif, Dieter Genser

Miscellaneous

[‡]360. The Global Educational Toxicology Uniting Project (GETUP)

Anselm Wong, Rais Vohra, Anne-Michelle Ruha, Zeff Koutsogiannis, Kimberlie A Graeme, David M Wood, Paul I Dargan, Anne Creaton, Shaun L Greene

361. Correlating physical exam findings on poisoned patients through Google Glass

Peter R Chai, Kavita M Babu, Edward W Boyer

362. Globalization and international collaboration in toxicology researches: Viewpoint from publications in Clinical Toxicology, 1968 to 2013

Ching-Hsing Lee, Chun-Kuei Chen, Meng-Huan Wu

[‡]Poster discussion session 6 see page 39

363. Hard to swallow: Intravenous botulinum toxin A administration

Vincent Nguyen, Scott N Lucyk, Silas W Smith, Robert S Hoffman

364. High-fidelity simulation improves knowledge and self-confidence of junior emergency resident

Jiun-Hao Yu, Chih-Chuan Lin

365. Impact of clinical toxicology in emergency medicine in Spain: Review of articles published in the journal EMERGENCIAS

Santiago Nogué, Montserrat Amigó, Òscar Miró

366. Tattoo-associated granulomatous inflammatory reaction with intensive keloid formation

Esther Feistkorn, Kathrin Begemann, Axel Hahn

367. Hemoglobin anomalies: Unrecognized differential diagnosis of methemoglobinemia

*Satariya Trakulsrichai, Winai Wananukul, Charuwan Sriapha, Bhakbhoom Panthan,
Paisan Jittorntam, Objoon Trachoo*