1 Detailed Scientific Programme
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Pre-Congress Symposium
CONTINUING EDUCATION IN CLINICAL TOXICOLOGY - Toxicity mediated by metabolic pathway: from pathophysiology to management

Session Chair: RH Thanacoody, F Eyer

09:00-09:30 Toxicokinetics of Vitamin K Antagonists in Overdose: Optimizing Vitamin K Therapy
Martin Caravati, University of Utah School of Medicine, Salt Lake City, USA

At the end of this session the audience should be able to:
- Compare the differences between warfarin and superwarfarin toxicokinetics
- Describe the pharmacokinetics of Vitamin K and how it affects therapy

09:30-10:00 New oral anticoagulant overdose: laboratory investigations and new antidotes
Ismail Elalamy, TENON Hospital, Paris, France

At the end of this session the audience should be able to:
- Describe the mechanism of action of these antidotes
- Use the algorithm for patient management in acute situations requiring such neutralization

10:00-10:30 Thyroxine: when do we need to assess an overdose?
Yedidia Bentur, Israel Poison Information Center, Rambam Health Care Campus, Haifa, Israel

At the end of this session the audience should be able to:
- Discuss the pharmacokinetics and mechanism of toxicity of thyroxine
- Perform risk assessment of thyroxine overdose

10:30-11:00 Coffee break

Session Chair: S Gosselin, C Locatelli

11:00-11:30 Methotrexate: Is acute oral overdose ever a concern?
Betty Chan, Prince of Wales Hospital, Sydney, Australia

At the end of this session the audience should be able to:
- Describe the pharmacokinetics of acute methotrexate ingestion
- Explain the toxicity of acute methotrexate overdose
TUESDAY 24 MAY 2016
ROOM AMSTERDAM

11:30-12:00  **Methotrexate poisoning: the role of glucarpidase**  
*Silas Smith, NYU School of Medicine, New York, USA*

At the end of this session the audience should be able to:
- List the indications for glucarpidase use in methotrexate poisoning
- Explain glucarpidase interactions with leucovorin

12:00-12:30  **Valproate overdose: what is the role of carnitine?**  
*Ruben H Thanacoody, Newcastle upon Tyne Hospitals NHS Foundation Trust, Newcastle upon Tyne, UK*

At the end of this session the audience should be able to:
- Discuss the mechanism by which valproate overdose causes relative carnitine deficiency
- Evaluate currently available evidence for use of L-carnitine following acute valproate overdose

12:30-13:30  Lunch – Praga Room

**Session Chair: M Wilks, H Kupferschmidt**

13:30-14:00  **Drug-induced hyperammonemia**  
*Florian Eyer, Klinikum rechts der Isar, Technical University of Munich, Munich, Germany*

At the end of this session the audience should be able to:
- Recognise that drugs affecting the urea cycle disorders may cause drug-induced hyperammonemia
- Recognise that valproate is a typical drug that may cause hyperammonemia, even at therapeutic concentrations

14:00-14:30  **Mitochondrial toxicity in antiretroviral therapy**  
*Andrew Stolbach, Johns Hopkins University, Baltimore, USA*

At the end of this session the audience should be able to:
- Recognise the signs and symptoms of mitochondrial toxicity
- Describe the mechanisms of mitochondrial toxicity in HIV therapy

14:30-15:00  **Drug-induced non lactic endogenous acidosis**  
*Stephen W Borron, Texas Tech University Health Sciences Center, El Paso, USA*

At the end of this session the audience should be able to:
- Identify two endogenously-produced acids potentially leading to end-organ damage
- Explain the advantages of strong ion gap over anion gap methodologies for acid-base analysis

15:00-15:30  Coffee break
INTERACTIVE CASES

Session Chair: A Manini, Charles McKay

15:30-16:00 CASE 1:
Isoniazid overdose: how to treat toxic seizures – Interactive case study
Naren Gunja, Western Sydney Toxicology Service, Sydney, Australia

At the end of this session the audience should be able to:
- Recognise a differential diagnosis for drug-induced seizures and their pathophysiology
- Discuss management options for toxic and isoniazid-induced seizures

16:00-16:30 CASE 2:
Acquired methaemoglobinaemia: What to do if methylene blue fails – Interactive case study
Sally Bradberry, West Midlands Poisons Unit, Sandwell and West Birmingham Hospitals NHS Trust, Birmingham, UK

At the end of this session the audience should be able to:
- Explain the circumstances in which methylene blue may not reverse methaemoglobinaemia effectively
- Explain the potential role of exchange transfusion in the management of acquired methaemoglobinaemia

16:30-17:00 CASE 3:
Drug-induced hemolysis: transfusion management – Interactive case study
Kurt Anseeuw, Emergency Department, ZNA Stuivenberg, Antwerp, Belgium

At the end of this session the audience should be able to:
- Describe the different pathophysiological pathways of drug-induced hemolytic anemia
- Describe the different therapeutic options in drug-induced hemolysis
Main Congress
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>08:30–08:35</td>
<td>Welcome and opening</td>
<td>Alexander Campbell</td>
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<td>President, EAPCCT</td>
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<td>08:35-09:20</td>
<td>AMERICA'S SUCCESSFUL POISON CONTROL NETWORK: THOUGHTS FOR A EUROPEAN STRATEGY</td>
<td>Hon. David Karnes, Washington, USA</td>
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<td>At the end of this session the audience should be able to:</td>
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<td>- Explain the US poison control network model &amp; its unique federal-state/public-private partnership</td>
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<td>- Recognize the potential basis, value, assets and opportunity for a European poison control system</td>
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<tr>
<td>09:20-09:40</td>
<td>Harmonisation of the information relating to emergency health response (Poisons Centre article 45 CLP)</td>
<td>An Jamers, European Commission, Brussels, Belgium</td>
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<td>At the end of this session the audience should be able to:</td>
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<td>- Recognise the main elements of the new EU harmonized system for the transmission of information on hazardous chemicals to poison centres</td>
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<td>09:40-10:00</td>
<td>Harmonisation of information on mixtures under CLP Article 45: an industry perspective</td>
<td>Janice Robinson, CEPE, Brussels, Belgium</td>
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<td>At the end of this session the audience should be able to:</td>
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<td>- Recognise the obligations industry will face under harmonised reporting, including numbers of notifications and extent of detail required</td>
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<tr>
<td>10:00-10:45</td>
<td>Coffee and electronic posters</td>
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<td>E-POSTERS 1 to 12 (detailed at E-Posters tab)</td>
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Symposium: Clinical toxicology of cannabis and cannabinoids

Session Chair: Yedidia Bentur, David Wood

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Location</th>
<th>Description</th>
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</thead>
</table>
| 09:20-09:40 | Epidemiology of cannabis and cannabinoid use | Maren Hermanns-Clausen, Poisons Information Center, Center for Pediatrics and Adolescent Medicine, Freiburg, Germany | Room Amsterdam                                                         | At the end of this session the audience should be able to:  
- Describe essential motivations for synthetic cannabinoid consumption (getting high, legal considerations, other)  
- Describe differences in prevalence of cannabis and synthetic cannabinoids use |
| 09:40-10:00 | Pharmacology of cannabis and cannabinoids    | Jean-Claude Alvarez, Versailles St Quentin University, Garches, France   | Room Amsterdam                                                         | At the end of this session the audience should be able to:  
- Describe the pharmacokinetic parameters of cannabis and its main metabolites in blood and their mechanism of action |
| 10:00-10:45 | Coffee and electronic posters                |                                                                         | Room Amsterdam                                                         | E-POSTERS from 1 to 12 (detailed at E-Posters tab) |
### Symposium: Household product safety – Part 2

**Session Chair:** Karen Simone, Alexander Campbell

**10:45-11:05**  
**Poisons centres’ case records can increase consumer safety**  
*Herbert Desel, Federal Institute for Risk Assessment, Berlin, Germany*

*At the end of this session the audience should be able to:*  
- Describe the role of a well-documented poisons centre case record in identification and description of an ‘unsafe product’

**11:05-11:25**  
**New legal requirements for submission of product information to Poisons Centres in EU Member States**  
*Ronald de Groot, National Poisons Information Center / University Medical Center, Utrecht, The Netherlands*

*At the end of this session the audience should be able to:*  
- Recognise that new legal product information requirements and electronic submission format will harmonise the submission of product information to Poisons Centres in EU Member States

**11:25-11:50**  
**Open Forum Panel discussion**  
**Session Chair:** Dag Jacobsen, Jose Luis Conejo

**11:50-12:05**  
**How and why are liquid laundry detergent products toxic?**  
*J Allister Vale, NPIS (Birmingham Unit), City Hospital, Birmingham, UK*

*At the end of this session the audience should be able to:*  
- Describe the mechanisms by which liquid laundry detergent products are toxic

**12:05-12:20**  
**Referral and treatment guidelines for liquid laundry capsule exposures - a USA view**  
*William Banner, Oklahoma Center for Poison and Drug Information, Oklahoma, USA*

*At the end of this session the audience should be able to:*  
- Evaluate recommendations for general management of liquid detergent product ingestions based on a review from NPDS data

**12:20-12:30**  
**General discussion**

**12:30-14:15**  
Lunch in Florencia Room and posters
Symposium: Clinical toxicology of cannabis and cannabinoids – Part 2

Session Chair: Robert Palmer, Patricia Casey

10:45-11:05  Acute neuropsychiatric effects of cannabis and cannabinoids
Robert Hoffman, NYU School of Medicine, New York, USA

At the end of this session the audience should be able to:
- Compare and contrast the acute neuropsychiatric effects of tetrahydrocannabinol (THC) with those of synthetic cannabinoid receptor agonists
- Describe the persistent and long-term psychiatric risks of cannabinoid use

11:05-11:25  The complex interaction between cannabinoids and psychiatric and cognitive effects
Amir Englund, King’s College London, London, UK

At the end of this session the audience should be able to:
- Discuss the relationship between different types of cannabis and risk of psychosis
- Recognise the cognitive effects of frequent cannabis use

11:25-11:45  Cardiovascular effects of cannabis and cannabinoids
Paul Dargan, Guy’s and St Thomas’ NHS Foundation Trust, London, UK

At the end of this session the audience should be able to:
- Describe the pattern of cardiovascular toxicity associated with cannabis use

11:45-12:05  Cannabis withdrawal syndrome
Régis Bédry, University Hospital Pellegrin, Bordeaux, France

At the end of this session the audience should be able to:
- Recognise and describe the onset of a cannabis withdrawal syndrome
- Recognise the development of this syndrome and manage hospitalized patients with this condition

12:05–12:20  Acute side effects after consumption of the novel synthetic cannabinoids AB-CHMINACA and MDMB-CHMICA
(abstract no. 17)
Maren Hermanns-Clausen*, Poisons Information Center, Center for Pediatrics and Adolescent Medicine, Freiburg, Germany

At the end of this session the audience should be able to:
- Identify acute adverse effects of the valine derivatives AB-CHMINACA and MDMB-CHMICA, which represent a new class of synthetic cannabinoids

12:20–12:30  General discussion

12:30–14:15  Lunch in Florencia Room and posters

*Shortlisted for Taylor & Francis best scientific presentation award
Symposium: Household product safety – Part 3
Session Chair: John Thompson, Herbert Desel

14:15-14:35 The A.I.S.E. accidentology study on liquid detergent capsule exposures
Geert Boeije, Boeije Consulting, Sint-Martens-Latem, Belgium
At the end of this session the audience should be able to:
- Evaluate the circumstances and possible driving factors for accidental exposures
  with liquid detergent capsules

14:35–14:50 Surveillance of pediatric exposure to laundry detergents: Comparison
between cases exposed to liquid capsules and traditional products
(abstract no. 13)
Laura Settimi*, Istituto Superiore di Sanità, Rome, Italy
At the end of this session the audience should be able to:
- Define epidemiological surveillance
- Define the main objectives of epidemiological surveillance of cases handled by
  poison control centres

14:50–15:05 Acute and chronic oesophageal injury following caustic ingestions in a 25
year cohort
(abstract no. 14)
Tim Cowan*, Hunter New England Local Health District, Newcastle, Australia
At the end of this session the audience should be able to:
- Recognise the incidence of and risk factors for oesophageal injury in caustic
  ingestion

15:05–15:20 A review of the toxicity of picaridin-containing insect repellents reported to
the National Poison Data System
(abstract no. 15)
Jennifer Parker Cote, University of Virginia, Charlottesville, USA
At the end of this session the audience should be able to:
- Evaluate whether exposure to insect repellents is associated with significant
  toxicity

15:20–15:35 Single dose activated charcoal (AC): Application by medical non professionals
- a prospective single centre study on availability and quality of administration
(abstract no. 16)
Rudolf Pfab, Klinikum rechts der Isar, Technical University of Munich, Munich,
Germany
At the end of this session the audience should be able to:
- Demonstrate the need to promote the storage of activated charcoal in locations
  where accidental toxin ingestions are likely to occur such as households, schools,
  kindergarten, psychiatric wards, etc.

15:35-15:40 General discussion

15:40-16:10 Coffee and electronic posters
E-POSTERS from 18 to 25 (detailed at E-Posters tab)

*Shortlisted for Taylor & Francis best scientific presentation award
Best paper session

Session Chair: Philippe Hantson, Martin Wilks

14:15-15:40

**Best paper session**

An international panel have each been asked to select a clinical toxicology paper published in the year 2015 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. The speakers will defend their choice in a brief 10 minute presentation followed by discussion.

**Discussants:**

Robin Ferner

*Idarucizumab for dabigatran reversal*

*Sarepgatran alfa for the reversal of factor Xa inhibitor activity*

Andis Graudins

*The safety and effectiveness of droperidol for sedation of acute behavioral disturbance in the emergency department*
Calver L, Page CB, Downes MA, et al.
Ann Emerg Med. 2015 Sep;66(3):230-238

*A randomized trial of icatibant in ACE-inhibitor-induced angioedema*

Sergej Zacharov

*Metabolic methanol: molecular pathways and physiological roles*
Dorokhov YL, Shindyapina AV, Sheshukova EV, et al.
Physiol Rev. 2015 Apr;95(2):603-44

*Age-related formaldehyde interferes with DNA methyltransferase function, causing memory loss in Alzheimer’s disease*
Tong Z, Han C, Qiang M, et al.
Neurobiol Aging. 2015 Jan;36(1):100-10

NB CME accreditation has not been requested for this session

15:40-16:10

Coffee and electronic posters

E-POSTERS 18 to 25 (detailed at E-Posters tab)
16:10-17:30

**Poster discussion session**

**26.** Pattern of acute toxicity related to the use of the novel psychoactive substance methedrone (4-methoxymethcathinone, 4-MeOMC)

**27.** Self-reported use matched with oral fluid analysis of recreational drug use in a South London nightclub
Natalie Thurtle, Allan Traynor, Rachelle Abouchedid, John R.H. Archer, Takahiro Yamamoto, David M. Wood and Paul I. Dargan

**28.** Outpatient treatment of acute poisoning by substances of abuse: A 1-year prospective observational study
Odd Martin Vallersnes, Dag Jacobsen, Øivind Ekeberg and Mette Brekke

**29.** Increase in unintentional pediatric exposures in a recreational marijuana state
George Wang, Marie-Claire Lelait, Sara Deakyne, Alvin Bronstein, Lalit Bajaj and Genie Roosevelt

**30.** ADB-Fubinaca in the real world: A case series of 15 poisonings
Csaba Pap

**31.** Specific issues in acute cannabis poisoning in adolescents
Viorela Nitescu, Dora Boghitoiu, Alexandru Ulmeanu, Alina Antohe, Andreea Fulgeanu and Coriolan Ulmeanu

**32.** Novel psychoactive substance (NPS) consumption in binge drinkers: A new and potentially dangerous health risk
Marta Crevani, Francesca Chiara, Pietro Papa, Elisa Roda, Davide Lonati, Andrea Giampreti and Carlo A. Locatelli

**33.** Prospective cohort study to determine low risk acute ethanol intoxications risk factors
Christopher Yates, Jordi Puiguriguera, Catalina Homar and Guillermo Frontera

**34.** Toxicity following recreational use of synthetic cannabinoid receptor agonists and the impact of legal control measures: A report from the UK’s National Poisons Information Service

**35.** Trends in oral anticoagulant enquiries to the UK National Poisons Information Service: A retrospective 5 year review
Sian C. D. Harbon, John P. Thompson, J. Allister Vale, Michael Eddleston, Simon H. L. Thomas and James M. Coulson
Symposium: E-cigarettes: the good, the bad and the ugly

Session Chair: Irma de Vries, Martin Wilks

16:10-16:30 Background on use of e-cigarettes - what is the current picture?
Esther A Croes, Trimbos Institute, Utrecht, The Netherlands

At the end of this session the audience should be able to:
- Summarise trends in e-cigarette use in Europe, motives for use and evidence of effectiveness in smoking cessation

16:30-16:50 Poison centre experience with cases involving e-cigarettes
Lies Scholtens, National Poisons Information Center, University Medical Center, Utrecht, The Netherlands

At the end of this session the audience should be able to:
- Recognise the various groups of people that are involved in exposure to nicotine containing e-liquid

16:50-17:10 E-cigarettes: are they being used to vape recreational drugs and new psychoactive substances (NPS)?
David Wood, Guy’s and St Thomas’ NHS Foundation Trust, London, UK

At the end of this session the audience should be able to:
- List what recreational drugs / NPS are reported to be “vaped” by e-cigarettes
- Describe the prevalence of “vaping” of recreational drugs / NPS by e-cigarettes

17:10-17:30 An integrated assessment approach for candidate Modified Risk Tobacco Products
Manuel Peitsch, Philip Morris International, Neuchatel, Switzerland

At the end of this session the audience should be able to:
- Describe the risk framework, the approach and the type of studies that constitute an integrated assessment of MRTPs

NB CME accreditation has not been requested for this session

19:30 Welcome Reception at Real Café Bernabeu
Sponsored by: NERIUM SkinCare
Poster discussion session (continued)

37. AfriTox® TeleLog: The development of a novel web-based data collection tool for poison centre call data in South Africa
Cindy R. Stephen, Selig Leyser, J. Clare Roberts, Farahnaz Mohamed, Kate H. Balme, Linda E. Curling, Carine Marks and Cherylynn Wium

38. Antidotes network: Is it possible to connect stocks between centers?
Edurne Fernandez De Gamarra, Raquel Aguilar, Antoni Broto, Milagros Garcia-Pelaez, Lidia Martinez and Santiago Nogue

39. Extraordinary mobilizations of antidotes from the National Stockpile to hospital emergency departments: An example of versatility and integration of national functions and systems
Eleonora Buscaglia, Valeria M. Petrolini, Virgilio Costanzo, Loredana Vellucci, Olha Maystrova, Giulia Scaravaggi, Emanuela Cortini and Carlo A. Locatelli

40. Profile and risk assessment of household cleaners as evaluated from Emergency Department (ED) cases in the Spanish Toxic Surveillance System (STSS) in the last 5 years
Ana Ferrer Dufol, Roman Royo Hernandez, Clara Serrano Ferrer and Santiago Nogue Xarau

41. Adverse drugs reactions (ADR) collected by medical-staffed ambulances: A pilot study with the SAMU de Paris
Agnès Lillo-Lelouet, Frederic J. Baud, Benoit Vivien and Pierre Carli

NB CME accreditation has not been requested for this session

19:30
Welcome Reception at Real Café Bernabeu
Sponsored by: NERIUM SkinCare
Louis Roche lecture followed by current challenges of opioids

Session Chair: Alexander Campbell, Ana Ferrer-Dufol, Robin Ferner

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<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker/Institution</th>
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<tbody>
<tr>
<td>09:00-10:00</td>
<td>Neurotoxicity of Mercury: Two Fish Tales</td>
<td>Robert Hoffman, NYU School of Medicine, New York, USA</td>
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<td>At the end of this session the audience should be able to:</td>
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<tr>
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<td>- Describe the classic findings of mercury-induced neurotoxicity</td>
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<td>- Discuss the clinical effects of elevated mercury concentrations following fish consumption</td>
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<td>10:00-10:20</td>
<td>Rethinking the nature of opiate addiction</td>
<td>Anthony Daniels, City Hospital, Birmingham, UK</td>
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<td>At the end of this session the audience should be able to:</td>
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<td>- Criticise the prevailing concept of opiate (and other) addictions</td>
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<td>- Assess the claims of addicts more realistically</td>
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<td>10:20-10:40</td>
<td>Trends in opioid analgesic abuse and mortality in Europe</td>
<td>Jody Green, Rocky Mountain Poison &amp; Drug Center, Denver, USA</td>
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<td>At the end of this session the audience should be able to:</td>
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<td>- Describe the current landscape of opioid analgesic utilization, abuse and mortality throughout Europe from multiple datasources</td>
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<td>10:40-11:25</td>
<td>Coffee and electronic posters</td>
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<td>E-POSTERS: 125; 249; 127 to 132 and 134 to 136 (detailed at E-Posters tab)</td>
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# Mini symposium: Paracetamol

**Session Chair:** Geoff Isbister, Alvin Bronstein

## 10:00-10:15

**Clinical outcomes and predictive factors in “massive” paracetamol overdose**  
(abstract no. 122)  
Daniel Marks*, Guy’s and St Thomas’ Hospital, London, UK

**At the end of this session the audience should be able to:**
- Explain the relationship between the measured plasma paracetamol concentration to nomogram toxic threshold ratio, serum aminotransferase concentration and coagulopathy

## 10:15-10:30

**Pharmacokinetic modelling of a high dose acetylcysteine regimen based on the SNAP trial**  
(abstract no. 123)  
Harry Thanacoody*, National Poisons Information Service (Newcastle Unit), Newcastle upon Tyne Hospitals NHS Foundation Trust, Newcastle upon Tyne, UK

**At the end of this session the audience should be able to:**
- Identify situations when higher doses of acetylcysteine may be beneficial in patients presenting with paracetamol overdose
- Discuss potential modifications to current acetylcysteine regimen to achieve higher total dose

## 10:30-10:45

**The standard treatment protocol is inadequate following overdose of extended release paracetamol: A pharmacokinetic and clinical analysis of 53 cases**  
(abstract no. 124)  
Helene Salmonson*, Swedish Poisons Information Centre, Stockholm, Sweden

**At the end of this session the audience should be able to:**
- Demonstrate that the paracetamol standard treatment protocol may be inadequate following overdoses with extended release products

## 10:45-11:25

Coffee and electronic posters  
E-POSTERS: 125; 249; 127 to 132 and 134 to 136 (detailed at E-Posters tab)

*Shortlisted for Taylor & Francis best scientific presentation award*
**Symposium: Current challenges of opioids – Part 2**

**Session Chair:** Ana Ferrer Dufol, Robin Ferner

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<tr>
<th>Time</th>
<th>Session</th>
<th>Details</th>
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<tr>
<td>11:25-11:45</td>
<td>Abuse deterrent formulations of the opioids and their relation to heroin</td>
<td>Richard Dart, Rocky Mountain Poison &amp; Drug Center, Denver, USA&lt;br&gt;At the end of this session the audience should be able to:&lt;br&gt;- Recognise the progression of opioid use, misuse, abuse and addiction</td>
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<tr>
<td>11:45-12:05</td>
<td>Opioid overdose: mechanisms of toxicity and variability of presentation</td>
<td>Bruno Mégarbane, Paris-Diderot University, Paris, France&lt;br&gt;At the end of this session the audience should be able to:&lt;br&gt;- Discuss the mechanisms of toxicity related to opioids alone or resulting from drug-drug interactions&lt;br&gt;- Evaluate the inter-individual variability of opioid poisoning presentations</td>
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<tr>
<td>12:05-12:25</td>
<td>New opioids to limit toxicity: where are we going?</td>
<td>Steven Ballet, Vrije Universiteit, Brussels, Belgium&lt;br&gt;At the end of this session the audience should be able to:&lt;br&gt;- Explore the subject of opioid peptides</td>
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<tr>
<td>12:25-12:30</td>
<td>General discussion</td>
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<tr>
<td>12:25-14:15</td>
<td>Lunch in Florencia Room and posters</td>
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Session Chair: Daniela Pelclova, Emilio Salgado

Poster discussion session

137. Massive paracetamol overdose: An observational study
Angela L. Chiew, Geoffrey K. Isbister, Colin B. Page and Nicholas A. Buckley

138. A multi-center, retrospective study to evaluate the safety and efficacy of a three-bag acetylcysteine dosing regimen compared to a two-bag acetylcysteine dosing regimen for the treatment of paracetamol overdose: The Danish Intravenous Acetylcysteine Study (DIVAS)
Ditlev Rasmussen, Kim Dalhoff, Richard Dart, Byron Kaelin and Amy Rock

139. Metal-on-metal hip joint prostheses: A retrospective case series investigating association of systemic toxicity with serum cobalt and chromium concentrations
James Ho, Paul Wax, Jerrold B. Leikin, John R. H. Archer, David M. Wood, Paul I. Dargan and Jeffrey Brent

140. Metal release from hip implant: Clinical experience with N-acetylcysteine as potential complexing agent in two cases
Andrea Giampreti, Marta Crevani, Sarah Vecchio, Valeria M. Petrolini, Anna Ronchi and Carlo A. Locatelli

141. Comparison of blood lead levels (BLL) in drug users, individuals under methadone maintenance therapy and healthy individuals
Omid Mehrpour, Atefeh Ghoreishi and Shiva Shabrang

142. Human accidental poisoning in a rural and fishing occupational setting in Italy: A 5 year Poison Control Center study
Sarah Vecchio, Mara Garbi, Andrea Giampreti, Marta Crevani, Giulia Scaravaggi and Carlo A Locatelli

143. Validation of a prediction rule for adverse cardiovascular events from drug overdose
Alex F. Manini, Lynne D. Richardson, David Vlahov and Robert S. Hoffman

144. Antagonizing the errors of history: Bedside experience with flumazenil
Joseph J. Rasimas, Violetta Kivovich, Kamal K. Sachdeva and Joseph Ward Donovan

145. Effectiveness of correction of metabolic acidosis on intermittent versus continuous modes of hemodialysis in acute methanol poisoning
Sergey Zakharov, Olga Nurieva, Katerina Kotikova, Jiri Hlusicka, Tomas Navratil, Jaromir Belacek, Martin Komarc and Daniela Pelclova

146. Outbreak of facio-troncular dystonia in central Africa due to falsified diazepam containing haloperidol
Nicolas Peyraud, Frederic J. Baud, Micaela Serafini and Annette Heinzelmann

147. To what extent does haloperidol-induced facio-troncular dystonic syndrome mimic infectious diseases? The Congo experience
Frederic J. Baud, Nicolas Peyraud, Micaela Serafini and Annette Heinzelmann

NB CME accreditation has not been requested for this session

12:25-14:15 Lunch in Florencia Room and posters
Symposium: Toxic aspects of ammunition

Session Chair: Régis Bédry, Florian Eyer

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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker &amp; Institution</th>
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<tbody>
<tr>
<td>14:15-15:00</td>
<td><strong>Depleted uranium and health effects - a radiobiological view</strong></td>
<td>Matthias Port, Institute of Radiobiology of the German Armed Forces, Munich, Germany</td>
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<td>At the end of this session the audience should be able to:</td>
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<td>- Develop a realistic view in regard to radiological threats to inhabitants of areas affected by massive use of weapons containing depleted uranium</td>
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<td>- Recognise the radiopathological pathways leading to impaired health functions after exposure to depleted uranium</td>
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<tr>
<td>15:00-15:20</td>
<td><strong>Riot control agents</strong></td>
<td>Frederic Dorandeu, IRBA (French Armed Forces Biomedical Research Institute), Brétigny-sur-Orge, France</td>
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<td>At the end of this session the audience should be able to:</td>
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<td>- Recognise the different riot control agents (RCA) in use, their toxicity, efficacy and the medical management of casualties in case of severe overexposure</td>
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<tr>
<td>15:20-15:40</td>
<td><strong>Medical aspects on dumped chemical warfare agents</strong></td>
<td>Horst Thiermann, Bundeswehr Institute of Pharmacology and Toxicology, Munich, Germany</td>
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<td>At the end of this session the audience should be able to:</td>
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<td>- Assess signs and symptoms that are correlated with the exposure to dumped munitions and initiate first treatment in case of poisoning</td>
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<tr>
<td>15:40-16:10</td>
<td><strong>Coffee and electronic posters</strong></td>
<td>E-POSTERS 149 to 156 (detailed at E-Posters tab)</td>
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</table>
### Symposium: Current challenges of opioids – Part 3

**Session Chair:** Michael Holland, Paul Dargan

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<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker/Institution</th>
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<tbody>
<tr>
<td>15:00-15:20</td>
<td>Opioid education programs and nasal naloxone rescue kits</td>
<td>Arne Skulberg, Norwegian University of Science and Technology NTNU, Trondheim, Norway</td>
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<tr>
<td></td>
<td>At the end of this session the audience should be able to:</td>
<td>- Assess the current movement towards distribution of naloxone to drug users, and particular concerns regarding nasal naloxone</td>
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<tr>
<td>15:20-15:35</td>
<td>Abuse of immediate release opioid analgesics as compared to extended release formulations in the US (abstract no. 148)</td>
<td>Janetta Iwanicki, Rocky Mountain Poison and Drug Center, Denver, USA</td>
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<td>At the end of this session the audience should be able to:</td>
<td>- Identify which formulation of prescription opioid analgesics is abused most commonly in the US</td>
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<td>- Describe which formulation of prescription opioid analgesics is prescribed most often in the US</td>
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<tr>
<td>15:40-16:10</td>
<td>Coffee and electronic posters</td>
<td>E-POSTERS 149 to 156 (detailed at E-Posters tab)</td>
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</tbody>
</table>
Symposium: Toxic aspects of ammunition – Part 2

Session Chair: Thomas Zilker, Jay Schauben

16:10-16:30 Toxicological aspects of fog/smoke/fumes
Dirk Steinritz, Bundeswehr Institute of Pharmacology and Toxicology, Munich, Germany

At the end of this session the audience should be able to:
- Describe affected organ systems, the clinical picture and the underlying pathophysiology caused by smoke residues of gun shooting and smoke-granades

16:30-16:50 Lead poisoning from intracorporeal bullets
Michael Holland, Upstate New York Poison Center, New York, USA

At the end of this session the audience should be able to:
- Describe the specific circumstances of intracorporeal bullets that places them at higher risk of causing systemic lead absorption and subsequent poisoning

17:00-18:30 EAPCCT General Assembly
Pro/con debate: Opioid dependence treatment

Session Chair: Nick Buckley, Peter Hultén

16:10-16:55 Debate: Opioid dependence treatment: should substitution therapy be the management of choice?
Timothy Wiegand (PRO), University of Rochester School of Medicine and Dentistry, Rochester, USA

At the end of this session the audience should be able to:
- Describe at least 3 positive outcomes associated with medication Assisted Treatment for Opioid Dependence
- List the different options available for use in opioid substitution therapy and describe the populations for which they are used

Karen Simone (CON), Northern New England Poison Center, Portland, USA

At the end of this session the audience should be able to:
- Discuss the concerns associated with the opioid substitution therapy evidence-base and outcomes
- Identify the characteristics of patients and services that predict poor opioid substitution therapy results

17:00-18:30 EAPCCT General Assembly (Gran Madrid)
Young investigator award session

Session Chair: Suzanne White, Mark Zammit

08:30-08:35 Introduction

08:35-08:50 Paracetamol-protein adducts following acute paracetamol overdose (abstract no. 237)
Angela Chiew, Prince of Wales Hospital, Sydney, Australia

At the end of this session the audience should be able to:
- Interpret paracetamol-protein adducts in patients with large acute paracetamol overdoses and/or paracetamol induced acute liver injury

08:50-09:05 Analytical confirmation of the synthetic cannabinoid receptor agonists (SCRAs) present in a cohort of presentations with acute recreational drug toxicity to an Emergency Department (ED) in London, UK (abstract no. 238)
Rachelle Abouchedid, Guy’s and St Thomas’ NHS Foundation Trust, London, UK

At the end of this session the audience should be able to:
- Recognise the prevalence and some clinical features associated with synthetic cannabinoid (please correct the typo I had – it must be cannabinoid, not cannibinoid) receptor agonist use in a cohort of symptomatic patients presenting to an Emergency Department

09:05-09:20 Hepatotoxicity of novel psychoactive substances structurally related to 3,4-methylenedioxymethamphetamine (MDMA) and methamphetamine (abstract no. 239)
Dino Luethi, University of Basel, Basel, Switzerland

At the end of this session the audience should be able to:
- Recognize that newly emerged designer drugs that are readily available over the Internet may pose similar risks of liver toxicity as common illegal drugs like MDMA (“ecstasy”)

09:20-09:35 In vitro pharmacological profiles of classical psychedelics and novel synthetic hallucinogenic substances and their relevance for clinical toxicology (abstract no. 240)
Anna Rickli, University of Basel, Basel, Switzerland

At the end of this session the audience should be able to:
- Explore the in vitro pharmacological profiles of classic psychedelics and novel hallucinogenic substances and their relevance for clinical toxicology

09:35 Judging commences
<table>
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<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 09:35-09:55  | **Data base: List and text of all presentations of the EAPCC(T) Congresses 1964-2015**  
*Thomas Zilker, Munich, Germany*  
**NB CME accreditation has not been requested for this lecture** |
| 09:55-10:00  | Presentation to the winner of the YIA                                 |
| 10:00-10:45  | Coffee and electronic posters  
E-POSTERS 242 to 248 and 250 to 252 (detailed at E-Posters tab) |
Symposium: Risk communication – detection, assessment, management and communication of risk in mass human toxic exposures

Session Chair: Michael Eddleston, Knut Erik Hovda

10:45-11:05  Chemical warfare scenarios
Jose Luis Lopez-Colon, Ministry of Defence, Madrid, Spain

At the end of this session the audience should be able to:
- Describe the potential use of some chemical warfare agents and their respective risk assessment

11:05-11:25  Detection and minimizing risk in outbreaks by contaminated beverages. The methanol experience
Hossein Hassanian-Moghadam, Shahid Beheshti University of Medical Sciences, Tehran, Iran

At the end of this session the audience should be able to:
- Prepare a plan for assessment of multiple patients during a chemical incident
- Prepare a plan to prevent emergency department (ED) overcrowding during a chemical incident

11:25-11:45  Risk communication in lead poisoning outbreaks in Nigeria - lessons learnt and suggestions for the future
Natalie Thurtle, St George Hospital, Sydney, Australia

At the end of this session the audience should be able to:
- Discuss the challenges in risk communication in Nigeria
- Evaluate the lessons learned about risk communication during the Nigerian lead poisoning outbreak

11:45-12:05  Environmental contamination by organochlorinated residues: Lindane manufacture residues
Ana Ferrer Dufol, Clinic University Hospital, Zaragoza, Spain

At the end of this session the audience should be able to:
- Recognise the relationship between the hazard produced by a huge environmental contamination by organochlorinated compounds and its toxic risk for human populations

12:05-12:25  Risk communication in mass poisoning situations
Charles McKay, Vice President, ACMT, Malborough, USA

At the end of this session the audience should be able to:
- Prepare a message map with key information applicable to a poisoning crisis

12:25-12:30 General discussion

12:30-14:15 Lunch in Florencia Room and posters
Symposium: Aerotoxic syndrome

Session Chair: Sally Bradberry, Davide Lonati

10:45-11:05 Aerotoxic Syndrome - Historical, technical and toxicological background
Axel Hahn, Federal Institute of Risk Assessment, Berlin, Germany

At the end of this session the audience should be able to:
- Name the chemical compound incriminated in causing aerotoxic syndrome

11:05-11:25 Reported cabin fume events: What did the investigations show?
Michael Bagshaw, King’s College London, London, UK

At the end of this session the audience should be able to:
- Evaluate the results of aircraft cabin air sampling in a range of studies

11:25-11:45 Is there a toxicological explanation for features following cabin fume events?
J Allister Vale, NPIS (Birmingham Unit), City Hospital, Birmingham, UK

At the end of this session the audience should be able to:
- Discuss why there is no plausible toxicological explanation for the features reported after cabin fume releases

11:45-12:05 Bioanalytical methods for monitoring of tricresylphosphate exposure (TCP)
Harald John, Bundeswehr Institute of Pharmacology and Toxicology, Munich, Germany

At the end of this session the audience should be able to:
- Recognise current bioanalytical protocols targeting mass spectrometric detection of TCP and its biotransformation and reaction products (protein adducts) documenting exposure

12:05-12:25 Investigating and diagnosing patients who have been exposed to cabin fume events
Nina Glaser, Federal Institute for Risk Assessment, Berlin, Germany

At the end of this session the audience should be able to:
- Assess the occupational poisoning risk related to cabin fume events
- List the most common symptoms reported in subjects exposed to cabin fumes

12:25-12:30 General discussion

12:30-14:15 Lunch in Florencia Room and posters
Symposium: Advances in critical care of poisoned patients: Imaging and treatment

Session Chair: Bruno Mégarbane, Robert Hoffman

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
<th>Location</th>
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<tbody>
<tr>
<td>14:15-15:00</td>
<td>Lipid rescue to treat acute poisonings: the fundamentals and the future</td>
<td>Guy Weinberg, University of Illinois and Jesse Brown VA, Chicago, USA</td>
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<td>At the end of this session the audience should be able to:</td>
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<td>- Identify the several mechanisms underlying lipid rescue</td>
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<td>- Differentiate lipid rescue as used for parenteral versus oral overdose</td>
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<td>15:00-15:20</td>
<td>Lipid emulsions in clinical toxicology: appraisal of the evidence</td>
<td>Sophie Gosselin, Mc Gill University Health Center, Montréal, Canada</td>
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<td>At the end of this session the audience should be able to:</td>
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<td>- Discuss the rationale for the recommendations on the use of lipid emulsions</td>
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<td>from the Clinical Toxicology Associations International Workgroup</td>
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<td>15:20-15:25</td>
<td>General discussion</td>
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<td>15:25-15:45</td>
<td>MRI investigation of the central nervous system (CNS) following different</td>
<td>Philippe Hantson, Université catholique de Louvain, Brussels, Belgium</td>
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<td>etiologies of poisoning</td>
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<td>At the end of this session the audience should be able to:</td>
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<td>- Describe the main brain magnetic resonance imaging (MRI) features after</td>
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<td>exposure to various toxins and discuss their specificities</td>
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<td>15:45-16:15</td>
<td>Coffee and electronic posters</td>
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<td>E-POSTERS 253 to 260 (detailed at E-Posters tab)</td>
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Symposium: Risk communication – detection, assessment, management and communication of risk in mass human toxic exposures – Part 2

Session Chair: Stephen Borron, Sergej Zacharov

15:00-15:45

Benefits and drawbacks of strict regulation on chemicals (US, EU versus developing countries regulations) / two faces of the same coin
Michael Eddleston, University of Edinburgh, Edinburgh, UK

At the end of this session the audience should be able to:
- Recognise the requirement for a needs and risk-based assessment for highly hazardous pesticides

Peter Smith, European Chemistry Industry Council (Cefic), Brussels, Belgium

At the end of this session the audience should be able to:
- Reflect on how the strict/over regulation of chemicals can prove burdensome for industry whilst not providing an improvement to public health

15:45-16:15 Coffee and electronic posters
E-POSTERS from 253 to 260 (detailed at E-Posters tab)
Symposium: Advances in critical care of poisoned patients: Imaging and treatment - Part 2

Session Chair: Lewis Nelson, Chris Yates

16:15-16:35 Poisoned patients as potential organ donors. The Spanish experience
Beatriz Mahillo Durán, Spanish National Transplant Organization, Madrid, Spain

At the end of this session the audience should be able to:
- Discuss the potential of poisoned patients as organ donors

16:35-17:20 Debate: Sedation of agitated poisoned patient - is dexmedetomidine a reasonable first-line to propose?
Dylan de Lange (PRO), University Medical Center, Utrecht, The Netherlands

At the end of this session the audience should be able to:
- Recognise that dexmedetomidine is a selective alpha 2-adrenergic receptor agonist which can be used for sedation of agitated patients without causing respiratory depression

Geoff Isbister (CON), University of Newcastle, Newcastle, Australia

At the end of this session the audience should be able to:
- Describe the different pharmacological options for sedating aggressive patients
- Explore the implications of different settings for sedating patients

17:20 Close

20:00 Congress Dinner at Teatro Real (Opera House)
Symposium: Risk communication – detection, assessment, management and communication of risk in mass human toxic exposures – Part 3

Session Chair: Horst Thiermann, Martin Caravati

16:15-16:35

Municipal water contamination by perfluoroalkyl substances: Lessons learned

Alan Woolf, Boston Children’s Hospital, Boston, USA
Karen Simone, Northern New England Poison Center, Portland, USA

At the end of this session the audience should be able to:
- Describe three community-level strategies to consider implementing upon discovery of a PFAS contamination event in municipal drinking water

16:35-16:50

Rapid triage of victims of suspected chemical attack using a one page questionnaire for identification of the toxidrome: The experience of Médecins Sans Frontières (MSF)

(abstract no. 261)
Frederic Baud, Doctors without Borders, Paris, France

At the end of this session the audience should be able to:
- Demonstrate that only a limited number of clinical items allows determination of major toxidromes induced by chemical exposure
- Identify toxidromes induced by riot agents, choking gases, neurotoxic agents and vesicants

Session Chair: Fridtjof Heyerdahl, Nicola Bates

16:50-17:20

Poster discussion session

262. Aerotoxic syndrome: Aircraft involved in contaminated cockpit/cabin air exposure and related symptoms in 11 patients referred for review in a specialist clinical toxicology outpatient service
David M. Wood and Paul I. Dargan

263. A characterization of occupational irritant and asphyxiant gas exposures
Christopher Hoyte

264. Ethanol strips for bedside monitoring of ethanol concentrations during treatment of toxic alcohols: Preliminary results
Knut Erik Hovda, Gaut Gadeholt and Dag Jacobsen

265. Routine toxicological analysis does not meet clinical needs: An endless breakdown in spite of modern technology
Khadija Alaywa, Frederic J. Baud, Romain Jouffroy, Lionel Lamhaut and Pierre Carli

266. The evidence for acute tolerance to human alcohol intoxication (the Mellanby effect): A systematic review
Robin E. Ferner, Michael G. Holland, Ross W. Sullivan and Ana Ferrer Dufol
267.* Occupational transdermal poisoning with synthetic cannabinoids
Mojca Dobaja, Damjan Grenc, Gordana Kozelj and Miran Brvar

268. Carbon monoxide poisoning in wood pellet storerooms
Nena Golob, Damjan Grenc, Mojca Dobaja and Miran Brvar

269. Pesticide exposure among professional users
Sarah Vecchio, Davide Lonati, Valeria M. Petrolini, Francesca Chiara, Andrea Giampreti, Marta Crevani and Carlo A. Locatelli

NB CME accreditation has not been requested for this session

17:20 Close

20:00 Congress Dinner at Teatro Real (Opera House)

*Shortlisted for Taylor & Francis best case study award
E-Posters
TOPICS: E-CIGARETTES AND HOUSEHOLD PRODUCT SAFETY

1. Intramuscular and intravenous e-liquid injection: A new phenomenon?
   Eleri Thomas, J. Allister Vale, Michael Eddleston, Simon HL Thomas and John P Thompson

2. Fatal outcome after suicidal subcutaneous injection of E-cigarette liquid
   Justus Vasama, Kalle Hoppu, Mikko J. Parry and Jari Kalliomäki

3. Household product safety evaluation over a 15 year period based on systematic follow up
   Monique Mathieu Nolf

4. MAGAM II DISC: Eye exposures caused by cleaning products in Denmark, Italy, Slovakia and Czech Republic
   Elke Färber, Fabrizio Sesana, Anna Celentano, Ellen B Pedersen, Niels E Ebbehøj, Silvia Plačkova, Blažena Cagăňová, Daniela Pelclova, Sergey Zakharov and Herbert Desel

5. Evaluation of medical outcomes associated with exposures to liquid laundry detergent packets reported to the US National Poison Data System
   Ryan Lucas, Kate Reynolds and Jody Green

6. Accidental childhood exposures to single use laundry detergent packs: 3-year analysis of an on-going prospective study
   Shan Yin, Jonathan Colvin, Gerard Stijntjes, Leslie Rylander and Kersi Vasunia

7. Paediatric eye exposures to household products
   Anna Celentano, Fabrizio Sesana, Franca Davanzo, Joannhe Georgatos, Paolo Severgnini, Rossana Borghini, Valeria Dimasi, Antonella Pirina and Marcello Ferruzzi

8. Rate estimates and trends of pediatric exposures to liquid laundry detergent capsules in Italy
   Laura Settimi, Laura Lauria, Anna Celentano, Felice Giordano, Fabrizio Sesana and Franca Davanzo

9. Liquid detergent capsules: How to make the product and its use safer
   Anja P. G. Wijnands, Jan Meulenbelt, Antoinette J. H. P. van Riel and Irma De Vries

10. Hot-cold packs: Trifle or threat?
    Jutta Trompelt, Heidemarie Zeimentz, Oliver Sauer and Andreas Stürer

11. Toxicity resulting from automotive screenwash exposures reported to the UK’s National Poisons Information Service from 2012 to 2014
    Rachael C. Day, Sally M. Bradberry, Michael Eddleston, Simon H. L. Thomas, John P. Thompson and J. Allister Vale

12. Eucalyptus oil poisoning in Australia: Do we need koala-proof packaging?
    Rose Cairns, Jared A. Brown and Nicholas A Buckley
TOPICS: DRUGS OF ABUSE

18. Intoxications involving 3-fluorophenmetrazine (3-FPM): Results from the STRIDA project
Jenny Westerbergh, Matilda Bäckberg, Olof Beck and Anders Helander

19.* An analytically-confirmed case of benzylglycinamide consumption
Antonella Valli, Pietro Papa, Loretta Rocchi, Laura MA Rolandi, Massimo Serra, Davide Lonati and Carlo A Locatelli

20.* Ocular ischemic syndrome associated with repeated intravenous injection of cocaine and methamphetamine
Rita G. McKeever, Jason Lange, David Vearrier, David J. Goldberger and Michael Greenberg

21. Identification of novel psychoactive substances in biological samples from patients with severe clinical toxicity in the UK: Preliminary results from the Identification Of Novel psychoActive substances (IONA) study
Simon L. Hill, Michael Dunn, Javad Najafi, Rachelle Abouchedid, Paul I. Dargan, David M. Wood and Simon H. L. Thomas

22. Profile variations of drugs of abuse cases attending Emergency Department (ED) in a ten year period: The rise of cannabis
Carmen Lahuerta Pueyo, Judith Prieto Labiano, Ana Serrano Ferrer, Sebastian Menao Guillen and Ana Ferrer Dufol

23. Phenethylamines - they have known, but have they loved? Mass intoxication with 2C-E in northern Germany
Adrienne Kilian, Brenda Huppke, Annette Groeneveld and Andreas Schaper

24. Cross-reactivity of selected old and novel psychoactive substances (NPS) in an amphetamine and ecstasy immunoassay
Isabel Gomila, Loreto Quesada, Ana Gómez, Sonia Avella and Bernardino Barcelo

25. Geographical patterns in benzodiazepines involved in acute recreational drug toxicity presentations to the European Drug Emergencies Network (Euro-DEN)

*Shortlisted for Taylor & Francis best case study award
E-POSTER THURSDAY 26 MAY

Session Chair: Knut Erik Hovda

10.40-11.25 TOPICS: MEDICATION POISONING AND ADVERSE DRUG REACTIONS

125. Citalopram overdose in children and adolescents
Dagmar Prasa, Sonja Gros, Simone Just, Elke Färber, Sabine Stoletzki, Uwe Stedtler, Carola Seidel, Andreas Vagt, Elja Heistermann, Dieter Genser and Gabriele Dostal

249. Critical care: Survival without sequelae following a massive sodium nitrite ingestion
Rebecca Bruccoleri, Leslie Bilello, Anthony Caruso and Steven Salhanick

127. Calcium channel blocker poisonings in Denmark: 5 years’ data from the Danish Poison Information Center
Salam Al-Gibouri, Jon T. Andersen, Espen Jimenez-Solem, Kasper M. Petersen, Søren Bøgevig, Tonny S. Petersen, Kim Dalhoff and Mikkel Christensen

128.* Severe hypercalcemia secondary to chronic vitamin D overdose in an infant
Kristin McCloskey, David Vearrier, Rita G. McKeever and Michael Greenberg

129. Salicylate poisoning: Risk factors for severe outcome
Rachel M. Shively, Robert S. Hoffman and Alex F. Manini

130. Accidental epidural or intrathecal administration of thiocolchicoside can be lethal
Davide Lonati, Azzurra Schicchi, Livio Paulin, Cesare Bonezzi, Sarah Vecchio, Laura Demartini and Carlo A Locatelli

131. Co-administration of methadone and ondansetron associated with torsade de pointes
Lindsay M. Fox, Rana Biary, Robert S. Hoffman, Mary Ann Howland, Lewis S. Nelson and Silas W. Smith

132. Precipitated opioid withdrawal from naltrexone injection
Rachel S. Wightman, Nathan Kunzler and Lewis S. Nelson

134. Comparison of atypical antipsychotic exposures in young children reported to US poison centers
Wendy Klein-Schwartz, Gina Stassinos, Larry Gonzales and Bruce Anderson

135.* Torsades de pointes due to co-administration of methadone and moxifloxacin
Evangelia Liakoni, Xaver Huber, Mihaela Stegert, Séverine Crettol, Chin B. Eap and Matthias E. Liechti

136.* Methadone-induced hypoglycemia in an 11-month-old child
Michael Toce and Michele Burns

*Shortlisted for Taylor & Francis best case study award
Session Chair: Mark Zammit

15.40-16.10  **TOPICS: MEDICATION POISONING AND ADVERSE DRUG REACTIONS, MISCELLANEOUS, PESTICIDES**

149. Ingestion of codeine syrup in children: A 10-year retrospective study
Tara Arif, Kinga Barteka-Mino, Angelika Holzer, Helmut Schiel and Dieter Gensler

150. Rebound hepatotoxicity following successful treatment of acetaminophen overdose
William Rushton and Justin Arnold

151. Paracetamol poisonings treated with two complete courses of N-acetylcysteine
Markus Tellerup, Sune Forsberg and Jonas Höjer

152. Pregabalin overdose: A review of cases reported to a poisons centre
Patricia Casey, Rawan Al-Ansari, David Williams and Edel Duggan

153. Attacks with self-defense sprays
Santiago Nogué, Montserrat Amigó, Verónica Velasco and Emilio Salgado

154. Death after imidacloprid ingestion: A case report
Ahmad G. Khorasani, Zahra F. Danesh and Shahin Shadnia

155. Fatal accidental ingestion of alphachloralose rodenticide in two siblings
Maria Windy, Ghyslaine Jalal, Naima Rhalem, Abdelmajid Soulaymani and Rachida Soulaymani

156. Methanol and formate concentrations in brain after methanol poisoning
Raido Paasma, Mailis Tõnisson, Siri Foreid, Gaut Gadeholt and Knut Erik Hovda
E-POSTER FRIDAY 27 MAY

Session Chair: Paul Dargan

10.00-10.45

TOPICS: CRITICAL CARE POISONING, ANIMAL POISONING, PLANT AND MUSHROOMS POISONING

242. Life-threatening amlodipine intoxication: A comparison of two approaches to treatment
Sophie Magréault, Dominique Vodovar, Nicolas Deye, Sébastien Voicu, Isabelle Malissin, Antoine Goury, Florent Poirson, Marion Soichot, Emmanuel Bourgogne and Bruno Mégarbane

243. An inadvertent intravenous injection of 0.5% chlorhexidine in 70% ethanol in a newborn
Petja Fister, Darja Paro-Panjan, Branko R. Gaber, Andreja Skofljaneč and Damjan Grenc

244. Self-extubation of the poisoned patients admitted to the intensive care unit: A major issue with limited consequences
Isabelle Malissin, Florent Poirson, Antoine Goury, Sebastian Voicu, Jean-Michel Ekhérian, Nicolas Deye and Bruno Mégarbane

245. Acute methanol poisoning: Prevalence and predisposing factors of haemorrhagic and non-haemorrhagic brain lesions
Sergey Zakharov, Olga Nurieva, Katerina Kotikova, Tomas Navratil, Manuela Vanecova, Zdenek Seidl and Daniela Pelclova

246. Antidotal use of intravenous lipid emulsion: 5 years’ experience in an intensive care unit
Jasmina Jovic-Stosic, Vesna Putic, Natasa Vukcevic, Gordana Ercegovic, Slavica Vunicin, Snezana Djordjevic and Gordana Brajkovic

247. High sugar + low potassium + lactic acidosis = caffeine intoxication
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248. Late presenting-massive acetaminophen overdose treated with liver dialysis
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250. Unusual and severe cardiac effects in Amanita proxima poisoning: A case report
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251. Mushroom picking in Navarre: Safer than we think?
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252. Snake bite in Navarre: A retrospective analysis of 45 cases
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254. What can toxicologists learn from therapeutic studies about the treatment of acute and chronic methotrexate poisoning?  
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255. Plasma paracetamol metabolites accurately predict hepatotoxicity and represent new clinical toxicokinetic biomarkers  

256. Digoxin-Fab antibody use in suspected chronic digoxin toxicity in elderly patients with multiple co-morbidities: Does it make a difference?  
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257. Sri Lankan Russell’s viper envenoming causes mild myotoxicity  
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258. The use and safety of high-dose insulin euglycaemia therapy in toxin-induced cardiac toxicity  
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259. Extracorporeal life support (ECLS) in life-threatening digoxin overdose: A bridge to antidote  
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260. Intensive Care Unit admission in poisoned patients: A 14-year study  
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42. Improper use of a medicine bottle to prepare an e-cigarette refill liquid
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43. E-cigarettes and synthetic cannabinoids: A new trend
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44. Dermal and ocular exposure to vinegar essence in Austria, 2002-2014
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45. Household cleaning product exposures: Data from the Moroccan Poison Control Centre (2010-2014)
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46. A fatal human exposure to sodium dichloroisocyanurate tablets
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47. Accidental poisonings by ingestion of decanted liquid chemicals: Retrospective analysis of cases reported to a Poisons Centre 1997-2011
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48. Laundry detergents capsules: Experience of the Spanish Poisons Center
Susana De La Oliva Urieta, Emilio Mencías Rodríguez, Jesús Agudo Ordóñez and José Luis Conejo Menor

49. Exposure to liquid laundry detergent capsules: Experience of the Danish Poisons Information Centre
Ellen B. Pedersen and Lotte C. G. Hoegberg

50. Composition of automotive screenwashes sold in the UK: How many contain ≥ 3% w/w methanol?
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51. Toxicity of oven cleaners as reported to the UK National Poisons Information Service from 2009 to 2014
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52. Did increasing the number of TOXBASE® product entries for liquid laundry detergent capsules increase the number of accesses for these products and reduce the number of telephone enquiries reported to the UK National Poisons Information Service?
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53. Has the International Association for Soaps, Detergents and Maintenance Products (AISE) Product Stewardship Programme had an impact on the number and severity of exposures to liquid laundry detergent capsules reported to the UK National Poisons Information Service (NPIS)? Rachael Day, Michael Eddleston, Simon H.L. Thomas, John P. Thompson and J. Allister Vale

54. Ocular exposures to bleaches: Comparison of severity between sodium hypochlorite and hydrogen peroxide
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55. Unintended severe poisoning by a modern toilet cleaner: Analysis of case reports and product databases for early risk detection
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56. Addition of a bittering agent in liquid laundry detergent capsule membranes: Is there a tangible ingestion risk decrease? An Italian Poison Control Centre’s point of view
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57. Inhalation injury by chlorine generated by mixtures of hypochlorite
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58. Acute health problems due to recreational drug use in patients presenting to an urban emergency department in Switzerland
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59. Synthetic cannabinoid receptor agonist (SCRA) toxicity reported to the Victorian Poisons Information Centre
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60. Clinical signs and symptoms in patients poisoned with processed cannabis (Majoon Birjandi) in Eastern Iran
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61. An unhappy end for a party involving Datura stramonium and other abuse drugs
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62.* Not your regular high: Potentially lethal cardiac dysrhythmias caused by loperamide
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63. Inhalational heroin resulting in acute cardiomyopathy and sensorineural hearing loss
David J. Goldberger and David Vearrier

64. A fatal case of acute clenbuterol poisoning
Ann-Charlott Svanhagen and Mark Personne

65. Clinical features and outcomes in a case series of 549 MDMA-related acute toxicity presentations reported to the European Drug Emergencies Network (Euro-DEN) project over 15 months
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66. The impact of legislative control of methylphenidate-based novel psychoactive substances on recreational drug-related admissions to the Royal Infirmary of Edinburgh
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67. Drugs of abuse used by patients presenting to the Emergency Department over a one year period
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68. Chest pain associated with recreational use of cocaine and mephedrone: Should we be asking patients about use?
Takahiro Yamamoto, Shwetha Rao, Christopher Walker, Andrew Kicman, David M. Wood and Paul I. Dargan

69. “Mâajoune” preparations: The most legendary confections of cannabis with other substances of abuse in Morocco
Narjis Badrane, Hanane Chaoui, Naima Rhalem and Rachida Soulaymani Bencheikh

70. Epidemiology and clinical picture of hashish oil poisoning in Slovenia
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*Shortlisted for Taylor & Francis best case study award
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71. Online survey on prescription medicine misuse: What is the evidence for prescription opioid misuse in Singapore?
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72. Acute neurotoxicity of bath salts combining 3,4-methylenedioxypyrovalerone and mephedrone in the rat
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73. Substance abuse among medical students in Maribor, Slovenia
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74. Abuse of synthetic cannabinoids in Israel: Reports to the National Poison Information Center 2010-2014
Yael Lurie, Gal Neuman, Iris Levdo-Avital, Daniel Kurnik and Yedidia Bentur

75. Alcoholic poisonings in adolescents treated in an emergency room in the summer of 2015
Jordi Puiguriguer, Christopher Yates, Amparo Fraile, Monica Guerra, Catalina Homar and Isabel Ramos

76. Gamma-butyrolactone overdose with metabolic acidosis treated without dialysis
James Boyd, Ilkka Ojanperä and Mika Paloheimo

77. All that glitters is not LSD!
Gael Le Roux, Severine Ferec, Benedicte Lelievre, Marie Bretaudeau-Deguigne, Chadi Abbara, Alain Turcand and David Boels

78. Severe clinical toxicity following analytically confirmed use of the synthetic cannabinoid receptor agonist MDMB-CHIMICA: A report from the Identification Of Novel psychoActive substance study (IONA)
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79. Patterns of presentation and clinical toxicity after reported use of methiopropamine: A report from the UK National Poisons Information Service (NPIS)

81. An unusual case of cannabinoid hyperemesis syndrome
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82. Clinical features of paramethoxymethamphetamine (PMMA) poisoning in lethal and non-lethal cases
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83. Clinical features of intoxication with 2C-series phenethylamines
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84. Accidental intoxication with cannabis after mistaking it for frozen food
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85. Futile fight - Trends in poisoning with drugs of abuse in Hungary
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86. A synthetic cannabinoid receptor agonist (AB-FUBINACA) associated fatality
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87. Cases of suspected drink spiking presenting to a Danish emergency department
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88. Trend analysis of novel psychoactive substances (NPS) detected in pooled urine samples from
   street urinals in London, UK over 18 months
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89. Adverse events associated with tianeptine use and abuse
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91. A review of enquiries received by the UK National Poisons Information Service (NPIS) from
   England and Wales involving calcium channel blocking drugs 2009-2013
   Gillian Cooper, John P. Thompson, J. Allister Vale, Michael Eddleston, Simon H. L. Thomas and
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92. Central nervous system toxicity following mefenamic acid overdose: An analysis of UK National
   Poisons Information Service Data
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93. Improving the management of a poisoned patient: How complete is the initial information
   provided by emergency physicians to poison centers?
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94. Poisoning by carbon monoxide in Morocco: 1991-2013
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95. Toxicovigilance of poisoning cases in the Meknes Tafilalet region, Morocco during 2013-2014
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96. Paediatric battery ingestion: The experience of the UK National Poisons Information Service
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97. Quality assessment of alkalinization recommendation by Poison Center personnel
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98. Factors predicting axonal degeneration of the optic nerve after methanol-induced acute optic neuropathy  
Sergey Zakharov, Olga Nurieva, Katerina Kotikova, Pavel Urban, Vit Petrik, Tomas Navratil and Daniela Pelclova

99. Optic nerve remyelination after acute methanol neuropathy: A 2-year prospective study in 54 patients  
Sergey Zakharov, Olga Nurieva, Katerina Kotikova, Pavel Urban, Tomas Navratil and Daniela Pelclova

101. Efficacy of isosorbide dinitrate as an antidote for cyanide poisoning in rabbits depending on the timing of treatment  
Ophir Lavon, Amit Avrahami and Arik Eisenkraft

102. Hydrofluoric acid: An \textit{in vitro} experiment in a 3D human airway reconstructed epithelia  
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103. Hyperbaric oxygen protects neurotrophic activity of carbon monoxide-exposed astrocytes  
Jure Levstik, Miran Brvar, Dusan Suput and Damijana M. Juric

104. A novel, fluorescence-based method to detect effects of novel psychoactive substances (NPS) on neurotransmitter re-uptake transporters  
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105. Variability of neurobehavioral toxicity of naphyrone, a new synthetic cathinone, with acute or binge administration  
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106. Acute behavioral toxicity and addictive liability of the synthetic cathinone 3,4-methylenedioxyxypyrovalerone (MDPV) in the rat  
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107. A bifunctional and peptide-based opioid agonist-nociceptin antagonist ligand for treatment of pain: Is the benefit-to-neurorespiratory toxicity ratio improved compared to the usual opioids?  
Camille Lagard, Lucie Chevillard, Patricia Risède, Bruno Mégarbane and Steven Ballet

108. The disposition of cocaine and its metabolites in biological matrices following controlled administration in volunteers  
Paul I. Dargan, Eleanor L. Menzies, John R. H. Archer, Takahiro Yamamoto, Simon Elliot, Dene Baldwin, Mark C. Parkin, David M. Wood and Andrew Kicman

109. Polyvinylpyrrolidone-coated iron oxide nanoparticles (PVP-Fe$_3$O$_4$NPs): Toxicological profile evaluation in human brain cells  
Uliana De Simone, Carlo A Locatelli, Davide Lonati, Lenin Ramírez-Cando and Teresa Coccini

110. Lack of symptoms following a large combined carbamazepine and quetiapine overdose: The role of enzyme induction by carbamazepine  
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112. The challenge of unknown chemical exposure  
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113. Risks related to mineral oils after accidental injection of veterinary vaccines: Prospective study at the Poison Control Centre of Angers  
David Boels, Gael Le Roux, Jean-François Hamel and Florence Jegou

114. Severe poisoning after ingestion of chloroform  

115. Methyl ethyl ketone peroxide toxicity treated with acetylcysteine  
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116. Risks from and concerns about sodium fluoroacetate (1080): A review of enquiries to the New Zealand Poisons Centre  
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117. Severe toxicity with triclopyr overdose: A case report  
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118. Clinical characteristics of zinc phosphide poisoning in Thailand  
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119. Surveillance of acute plant protection pesticide-related poisonings in Italy  
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126. Examining methotrexate exposures reported to the UK National Poisons Information Service 2004-2015: Highlighting adverse reactions and avoidable therapeutic errors
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157. Severe hypertension and bradycardia secondary to midodrine overdose
Lee Y. Wong, Anselm Y. Wong, Tomas Rozek, Michael S. Roberts and Geoffrey K. Isbister

158. Paracetamol toxicity: A survey of awareness in the Eastern province of Saudi Arabia
Mohammed Al Jumaan, Bader Alossaim and Mohye Alwahas

159. Appropriate medication administration by medical trainees when treating serotonin syndrome
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160. Methadone intoxication treated at an emergency centre in Serbia from 2011 to 2014
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161. Rhabdomyolysis associated with synephrine and yohimbe containing nutritional supplements and weight lifting
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162. Diabetic medication enquiries to the New Zealand National Poisons Centre
Yvette C. Millard

163. Delirium following loperamide overdose: A case report
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164. Accidental intravenous administration of a *Lactobacillus reuteri* preparation in a neonate
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165. Severe prolonged tachycardia after massive overdose of paliperidone
Lee Wong, Morris Odell, Katherine Wong and Shaun L. Greene

166. Overdoses of ropinirole reported to the UK National Poisons Information Service
Alison M. Good, Gillian Jackson, Caroline E. McGrory, Victoria Eagling, Simon H. L. Thomas, John P. Thompson, J. Allister Vale and Michael Eddleston

167. Safety of antipsychotic drugs: A 16-year review
Blážena Cagáňová, Silvia Plačková, Jaroslav Kresanek, Elena Ondriasova and Natalia Luptakova

168. Severe taxane skin reaction due to a drug interaction with amiodarone: A case report
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169. Acute iatrogenic parenteral vancomycin overdose and associated nephrotoxicity: A case report
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170. What are the causes of and how to prevent medication errors by laypersons?  
Michal Urban, Daniela Pelclova, Roman Lesso and Sergey Zakharov

171. A case of flecainide overdose responding to lipid emulsion therapy  
Susan Miller, Mohan Punja and William J Meggs

172. Paracetamol overdose in Slovenia  
Tina Antolic, Lucija Peterlin Masic and Miran Brvar

173. Supplementation of vitamin D can be hazardous when exaggerated: A case report  
Eva K. Olsson, Henry Lindberg and Tomas Forsberg

174. QT prolongation after accidental tamoxifen ingestion in a 5-year-old child  
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175. Use of octreotide as a novel treatment for insulin overdose in a non-diabetic patient  
Scott Twaddell, Ian M. Whyte and Geoffrey K. Isbister

176. Erroneous intravenous injections  
Henk Van Pelt, Marijke Fortuin, Yves Haerden and Martine Mostin

177. Analysis of homeopathic product exposures reported to US Poison Centers  
Kate Reynolds, Edward Krenzelok and Jody Green

178. Vincristine fatality after accidental intrathecal administration: Analytical and therapeutic challenges  
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179. Convulsions associated with analytically confirmed phenibut ingestion  
Muhammad E. M. O. Elamin, Michael Dunn, Simon L. Hill and Simon H. L. Thomas

180. Peridural accidental administration of xenobiotics: An unpredictable outcome  
Davide Lonati, Azzurra Schicchi, Valeria M. Petrolini, Francesca Chiara, Eleonora Buscaglia, Raffaella Sorrentino, Enrico M. Visetti and Carlo A. Locatelli

181. Adverse events related to the administration of two different formulation of long-acting injection antipsychotics  
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182. Resurgence of propylhexedrine abuse as an inexpensive and legal alternative to methamphetamine use  
Justin Arnold and William Rushton

183. QRS prolongation and ventricular tachycardia after citalopram overdose in a pediatric patient  
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184. Adult clonidine overdose: Prolonged bradycardia and central nervous system depression, but not severe toxicity  
Geoffrey K. Isbister, Simon P. Heppell, Colin B. Page and Nicole M. Ryan
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185. Elevation of blood urea nitrogen with initiation of arginine chloride supplementation
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186. Ocular cyclopentolate: Another cause of toxic acute confusional state
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187. Adverse drug reactions reported to the Poison Control Centre of Morocco (2013-2014)
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188. Botulism cases in Austria, 2006-2014
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189. Human exposures to opioid analgesics reported to the Poisons Information Centre Erfurt from 2005 to 2014
Germaine Frimlova, Helmut Hentschel, Dagmar Prasa, Mandy Gollmann, Simone Just, Gesine Liebetrau, Bettina Plenert, Anne Stürzebecher and Michael Deters

190. Palytoxin exposures reported to the US National Poison Data System (NPDS)
Lauren T. Murphy, J. Priyanka Vakkalanka, Jennifer L. Parker Cote and Nathan P. Charlton

191. How can Poison Control Centers detect new trends in health? Vitamin D exposures as an example
Salomé Ballesteros and Fátima Ramón

192. Exposures to drugs used to treat attention deficit hyperactivity disorder (ADHD): A Poison Control Center experience
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193. Risks of silica gel in medicine containers: The example of a vitamin D and Lactobacillus product for newborns
Tinie Van’t Veen, Nete Brandt Hansen and Lotte CG Hoegberg

194. An epidemiological study of acute intoxications treated in a second level, recently-opened hospital between 2010 and 2015
Vanessa Anton Vazquez, Francisca Córdoba Ruiz, Isabel De Vallés Garcia, Elena Güell, Jessica Rey, Gemma Agudo and Blanca Losada

195. Severe accidental intoxication: A 10-year analysis
Sonja Gros, Hans Jürgen Reinecke, Rüdiger Hillmann, Vimal Chada, Ingo Sagoschen, Oliver Sauer and Andreas Stürer

196. Acute poisoning in addicted patients in the toxicology department
Julia V. Radenkova-Saeva and Anelia M. Loukova
197. Evaluation of biocidal product enquiries to the Austrian Poison Information Centre 2014
Tara Arif, Kinga Bartecka-Mino, Helmut Schiel, Angelika Holzer, Marianne Keck and Dieter Genser

198. Poison exposures in early teens: Calls to the Finnish Poison Information Centre in 2014
Pirjo Tynjälä and Kalle Hoppu

199. Descriptive study of medical toxicology consultations at a teaching university hospital in Bangkok
Rittirak Othong and Ziad N. Kazzi

200. Increased paracetamol-related calls to the Finnish Poisons Information Centre better reflect paracetamol sales than serious poisonings
Mikko J Parry and Kalle Hoppu

201. A 4-year analysis of calls answered by the staff at Red Cross War Memorial Children’s Hospital (RCWMCH) Poisons Information Centre (PIC) in South Africa
Farahnaz Mohamed, Brian Eley, J. Clare Roberts, Kate H. Balme, Linda E. Curling and Cindy R. Stephen

202. Referrals from UK schools to the NPIS: An 8-year study
David Stewart, Caroline E. McGrory, J. Allister Vale, Simon H. L. Thomas, John P. Thompson, Michael Eddleston and Euan A. Sandilands

203. Study of acute atypical antipsychotic poisonings in adults in Bulgaria
Emilia V. Kirova, Margarita S. Gesheva, Anelia M. Loukova and Julia V. Radenkova-Saeva

204. Epidemiology of cannabis poisoning: Data from the toxicology laboratory of the Poison Control and Pharmacovigilance Centre of Morocco (2013-2015)
Narjis Badrane, Omaima Elbouazzi, Mouna Bentafrit, Mohamed Ghandi, Abdelmajid Soulaymani, Naima Aitdaoud and Rachida Soulaymani Bencheikh

205. The burden of malicious poisoning in the Emergency Department
Mara Pisani, Giorgia Bottaro, Valentina Ferro, Francesco Paolo Rossi, Maria Alessia Mesturino and Anna Maria Musolino

206. Costs of adult poisoned patients admitted to an adult emergency department of a tertiary hospital evaluated through a toxicovigilance program
Raul Muñoz, Alberto Borobia, Ana Martinez-Virto, Manuel Quintana, Jesus Frias and Antonio J Carcas

207. Characterization of marijuana use in US college students as reported to an online survey
George Wang, Andrea Besharat, Marie-Claire Le Lait, Colleen Haynes, Janetta Iwanicki, Richard Dart and Genie Roosevelt

208. Severe and fatal accidental pharmaceutical poisoning in young children in the UK
Mark Anderson, Leonard Hawkins, Michael Eddleston, John P. Thompson, J. Allister Vale and Simon H. L. Thomas

209. Copper sulphate experiments: An unnecessary hazard at school
Ellen B. Pedersen and Lotte C. G. Hoegberg

210. Toxic love: A 3-year retrospective analysis of love-related toxicological deliberate self-harm
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211. Native British snake bites in the UK: An estimation of occurrence and antivenom usage

212. Iron poisoning and the use of desferrioxamine: Survey Data from the UK National Poisons Information Service (NPIS)

213. Toxicity of 2,4 dinitrophenol: Impact of public health measures discouraging use on episodes of toxicity referred to the UK National Poisons Information Service

215. Caffeine-containing energy drinks and caffeine poisoning in school-age children (5-16 years): TOXBASE® access and enquiry data
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