Detailed Scientific Programme
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Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.
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Social Programme

**Wednesday 23 May 2018 at 19:00 hrs: Welcome Reception**

The Welcome Reception will be held on 23rd May 2018 at the Cotroceni Palace. (http://www.muzeulcotroceni.ro/index_eng.html)

The Cotroceni Palace, headquarters of The Presidential Administration, is located in an area with a history of over three hundred years. Between 1679 - 1681, to the west of Bucharest, on these lands, on the Cotroceni hill, Prince Serban Cantacuzino founded a monastery, clearing a densely wooded area of the Vlăsiei Woods. Remarkable within this ensemble from the times of Serban Cantacuzino were the "Assumption of the Holy Virgin" church and the magnificent princely palace, built in the Baroque style, specific to the Western Europe of those days. In terms of architecture, the ensemble of Cotroceni has known several key moments: the first is related to the name of the founder Serban Cantacuzino (1678 - 1688).

*Please note that all guests are obliged to pass Security Control on arrival and bring your passport / national ID card with you. The Cotroceni Palace is about 15 minutes by bus but because of the traffic it could take about 30 minutes from the congress venue and buses will depart from the Sheraton Hotel at 17.30 hrs and return at 20.30 hrs.*

**Included in the registration fees**

**Friday 25 May 2018 at 20:00 hrs: Conference Dinner**

The Conference Dinner will be held at The Royal Palace of Bucharest on Friday 25th May 2018. (http://www.mnar.arts.ro/en/).

The Royal Palace of Bucharest, known as Palace of the Republic (between 1948 and 1990), is a monumental building situated in the capital of Romania, on Calea Victoriei. The Palace in its various incarnations served as official residence for the Kings of Romania until 1947, when a republican regime was installed after the abdication of King Michael I. Since 1950 the Palace hosts the National Museum of Art of Romania. The former Romanian royal family currently uses Elisabeta Palace as its official residence in Bucharest. The Palace is the largest and most significant royal residence in the country, containing emblematic official spaces such as the Throne Hall, the Royal Dining Hall and the monumental Voivodes' Staircase. An equestrian statue of the first king of Romania, Carol I stands in the large square in front of it, traditionally known as the "Palace Square", but renamed "Revolution Square" following the Romanian revolution of 1989.

*The Royal Palace of Bucharest is located in the old town. It can be reached on foot within 15 minutes from the Congress Center at the Sheraton Hotel or 10 minutes by bus (nº 381). Welcome drinks will be served at 20 hrs and dinner at 20.30 hrs.*

*Tickets can be bought at the registration desk. Tickets are limited in number by the venue, so please book early to avoid disappointment.*
**Platinium Room**

**CONTINUING EDUCATION IN CLINICAL TOXICOLOGY**

**Chemical and Biological Weapons (CBRN) – an update for the Clinical Toxicologist**

**Session chair: Florian Eyer, Fridtjof Heyerdahl**

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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>09:00 - 09:30</td>
<td>Acute Radiation Syndrome: A role for toxicologists?</td>
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<tr>
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<td><strong>Stephen Borron</strong>, Texas Tech University Health Sciences Center, El Paso, USA</td>
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<tr>
<td>09:30 - 10:00</td>
<td>Ricin, a plant toxin of special interest</td>
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<td><strong>Brigitte Dorner</strong>, Robert Koch Institute, Berlin, Germany</td>
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<td>10:00 - 10:30</td>
<td>Botulism: the poison of the poison - a real risk?</td>
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<tr>
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<td><strong>Davide Lonati</strong>, Poison Control Centre and National Toxicology Information Centre - Toxicology Unit IRCCS Maugeri Hospital and University of Pavia, Italy</td>
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</table>

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

- Describe the role of serial absolute lymphocyte counts in assessing whole body radiation dosages.
- Explain the hallmarks of ricin toxin including its structure and function as well as its role as potential biothreat agent and to highlight pros and cons of different detection methods.
- Explain the potential use of botulism toxin as a potential biothreat agent and describe the clinical manifestations and treatment.

10:30 - 11:00  Coffee
Session chair: Horst Thiermann, Davide Lonati

11:00 - 11:30 Mobile lab support for Ebola diagnostics - challenges, solutions and lessons learned
Roman Wölfel, Bundeswehr Medical Academy, Munich, Germany

11:30 - 12:00 From Diagnosis to Treatment of Clostridial Toxins
Panagiotis Papatheodorou, Institute of Pharmacology and Toxicology, University of Ulm Medical Center, Germany

12:00 - 12:30 Verification through Analytical Chemistry – Proving exposure to chemical warfare agents by the OPCW
Marc-Michael Blum, Organisation for the Prohibition of Chemical Weapons, Rijswijk, The Netherlands

At the end of this session the audience should be able to:
- Explain the principles of the mobile lab support in the Ebola outbreak 2013-15 and describe the most important lessons-learned.
- Explain possible diagnosis and treatment options for clostridial toxins posing a potential public health threat.
- Understand the use of biomedical sample analysis in the OPCW verification mechanism to confirm exposure to chemical warfare agents and other toxic chemicals.

12:30 – 13:30 Lunch

Session chair: Miran Brvar, John Thompson

13:30 - 14:00 Triage, patient decontamination, and early diagnostics after chemical warfare attacks
Dirk Steinritz, Bundeswehr Institute of Pharmacology and Toxicology, Munich, Germany

14:00 - 14:30 Therapeutic challenges in mass exposure to toxic industrial chemicals
Peter de Paepe, Ghent University Hospital, Belgium

14:30 - 15:00 Public health aspects of chemical weapon preparedness and response: some lessons from the field
Catherine Smallwood, World Health Organization, Geneva, Switzerland

At the end of this session the audience should be able to:
- Explain the medical challenges that occur after chemical attacks and how to cope with these issues.
- Discuss the therapeutic challenges in mass exposure to toxic industrial chemicals.
- Describe some of the public health, medical and other challenges that WHO has faced in recent emergencies involving toxic chemical hazards.

15:00 – 15:30 Coffee
Session chair: Stephen Borron, Darren Roberts

15:30 – 16:00 Nerve Agents - Blister Agents: different challenges need different approaches
Horst Thiermann, Bundeswehr Institute of Pharmacology and Toxicology, Munich, Germany

16:00 – 16:30 Risk to and protection of hospital personnel during decontamination/treatment in the hospital
Marianne Leenders, National Poisons Information Center/ University Medical Center Utrecht, The Netherlands

16:30 – 17:00 Medical treatment through a barrier – challenges when protection is needed
Fridtjof Heyerdahl, Oslo University Hospital, Norway

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

► Recognise these agents as extremely toxic compounds requiring immediate protection of personnel and facilities as well as rapid decontamination of victims, and that therapy of nerve agent poisoning is aimed at antagonizing acute life-threatening effects whereas therapy of blistering agents is aimed at amelioration of pathophysiological damage to facilitate wound healing.

► Recognize the risks presented to hospital personnel when treating possibly contaminated patients and know how to protect them.

► Describe different scenarios where protective equipment is needed, and challenges with developing new protective equipment.
Platinium Room (morning)

Louis Roche lecture followed by Guidelines and Systematic Reviews Symposium (plenary session)

Session chair: Bruno Mégarbane, Rob Palmer

08:55 – 09:15 Welcome and opening
Introduction and presentation of the Louis Roche Lecturer
Bruno Mégarbane, President EAPCCT

09:15 – 10:00 Never ending series of surprises by 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)
Daniela Pelclova, General University Hospital, Charles University, Prague, Czech Republic

10:00 – 10:20 Is there a method to our madness? Methodology for systematic reviews in clinical toxicology
Sophie Gosselin, Centre antipoison du Québec, Hôpital Charles Lemoyne, Montréal, Canada

10:20 – 10:40 Shedding light on activated charcoal: Presentation by AC guideline development group
Robert Hoffman, NYU School of Medicine, New York, USA and Lotte Hoegberg, The Danish Poisons Information Centre, Bispebjerg University Hospital, Copenhagen, Denmark

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

► Analyse the different challenges encountered when collecting evidence to produce practice recommendations
► Understand the methods and status of the collaborative guideline on the use of activated charcoal in poisoned patients

10:40 – 11:20 Coffee and Authors with Posters
Session chair: Sophie Gosselin, Lotte Hoegberg

11:20 – 11:40  To make a long story short:
Presentation by QT guideline development group
Darren Roberts, NSW Poisons Information Centre, Sydney, Australia
Rittirak Othong, Faculty of Medicine Vajira Hospital, Navamindradhiraj University, Bangkok, Thailand

11:40 – 12:30  Pro-Con Debate:
Predicting Torsade - QT nomogram or fancy formulae?
PRO: The nomogram is the only way
CON: No nomogram, use the formulae
Ingrid Berling, Hunter New England Local Health District, Newcastle, Australia
Robert Hoffman, NYU School of Medicine, New York, USA

At the end of this session the audience should be able to:
► Discuss challenges in conducting the QT systematic review by a group of multinational members and current updates and outline methods for maximising the clinical relevance of guidelines
► Understand the usefulness and limitations of the QT nomogram
► Describe the multiple methods for correcting the QT interval and their relative performance at predicting acute cardiovascular events in poisoned patients

12:30 – 13:30  Lunch

13:30 – 14:00  Authors with Posters and Poster Round
(poster numbers 25, 42, 46, 63, 84)

Platinium Room (afternoon)
Poison Centre Data Collection Symposium

Session chair: Alexander Campbell, Hugo Kupferschmidt

14:00 – 14:20  European Poisons Centres data collection to support curative and preventative measures against poisoning - Introduction
Herbert Desel, German Federal Institute for Risk Assessment, Berlin, Germany

14:20 – 14:40  Benefits of harmonisation of product notification to Poisons Centers
Ronald de Groot, Dutch National Poisons Information Center, Utrecht, The Netherlands
14:40 – 15:00 The importance of poison centre information for international activities in assessing risks to public health

Raquel Duarte Davidson, Public Health England, Newbury, UK

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

- Describe the advantages and problems of harmonised poisons centres case data collection in Europe
- Describe the benefits of harmonisation of product notification to Poisons Centers in the context of future case data collection
- Understand the importance of poison centre information for international initiatives on the notification of risks to public health and how this data can be used to underpin changes to legislation

15:00 – 15:45 Coffee and Authors with Posters

Session chair: Pieter Brekelmans, Martin Wilks

15:45 – 16:00 Results from the EU LiquiCaps study: a comparison between cases exposed to liquid laundry detergent and automatic dishwashing capsules (abstract no. 1)

Laura Settimi 1, Felice Giordano 2, Luciana Cossa 1, Laura Lauria 1, Ehi Idahosa-Taylor 3, Stacey Wyke 3, Charlotte Hague 3, Rob Orford 3, Esther Feistkorn 4, Nina Glaser 4, Irma De Vries 5, Anja Wijnands-Kleukers 5, Franca Davanzo 6, Anna Celentano 6, Fabrizio Sesana 6, Sergey Zakharov 7, Karolina Mrazova 7, Patricia Casey 8, Edel Duggan 8, Fearsal O’Connor 8, Silvia Plackova 9, Blažena Cagáňova 9, Fátima Rato 10, Rafael Wagner 11, Elke Färber 11, Raquel Duarte-Davidson 3, Herbert Desel 4

1 Italian National Institute of Health, Rome, Italy; 2 La Sapienza University, Rome, Italy; 3 Public Health England, Chemicals and Poisons Department, Centre for Radiation, Chemical and Environmental Hazards, Chilton, United Kingdom; 4 Federal Institute for Risk Assessment, Berlin, Germany; 5 Poison Control Centre, Utrecht, Netherlands; 6 Poison Control Centre, Milan, Italy; 7 Toxicological Information Centre, Prague, Czech Republic; 8 Poison Control Centre, Dublin, Ireland; 9 Poison Control Centre, Bratislava, Slovak Republic; 10 Poison Control Centre, Lisbon, Portugal; 11 Poison Control Centre, Göttingen, Germany

16:00 – 16:20 Use of Poison Center data for Public Health Surveillance

Jay Schauben, Florida Poison Information Center, Jacksonville, USA
Main Congress Wednesday 23

16:20 – 16:40 European poison centre data collection: where are we now and where do we want to go?  
Hugo Kupferschmidt, Tox Info Suisse, Zurich, Switzerland

16:40 – 17:00 Round Table Discussion

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

► Describe the methodology and list the mechanisms for use of poison center data in providing public health surveillance and mitigation of public health threats in the United States

► Understand how we can get to an European Poisoning Data System, what the scenarios, stakeholders, and requirements are, and what problems could be expected, and how it could be financed

Arizona & Colorado Room (afternoon)  
Oral Platform & Short Oral Presentations

Session chair: Shaun Greene, Kenneth McMartin

14:00 – 14:05 Favorable acute toxicity profile of noscapine in children (abstract no. 2)  
Colette Degrandi 1, Jutta Trompelt 2, Andreas Vagt 3, Carola Seidel 4, Dagmar Prasa 5, Claudia Zatloukal 6, Cornelia Reichert 1  
1 National Poisons Centre, Tox Info Suisse, Zürich, Switzerland; 2 Poisons Information Centre, Mainz, Germany; 3 Poisons Information Centre, Berlin, Germany; 4 Poisons Information Centre, Bonn, Germany; 5 Poisons Information Centre, Erfurt, Germany; 6 Poisons Information Centre, Vienna, Austria

14:05 – 14:10 Toxicovigilance through social media: quantifying abuse-indicating information in Twitter data (abstract no. 3)  
Abeed Sarker 1, Graciela Gonzalez 1, Francis J DeRoos 1, Lewis S Nelson 2, Jeanmarie Perrone 3  
1 Biostatistics, Epidemiology and Informatics, University of Pennsylvania, Philadelphia, United States; 2 Emergency Medicine, Rutgers New Jersey Medical School, Newark, United States; 3 Emergency Medicine, University of Pennsylvania, Philadelphia, United States
14:10 – 14:15 Severe to lethal methanol poisoning after commercially available denatured ethanol “pink alcohol” abuse (abstract no. 4)

Davide Lonati 1, Sarah Vecchio 1, Mara Garbi 1, Virgilio Costanzo 2, Rosa Draisci 3, Maristella Rubbiani 3, Marta Crevani 1, Teresa Coccini 1, Carlo A Locatelli 1.

1 Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Maugeri Clinical and Scientific Institutes IRCCS and University of Pavia, Pavia, Italy; 2 Ministry of Health, National Health System, Rome, Italy; 3 National Centre for Chemicals, Istituto Superiore di Sanità, Rome, Italy

14:15 – 14:30 Morbidity and follow-up after acute poisoning by substances of abuse (abstract no. 5)

Odd Martin Vallersnes 1, Dag Jacobsen 2, Øivind Ekeberg 3, Mette Brekke 1

1 Department of General Practice, University of Oslo, Oslo, Norway; 2 Department of Acute Medicine, Oslo University Hospital, Oslo, Norway; 3 Division of Mental Health and Addiction, Oslo University Hospital, Oslo, Norway

14:30 – 14:35 Impact of the UK Psychoactive Substances Act 2016 on Emergency Department presentations related to synthetic cannabinoid receptor agonists (SCRAs), cathinones and other new psychoactive substances (abstract no. 6)

Nicholas E Webb 1, David M Wood 2, John RH Archer 2, Alison Dines 1, Paul I Dargan 2

1 Clinical Toxicology, Guy’s and St Thomas’ NHS Foundation Trust, London, United Kingdom; 2 Clinical Toxicology, Guy’s and St Thomas’ NHS Foundation Trust; Faculty of Life Sciences and Medicine, King’s College London, London, United Kingdom

14:35 – 14:40 Investigation of the pharmacodynamic interaction involved in the respiratory depression attributed to diazepam/buprenorphine combination (abstract no. 7)

Dominique Vodovar 1, Lucie Chevillard 1, Géraldine Pottier 2, Sylvain Auvity 2, Fabien Caillé 2, Irène Buvat 2, Nicolas Tournier 2, Bruno Mégarbane 1

1 Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS1144, Paris, France; 2 Molecular Imaging In Vivo, CEA, Paris-Saclay University, Orsay, France

14:40 – 14:45 Investigation of baclofen-induced neurorespiratory toxicity: characterization of tolerance development and withdrawal syndrome (abstract no. 8)

Magali Chartier, Lucie Chevillard, Salma Tannous, Isabelle Malissin, Laurence Labat, Nadia Benturquia, Patricia Risède, Bruno Mégarbane

Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS1144, Paris, France
14:45 – 14:50  The development of analytical techniques for the cardiac glycosides in yellow oleander (Cascabela thevetia) (abstract no. 9)
Eaman Cheema ¹, Christopher Walker ¹, Andrew Kicman ¹, Fahim Mohammed ², Indika B Gawarammana ², Paul I Dargan ³
¹ Faculty of Life Sciences and Medicine, King’s College London, London, United Kingdom; ² South Asia Clinical Toxicology Research Collaboration, University of Peradeniya, Kandy, Sri Lanka; ³ Clinical Toxicology, Guy’s and St Thomas’ NHS Foundation Trust; Faculty of Life Sciences and Medicine, King’s College London, London, United Kingdom

14:50 – 14:55  Early prognostic factors in colchicine intoxication (abstract no. 11)
Giorgio Perucco ¹, Valeria M Petrolini ¹, Marta Crevani ¹, Davide Lonati ¹, Sarah Vecchio ¹, Alberto Malovini ², Giulia Scaravaggi ¹, Carlo A Locatelli ¹
¹ Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Maugeri Clinical and Scientific Institutes IRCCS and University of Pavia, Pavia, Italy; ² Laboratory of Informatics and Systems Engineering for Clinical Research, Maugeri Clinical and Scientific Institutes IRCCS, Pavia, Italy

14:55 – 15:00  Illegal drug use in prison: results of urinary drug screening in patients hospitalized in a French Inter-Regional Secure Hospital Unit (UHSI) (abstract no. 12)
Jeremie Alby ¹, Régis Bédry ¹, Mareme Kandji ², Estelle Sudre ², Nahid Sarram-Nadjimi ², Pierre Brun ², Karine Titier ³, Sophie Gromb-Monnoyeur ²
¹ Medico-Legal Department, Bordeaux University Hospital, Bordeaux, France; ² Bordeaux University Hospital, Bordeaux, France; ³ Toxicology Laboratory, Bordeaux University Hospital, Bordeaux, France

15:00 – 15:45  Coffee and Authors with Posters
Arizona & Colorado Room (afternoon)
Oral Platform Presentations

Session chair: Allister Vale, Ian Whyte

15:45 – 16:00  Correlation between cardiac symptomatology, troponin and echocardiogram in carbon monoxide poisoning: preliminary data in a prospective study (abstract no. 13)
   **Davide Lonati**, Marta Crevani, Azzurra Schicchi, Valeria M Petrolini, Francesca Chiara, Mara Garbi, Carlo A Locatelli
   Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Maugeri Clinical and Scientific Institutes IRCCS and University of Pavia, Pavia, Italy

16:00 – 16:15  What is the best antidote to reverse tramadol-induced neuro-respiratory toxicity in overdose? An experimental investigation in the rat (abstract no. 14)
   Camille Lagard, Isabelle Malissin, Wassila Indja, Patricia Risède, Lucie Chevillard, **Bruno Mégarbane**
   Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS1144, Paris, France

16:15 – 16:30  § Effects of lipid emulsion on the pharmacokinetic and pharmacodynamic properties of metoprolol: a randomized, double-blind, placebo-controlled cross-over study (abstract no. 15)
   **Kasper M Petersen** ¹, Soeren Boegevig ¹, Tonny S Petersen ¹, Thomas B Jensen ¹, Trine Henriksen ², Henrik E Poulsen ², Kim P Dalhoff ¹, Mikkel B Christensen ¹
   ¹Department of Clinical Pharmacology, Bispebjerg and Frederiksberg University Hospital, Copenhagen, Denmark; ²Laboratory of Clinical Pharmacology, Copenhagen University Hospital Rigshospitalet, Copenhagen, Denmark

16:30 – 16:45  Intentional acute valproate overdose: the role of gastroscopy for decontamination of the gastrointestinal tract (abstract no. 16)
   Elena Taratynova, Sarah Vecchio, Davide Lonati, Azzurra Schicchi, Valeria M Petrolini, Marta Crevani, **Carlo A Locatelli**
   Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Maugeri Clinical and Scientific Institutes IRCCS and University of Pavia, Pavia, Italy

§ Shortlisted for Taylor & Francis best scientific presentation award
16:45 – 17:00 § Drug-specific risk of severe QT prolongation following acute drug overdose (abstract no. 17)
Sharan Campleman 1, Jeff Brent 2, Paul Wax 3, Alex Manini 4
1 American College of Medical Toxicology, New York, United States; 2 Medicine, University of Colorado, School of Medicine, Aurora, United States; 3 Emergency Medicine, UT Southwestern Medical Center, Dallas, United States; 4 Medical Toxicology, Icahn School of Medicine at Mount Sinai, New York, United States

§ Shortlisted for Taylor & Francis best scientific presentation award
Platinium Room (morning)
Plenary lecture followed by New Psychoactive Substances Symposium

Session chair: Paul Dargan, Irma de Vries

09:00 – 09:45 How clinical toxicologists and poisons centres contribute to addressing NPS in Europe
Alexis Goosdeel, European Monitoring Centre for Drugs and Drug Addiction (EMCDDA), Lisbon, Portugal

At the end of this lecture the audience should be able to:
▶ Understand the European Early Warning System and how Clinical Toxicologists and Poisons Centres can contribute to addressing NPS in Europe

09:50 – 10:05 § Psychoactive synthetic cathinones elicit mitochondrial myotoxicity by different mechanisms (abstract no. 103)
Xun Zhou, Franziska Paech, Dino Luethi, Matthias E Liechti, Stephan Krähenbühl
Clinical Pharmacology & Toxicology, Department of Biomedicine, University Hospital Basel and University of Basel, Basel, Switzerland

10:05 – 10:10 The dissociative new psychoactive substances diphenidine and methoxphenidine interact with monoaminergic transporters and receptors (abstract no. 104)
Dino Luethi 1, Marius C Hoener 2, Matthias E Liechti 1
1 Clinical Pharmacology & Toxicology, Department of Biomedicine, University Hospital Basel and University of Basel, Basel, Switzerland;
2 Roche Innovation Center Basel, F. Hoffmann-La Roche Ltd, Basel, Switzerland

§ Shortlisted for Taylor & Francis best scientific presentation award
10:10 – 10:25

§ Changes with time in analytically confirmed exposure to novel psychoactive substances (NPS) in patients with severe clinical toxicity in the UK (abstract no. 105)

Simon HL Thomas 1, Michael D Dunn 1, Simon L Hill 2, Simon Tucker 3, David M Wood 4, Paul I Dargan 4, Johann Grundlingh 5, Heather Jarman 6, Liza Keating 7, Himanshu Kataria 8, Michael Eddleston 9, Jane Officer 10, Jamie Cooper 11, Janos Baombe 12, Jonathan Thornley 13, Richard Parris 14

1 Heath Protection Research Unit for Chemical and Radiation Threats and Hazards, Newcastle University, Newcastle, United Kingdom; 2 Clinical Toxicology Service, Newcastle Hospitals NHS Foundation Trust, Newcastle, United Kingdom; 3 Emergency Department, Blackpool Teaching Hospitals NHS Foundation Trust, Blackpool, United Kingdom; 4 Clinical Toxicology, Guy’s and St Thomas’ NHS Foundation Trust and King’s Health Partners, Faculty of Life Sciences and Medicine, King’s College, London, United Kingdom; 5 Emergency Department, Royal London Hospital, London, United Kingdom; 6 Emergency Department, St George’s University Hospitals NHS Foundation Trust, London, United Kingdom; 7 Emergency Department, Royal Berkshire NHS Foundation Trust, Reading, United Kingdom; 8 Emergency Department, St Helens and Knowsley Teaching Hospitals NHS Foundation Trust, Whiston, United Kingdom; 9 Royal Infirmary of Edinburgh, Edinburgh, United Kingdom; 10 Scottish Police Authority Forensic Services, Edinburgh, United Kingdom; 11 Aberdeen Royal Infirmary, Aberdeen, United Kingdom; 12 Central Manchester University Hospitals NHS Foundation Trust, Manchester, United Kingdom; 13 Leeds Teaching Hospitals NHS Foundation Trust, Leeds, United Kingdom; 14 Bolton NHS Foundation Trust, Bolton, United Kingdom

10:25 – 10:30

Under-estimation of new psychoactive substance use in patients presenting with acute recreational drug toxicity to the emergency department (abstract no. 106)

Rachelle Abouchedid 1, David M Wood 2, Michelle Wood 3, Simon Hudson 4, Christophe Stove 5, Alison Dines 6, John RH Archer 2, Paul I Dargan 2

1 Austin Health, Melbourne, Australia; 2 Clinical Toxicology, Guy’s and St Thomas’ NHS Foundation Trust; Faculty of Life Sciences and Medicine, King’s College London, London, United Kingdom; 3 Waters Ltd, Manchester, United Kingdom; 4 Laboratory and Managed Services, LGC Ltd, Fordham, United Kingdom; 5 University of Ghent, Ghent, Belgium; 6 Clinical Toxicology, Guy’s and St Thomas’ NHS Foundation Trust, London, United Kingdom

10:30 – 11:10

Coffee and authors with posters

§ Shortlisted for Taylor & Francis best scientific presentation award
Session chair: Matthias Liechti, Chris Yates

11:10 – 11:25  Four-year surveillance trends of new psychoactive substances in London, UK using pooled urine analysis (abstract no. 107)
John RH Archer ¹, Paul I Dargan ¹, Simon Hudson ², Nicholas E Webb ¹, Elizabeth Biswell ¹, David M Wood ¹
¹Clinical Toxicology, Guy’s and St Thomas’ NHS Foundation Trust, London, United Kingdom; ² Laboratory and Managed Services, LGC Ltd, Fordham, United Kingdom

11:25 – 11:30  An increasing number of cases involving designer benzodiazepine exposures reported to the Dutch Poisons Information Center (abstract no. 108)
Antoinette JHP Van Riel, Annette JJ Nugteren-Van Lonkhuyzen, Irma S Van Den Hengel-Koot, Irma De Vries
Dutch Poisons Information Center, University Medical Center Utrecht, Utrecht, Netherlands

11:30 – 11:45  Clinical characteristics of new designer benzodiazepines: intoxication cases from the Swedish STRIDA project (abstract no. 109)
Matilda Bäckberg ¹, Madeleine Pettersson Bergstrand ², Lisa Franzén ³, Olof Beck ², Anders Helander ²
¹ Unit for Drug Prevention, The Public Health Agency of Sweden, Stockholm, Sweden; ² Karolinska Institutet and Karolinska University Laboratory, Stockholm, Sweden; ³ Swedish Poisons Information Centre, Stockholm, Sweden

11:45 – 11:50  Synthetic cannabinoid receptor agonist (SCRA) availability on darknet drug markets: changes during 2016-2017 (abstract no. 110)
Andrew Scourfield ¹, Catherine Flick ², Jack Ross ¹, Natalie Thurtle ³, Darryl Stellmach ⁴, John RH Archer ⁵, David M Wood ⁵, Paul I Dargan ⁵
¹ Clinical Toxicology, Guy’s and St Thomas’ NHS Foundation Trust, London, United Kingdom; ² Centre for Computing and Social Responsibility, De Montfort University, Leicester, United Kingdom; ³ Department of Clinical Toxicology, Prince of Wales Hospital; Médecins Sans Frontières-Holland, Sydney, Australia; ⁴ The Charles Perkins Centre, The Marie Bashir Institute for Infectious Diseases and Biosecurity, and the School of Life and Environmental Sciences, The University of Sydney; Médecins Sans Frontières-UK, Sydney, Australia; ⁵ Clinical Toxicology, Guy’s and St Thomas’ NHS Foundation Trust; Faculty of Life Sciences and Medicine, King’s College London, London, United Kingdom
11:50 – 12:05  5F-MDMB-PINACA on the streets: case series of 17 poisonings (abstract no. 111)
Csaba Pap, Department of Emergency Medicine and Clinical Toxicology, Péterfy Hospital, Budapest, Hungary

12:05 – 12:20  Acute synthetic cannabinoid receptor agonist (SCRA) toxicity: a case series of 442 patients presenting to a regional poisons treatment centre (abstract no. 112)
Konstantin M Brusin¹, Yulia V Kraeva², Maria A Gofenburg², David M Wood³, Paul I Dargan³
¹ Kaplan Medical Centre, Rehovot, Israel; ² Regional Poisoning Treatment Centre, Sverdlovsk Regional Psychiatric Hospital, Yekaterinburg, Russian Federation; ³ Clinical Toxicology, Guy’s and St Thomas’ NHS Foundation Trust; Faculty of Life Sciences and Medicine, King’s College London, London, United Kingdom

12:20 – 12:30  General Discussion

12:30 – 13:30  Lunch

13:30 – 14:00  Authors with Posters & Poster Round (poster numbers 126, 131, 135, 156, 188)

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**Arizona & Colorado Room (morning)**

**Novel Oral Anticoagulants Mini-Symposium**

**Session chair: Betty Chan, Sally Bradberry**

09:50 – 10:10  Patterns of toxicity associated with NOACs
Carlo Locatelli, ICS Maugeri Pavia, Italy

10:10 – 10:30  Management of NOAC toxicity and new antidotes
Rama Rao, Weill Cornell Medical College, New York, USA

At the end of this session the audience should be able to:
- Describe the toxic mechanisms and effects of NOACs
- Discuss how to limit or reverse life-threatening hemorrhage in patients taking novel oral anticoagulants therapeutically or in overdose

10:30 – 11:10  Coffee and Authors with Posters
APAMT Symposium on Occupational Toxicology

Session chair: Wui Ling Chan, Rittirak Othong

11:10 – 11:30 Patients with chemical exposure presenting to Bangkok Hospital in an industrial area in Thailand
Thanjira Jiranantakan, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

11:30 – 11:50 Occupational Lead Poisoning as a Lesson to be Learnt from Thailand
Satariya Trakulsrichai, Ramathibodi Hospital, Bangkok, Thailand

11:50 – 12:10 How should we handle tetramethylammonium hydroxide (TMAH) exposure more appropriately?
Jou-Fang Deng, Taipei Veterans General Hospital, Taiwan

12:10 – 12:30 Experience in diagnosis and treatment of patients exposed to dimethyl sulfate
Xuetao Zhang, Shanghai Institute of Occupational Disease for Chemical Industry, China

At the end of this session the audience should be able to:
► Describe circumstances, responses, management, final outcomes and recommendations of chemically-exposed patients, especially in the context of occupational exposure in Thailand
► Describe occupational lead exposure in Thailand including clinical aspects and management of cottage-industry workers with high blood lead concentrations
► Appreciate that on-site decontamination with appropriate antidote administration are critical following exposure to tetramethylammonium hydroxide (TMAH)
► Describe the clinical manifestations and management of patients with acute dimethyl sulfate poisoning

12:30 – 13:30 Lunch

13:30 – 14:00 Authors with Posters and Poster Round (poster numbers 126, 131, 135, 156, 188)
Platinium Room (afternoon)
Drug-Induced Organ Failure Symposium

Session chair: Andrew Dawson, Sergey Zakharov

14:00 – 14:20 Are Berlin ARDS definition and risk factors helpful to classify and manage drug-induced respiratory failure?
Dylan de Lange, University Medical Center, Utrecht, The Netherlands

14:20 – 14:40 Is there a place for non-invasive mechanical ventilation and high-flow nasal canula to treat drug-induced respiratory failure?
Raido Paasma, Foundation Pärnu Hospital, Estonia

14:40 – 15:00 Drug-induced liver failure: new options in extracorporeal liver support techniques and liver transplantation
Julia Wendon, Kings College Hospital Foundation Trust, London, UK

At the end of this session the audience should be able to:
► Identify different levels of severity of pulmonary injury and its potential treatment options
► Describe when it is possible to use non-invasive mechanical ventilation or high-flow nasal canula to treat drug-induced respiratory failure
► Understand the differences between acute and acute-on-chronic liver failure, the evidence for extracorporeal liver support and how to identify patients who will benefit from transplantation

15:00 – 15:40 Coffee and Authors with Posters

Session chair: John Archer, Mark Kostic

15:40 – 15:45 Back from irreversibility after drug-induced cardiovascular toxicity treated with massive catecholamine doses (abstract no. 113)
Amandine Bouchet, Sébastien Voicu, Isabelle Malissin, Nicolas Péron, Nicolas Deye, Bruno Mégarbane
Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS1144, Paris, France

15:45 – 16:05 The role of classic and more recent vasopressors and inotropic drugs in the treatment of drug-related cardiovascular failure
Florian Eyer, Klinikum rechts der Isar - Technical University of Munich, Germany
16:05 – 16:25  Drug-induced acute renal failure: which international classification should we use?  
**Dominique Vodovar**, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS1144, Paris, France

16:25 – 16:45  Brain Death and the Toxicology Patient  
**Laura Tormoehlen**, Indiana University and Indiana University Health Physicians, Indianapolis, USA

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

- Describe different types of toxin-induced cardiovascular failure, list different inotropes and vasopressors and understand why these agents should be tailored to the underlying pathophysiology of shock
- Understand how to use the various international classifications to describe drug-induced renal failure and report its mechanisms and prognosis
- Describe the challenges and potential pitfalls of declaring brain death in the toxicology patient

17:15 – 18:30  EAPCCT General Assembly

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**Arizona & Colorado Room (afternoon)**  
**Oral Platform Presentations: Paracetamol Poisoning**

**Session chair: Rick Dart, Karen Simone**

14:00 – 14:15  § Clinical effectiveness of a shorter 12 hour acetylcysteine (SNAP) protocol in routine clinical practice (abstract no. 114)  
**Ruben HK Thanacoody** ¹, Muhammad Emo Elamin ², Nicholas E Webb ³, Luke De La Rue ³, Kerry Layne ³, Simon L Hill ¹, John RH Archer ³, David M Wood ³, Paul I Dargan ³, Simon HL Thomas ¹

¹ Newcastle University, Newcastle upon Tyne, United Kingdom; ² Newcastle Hospitals NHS Foundation Trust, Newcastle upon Tyne, United Kingdom; ³ Guy's & St Thomas NHS Foundation Trust, London, United Kingdom

§ Shortlisted for Taylor & Francis best scientific presentation award
14:15 – 14:30  A nationwide Danish study of the impact of a new 2-bag N-acetylcysteine dosing regimen on paracetamol overdose morbidity and mortality (abstract no. 115)

**Tonny S Petersen**, Soeren Boegevig, Mikkel B Christensen, Kasper M Petersen, Kim P Dalhoff
Department of Clinical Pharmacology, Bispebjerg Hospital, Copenhagen, Denmark

14:30 – 14:45  The predictive value of opioid co-ingestion for acetaminophen-induced hepatotoxicity (abstract no. 116)

**Stephanie Hernandez**, Mark Su, Rachel Shively, Zhanna Livshits, Denise Fernandez, Mai Takematsu, Nima Majlesi, Vincent Rizzo, Sage Wiener, Jason Chu, Howard Greller, Ruben Olmedo, Thomas Schiano, Alex Manini

1 Emergency Medicine, Icahn School of Medicine at Mount Sinai, New York, United States; 2 New York City Poison Control Center, New York, United States; 3 Northwell Health North Shore University Hospital, Nassau County, New York, United States; 4 Emergency Medicine, New York Presbyterian Weill Cornell Medical Center, New York, United States; 5 Emergency Medicine, Jacobi Medical Center, Bronx, New York, United States; 6 Emergency Medicine, Montefiore Medical Center, Bronx, New York, United States; 7 Emergency Medicine, Northwell Health Staten Island University Hospital, Staten Island, New York, United States; 8 Internal Medicine, Queen Hospital Center, Queens, New York, United States; 9 Emergency Medicine, Kings County Hospital, Brooklyn, New York, United States; 10 Emergency Medicine, Mount Sinai St. Luke’s Hospital, New York, United States; 11 Emergency Medicine, St. Barnabas Hospital, Bronx, New York, United States; 12 Internal Medicine, Icahn School of Medicine at Mount Sinai, New York, United States

14:45 – 15:00  Acetaminophen repeated supratherapeutic-dose toxicity among children under five years old: efficacy of N-acetylcysteine in Monrovia, Liberia (abstract no. 117)

1 Epicentre, Université Paris Descartes, Paris, France; 2 Médecins Sans Frontières, Paris, France; 3 University of Birmingham, Birmingham, United Kingdom; 4 Ministry of Health and Social Welfare, Monrovia, Liberia; 5 Epicentre, Paris, France; 6 Médecins Sans Frontières, Université Paris Descartes, Paris, France

15:00 – 15:40  Coffee and Authors with Posters
Oral Platform and Short Oral Presentations

Session chair: Robin Ferner, Daniela Pelclova

15:40 – 15:55  
**Fishkeeping: a high risk sports activity? The underestimated threat of zoanthids** (abstract no. 118)  
**Martin Ebbecke** ¹, Jakob Strube ², Nadja Struß ², Andreas Schaper ²  
¹ GIZ-Nord Poisons Centre, University Medical Center, Göttingen, Germany; ² University Medical Center, Göttingen, Germany

15:55 – 16:00  
**Hyperbaric oxygen effectively reduces harmful effects of carbon monoxide in mixed but not in neuronal cell cultures** (abstract no. 119)  
**Manja Mlakar** ¹, Klara Bulc Rozman ², **Miran Brvar** ³, Damijana M Juric ¹  
¹ Institute of Pharmacology and Experimental Toxicology, Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia; ² Institute of Pathophysiology, Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia; ³ Centre for Clinical Toxicology and Pharmacology, University Medical Centre Ljubljana, Ljubljana, Slovenia

16:00 – 16:05  
**Investigation of paracetamol metabolites to compare acetylcysteine regimens in paracetamol overdose** (abstract no. 120)  
**Anselm Wong** ¹, Natalie Homer ², James W Dear ³, Kay Weng Choy ⁴, James Doery ⁴, Andis Graudins ⁵  
¹ Monash and Austin Toxicology Units, Monash and Austin Health and Department of Medicine, School of Clinical Sciences, Monash University, Victoria, Australia; ² Edinburgh Clinical Research Facility, Queen’s Medical Research Institute, Edinburgh, United Kingdom; ³ Pharmacology, Toxicology and Therapeutics, University/BHF Centre for Cardiovascular Sciences, University of Edinburgh, Edinburgh, United Kingdom; ⁴ Monash Pathology, Monash Health, Victoria, Australia; ⁵ Monash Toxicology Unit and Emergency, Monash Health and Department of Medicine, School of Clinical Sciences, Monash University, Victoria, Australia

16:05 – 16:10  
**Blood lactate prognostic implications in acetaminophen supratherapeutic-dose toxicity among low weight children** (abstract no. 121)  
**Mohamad K Haidar** ¹, Guillemette Thomas ², Nikola Morton ², Stephanie Mayronne ², Robin E Ferner ³, Luke Bawo ⁴, Klaudia Porten ⁵, Frederic J Baud ⁶  
¹ Epicentre, Université Paris Descartes, Paris, France; ² Médecins Sans Frontières, Paris, France; ³ University of Birmingham, Birmingham, United Kingdom; ⁴ Ministry of Health and Social Welfare, Monrovia, Liberia; ⁵ Epicentre, Paris, France; ⁶ Médecins Sans Frontières, Université Paris Descartes, Paris, France
16:10 – 16:15  The role of oxidative stress in acute methanol intoxication: oxidative lipid damage and subsequent neuroinflammation (abstract no. 122)
Jiri Hlusicka 1, Daniela Pelclova 2, Sergey Zakharov 2, Petr Kacer 3
1 Toxicological Information Centre, General University Hospital, Charles University, Prague, Czech Republic; 2 Charles University, Prague, Czech Republic; 3 Institute of Chemical Technology, Prague, Czech Republic

16:15 – 16:30  Chronic retinal neurodegeneration following acute methanol exposure: four-year prospective study in a cohort of 42 survivors of methanol poisoning (abstract no. 123)
Sergey Zakharov 1, Olga Nurieva 1, Katerina Kotikova 1, Jiri Hlusicka 1, Jan Rulisek 2, Pavel Diblik 3, Pavel Kuthan 3, Pavel Urban 4, Tomas Navratil 5, Daniela Pelclova 1
1 Department of Occupational Medicine, 1st Faculty of Medicine, Charles University and General University Hospital, Prague, Czech Republic; 2 Department of Anesthesia and Intensive Care, First Faculty of Medicine, Charles University and General University Hospital, Prague, Czech Republic; 3 Department of Ophthalmology, General University Hospital in Prague, Prague, Czech Republic; 4 Centre for Industrial Hygiene and Occupational Medicine, National Institute of Public Health, Prague, Czech Republic; 5 Department of Biomimetic Electrochemistry, J. Heyrovsky Institute of Physical Chemistry of CAS, v.v.i, Prague, Czech Republic

16:30 – 16:45  Attitudes towards research among adult acute toxicology admissions (abstract no. 124)
Ailsa AJ Campbell 1, James W Dear 1, Rachel O'Brien 2, Miranda Odam 2
1 University of Edinburgh, Edinburgh, United Kingdom; 2 Royal Infirmary of Edinburgh, Edinburgh, United Kingdom

17:15 – 18:30  EAPCCT General Assembly (Platinium Room)
**Platinium Room (morning)**  
**Young Investigator Award (YIA) (plenary session)**

**Session chair: Bob Hoffman, David Wood**

09:00 – 09:05  
Introduction

09:05 – 09:20  
Finger prick capillary microRNA-122 is a biomarker of paracetamol hepatotoxicity (abstract no. 204)  
Marco Cirronis 1, Emanuela Masini 1, Sarah Schneemann 2, Janice M Pettie 2, Michael Eddleston 2, James W Dear 2  
1 Department of Neuroscience, Psychiatry, Drug Area and Child Health (NEUROFARBA), Section of Pharmacology and Toxicology, University of Florence, Florence, Italy; 2 Pharmacology, Toxicology and Therapeutics, University/BHF Centre for Cardiovascular Science, Edinburgh University, Edinburgh, United Kingdom

09:20 – 09:35  
Acute kidney injury in Australian snake envenoming: common, multifactorial and somewhat avoidable (ASP-26) (abstract no. 205)  
Christopher Johnston 1, Nicholas Buckley 2, Simon Brown 3, Nicole M Ryan 1, Colin Page 4, Geoffrey K Isbister 1  
1 Clinical Toxicology Research Group, University of Newcastle, Newcastle, Australia; 2 Department of Pharmacology, University of Sydney, Sydney, Australia; 3 Harry Perkins Institute, Nedlands, Australia; 4 Department of Clinical Toxicology, Calvary Mater Newcastle, Newcastle, Australia

09:35 – 09:50  
Role of norepinephrine transporter gene variations in the cardiostimulant effects of 3,4-methylenedioxymethamphetamine (MDMA) (abstract no. 206)  
Patrick Vizeli 1, Henriette E Meyer Zu Schwabedissen 2, Matthias E Liechti 1  
1 Department of Clinical Pharmacology and Toxicology, University Hospital of Basel, Basel, Switzerland; 2 University of Basel, Basel, Switzerland
09:50 – 10:05  The potential utility of microRNA for comparing efficacy of acetylcysteine regimens in paracetamol overdose (abstract no. 207)

**Anselm Wong** ¹, Charlotte Nejad ², Michael P Gantier ², Kay Weng Choy ³, James Doery ³, Andis Graudins ⁴

¹ Monash and Austin Toxicology Unit, Monash and Austin Health and School of Clinical Sciences, Monash University, Victoria, Australia; ² Centre for Innate Immunity and Infectious Disease, Hudson Institute of Medical Research and Department of Molecular and Translational Science, Monash University, Victoria, Australia; ³ Monash Pathology, Monash Health, Victoria, Australia; ⁴ Monash Toxicology Unit and Emergency, Monash Health and Department of Medicine, School of Clinical Sciences, Monash University, Victoria, Australia

10:05  Judging commences

10:05 – 10:20  Epidemiology and evolution of clinical toxicology in Romania in the last 10 years

**Viorela Nitescu**, Childrens Hospital Grigore Alexandrescu, Bucharest, Romania

10:20 – 10:30  Presentation to the winner of the YIA

10:30 – 11:10  Coffee and Authors with Posters

**Platinium Room (morning)**

**Inter-individual Variability Symposium**

**Session chair: Raido Paasma, Simon Thomas**

11:10 – 11:30  Inter-individual variability in poisoning: How do I manage investigation at the bedside?

**Jules Desmeules**, Geneva University Hospitals, Switzerland

11:30 – 11:50  The blood-brain barrier as a variability factor in brain toxicology

**Xavier Declèves**, University Paris Descartes, France

11:50 – 12:10  Opioid-related fatalities: can we explain the individual risk from diversion and misuse?

**Bruno Mégarbane**, Paris-Diderot University, France
At the end of this session the audience should be able to:

- Explain all available tools to investigate the inter-individual variability of toxicity features and time-course in the poisoned patient
- Be aware of new insights into transporters for psychoactive compounds in the blood-brain barrier as variability factors in brain toxicity
- Explain the reasons for the major threat presented by opioid toxicity

12:10 – 12:25  § Relative risk of combining benzodiazepine with opioids based on National Poison Data System (NPDS) exposure outcome data (abstract no. 208)

Daniel A Spyker¹, Alvin C Bronstein²

¹ Emergency Medicine, Oregon Health & Science University, Portland, United States; ² Injury Prevention System Branch, Emergency Medical Services, Honolulu, United States

12:25 – 12:30  General Discussion

12:30 – 13:30  Lunch

13:30 – 14:00  Authors with Posters & Poster Round (poster numbers 214, 220, 234, 273, 279)

Arizona & Colorado Room (morning)
Best paper session

Session chair: Régis Bédry, Thomas Zilker

An international panel have each been asked to select a clinical toxicology paper published in 2017 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.

11:10 – 11:30  Validation of the Prognostic Utility of the Electrocardiogram for Acute Drug Overdose

Manini AF, Nair AP, Vedanthan R, Vlahov D, Hoffman RS.
J Am Heart Assoc. 2017 Feb 3;6(2): e004320

Betty Chan, Prince of Wales Hospital and Community Health Services, Sydney, Australia

§ Shortlisted for Taylor & Francis best scientific presentation award
11:30 – 11:50  A prospective study of ketamine as primary therapy for prehospital profound agitation.
Cole JB, Klein LR, Nostrum PC, Moore JC, Driver BE, Fryza BJ, Harrington J, Ho JD.
Rana Biary, New York University School of Medicine, USA

11:50 – 12:10  Supporting the EU response to environmental emergencies: European Multiple Environmental Threats Emergency Network
Hall L, Roelofs J, Schulpen S, et al.
Irma de Vries, Dutch Poisons Information Center, University Medical Center Utrecht, The Netherlands

12:10 – 12:30  Are vasopressors useful in toxin-induced cardiogenic shock?
Skoog CA, Engebretsen KM
Clin Toxicol (Phila) 2017; 55, 4: 285-304
Vincent Danel, Université Grenoble Alpes, France

12:30 – 13:30  Lunch

13:30 – 14:00  Authors with Posters and Poster Round
(posters numbers 214, 220, 234, 273, 279)

Platinium Room (afternoon)
Inter-individual Variability Symposium – continued

Session chair: Knut Erik Hovda, Charles McKay

14:00 – 14:20  Amphetamine and NPS-related toxicity: can pharmacogenomics alter presentation?
Matthias Liechti, University Hospital Basel, Switzerland

14:20 – 14:40  Susceptibility to acetaminophen-induced liver toxicity: the role of liver metabolism
James Dear, University of Edinburgh, UK

14:40 – 15:00  Hypersusceptibility to drugs: why some people are poisoned
Robin Ferner, University of Birmingham, UK
At the end of this session the audience should be able to:

- Assess which pharmacogenetic characteristics likely influence the clinical effects of amphetamine-type stimulants
- Explain the contribution of individual variation in liver toxicity after acetaminophen overdose
- Explain the wide variation in responses to drugs within and between individuals and some of the factors that influence susceptibility to harm from drugs

15:00 – 15:45  Coffee and Authors with Posters

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**Arizona & Colorado Room (afternoon)**

**Paediatric Toxicology Symposium**

**Session chair: Bill Banner, Ana Ferrer Dufol**

**14:00 – 14:20**  Unintentional poisonings due to chemicals in children. Spanish Toxicosurveillance Program  
**Lidia Martinez**, Hospital Sant Joan de Déu, Barcelona, Spain

**14:20 – 14:40**  The poison centre perspective on unintentional paediatric poisoning  
**Maren Hermanns-Clausen**, Faculty of Medicine, University of Freiburg, Germany

**14:40 – 15:00**  Binge drinking and chemical submission: impact on teenagers  
**Régis Bédry**, Bordeaux University Hospital, France

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

- Describe the main features of the unintentional poisonings due to chemicals in children and explain the importance of detecting risk factors and applying preventive measures
- Describe circumstances of severe acute unintentional poisoning and related risk factors among children and teenagers
- Describe factors which explain the behavior of teenagers in relation to binge drinking and which factors make an individual a potential victim to a potential aggressor

15:00 – 15:45  Coffee and Authors with Posters
Platinium Room (afternoon)
Oral Platform/Short Oral Presentations and Special Presentation

Session chair: Peter Hultén, Mark Zammit

15:45 – 16:00 § Serotonin toxicity: a regression analysis of frequency and outcomes (abstract no. 209)
Joyce M Cooper 1, Stephen B Duffull 2, Geoffrey K Isbister 3
1 Faculty of Health & Medicine, University of Newcastle, Callaghan, Australia; 2 Division of Health Sciences, University of Otago, Dunedin, New Zealand; 3 Department of Clinical Toxicology, Calvary Mater Newcastle, Newcastle, Australia

16:00 – 16:05 Large inter-batch variation in acute adverse reactions to Indian polyvalent antivenom (abstract no. 210)
Anjana Silva 1, Nuwan Premawardene 1, Anoma Bandaranayake 2, Sisira Siribaddana 1, Geoffrey K Isbister 3
1 Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka, Anuradhapura, Sri Lanka; 2 Internal Medicine Unit, Teaching Hospital Anuradhapura, Anuradhapura, Sri Lanka; 3 Clinical Toxicology Research Group, University of Newcastle, Newcastle, Australia

16:05 – 16:10 Pre-workout supplements: the new trend (abstract no. 211)
Chantal CJ Roelen 1, Antoinette JHP Van Riel 1, Bastiaan J Venhuis 2, Pauline M Verputten 1, Irma De Vries 1
1 Dutch Poisons Information Center, University Medical Center Utrecht, Utrecht University, Utrecht, Netherlands; 2 National Institute for Public Health and the Environment, Bilthoven, Netherlands

16:10 – 16:30 Preparation and Presentation of ePosters at Scientific Conferences
Ana Ferrer Dufol, Clinical University Hospital, Zaragoza, Spain

§ Shortlisted for Taylor & Francis best scientific presentation award
Arizona & Colorado Room (afternoon)
Paediatric Toxicology Symposium - continued

Session chair: Erica Liebelt, Timothy Wiegand

15:45 – 16:05  Safety Profile of Cough and Cold Medication Use in Pediatrics
               Jody Green, Inflexxion, Boston, USA

16:05 – 16:25  Desferrioxamine: Does it Really Work?
               Milton Tenenbein, University of Manitoba, Winnipeg, Canada

16:25 – 16:30  General Discussion

At the end of this lecture the audience should be able to:
▶ Discuss the rate of safety events and common adverse events associated with the use of cough and cold medications in children
▶ Discuss the efficacy of desferrioxamine in the management of iron overdose
DRUGS OF ABUSE

18
Clinical effects following 2C-B exposure: a case series of 20 patients
Johanna J Nugteren-Van Lonkhuyzen, Laura Hondebrink, Saskia J Rietjens, Benjamin W Hooi, Irma De Vries, Antoinette JHP Van Riel
Dutch Poisons Information Center, University Medical Center Utrecht, Utrecht University, Utrecht, Netherlands

19
Acute toxicity following analytically confirmed use of the novel psychoactive substance (NPS) methiopropamine: a report from the Identification Of Novel psychoActive substances (IONA) study
Joanna White 1, Paul I Dargan 2, David M Wood 2, Simon L Hill 3, Elizabeth Biswell 1, John RH Archer 2, Michael D Dunn 4, Simon HL Thomas 3
1 Clinical Toxicology, Guy’s and St Thomas’ NHS Foundation Trust, London, United Kingdom; 2 Clinical Toxicology, Guy’s and St Thomas’ NHS Foundation Trust; Faculty of Life Sciences and Medicine, King’s College London, London, United Kingdom; 3 Newcastle Hospitals NHS Foundation Trust; NIHR Health Protection Research Unit for Chemical Threats and Hazards, Newcastle University, Newcastle, United Kingdom; 4 NIHR Health Protection Research Unit for Chemical Threats and Hazards, Newcastle University, Newcastle, United Kingdom

& 20
An analytically confirmed non-fatal intoxication by the ultra-potent fentanyl analogue carfentanil in Sweden
Lisa Franzén 1, Olof Beck 2, Anders Helander 2
1 Swedish Poisons Information Centre, Stockholm, Sweden; 2 Department of Laboratory Medicine, Karolinska Institutet and Karolinska University Laboratory, Stockholm, Sweden

22
New psychoactive substance (NPS)-induced toxicity requiring intensive care unit admission: a case series
Noémie Haloua 1, Isabelle Malissin 1, Jean-Claude Alvarez 2, Laurence Labat 3, Bruno Mégarbane 1
1 Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS1144, Paris, France; 2 Toxicology Laboratory, Raymond Poincarré University Hospital, Garches, France; 3 Toxicology Laboratory, Lariboisière Hospital, Paris-Descartes University, Paris, France

& Shortlisted for Taylor & Francis best case study award
23
Analytical prevalence of drugs of misuse in homeless people presenting with severe toxicity after suspected use of novel psychoactive substances
Michael D Dunn 1, Simon L Hill 2, Jane Officer 3, Simon HL Thomas 1
1 Health Protection Research Unit for Chemical & Radiation Threats and Hazards, Newcastle University, Newcastle, United Kingdom; 2 Clinical Toxicology Service, Newcastle Hospitals NHS Foundation Trust, Newcastle, United Kingdom; 3 Scottish Police Authority Forensic Services, Edinburgh, United Kingdom

24
Novel psychoactive substances (NPS) and emergency rooms (ER): a complicated relationship?
Attilio Negri 1, Anna Celentano 2, Andrea Stella 2, Carla E Morganti 3, Marcello Ferruzzi 2, Laura MB Cazzaniga 3, Hayley M Vergani 4, Adriano Masarin 5, Andrea Bellone 6, Franca Davanzo 2
1 Postgraduate School of Clinical Pharmacology and Toxicology, University of Milan, Milan, Italy; 2 National Milan Poison Control Center, Niguarda Great Metropolitan Hospital, Milan, Italy; 3 Department of Mental Health, Niguarda Great Metropolitan Hospital, Milan, Italy; 4 Postgraduate School of Clinical Pharmacology and Toxicology, University of Genova, Genova, Italy; 5 Biochemical Laboratory, Toxicology Section, Niguarda Great Metropolitan Hospital, Milan, Italy; 6 Emergency Department, Niguarda Great Metropolitan Hospital, Milan, Italy

&* 25
4-Fluoromethylphenidate (4F-MPH) abuse: an analytically-confirmed case
Marcello Di Tuccio 1, Pietro Papa 1, Giampietro Frison 2, Flavio Zancanaro 2, Antonella Valli 1, Davide Lonati 3, Eleonora Buscaglia 3, Carlo A Locatelli 3
1 Laboratory of Analytical Toxicology, Fondazione IRCCS Policlinico San Matteo-Pavia, Pavia, Italy; 2 Laboratory of Environmental Hygiene and Forensic Toxicology, Department of Prevention, Azienda USL3 Mestre (Venezia), Mestre, Italy; 3 Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Maugeri Clinical and Scientific Institutes IRCCS and University of Pavia, Pavia, Italy

26
Diffuse ST elevation on electrocardiogram (ECG) consistent with pericarditis secondary to smoking “K2”
Muhammad Masood Khalid 1, Rayhan Tariq 2, Ahmed Mamdouh Taha Mostafa 3, Rita McKeever 3, Richard Hamilton 3
1 Emergency Department, Division of Medical Toxicology, Drexel University College of Medicine, Philadelphia, United States; 2 Anesthesia, Drexel University College of Medicine, Philadelphia, United States; 3 Emergency Medicine, Division of Medical Toxicology, Drexel University College of Medicine, Philadelphia, United States

& Shortlisted for Taylor & Francis best case study award
* Included in poster round 13:30 to 14:00 hrs
27  
**Acute intracerebral haemorrhage following the use of synthetic cannabinoids and cathinones**  
Artūras Barkus, Lina Radevičiūtė, Robertas Badaras, Gabija Laubner  
*Center of Toxicology, Vilnius University, Vilnius, Lithuania*

28  
**Acute cannabis presentations: clinical characteristics and the effect of ethanol co-ingestion**  
Juan Ortega Pérez ¹, Christopher Yates ², Catalina Homar Amengual ², Jordi Puiguriguер Ferrando²  
¹ Emergency Department, Hospital Universitari Son Espases, Palma de Mallorca, Spain; ² Emergency Department/Clinical Toxicology Unit, Hospital Universitari Son Espases, Palma de Mallorca, Spain

29  
**Acute dyskinetic syndrome in severe amphetamine poisoning**  
Margarita S Gesheva ¹, Miroslava T Petkova ¹, Andriana B Stoykova ¹, Julia V Radenkova-Saeva¹, Anelia M Lukova ¹, Plamen I Vanev ¹, Vasil N Atanassov ², Boryana A Mechkarska ²  
¹ Toxicology Clinic, UMHATEM “N.I.Pirogov”, Sofia, Bulgaria; ² Toxicochemical Laboratory, Military Medical Academy, Sofia, Bulgaria

30  
**Fatalities related to dextromethorphan abuse**  
Blazena Caganova, Silvia Plackova, Igor Batora  
*National Toxicological Information Centre, Department of Occupational Medicine and Toxicology, University Hospital Bratislava and Faculty of Medicine Comenius University, Bratislava, Slovak Republic*

31  
**Gabapentin and the potentiation of opioid effects: two cases**  
Timothy J Wiegand, Kenneth Conner  
*Emergency Medicine, University of Rochester School of Medicine & Dentistry, Rochester, United States*

32  
**Saturday night abscess: a brachial plexus abscess in an intravenous drug user**  
Jonathan De Olano ¹, Aaron Rothstein², Larissa Laskowski ¹, Mary Ann Howland ¹, Susi Vassallo ¹, Rana Biary ¹  
¹ Toxicology, NYU/Bellevue, New York City, United States; ² Neurology, NYU/Bellevue, New York City, United States
33 Analytically confirmed recreational use of oberacetam (Noopept®) in the UK
Heather Jarman 1, Philip Moss 1, Michael D Dunn 2, Simon L Hill 3, Simon HL Thomas 2
1 Emergency Department, St George’s University Hospitals NHS Foundation Trust, London, United Kingdom; 2 Health Protection Research Unit for Chemical & Radiation Threats and Hazards, Newcastle University, Newcastle, United Kingdom; 3 Clinical Toxicology Department, Newcastle Hospitals NHS Foundation Trust, Newcastle, United Kingdom

34 Clinical effects and analytical implications of the use of Sceletium tortuosum and cannabis: a case report
Anna Celentano 1, Marco Morina 2, Adriano Masarin 3, Attilio Negri 2, Cecilia Gechtman 3, Rossana Borghini 1, Fabrizio Sesana 1, Franca Davanzo 1
1 National Milan Poison Control Center, Niguarda Great Metropolitan Hospital, Milan, Italy; 2 Postgraduate School of Clinical Pharmacology and Toxicology, University of Milan, Milan, Italy; 3 Biochemical Laboratory, Toxicology Section, Niguarda Great Metropolitan Hospital, Milan, Italy

37 Cerebrovascular ultrasound changes in opium addicted and non-addicted ischemic stroke patients
Omid Mehrpour 1, Seyed Mohammad Mousavi Mirzaei 1, Abolfazl Talebi 1, Alireza Amirabadizadeh 1, Samaneh Nakhae 2
1 Medical Toxicology and Drug Abuse Research Center (MTDRC), Birjand University of Medical Sciences, Birjand, Iran; 2 Cardiovascular Diseases Research Center, Birjand University of Medical Sciences and Medical Toxicology and Drug Abuse Research Center (MTDRC), Birjand University of Medical Sciences, Birjand, Iran

38 Low Glasgow Coma Scale (GCS) due to gammahydroxybutyrate (GHB) intoxication is not an indication for intubation
Lidwien Van Helmond, Femke Gresnigt
Emergency Department, OLVG Hospital, Amsterdam, Netherlands

39 Illegal drug overdoses in Ljubljana, Slovenia
Tanja Varl, Damjan Grenc, Marija Jamsek, Mojca Dobaja, Miran Brvar
Centre for Clinical Toxicology and Pharmacology, University Medical Centre Ljubljana, Ljubljana, Slovenia

40 Hyperthermia in sympathomimetic/serotonergic substance of abuse poisoning: a case series
Erica Garbelli 1, Valeria M Petrolini 1, Teresa Coccini 1, Sarah Vecchio 1, Pietro Papa 2, Davide Lonati 1, Carlo A Locatelli 1
1 Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Maugeri Clinical and Scientific Institutes IRCCS and University of Pavia, Pavia, Italy; 2 Laboratory of Analytical Toxicology, Fondazione IRCCS Policlinico San Matteo-Pavia, Pavia, Italy
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Acute health problems due to recreational drug use in patients presenting to an urban emergency department in Switzerland
Irene Scholz¹, Sabine Müller², Aristomenis K Exadaktylos³, Evangelia Liakoni¹
¹ Clinical Pharmacology and Toxicology, Department of General Internal Medicine, Inselspital, Bern University Hospital, University of Bern, Bern, Switzerland; ² Department of Nephrology, Hypertension and Clinical Pharmacology, Inselspital, Bern University Hospital, University of Bern, Bern, Switzerland; ³ Emergency Department, Inselspital, Bern University Hospital, University of Bern, Bern, Switzerland

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One-year experience with the Paris supervised injection site: drugs used and safety analysis
Thomas Dusouchet¹, Elizabeth Avril¹, Patrick Plaisance², Bruno Mégarbane³
¹ Gaia, Paris, France; ² Department of Emergency Medicine, Lariboisière Hospital, Paris, France; ³ Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS1144, Paris, France

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Presentations to the Emergency Department with misuse of benzodiazepines and Z-drugs: profiling and relation to sales data
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¹ Emergency Department, University Hospital Ghent, Ghent, Belgium; ² Emergency Department and Clinical Toxicology Unit, Hospital Universitari Son Espases, Mallorca, Spain; ³ Clinical Toxicology, Guy’s and St Thomas’ Hospitals NHS Foundation Trust and King’s Health Partners, Faculty of Life Sciences and Medicine, King’s College London, London, United Kingdom; ⁴ Denver Health Rocky Mountain Poison & Drug Center, Denver, United States; ⁵ Clinical Toxicology, Guy’s and St Thomas’ Hospitals NHS Foundation Trust, London, United Kingdom; ⁶ Acute Medicine, The National CBRNe Centre of Medicine, Oslo University Hospital, Oslo, Norway; ⁷ European Monitoring Centre for Drugs and Drug Addiction, Lisbon, Portugal; ⁸ European Monitoring Centre for Drugs and Drug Addiction, London, United Kingdom

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Doctors’ awareness and perception of prescription medicine misuse in Singapore
Wui Ling Chan¹, David M Wood², Paul I Dargan²
¹ Emergency Department, Tan Tock Seng Hospital, Singapore; ² Clinical Toxicology, Guy’s and St Thomas’ NHS Foundation Trust; Faculty of Life Sciences and Medicine, King’s College London, London, United Kingdom

* Included in poster round 13:30 to 14:00 hrs
Intentional opioid exposures with benzodiazepine co-ingestants in the US and Europe as reported to the RADARS® System Global Toxicosurveillance Network
Laura J Fischer, Stevan G Severtson, Samantha J Leroy, Zachary R Margolin, Jody L Green, Bruno Mégarbane, Antoine Villa, Andreas Schaper, Martin Ebbecke, Fabrizio Sesana, Radars® System Poison Center Group

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*46 A nine year retrospective review of trends in oral anticoagulant enquiries to the UK National Poisons Information Service
Sian CD Harbon, John P Thompson, Sally M Bradberry, Euan A Sandilands, Simon HL Thomas, James M Coulson

Prevention of direct oral anticoagulant prescription errors using obligatory prerequisite review by clinical pharmacists
Ophir Lavon, Maram Salameh, Hani Makhoul, Tal Lavi, Leah Zack

Idarucizumab in a clinical toxicology setting: the Italian experience
Carlo A Locatelli, Azzurra Schicchi, Giulia Scaravaggi, Eleonora Buscaglia, Sarah Vecchio, Mara Garbi, Valeria M Petrolini

Reversible dabigatran-induced neutropenia after a single dose
Azzurra Schicchi, Valeria M Petrolini, Francesca Chiara, Gioacchino Cosenza, Sarah Vecchio, Carlo A Locatelli

* Included in poster round 13:30 to 14:00 hrs
50 Erroneous administration of the dabigatran antidote idarucizumab during surgery: case report and lessons learned
Ophir Lavon 1, Yamit Musai 2, Maayan Shainer 2, Sharon Alroy-Preis 2
1 Clinical Pharmacology and Toxicology Unit, Carmel Medical Center, Haifa, Israel; 2 Carmel Medical Center, Haifa, Israel

51 Apixaban and rivaroxaban ingestion in cats and dogs
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Veterinary Poisons Information Service (VPIS), London, United Kingdom

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52 Digitalis species (foxglove) ingestion in 47 domestic guinea pigs (Cavia porcellus)
Tiffany Blackett, Nicola Bates
Veterinary Poisons Information Service (VPIS), London, United Kingdom

53 Ferric phosphate molluscicide exposure in dogs: low risk of poisoning
Zoe Tizzard, Nicola Bates
Veterinary Poisons Information Service (VPIS), London, United Kingdom

54 Exposure to Ornithogalum plants: a cause of blindness in small animals?
Marieke A Dijkman 1, Sylvia Djajadiningrat-Laanen 2, Irma De Vries 1
1 Dutch Poisons Information Center, University Medical Center Utrecht, Utrecht, Netherlands; 2 Ophthalmology Section, Department of Clinical Sciences of Companion Animals, Faculty of Veterinary Medicine, Utrecht University, Utrecht, Netherlands

55 Non-accidental poisoning of domestic and wild animals in Ferrara Province, Italy
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1 Istituto Zooprofilattico Sperimentale della Lombardia e dell’Emilia Romagna, Brescia, Italy; 2 Pavia Poison Control Centre-National Toxicology Information Centre, Pavia, Italy; 3 Institute of Legal Medicine, Catholic University of Sacred Heart, Rome, Italy; 4 Clinica Veterinaria Europa, Ferrara, Italy; 5 International Committee of the Red Cross – ICRC, Geneva, Switzerland; 6 Emergency Department, University of Padova, Padova, Italy; 7 Department of Medical Science, University of Ferrara, Ferrara, Italy
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Successful management of acute kidney failure in a dog following calcipotriol ingestion
Vytautas Sabūnas 1, Jonas Šurkus 2, Laimutis Paulauskas 1, Vytautas Parapijonavičius 1, Lukas Grėbliauskas 1, Vytautas Sierraus 1
1 Veterinary Clinic Siaurio Snauceris, Kaunas, Lithuania; 2 Nephrological Clinic, Lithuanian University of Health Sciences, Kaunas, Lithuania

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5-Fluorouracil ingestion in dogs
Mark Van-De-Velde, Jesse Simpson, Nicola Bates
Veterinary Poisons Information Service (VPIS), London, United Kingdom

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Clitocybe rivulosa poisoning in dogs
Kristin Opdal Seljetun, Helga Ruus Lorentzen
Norwegian Poisons Information Centre, National Institute of Public Health, Oslo, Norway

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Increased amylase and lipase activity after mushroom ingestion in dogs
Kristin Opdal Seljetun, Helga Ruus Lorentzen
Norwegian Poisons Information Centre, National Institute of Public Health, Oslo, Norway

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Successful management of acute kidney failure in a dog following calcipotriol ingestion
Vytautas Sabūnas 1, Jonas Šurkus 2, Laimutis Paulauskas 1, Vytautas Parapijonavičius 1, Lukas Grėbliauskas 1, Vytautas Sierraus 1
1 Veterinary Clinic Siaurio Snauceris, Kaunas, Lithuania; 2 Nephrological Clinic, Lithuanian University of Health Sciences, Kaunas, Lithuania

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5-Fluorouracil ingestion in dogs
Mark Van-De-Velde, Jesse Simpson, Nicola Bates
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Increased amylase and lipase activity after mushroom ingestion in dogs
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1 Occupational Medicine, First Medical Faculty of Charles University in Prague and General University Hospital, Prague, Czech Republic; 2 First Medical Faculty of Charles University in Prague and General University Hospital, Prague, Czech Republic; 3 J. Heyrovsky Institute of Physical Chemistry of the CAS CR, v.v.i., Prague, Czech Republic

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1 Campinas Poison Control Center, School of Medicine, University of Campinas, São Paulo, Brazil; 2 Emergency Medicine Department, School of Medicine, University of Campinas, São Paulo, Brazil; 3 Pulmonology Division, School of Medicine, University of Campinas, São Paulo, Brazil

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Arjen Koppen, Irma De Vries
Dutch Poisons Information Center, University Medical Center Utrecht, University Utrecht, Utrecht, Netherlands

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Kathrin Begemann, Nina Glaser, Miriam Friedemann, Esther Feistkorn, Herbert Desel Bundesinstitut für Risikobewertung, Berlin, Germany

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1 Hygiene and Environmental Health Department, Faculty of Medicine, University of Medicine and Pharmacy “Carol Davila”, Bucharest, Romania; 2 Toxicology Department, Faculty of Pharmacy, University of Medicine and Pharmacy “Carol Davila”, Bucharest, Romania

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1 Antigifcentrum/Centre Antipoisons, Brussels, Belgium; 2 Hasselt University, Hasselt, Belgium; 3 Ghent University Hospital, Ghent, Belgium

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Julia Lee 1, Anselm Wong 2
1 Melbourne Medical School, University of Melbourne, Melbourne, Australia; 2 Emergency and Toxicology, Austin Toxicology and Victorian Poisons Information Centre, Austin Health and School of Clinical Sciences, Monash University, Melbourne, Australia

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* Included in poster round 13:30 to 14:00 hrs
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Eleri Thomas¹, Sally M Bradberry², Euan A Sandilands³, Simon HL Thomas⁴, John P Thompson¹  
¹ NPIS (Cardiff), Cardiff and Vale UHB, Cardiff, United Kingdom; ² NPIS (Birmingham), City Hospital, Birmingham, United Kingdom; ³ NPIS (Edinburgh), Royal Infirmary, Edinburgh, United Kingdom; ⁴ NPIS (Newcastle), Regional Drug and Therapeutics Centre, Newcastle, United Kingdom

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Michael G Beasley, Lucy M Shieffelbien  
Department of Preventive and Social Medicine, University of Otago, Dunedin, New Zealand

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Pardeep S Jagpal¹, Mark Pucci², Euan A Sandilands³, John P Thompson⁴, Simon HL Thomas⁵, Sally M Bradberry¹  
¹ National Poisons Information Service (Birmingham Unit), Birmingham, United Kingdom; ² West Midlands Poisons Unit, Birmingham, United Kingdom; ³ National Poisons Information Service (Edinburgh Unit), Edinburgh, United Kingdom; ⁴ National Poisons Information Service (Cardiff Unit), Cardiff, United Kingdom; ⁵ National Poisons Information Service (Newcastle Unit), Newcastle, United Kingdom

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Hayley Williams¹, Emma Moyns¹, Mark Pucci², Euan A Sandilands³, John P Thompson⁴, Simon HL Thomas⁵, Sally M Bradberry¹  
¹ National Poisons Information Service (Birmingham Unit), Birmingham, United Kingdom; ² West Midlands Poisons Unit, Birmingham, United Kingdom; ³ National Poisons Information Service (Edinburgh Unit), Edinburgh, United Kingdom; ⁴ National Poisons Information Service (Cardiff Unit), Cardiff, United Kingdom; ⁵ National Poisons Information Service (Newcastle Unit), Newcastle, United Kingdom

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Specialist in Poison Information (SPI)-initiated toxicology consults: trends from a regional poison center
Shireen Banerji¹, Daniel Fischer², Christopher O Hoyte¹
¹ Rocky Mountain Poison Center, Denver Health & Hospital Authority, Denver, United States; ² Emergency Department, Holy Cross Hospital, Chicago, United States

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Eliska Lacinova¹, Jiri Hlusicka², Lucia Neuschlova², Lucie Lischkova², Sergey Zakharov²
¹ Toxicological Information Centre, General University Hospital in Prague, Charles University, Prague, Czech Republic; ² Charles University, Prague, Czech Republic

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Emma Moyns¹, Hayley Williams¹, Mark Pucci², Euan A Sandilands³, John P Thompson⁴, Simon HL Thomas⁵, Sally M Bradberry¹
¹ National Poisons Information Service (Birmingham Unit), Birmingham, United Kingdom; ² West Midlands Poisons Unit, Birmingham, United Kingdom; ³ National Poisons Information Service (Edinburgh Unit), Edinburgh, United Kingdom; ⁴ National Poisons Information Service (Cardiff Unit), Cardiff, United Kingdom; ⁵ National Poisons Information Service (Newcastle Unit), Newcastle, United Kingdom

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User experience of the TOXBASE app
Lindsay D Gordon¹, David J Lupton¹, Gillian Jackson¹, Richard D Adams¹, Sally M Bradberry², John P Thompson³, Simon HL Thomas⁴, Euan A Sandilands¹
¹ NPIS Edinburgh, Royal Infirmary of Edinburgh, Edinburgh, United Kingdom; ² NPIS Birmingham, City Hospital, Birmingham, United Kingdom; ³ NPIS Cardiff, University Hospital Llandough, Cardiff, United Kingdom; ⁴ NPIS Newcastle, Regional Drug and Therapeutics Centre, Newcastle upon Tyne, United Kingdom

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1 Italian National Institute of Health, Rome, Italy; 2 La Sapienza University, Rome, Italy; 3 Public Health England, Chemicals and Poisons Department, Centre for Radiation, Chemical and Environmental Hazards, Chilton, United Kingdom; 4 Federal Institute for Risk Assessment, Berlin, Germany; 5 Poison Control Centre, Utrecht, Netherlands; 6 Poison Control Centre, Milan, Italy; 7 Poison Control Centre, Dublin, Ireland; 8 Toxicological Information Centre, Prague, Czech Republic; 9 Poison Control Centre, Bratislava, Slovak Republic; 10 Poison Control Centre, Lisbon, Portugal; 11 Poison Control Centre, Göttingen, Germany

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1 Department of Neuroscience, Drug Area and Child Health, University of Florence, Florence, Italy; 2 Regional Reference Center for Perinatal Toxicology, Azienda Ospedaliero Universitaria Careggi, Florence, Italy; 3 Department of Neuroscience, Drug Area and Child Health, University of Florence - Azienda Ospedaliero Universitaria Careggi, Florence, Italy
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1 NPIS Edinburgh, Royal Infirmary of Edinburgh, Edinburgh, United Kingdom; 2 NPIS Newcastle, Regional Drug and Therapeutics Centre, Newcastle upon Tyne, United Kingdom; 3 NPIS Cardiff, University Hospital Llandough, Cardiff, United Kingdom; 4 NPIS Birmingham, City Hospital, Birmingham, United Kingdom

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1 NPIS Edinburgh, Royal Infirmary of Edinburgh, Edinburgh, United Kingdom; 2 NPIS Newcastle, Regional Drug & Therapeutics Centre, Newcastle upon Tyne, United Kingdom; 3 NPIS Cardiff, University Hospital Llandough, Cardiff, United Kingdom; 4 NPIS Birmingham, City Hospital, Birmingham, United Kingdom

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1 Medico-Legal Department, Bordeaux University Hospital, Bordeaux, France; 2 Bordeaux University Hospital, Bordeaux, France; 3 Biochemistry Laboratory, Bordeaux University Hospital, Bordeaux, France; 4 Poison Center, Bordeaux University Hospital, Bordeaux, France; 5 Department of Thoracic Surgery, Bordeaux University Hospital, Bordeaux, France; 6 Department of Pharmacology and Toxicology, Limoges University Hospital, Limoges, France; 7 Toxicology Laboratory, Lariboisière University Hospital, Paris, France

* Included in poster round 13:30 to 14:00 hrs
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Andrea Giampreti¹, Carlo Brembilla², Francesca Bedussi¹, Andrea Lanterna², Rosangela Trezzi³, Davide Lonati⁴, Anna Ronchi⁴, Carlo A Locatelli⁴, Claudio Bernucci², Giuseppe Bacis¹
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Biochemical effects of lead in exposed workers with respect to liver and kidney function tests
Samaneh Nakhaee¹, Alireza Amirabadizadeh², Homeira Ataei², Zohreh Oghabian³, Omid Mehrpour²
¹ Cardiovascular Diseases Research Center, Birjand University of Medical Sciences and Medical Toxicology and Drug Abuse Research Center (MTDRC), Birjand University of Medical Sciences, Birjand, Iran; ² Medical Toxicology and Drug Abuse Research Center (MTDRC), Birjand University of Medical Sciences, Birjand, Iran; ³ Department of Pharmacology and Toxicology, Faculty of Pharmacy, Kerman University of Medical Sciences, Kerman, Iran

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A national survey of the level of knowledge of orthopedic surgery residents regarding systemic cobalt toxicity associated with total hip arthroplasty
Ryan M Surmaitis, Muhammad Masood Khalid, Michael I Greenberg
Division of Medical Toxicology, Drexel University College of Medicine, Philadelphia, United States

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Mercury exposures from measuring devices reported to the UK National Poisons Information Service, 2008–2016
Alexander C Capleton¹, James M Coulson¹, Sally M Bradberry², Euan A Sandilands³, Simon HL Thomas⁴, John P Thompson¹
¹ NPIS (Cardiff), Cardiff and Vale UHB, Cardiff, United Kingdom; ² NPIS (Birmingham), City Hospital, Birmingham, United Kingdom; ³ NPIS (Edinburgh), Royal Infirmary, Edinburgh, United Kingdom; ⁴ NPIS (Newcastle), Regional Drug and Therapeutics Centre, Newcastle, United Kingdom

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Occupational lead poisoning – similarities and differences: two case reports
Gordana Vukovic Ercegovic 1, Natasa Perkovic Vukcevic 1, Vesna Mijatovic 2, Olivera Potrebic 1, Snezana R Jankovic 3, Jasmina Jovic Stosic 1
1 National Poison Control Center, Military Medical Academy, Belgrade, Serbia; 2 Department of Pharmacology, Toxicology and Clinical Pharmacology, Faculty of Medicine, University of Novi Sad, Novi Sad, Serbia; 3 Institute for Scientific Information, Military Medical Academy, Belgrade, Serbia

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Anne Stürzebecher 1, Mandy Gollmann 1, Gesine Liebetrau 1, Maike Borchers 2, Wolfram Pönisch 3, David Hellinger 4, Thomas Ernst 5, Dagmar Prasa 1
1 Poisons Information Centre Erfurt, Erfurt, Germany; 2 Giftinformationszentrum-Nord, Göttingen, Germany; 3 Universitätsklinikum Leipzig, Leipzig, Germany; 4 Städtisches Klinikum Dessau, Dessau-Roßlau, Germany; 5 Universitätsklinikum Jena, Jena, Germany

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Pierre Brun 1, Régis Bédry 1, Claire Masson-Samoyault 2, Estelle Sudre 2, Nahid Sarram-Nadjimi 2, Mareme Kandji 2, Sophie Gromb-Monnoyeur 2
1 Medico-Legal Department, Bordeaux University Hospital, Bordeaux, France; 2 Bordeaux University Hospital, Bordeaux, France

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Narjis Badrane 1, Naima Rhalem 1, Fouad Chafiq 1, Rhizlane Eloufir 1, Abdelmajid Soulanymani 2, Ghyzlaine Jalal 1, Rachida Soulanymani Bencheikh 1
1 Centre Anti Poison et de Pharmacovigilance du Maroc, Rabat, Morocco; 2 Genetics and Biometry Laboratory, Faculty of Sciences, University Ibn Tofail, Kenitra, Morocco

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Jyotirmoy Das 1, Julie A Weber 2, Michael E Mullins 1
1 Emergency Medicine, Washington University School of Medicine, Saint Louis, United States; 2 Missouri Poison Center, Saint Louis, United States
A misuse of snakebite antidote may be life-threatening for patients: a French case of European Vipera species envenomation treated with ViperaTAb®

Ruben Goncalves¹, Denis Dondia¹, Mohammed Es Salhi², Magali Labadie¹, Arnaud Courtois¹, Lise Capaldo¹
¹ Poison Control Center, Bordeaux, France; ² Emergency Department, Ussel, France

Adder bites in Finland: demographic data from poison centre enquiries

Suvi Pajarre-Sorsa¹, Anni Sillanpää²
¹ Poison Information Centre, HUH Emergency, Emergency Medicine and Services, University of Helsinki and Helsinki University Hospital, Helsinki, Finland; ² Department of Genetics & Physiology, University of Oulu, Oulu, Finland

Spiders bites in Italy: data collection of a Poison Control Center

Anna Celentano¹, Marco Morina², Attilio Negri², Fabrizio Sesana¹, Franca Davanzo¹
¹ Milan Poison Control Center, ASST Grande Ospedale Metropolitano Niguarda, Milan, Italy; ² Postgraduate School of Clinical Pharmacology and Toxicology, Milan, Italy

Wave biomechanotherapy for the rehabilitation of patients bitten by Vipera berus

Yury Ostapenko¹, Amayak Badalyan², Yury Goldfarb³, Mikhail Potskhveria², Vladislav Shchetkin², Elena Chukina²
¹ Research and Applied Toxicology Center of Medical and Biological Agency, Moscow, Russian Federation; ² Sklifosovsky Research Institute for Emergency Medicine, Public Healthcare Institution of Moscow Healthcare Department, Moscow, Russian Federation; ³ Russian Medical Academy of Postgraduate Education, Federal Public Educational Institution of Additional Professional Postgraduate Education of Russian Federation Healthcare Ministry, Moscow, Russian Federation

Asymptomatic pulmonary hemorrhage on chest computed tomography (CT) after Bothrops species snakebite

Eduardo M De Capitani¹, Carla F Borrasca-Fernandes¹, Camila C Prado¹, Elza Maria FP Cerqueira², Fábio Bucareuchi¹
¹ Campinas Poison Control Center, School of Medicine, University of Campinas, São Paulo, Brazil; ² Computed Tomography Division, CDE - Center for Diagnosis by Images, Campinas, São Paulo, Brazil

Naja mossambica snakebite in Kentucky

Jeremiah Phelps¹, Regan Baum², Peter Akpunonu¹
¹ Emergency Medicine, University of Kentucky Healthcare, Lexington, United States; ² Pharmacy Services - Emergency Medicine, University of Kentucky Healthcare, Lexington, United States
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Fábio Bucaretchi¹, Maira MB Pimenta¹, Camila C Prado¹, Carla F Borrasca-Fernandes¹, Kleber M Fertrin², Eduardo M De Capitani¹, Stephen Hyslop¹
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Is antivenom treatment for *Naja kaouthia* bites always necessary in high care hospitals?
Marieke A Dijkman¹, Dylan W De Lange², Irma De Vries¹
¹ Dutch Poisons Information Center, University Medical Center Utrecht, Utrecht, Netherlands; ² Department of Intensive Care Medicine, University Medical Center Utrecht, Utrecht, Netherlands
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1 Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS1144, Paris, France; 2 Laboratory of Biochemistry, Lariboisière Hospital, Paris-Descartes University, INSERM UMRS1144, Paris, France; 3 Molecular Imaging In Vivo, CEA, Paris-Saclay University, Orsay, France

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Investigation of intravenous lipid emulsion on quetiapine pharmacokinetics in the rat: is the lipid sink theory valid?
Karim Jaffal 1, Marion Soichot 2, Emmanuel Bourgogne 2, Patricia Risède 1, Lucie Chevillard 1, Bruno Mégarbane 1
1 Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS1144, Paris, France; 2 Toxicology Laboratory, Lariboisière Hospital, Paris-Descartes University, Paris, France

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The effects of cannabinoids on astrocytic viability and neurotrophic activity
Damijana M Juric 1, Miran Brvar 2
1 Institute of Pharmacology and Experimental Toxicology, Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia; 2 Centre for Clinical Toxicology and Pharmacology, University Medical Centre Ljubljana, Ljubljana, Slovenia

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Deborah Rudin 1, Manuel Haschke 2, Stephan Krähenbühl 3
1 Clinical Pharmacology and Toxicology, Department of Biomedicine, University Hospital Basel, University of Basel, Basel, Switzerland; 2 Department of General Internal Medicine, Institute of Pharmacology, University Hospital Bern, University of Bern, Bern, Switzerland; 3 Clinical Pharmacology and Toxicology, Department of Biomedicine, University Hospital Basel, University of Basel & Swiss Centre of Applied Human Toxicology (SCAHT), Basel, Switzerland

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Mitochondrial toxicity and oxidative stress induced by methylene blue and toluidine blue in mammalian cells
Elias Bekka 1, Christine Hopfer 2, Florian Eyer 1, Harald Mückter 2, Thomas Gudermann 2
1 Department of Clinical Toxicology, School of Medicine, Technical University of Munich, Munich, Germany; 2 Walther-Straub-Institute of Pharmacology and Toxicology, Ludwig-Maximilian-University Munich, Munich, Germany

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Neurotoxicity of cathinones: effects on in vitro neuronal activity
Laura Hondebrink 1, Anne Zwartsen 2, Remco HS Westerink 2
1 Dutch Poisons Information Center (DPIC), University Medical Center Utrecht, Utrecht University, Utrecht, Netherlands; 2 Neurotoxicology Research Group, Institute for Risk Assessment Sciences (IRAS), Utrecht University, Utrecht, Netherlands

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Marguerite De Saxce 1, Lucie Chevillard 1, Salvatore Cisternino 2, Joel Schlatter 3, Patricia Risède 1, Bruno Mégarbame 1
1 Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS1144, Paris, France; 2 INSERM UMRS1144, Paris-Descartes University, Paris, France; 3 Toxicology Laboratory, Jean Verdier University Hospital, Bondy, France

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Tejs Jansen 1, Lotte CG Hoegberg 1, Thomas Eriksen 2, Christian Haarmark 3, Kim P Dalhoff 4, Bo Belhage 1
1 Department of Anaesthesia and Intensive Care, Bispebjerg and Frederiksberg Hospital, University of Copenhagen, Copenhagen, Denmark; 2 Department of Veterinary Clinical Sciences, University Hospital for Companion Animals, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark; 3 Department of Clinical Physiology and Nuclear Medicine, Copenhagen University Hospital Herlev and Gentofte, Copenhagen, Denmark; 4 Department of Clinical Pharmacology, Bispebjerg and Frederiksberg Hospital, University of Copenhagen, Copenhagen, Denmark

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**Amitriptyline accumulation in tissues after coated activated charcoal hemoperfusion: a randomized controlled animal poisoning model**  
Tejs Jansen¹, Lotte CG Hoegberg¹, Thomas Eriksen², Kim P Dalhoff³, Bo Belhage¹, Sys S Johansen⁴  
¹ Department of Anaesthesia and Intensive Care, Bispebjerg and Frederiksberg Hospital, University of Copenhagen, Copenhagen, Denmark; ² Department of Veterinary Clinical Sciences, University Hospital for Companion Animals, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark; ³ Department of Clinical Pharmacology, Bispebjerg and Frederiksberg Hospital University of Copenhagen, Copenhagen, Denmark; ⁴ Department of Forensic Medicine, Faculty of Health and Medical Sciences, Copenhagen University, Copenhagen, Denmark

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**Evaluation of the hepatoprotective functions of Schizophillum commune in mice with experimental hepatitis caused by carbon tetrachloride**  
Natallia Puzan, Elena Kadukova, Ihar Cheshyk  
Institute of Radiobiology of the National Academy of Sciences of Belarus, Gomel, Belarus

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**Effect fingerprinting of cathinones: lessons from in vitro data**  
Laura Hondebrink¹, Anne Zwartsen², Remco HS Westerink²  
¹ Dutch Poisons Information Center, University Medical Center Utrecht, Utrecht University, Utrecht, Netherlands; ² Neurotoxicology Research Group, Institute for Risk Assessment Sciences (IRAS), Utrecht University, Utrecht, Netherlands

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**Effects of active and passive smoking on serum oxidative stress biomarkers in psychiatric patients**  
Ana-Maria Vlasceanu¹, Daniela Gradinaru², Miriana Stan¹, Daniela Baconi¹  
¹ Department of Toxicology, Faculty of Pharmacy, “Carol Davila” University of Medicine and Pharmacy, Bucharest, Romania; ² Department of Biochemistry, Faculty of Pharmacy, “Carol Davila” University of Medicine and Pharmacy, Bucharest, Romania

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**Biomarkers of endothelial dysfunction in acute cocaine drug overdose**  
Alex Manini¹, Chloë Tessereau², Yasmin Hurd²  
¹ Medical Toxicology, Icahn School of Medicine at Mount Sinai, New York, United States; ² Psychiatry, Neuroscience, and Pharmacological Sciences, Icahn School of Medicine at Mount Sinai, New York, United States

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Chris Oerlemans, Corine C Visser, Agnes G Van Velzen, Henneke N Mulder-Spijkerboer, Antoinette JHP Van Riel, Irma De Vries  
*Dutch Poisons Information Center, University Medical Center Utrecht, Utrecht, Netherlands*

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**Unexpected toxicity of cannabidiol (CBD) oil health products**  
Irma S Van Den Hengel-Koot, Johanna J Nugteren-Van Lonkhuyzen, Laura Hondebrink, Saskia J Rietjens, Irma De Vries, Antoinette JHP Van Riel  
*Dutch Poisons Information Center (DPIC), University Medical Center Utrecht, Utrecht University, Utrecht, Netherlands*

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**Thirty years of inpatient toxicology deaths**  
Ingrid Berling¹, Ian M Whyte², Aimee Semmens²  
¹ Emergency Medicine, The Maitland Hospital, Maitland, Australia; ² Clinical Toxicology and Pharmacology, Calvary Mater Newcastle, Newcastle, Australia

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Robin E Ferner¹, Craig Easton², Anthony R Cox²  
¹ West Midlands Centre for Adverse Drug Reactions, University of Birmingham, Birmingham, United Kingdom; ² Pharmacy, University of Birmingham, Birmingham, United Kingdom

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Pauline M Verputten, Chantal CJ Roelen, Antoinette JHP Van Riel, Irma De Vries  
*Dutch Poisons Information Center (DPIC), University Medical Center Utrecht, Utrecht University, Utrecht, Netherlands*

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Carine J Marks¹, Dmitrij Sachno¹, Gert J Muller¹, Helmhut Reuter¹, Cherylynn A Wium¹, Catharina E Du Plessis¹, Daniel J Van Hoving²  
¹ Clinical Pharmacology, Stellenbosch University, Cape Town, South Africa; ² Emergency Medicine, Stellenbosch University, Cape Town, South Africa
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Michael Deters, Germaine Frimlova, Mandy Gollmann, Simone Just, Gesine Liebetrau, Bettina Plenert, Anne Stuerzebecher, Dagmar Prasa
Poisons Information Centre Erfurt, c/o HELIOS Klinikum Erfurt GmbH, Erfurt, Germany

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Gillian Jackson¹, Sally M Bradberry², John P Thompson³, Simon HL Thomas⁴, Euan A Sandilands¹
¹ NPIS Edinburgh, Royal Infirmary of Edinburgh, Edinburgh, United Kingdom; ² NPIS Birmingham, City Hospital, Birmingham, United Kingdom; ³ NPIS Cardiff, University Hospital Llandough, Cardiff, United Kingdom; ⁴ NPIS Newcastle, Regional Drug and Therapeutics Centre, Newcastle, United Kingdom

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Dana Dascultu, Madalina E Petran
Emergency Clinical Hospital for Children Grigore Alexandrescu, Bucharest, Romania

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Simona Stanca, Madalina E Petran, Coriolan Ulmeanu
Pediatric Poisoning Centre, Emergency Clinical Hospital for Children Grigore Alexandrescu, Bucharest, Romania

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Narjis Badrane¹, Ahlam Meftah¹, Naima Rhalem¹, Abdelmajid Soulaymani², Rachida Soulaymani Bencheikh¹
¹ Centre Anti Poison et de Pharmacovigilance du Maroc, Rabat, Morocco; ² Genetics and Biometry Laboratory, Faculty of Sciences, University Ibn Tofail, Kenitra, Morocco

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Alexa Camarena-Michel¹, Benjamin Hatten²
¹ Emergency Medicine, Denver Health Medical Center, Denver, United States; ² Section of Medical Toxicology, Department of Emergency Medicine, University of Colorado School of Medicine; On behalf of the Toxicology Investigators Consortium (ToxIC), Aurora, United States
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Stephen A Harding 1, Rana Biary 1, Robert S Hoffman 1, Samuel Maling 2, Mark Bisanzo 3, Stacey Chamberlain 3, Bradley Dreifuss 3, Heather Hammerstedt 3, Mélissa Langevin 3, Sara Nelson 3, Usha Periyanayagam 3, Brian Rice 1
1 Division of Medical Toxicology, Ronald O. Perelman Department of Emergency Medicine, NYU School of Medicine, New York, United States; 2 Mbarara University of Science and Technology, Mbarara, Uganda; 3 Global Emergency Care Investigators Collaborative, Shrewsbury, United States

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Usage of extracorporeal treatment in Hungary
Csaba Pap
Department of Emergency Medicine and Clinical Toxicology, Péterfy Hospital, Budapest, Hungary

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Anselm Wong 1, David M Taylor 2, Marco La Sivilotti 3, Richard McNulty 4, Shaun L Greene 3, Zeff Koutsogiannis 3, Naren Gunja 6, Andis Graudins 7
1 Monash and Austin Toxicology Unit, Monash and Austin Health, and School of Clinical Sciences, Monash University, Victoria, Australia; 2 Department of Emergency Medicine, Austin Health, Victoria, Australia; 3 Departments of Emergency Medicine, and of Biomedical & Molecular Sciences, Queen’s University Kingston, Ontario, Canada; 4 Western Sydney Toxicology Service, NSW, Australia; 5 Austin Toxicology Service, Austin Health, Victoria, Australia; 6 Western Sydney Toxicology Service and Sydney Medical School, University of Sydney, NSW, Australia; 7 Monash Toxicology Service, Monash Emergency and School of Clinical Sciences, Monash Health and Monash University, Victoria, Australia

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Acute liver failure of unclear cause? Paracetamol adducts make the diagnosis
Michael E Mullins 1, Laura P James 2
1 Emergency Medicine, Washington University School of Medicine, Saint Louis, United States; 2 Clinical Pharmacology and Toxicology, Arkansas Children’s Hospital, Little Rock, United States

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Unintentional paracetamol overdose: 3-year analysis of patients admitted for treatment with acetylcysteine to a toxicology unit in the UK
Janice M Pettie 1, Margaret A Dow 1, Karen Osinski 1, Elizabeth Macrae 2, Eibhlin Brogan 2, Mary Dalglish 2, Euan A Sandilands 1, James W Dear 1
1 Clinical Toxicology Unit and National Poisons Information Service, Edinburgh, Royal Infirmary of Edinburgh, Edinburgh, United Kingdom; 2 Clinical Toxicology Unit, Royal Infirmary of Edinburgh, Edinburgh, United Kingdom

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Katrin Faber 1, Martin Walter 2, Christine Rauber-Lüthy 1, Tobias Huebner 3, Hugo Kupferschmidt 1, Katharina E Hofer 1
1 National Poisons Centre, Tox Info Suisse, Associated Institute of the University of Zurich, Zürich, Switzerland; 2 Department of Internal Medicine, Kantonsspital Muensterlingen, Muensterlingen, Switzerland; 3 Department of Anesthesiology and Intensive Care, Kantonsspital Muensterlingen, Muensterlingen, Switzerland

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Dóra O Jakab, Csaba Pap, Ágnes Bakos, Viktor A Ágoston, István Elek
Emergency Department and Clinical Toxicology, Péterfy Sándor Street Hospital-Clinic and Accident-Emergency Centre, Budapest, Hungary

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Fewer adverse drug reactions to acetylcysteine in paracetamol overdose using a reduced bolus 2-bag protocol compared to the traditional 3-bag protocol: a meta-analysis
Richard McNulty 1, Adrienne Kirby 2, Naren Gunja 1
1 Clinical Pharmacology & Toxicology, Western Sydney Health, Sydney, Australia; 2 NHMRC Clinical Trials Centre, University of Sydney, Sydney, Australia

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Non-anion gap acidosis in significant salicylate poisoning: mind the non-gap!
Elie Harmouche 1, Mark Su 2, William Chiang 1
1 Division of Medical Toxicology, Ronald O. Perelman Department of Emergency Medicine, NYU School of Medicine, New York, United States; 2 Poison Control Center, NYU School of Medicine, New York, United States

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Romain Torrents 1, Bastien Domangé 2, Katharina Von Fabeeck 3, Corinne Schmitt 3, Susanna Davoust 3, Mathieu Glaiyal 3, Audrey Boulamery 2, Luc De Haro 3, Nicolas Simon 1
1 Hôpitaux Sud, Pharmacologie Clinique CAP-TV, APHM; Aix-Marseille Université, INSERM, SESSTIM UMR 912, Marseille, France; 2 Hôpitaux Sud, Pharmacologie Clinique, APHM; Aix-Marseille Université, Marseille, France; 3 Hôpitaux Sud, Pharmacologie Clinique CAP-TV, APHM, Marseille, France

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Supa Niruntarai 1, Brett D Cherrington 2, Michael Hodgman 2
1 Upstate NY Poison Center, Syracuse, United States; 2 Emergency Department, Upstate NY Poison Center, Syracuse, United States
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**A pharmacokinetic analysis of hemodialysis for metformin-associated lactic acidosis**  
Stephen A Harding 1, Rana Biary 1, Robert S Hoffman 1, Mark Su 1, Mary Ann Howland 2  
1 Division of Medical Toxicology, Ronald O. Perelman Department of Emergency Medicine, NYU School of Medicine, New York, United States; 2 St. John’s University College of Pharmacy and Health Sciences, New York, United States

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Ágnes Bakos  
Clinical Toxicology Department, Péterfy Hospital, Budapest, Hungary

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**Epidemiology of organ failure in poisoned patients: a 16-year experience of an Italian Intensive Care Unit**  
Roberto Zoppellari 1, Evelina Fortini 1, Ilaria Farinelli 1, Giulia Dallocchio 1, Anna Pinamonti 1, Angela Ricci Frabattista 2, Anna Talarico 3, Rosa M Gaudio 3  
1 Anaesthesia and Intensive Care, S. Anna Hospital, Ferrara, Italy; 2 Pharmacy, S. Anna Hospital, Ferrara, Italy; 3 Legal Medicine, Ferrara University, Ferrara, Italy

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**Clinical features and pharmacokinetic analysis in acute olanzapine poisoning in patients admitted to the intensive care unit**  
Ouissam Berezel 1, Lucie Chevillard 1, Marion Soichot 2, Bruno Mégarbane 1  
1 Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS1144, Paris, France; 2 Toxicology Laboratory, Lariboisière Hospital, Paris-Descartes University, Paris, France

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**Evaluation of rational use of extracorporeal membrane oxygenation (ECMO) in intoxicated patients with history of mental health problems: a case series**  
Irina M Rimon 1, Leena Soininen 1, Raili Suojaranta 2, Mika Paloheimo 3  
1 Poison Information Centre, HUH Emergency Medicine and Services, Helsinki University Hospital, Helsinki, Finland; 2 HUH Department of Cardiac Surgery, Helsinki, Finland; 3 HUH Emergency Medicine and Services, Helsinki University Hospital, Helsinki, Finland

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Johanna Nordmark Grass 1, Johanna Steinwall 2, Erik Lindeman 1  
1 Swedish Poison Information Centre, Stockholm, Sweden; 2 Department of Cardiology, Stockholm South General Hospital, Stockholm, Sweden
169 Are the new-generation anticonvulsive drugs responsible for severe toxicity? An intensive care unit case series with pharmacokinetic data
Sylvie Kandas¹, Lucie Chevillard¹, Marion Soichot², Isabelle Malissin¹, Nicolas Deye¹, Sebastian Voicu¹, Bruno Mégarbane¹
¹ Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS1144, Paris, France; ² Toxicology Laboratory, Raymond Poincarré University Hospital, Paris, France

170 Acute amitriptyline and clomipramine poisoning in the intensive care unit: clinical presentation and pharmacokinetic modelling
Hélène Meng¹, Lucie Chevillard¹, Hervé Gourlain², Nicolas Péron¹, Alexandre Nuzzo¹, Bruno Mégarbane¹
¹ Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS1144, Paris, France; ² Toxicology Laboratory, Lariboisière Hospital, Paris-Descartes University, Paris, France

171 Cardiac arrest following severe autointoxication with chloroquine
Carina Bethlehem¹, Minke Jongsma², Jennifer A Korporaal-Heijman², Jan Peter Yska³
¹ Intensive Care, Tjongerschans, Heerenveen, Netherlands; ² Clinical Pharmacy, Tjongerschans, Heerenveen, Netherlands; ³ Clinical Pharmacy and Clinical Pharmacology, Medical Centre Leeuwarden, Leeuwarden, Netherlands

& 172 Kinetics of hydroxychloroquine following massive overdose
Jonathan De Olano¹, Mary Ann Howland¹, Maggie Cocca², Charles Pereya², Lien-Khuong Tran³, Banyar Aung⁴, Mark Su¹, Robert S Hoffman¹, Rana Biary¹
¹ Toxicology, NYU/Bellevue, New York City, United States; ² Emergency Medicine, New York Presbyterian Brooklyn Methodist Hospital, Brooklyn, United States; ³ Critical Care, New York Presbyterian Brooklyn Methodist Hospital, Brooklyn, United States; ⁴ Internal Medicine, New York Presbyterian Brooklyn Methodist Hospital, Brooklyn, United States

173 Intentional injection with high dose insulin degludec resulting in prolonged hospitalization and suspected insulin edema
Max Wretman, Peter Hultén
Swedish Poisons Information Centre, Stockholm, Sweden

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Insulin overdose: a systematic review of case reports with focus on clinical course, complications and experimental treatment option
Mikkel B Christensen, Nicklas J Johansen
University of Copenhagen, Copenhagen, Denmark

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Refractory bradycardia and heart rate-dependent hypotension following verapamil and telmisartan overdose responding to emergency transvenous cardiac pacing
Roger Lien-Kien Tong¹, Andis Graudins²
¹ Monash Toxicology Unit, Emergency Medicine Service, Monash Health, Melbourne, Australia; ² Monash Emergency Research Collaboration, Department of Medicine, Clinical Sciences, Monash Health, Melbourne, Australia

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Levosimendan as a potential calcium channel blocker antidote: a systematic literature review
Talan A Parnell, John P Thompson, James M Coulson
NPIS (Cardiff), Cardiff and Vale UHB, Cardiff, United Kingdom

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Chronic digitalis poisoning treated with anti-digoxin Fab fragments: a critical analysis of treatment indications and patient outcome
Calypso Guélou¹, Lucie Chevillard¹, Hervé Gourlain², Bruno Mégarbane¹
¹ Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS1144, Paris, France; ² Toxicology Laboratory, Raymond Poincarré University Hospital, Paris, France

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Delayed QTc prolongation after supratherapeutic loperamide use to treat chronic diarrhea associated with irritable bowel syndrome
James B Leonard¹, Denise Couch¹, Hong K Kim²
¹ Maryland Poison Center, University of Maryland School of Pharmacy, Baltimore, United States; ² Department of Emergency Medicine, University of Maryland School of Medicine, Baltimore, United States

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Colchicine poisoning presenting with acute myocardial infarction and secondary cardiogenic shock
Francis Grossenbacher¹, Vanessa Champenois², Veronique Pinel-Petit¹, Quentin Marion¹, Carole Carolet², Yohann Cazaubon³, Jean Marc Malinovsky⁴
¹ Emergency Department, University Hospital Reims, Reims, France; ² Intensive Care Unit, University Hospital Reims, Reims, France; ³ Pharmacology and Toxicology Department, University Hospital Reims, Reims, France; ⁴ Anesthesiology Department, University Hospital Reims, Reims, France
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Severe cardiovascular failure in relation to beta-blocker poisoning: predictive factors, pharmacokinetics and effect/concentration relationships
Pierre Garçon 1, Lucie Chevillard 1, Brigitte Delhotal-Landes 2, Isabelle Malissin 1, Sebastian Voicu 1, Nicolas Deye 1, Lamia Kerdjana 1, Nicolas Péron 1, Alexandre Nuzzo 1, Bruno Mégarbane 1
1 Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS1144, Paris, France; 2 Toxicology Laboratory, Lariboisière Hospital, Paris-Descartes University, Paris, France

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Carbon monoxide poisoning in pre-hospital and emergency department hospital settings: critical issues on correct evaluation and proposal of a clinical procedure
Stefano Rosa 1, Davide Lonati 2, Azzurra Schicchi 2, Francesco Salinaro 3, Stefano Perlini 1, Carlo A Locatelli 2
1 Post Graduate School in Emergency Medicine, University of Pavia, Pavia, Italy; 2 Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Maugeri Clinical and Scientific Institutes IRCCS and University of Pavia, Pavia, Italy; 3 Emergency Department, Fondazione Policlinico IRCCS San Matteo, University of Pavia, Pavia, Italy

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Ryan M Surmaitis, Rita McKeever, David Vearrier, on behalf of the Toxicology Investigators Consortium
Division of Medical Toxicology, Drexel University College of Medicine, Philadelphia, United States

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Eva Backman, Karin Feychting, Jonas Höjer
Swedish Poisons Information Centre, Stockholm, Sweden

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Duloxetine overdose
Michael Keegan, Joyce M Cooper, Geoffrey K Isbister
Clinical Toxicology Research Group, University of Newcastle, Newcastle, Australia

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Delayed resolution of amitriptyline toxicity associated with CYP2D6 deficiency
Muhammad Masood Khalid, Maricel Dela Cruz, David Vearrier, Michael I Greenberg
Emergency Medicine, Division of Medical Toxicology, Drexel University College of Medicine, Philadelphia, United States
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Severe central nervous system depression and acute respiratory distress syndrome in severe nisoldipine toxicity
William Rushton¹, Steven Franks², Jessica Rivera³, Justin Arnold¹
¹ Office of Medical Toxicology, Department of Emergency Medicine, University of Alabama Birmingham, Birmingham, United States; ² Department of Emergency Medicine, University of Alabama Birmingham, Birmingham, United States; ³ Department of Pharmacy, University of Alabama Birmingham, Birmingham, United States

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Using pesticide-poisoned patients as potential organ donors
Umesh Mistry¹, Paul I Dargan², David M Wood²
¹ General Medicine, Guy’s and St Thomas’ NHS Foundation Trust, London, United Kingdom; ² Clinical Toxicology, Guy’s and St Thomas’ NHS Foundation Trust; Faculty of Life Sciences and Medicine, King’s College London, London, United Kingdom

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Predicting outcomes in aluminum phosphide poisoning using a risk-prediction nomogram
Esmaeil Farzaneh¹, Samaneh Nakhaee², Alireza Amirabadizadeh³, Omid Mehrpour³, Shiva Shabrang³
¹ Forensic Medicine and Toxicology, Faculty of Medicine, Department of Internal Medicine, Ardabil University of Medical Sciences, Ardabil, Iran; ² Cardiovascular Diseases Research Center, Birjand University of Medical Sciences, and Medical Toxicology and Drug Abuse Research Center (MTDRC), Birjand University of Medical Sciences, Birjand, Iran; ³ Medical Toxicology and Drug Abuse Research Center (MTDRC), Birjand University of Medical Sciences, Birjand, Iran

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Severe suicidal self-poisoning with massive dose of potassium ferricyanide: risk of life-threatening hyperkalemia and acute renal failure
Lucie Lischkova¹, Daniela Pelclova¹, Jiri Hlusicka¹, Tomas Navratil¹, Vaclav Kadlec², Sergey Zakharov¹
¹ Department of Occupational Medicine, 1st Faculty of Medicine, Charles University and Toxicological Information Centre, General University Hospital, Prague, Czech Republic; ² Pardubice Hospital, Department of Internal Medicine, Pardubice, Czech Republic

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Andrea Giampreti¹, Francesca Mattioli², Lorella Faraoni¹, Francesca Bedussi¹, Caterina Spada³, Mariapina Gallo¹, Georgios Eleftheriou¹, Raffaella Butera¹, Giuseppe Bacis¹  
¹ Bergamo Poison Center and Toxicology Unit, ASST Papa Giovanni XXIII Hospital, Bergamo, Italy; ² Department of Internal Medicine, Pharmacology and Toxicology Unit, University of Genoa, Genoa, Italy; ³ Department of Neonatology, Arcispedale Santa Maria Nuova, Reggio Emilia, Italy

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Coriolan Ulmeanu, Mirabela Hincu, Sorina Stuparu, Veronica Stefura, Alexandru Voropanov, Viorela Nitescu  
Pediatric Poisoning Centre, Emergency Clinical Hospital for Children Grigore Alexandrescu, Bucharest, Romania

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R Ponampalam  
Emergency Department, Singapore General Hospital, Singapore

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Helga Ruus Lorentzen¹, Kristin Opdal Seljetun¹, Tarjei Skeide Rønning², Ane Cecilie Dale³, Fridtjof Heyerdahl⁴  
¹ Norwegian Poisons Information Centre, National Institute of Public Health, Oslo, Norway; ² Kristiansund Hospital, Kristiansund, Norway; ³ St. Olav’s University Hospital, Trondheim, Norway; ⁴ Oslo University Hospital, Oslo, Norway

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**HydroxoSave: empiric prehospital cyanide treatment with hydroxocobalamin in house fire patients**  
Elie Harmouche¹, Douglas Isaacs², Mark Su³  
¹ Division of Medical Toxicology, Ronald O. Perelman Department of Emergency Medicine, NYU School of Medicine, New York, United States; ² Fire Department City of New York, New York, United States; ³ Poison Control Center, New York, United States

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**Dermal exposure to hydrofluoric and sulfuric acid treated with yogurt**  
Cicily E Little¹, Matt Mink², Ryan Chuang³  
¹ Poison and Drug Information Service, Alberta Health Services, Calgary, Canada; ² Poison and Drug Information System, Alberta Health Services, Calgary, Canada; ³ Emergency Medicine, Alberta Health Services, Calgary, Canada
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Healthcare professionals’ experience in HAZMAT preparedness and responses in Thailand
Thanjira Jiranantakan, Ingamol Dullaya-Anukij, Patcha To-In
Preventive and Social Medicine, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

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Valeria M Petrolini 1, Giulia Scaravaggi 1, Eleonora Buscaglia 1, Virgilio Costanzo 2, Luisa G Palermi 2, Azzurra Schicchi 1, Mara Garbi 1, Marta Crevani 1, Davide Lonati 1, Sarah Vecchio 1, Carlo A Locatelli 1
1 Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Maugeri Clinical and Scientific Institutes IRCCS and University of Pavia, Pavia, Italy; 2 Ministry of Health, National Health System, Rome, Italy

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1 School of Clinical Pharmacology and Toxicology, University of Milan, Milan, Italy; 2 Milan Poison Control Center, ASST Grande Ospedale Metropolitano Niguarda, Milan, Italy

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Definition and treatment of benzodiazepine-resistant ethanol withdrawal syndrome
Hugo Langlois 1, Monique Cormier 2, Saif Al Ghafri 3, Eric Villeneuve 1,2, Robert S Hoffman 2,4, Cristina Longo 5, Sophie Gosselin 2,3
1 Pharmacy Department, McGill University Health Centre, Montréal, Canada; 2 Montreal Medical Toxicology Initiative, Montréal, Canada; 3 Emergency Department, McGill University Health Centre, Montréal, Canada; 4 Department of Emergency Medicine, NYU School of Medicine, New York, United States; 5 Department of Family Medicine, McGill University, Montréal, Canada

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Practice variation in the initial treatment of patients with ethanol withdrawal syndrome (EWS)
Hugo Langlois 1, Monique Cormier 2, Saif Al Ghafri 3, Eric Villeneuve 1,2, Robert S Hoffman 2,4, Cristina Longo 5, Sophie Gosselin 2,3
1 Pharmacy Department, McGill University Health Centre, Montréal, Canada; 2 Montreal Medical Toxicology Initiative, Montréal, Canada; 3 Emergency Department, McGill University Health Centre, Montréal, Canada; 4 Department of Emergency Medicine, NYU School of Medicine, New York, USA; 5 Department of Family Medicine, McGill University, Montréal, Canada
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An outbreak of foodborne botulism in Rome, Italy
Michele S Milella¹, Susanna M Signoretti¹, Francesco M Bagella¹, Fabrizio Anniballi², Bruna Auricchio², Davide Lonati³, M Caterina Grassi⁴
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Probable case of botulism: treating with a grain of salt
Susanna M Signoretti¹, Michele S Milella¹, Paolo Boldrini¹, Bruna Auricchio², Fabrizio Anniballi², M Caterina Grassi¹
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Hayley M Vergani¹, Attilio Negri², Adriana M Tomoiaga³, Fabrizio Sesana³, Angelo R Travaglia³, Franca Davanzo³

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Silvia Plackova¹, Blazena Caganova¹, Olga Otrubova¹, Jaroslav Kresanek², Igor Batora¹

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Unintentional pediatric exposures to prescription medications in Europe as reported to the RADARS® System Global Toxicosurveillance Network

Zachary R Margolin¹, Stevan G Severtson¹, Samantha J Leroy¹, Laura J Fischer¹, Jody L Green¹, Bruno Mégarbane², Antoine Villa², Andreas Schaper³, Martin Ebbecke³, Fabrizio Sesana⁴, Simon HL Thomas⁵, John P Thompson⁶

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Johanna Nordmark Grass, Birgitta Jonsson

Swedish Poisons Information Centre, Stockholm, Sweden

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¹ University of Medicine and Pharmacy “Grigore T. Popa”, Iasi, Romania; ² Pediatric Poisoning Centre, Emergency Clinical Hospital “Sfanta Maria”, Iasi, Romania

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1 University of Medicine and Pharmacy “Grigore T. Popa”, Iasi, Romania; 2 Pediatric Poisoning Centre, Emergency Clinical Hospital for Children “Sfinta Maria”, Iasi, Romania
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1 Pôle Urgences, Poison Control Center, University Hospital, Bordeaux, France; 2 Poison Control Center, Fernand Widal Hospital, Paris, France; 3 Direction évaluation des risques, ANSES, Maisons-Alfort, France; 4 French Poison Control Center’s Association, Nancy, France

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Vasile-Eduard V Rosu¹, Solange Tamara V Rosu², Smarandita D Diaconescu¹
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Jonathan De Olano¹, Kurt McDonald², Rana Biary¹, Mark Su¹
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Managing superglue exposure: a sticky subject
Nicola Wheatley¹, Sally M Bradberry², Euan A Sandilands³, Simon HL Thomas⁴, John P Thompson¹
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Tara Arif, Helmut Schiel
Poisons Information Centre, Vienna, Austria

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Jeng Taek Park, Hyun Ho Jung, Kyoung Ho Choi
Emergency Medicine, Uijeonbu St. Mary Hospital, The College of Medicine, The Catholic University of Korea, Seoul, Republic of South Korea

Risk evaluation of caustic chemicals used as household cleaning products
Ana Ferrer Dufol¹, Pilar Miranda Arto², Clara Serrano Ferrer³, Francisco Ruiz Ruiz⁴
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Nina Glaser¹, Michael Brandner², Esther Feistkorn¹, Kathrin Begemann³, Herbert Desel¹
¹ Scientific Service, German Federal Institute for Risk Assessment, Berlin, Germany; ² General Practice Dr. med Brandner, Müllheim, Germany; ³ German Federal Institute for Risk Assessment, Berlin, Germany

Clozapine increases the incidence of pneumonia compared to risperidone and to no antipsychotic medication in the general hospital population
Zachary R Stoecker¹, Eduardo A Colon², Joseph J Rasimas³
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1 Institute of Public Health, National Yang-Ming University, Taipei, Taiwan; 2 Department of Pharmacy, Taipei Veterans General Hospital, Taipei, Taiwan; 3 Institute of Environmental & Occupational Health Sciences, National Yang-Ming University, Taipei, Taiwan

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1 Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Maugeri Clinical and Scientific Institutes IRCCS and University of Pavia, Pavia, Italy; 2 Intensive Care Unit, Santa Chiara Hospital APSS, Trento, Italy

255 A hard stop: clozapine withdrawal causing serotonin syndrome
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1 Division of Medical Toxicology, Ronald O. Perelman Department of Emergency Medicine, NYU School of Medicine, New York, United States; 2 Department of Emergency Medicine, McMaster University, Hamilton, Canada; 3 Poison Control Center, New York, United States

256 Fatal liver failure after therapeutic doses of paracetamol in a Duchenne patient: a case report
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1 Norwegian National Unit for CBRNE Medicine, Department of Acute Medicine, Oslo University Hospital, Oslo, Norway; 2 Center for Psychopharmacology, Diakonhjemmet Hospital, Oslo, Norway
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Department of Clinical Toxicology, Klinikum rechts der Isar, Technical University of Munich, Munich, Germany

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Muhammad Masood Khalid¹, Matthew Ognibene², Michael I Greenberg¹
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Department of Emergency Medicine, Drexel University College of Medicine, Philadelphia, United States

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Rana Biary¹, Li Li², Robert S Hoffman¹
¹ Ronald O Perelman Department of Emergency Medicine, NYU Langone Medical Center, NYU/Bellevue/NYPCC, New York, United States; ² New York City Poison Control Center, New York, United States

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Terhi Lampinen
Poison Information Centre, HUH Emergency Medicine and Services, University of Helsinki and Helsinki University Hospital, Helsinki, Finland

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Toxicological Department, Klinikum rechts der Isar, Technical University of Munich, Munich, Germany

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Monica Noori 1, Robert Hendrickson 2, Benjamin Hatten 3
1 Denver Health Residency in Emergency Medicine, Denver Health Medical Center; On behalf of the Toxicology Investigators Consortium (ToxIC), Denver, United States; 2 Department of Emergency Medicine, Oregon Health and Science University, Portland, United States; 3 Department of Emergency Medicine, University of Colorado School of Medicine, Aurora, United States

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1 Poisons Information Center, Center for Pediatrics, Medical Center – University of Freiburg, Freiburg, Germany; 2 Department of Internal Medicine, Krankenhaus Vaihingen, Vaihingen, Germany; 3 Institute of Forensic Medicine, Forensic Toxicology, Medical Center – University of Freiburg, Freiburg, Germany
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Kinga Bartecka-Mino, Angelika Holzer, Ursula Schreiner, Tara Arif

Poisons Information Centre, Vienna, Austria

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Poisonous smoothie: acute gastroenteritis from crushed cherimoya seeds

Nadja Struß¹, Gabriele Schulze², Annette Groeneveld², Martin Ebbecke²

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Taxus baccata (yew) intoxication treated with sodium bicarbonate and lipid emulsion

Ludovico Lanfranchi, Marta Crevani, Valeria M Petrolini, Sarah Vecchio, Davide Lonati, Mara Garbi, Carlo A Locatelli

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Food-borne botulism, initially mistaken for plant intoxication

Henneke N Mulder-Spijkerboer¹, Marieke A Dijkman¹, Dylan W De Lange², Irma De Vries¹

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A unique case report of a family exposed to amatoxin from foraged mushrooms including a breast-feeding mother and infant

Stephanie Hernandez¹, Joseph Rella², David Warren³, Joshua Nogar⁴, Rachel Shively⁴

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Amanita phalloides poisoning: effectiveness of timely administration of antidotes

Apostolos Foutris, Angeliki Kalostou, Eleni Basanou, Kostas Fountas, Vassiliki Sofidiotou, Vassiliki Touloupaki, Polyxeni Neou

Greek Poison Centre, “P & A Kyriakou” Children’s Hospital, Athens, Greece

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Rachel H Jonas¹, Sally M Bradberry², Euan A Sandilands³, Simon HL Thomas⁴, John P Thompson¹  
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Patrick Tomeny¹, Justin Arnold², Neha Reddy³, William Rushton²  
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APHM, Hôpitaux Sud, Pharmacologie Clinique CAP-TV, Marseille, France

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Amatoxin poisoning: a 30-year retrospective analysis and evaluation of 153 patients  
Cecilia Baccaro¹, Francesco Gambassi¹, Alessandra Ieri¹, Cecilia Lanzi¹, Guido Mannaioni¹, Andrea Missanelli¹, Brunella Occupati¹, Emanuela Masini¹²  
¹ Medical Toxicology Unit-Poisons Control Center, Azienda Ospedaliero Universitaria Careggi, Florence, Italy; ² Department of Neurosciences, Psychology, Drug Research and Child Health, University of Florence, Florence, Italy

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A significant portion of moderate to severe courses after ingestion of mushrooms is caused by inadequately stored or prepared edible mushrooms  
Uwe Stedtler, Maren Hermanns-Clausen  
Poisons Centre, Center for Pediatrics, Medical Center – University of Freiburg, Freiburg, Germany

* Included in poster round 13:30 to 14:00 hrs
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Regional ileitis as a non-specific symptom of Boletus species poisoning
Ruben Goncalves¹, Françoise Giraud¹, Laurie Cordier², Olivier Ely³, Magali Labadie¹
¹University Hospital, Poison Control Center, Bordeaux, France; ²University Hospital, Poison Control Center, Toulouse, France; ³Emergency Department, Périgueux, France

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Accidental fatal poisoning with Colchicum autumnale due to mistaken identification: a case report
Ruth Kastanje, Aet Variksoo
Poison Information Centre, Tallinn, Estonia

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Rhabdomyolysis associated with mushroom poisoning: clinical characteristics and outcomes
Satariya Trakulsrichai ¹,², Peerawich Jeeratheepatanont ¹, Sunun Wongvisavakorn ², Charuwan Sriapha ², Achara Tongpoo ², Umaporn Udomsubpayakul ³, Winai Wananukul ²,⁴
¹Department of Emergency Medicine, Faculty of Medicine Ramathibodi Hospital, Bangkok, Thailand; ²Ramathibodi Poison Center, Faculty of Medicine Ramathibodi Hospital, Bangkok, Thailand; ³Section for Clinical Epidemiology and Biostatistics, Research Center, Faculty of Medicine Ramathibodi Hospital, Bangkok, Thailand; ⁴Department of Medicine, Faculty of Medicine Ramathibodi Hospital, Bangkok, Thailand
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National Pediatric Poisoning Centre, Emergency Clinical Hospital for Children Grigore Alexandrescu Bucharest and ASOCIATIA TOXAPEL
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<td><strong>08:00-09:00</strong></td>
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<td><strong>New Psychoactive Substances (NPS) Orals and Short Orals</strong></td>
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<td><strong>Drug-Induced Organ Failure Symposium</strong></td>
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