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GENERAL INFORMATION

The 43rd Congress of the European Association of Poisons Centers and Clinical Toxicologists (EAPCCT) has been organized by the following committees:

EAPCCT SCIENTIFIC AND MEETINGS COMMITTEE

- Lotte Høgberg (Chair of the Scientific and Meetings Committee)
- Maren Hermanns-Clausen (Vice-chair / Chair-elect)
- Ana Ferrer Dufol (EAPCCT President)
- Laura Hondebrink (General Secretary)
- Lonati Davide (Treasurer)
- Horst Thiermann (Immediate Past President)
- Paul Dargan (President-elect)
- Nicola Bates (Abstracts Editor)
- Kurt Anseeuw
- Pardeep Jagpal
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- Anne-Marie Descamps

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- Christopher Hoyte (President AACT)
- Louise Kao (President ACMT)
- Hossein Hassanian-Moghaddam (APAMT Scientific Organising Committee)
- Carol DesLauriers (President AAPCC)
- Robert S Hoffman (Co-Editor-in-Chief, Clinical Toxicology)
- J. Allister Vale (Co-Editor-in-Chief, Clinical Toxicology)

CONGRESS SECRETARIAT

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SOCIAL PROGRAMME

WELCOME RECEPTION

WEDNESDAY 24TH MAY 2023 - 19:00h
The Welcome Reception will be held at the Bellver Castle on Wednesday 24th May 2023 from 19:00h to 21:00h.

With the collaboration of the Ajuntament of Palma

The Bellver Castle is located close to the Congress venue. It can be reached on foot within 15 minutes from the venue. Bus service will be offered.

CONFERENCE DINNER

FRIDAY 26TH MAY 2023 - 20:00 to 23:00 hrs
The strategic location of the building is excellent because it is in the center of the city, close to the highways that connect the east and west parts of the Island.
You will enjoy a typical Majorquian menú with the beautiful view from the rooftop of the auditorium.

More information: www.eapcct2023.com

ACCREDITATION

The application has been approved to the UEMS EACCME® for CME accreditation for this event.
The congress has been granted 22 European CME credits (ECMEC®s) by the European Accreditation Council for Continuing Medical Education (EACCME®).

NAME BADGE

Each delegate will receive a name badge when they register. This must be worn during the Congress to gain entry to the lecture theatres, the dining hall (lunches) and at the Welcome Reception.
Registered accompanying persons will also receive a name badge, which they must wear at the Welcome Reception and during lunch if they have been booked.
Pre-Congress Tuesday 23rd May 2023

Toxic effects at therapeutic doses
TUESDAY 23rd MAY 2023

SALA MOZART

09:00-16:50  Precongress Symposium: Toxic effects at therapeutic doses

09:00-09:10  WELCOME & OPENING OF THE PRECONGRESS SYMPOSIUM
Moderator: Florian Eyer & Bruno Mégarbane

The frontiers between pharmacology and toxicology
[10 min]
Davide Lonati, Pavia, Italy

At the end of this session, the audience should be able to:
• Explain differences between pharmacologists and toxicologist in the modern era.
During the presentations some clinical cases will be presented and discussed.

09:10-10:40  SECTION 1
Moderators: Florian Eyer & Bruno Mégarbane

09:10-09:40  Toxicity at therapeutic doses: should we still consider it as idiosyncratic?
[30 min]
Kim Dalhoff, Copenhagen, Denmark

09:40-10:10  Opioid analgesics: Did painkiller use cause an epidemic of fatalities?
[30 min]
Rick Dart, Denver, CO, USA

10:10-10:40  Drug toxicity from pharmaceutical production processes
[30 min]
Mark Zammit, Msida, Malta

At the end of this session, the audience should be able to:
• Learn several ways to be poisoned after intake of a therapeutic medical drug dose.
• Understand drug toxicities from pharmaceutical production processes especially in relation to contaminants of such processes.
• Understand the effect of prescription opioids on substance use.
• Understand the effect of prescription opioids on drug-related mortality.
• Understand the societal impacts beyond mortality.

11:00-12:30  SECTION 2
Moderators: Kim Dalhoff & Robin Ferner

11:00-11:30  Acetaminophen use during pregnancy: is it dangerous?
[30 min]
Ruben Thanacoody, Newcastle, UK

11:30-12:00  Toxic hazards in pediatrics
[30 min]
Lidia Martinez-Sanchez, Barcelona, Spain

12:00-12:30  Toxic hazards in geriatrics
[30 min]
Azzurra Schicchi, Pavia, Italy

At the end of this session, the audience should be able to:
• Discuss the epidemiological evidence that paracetamol exposure during pregnancy is harmful to the fetus.
• Discuss the most frequent toxic effects at therapeutic doses in pediatrics.
• Point out the mechanisms of toxicity and common exposure scenarios of poisonings in older adults. Furthermore
• Give several examples of poisoning prevention strategies to reduce the number of poisonings in the elderly.
13:30-15:30

SECTION 3
Moderators: Ruben Thanacoody & Rick Dart

13:30-14:00 Therapeutic serotonergic agents: Is it serotonin toxicity?
[30 min]
Angela Chiew, New South Wales, Australia

14:00-14:30 Chronic lithium overdose: particularities of management and outcome
[30 min]
Dominique Vodovar, Poison Control Center Paris, France

14:30-15:00 Neuroleptic malignant syndrome in patients treated with antipsychotic drugs: is it predictable and preventable?
[30 min]
Florian Eyer, Munich, Germany

15:00-15:30 Metformin-associated versus metformin-induced lactic acidosis: is this differentiation relevant in practice?
[30 min]
Bruno Mégarbane, Paris, France

At the end of this session, the audience should be able to:
• Describe the clinical features and diagnosis of serotonin toxicity.
• Discuss the incidence of serotonin toxicity with therapeutic serotonergic agent use.
• Understand the specificity of chronic lithium salt poisonings compared to acute and acute-on-chronic poisonings.
• Understand the specificity of the management of chronic lithium poisoning - know the prognosis of chronic lithium poisoning
• Know and understand the epidemiological aspects and clinical manifestations of NMS, associated medications, possible risk factors and treatment options.
• To understand the toxic consequences of metformin overdose
• To know the differences in presentation and outcome between metformin-associated and metformin-induced lactic acidosis
• To acknowledge the indications and effectiveness of extracorporeal elimination enhancement of metformin

15:30-15:50 COFFEE BREAK

15:50-17:20 SECTION 4
Moderators: Angela Chiew & Mark Zammit

15:50-16:20 Therapeutic errors and toxicities from COVID-19 vaccines
[30 min]
Euan A Sandilands, Edinburgh, UK

16:20-17:00 Pharmacogenetic testing for everyone to prevent toxicities at therapeutic doses:
Pro/Con debate
[30 min]
PRO: Alexander Jetter, Zürich, Switzerland
CON: Robin Ferner, Birmingham, UK

At the end of this session, the audience should be able to:
• Provide an overview of the COVID-19 vaccines available in the UK, focussing on adverse effects associated with therapeutic use and poison centre data regarding overdose.
• Be informed about arguments for and against pre-emptive pharmacogenetic testing for everyone.
• Understand the many factors that predispose people to adverse drug reactions, summarised as GASPED - Genetic, Age, Sex, Physiological differences, Exogenous factors including drugs, and Diseases.
WEDNESDAY 24th MAY 2023

SALA MAGNA

08:30-08:40 WELCOME DAY 1 AND OPENING OF THE 43rd EAPCCT CONGRESS
Moderators: Ana Ferrer Dufol & Lotte Høgberg

08:40-10:40 SYMPOSIUM: TOXICOLOGICAL ASPECTS OF WAR AND WARFARE
Moderators: Dirk Steinritz & Martin Wilks

08:40-09:20 PLENARY LECTURE: Preparedness for the Coming Radiation Disaster (Lessons Learning from Hiroshima and Fukushima)
[40 min]
Nobuyuki Hirohashi, Hiroshima, Japan

09:20-10:00 PLENARY LECTURE: Toxicological aspects of war and warfare: the war in Ukraine
[40 min]
Mykola Prodanchuk, Kyiv, Ukraine

10:00-10:20 Poisoning with cholinesterase inhibitors
[20 min]
Niko Amend, Munich, Germany

10:20-10:40 Sulfur mustard poisoning - case report
[20 min]
Kai Kehe, Munich, Germany

At the end of this session, the audience should be able to:
• Explain why, although radiation disaster is rare, the knowledge and skills needed to respond to it are easily lost and why we should learn from history and plan for continuing education and training
• Understand the new challenges of war for clinical toxicologists and poison control centres.
• Describe the tasks of a toxicology centre during the war.
• Discuss the signs and symptoms of cholinesterase inhibitor poisoning, current therapeutic concepts and novel treatment approaches.
• Give an overview about typical symptoms of sulfur mustard poisoning illustrated by a case report.

10:40-11:20 COFFEE AND AUTHORS WITH POSTERS

SALA MAGNA

11:20-13:00 SYMPOSIUM: TOXIC TRAUMA – SPECIAL CONSIDERATIONS, INCLUDING: RISK OF SECONDARY EXPOSURE FOR MEDICAL PROFESSIONALS HELPING INTOXICATED PATIENTS AND TOXICOLOGY IN THE PREHOSPITAL SETTING AND EMS.
Moderators: Horst Thiermann & David Wood

[20 min]
Paul Dargan, London, UK

11:40-12:00 Intoxicated trauma patient!
[20 min]
Dirk Steinritz, Munich, Germany

12:00-12:20 CBRN injuries, mass casualty intoxications
[20 min]
Steve Emmett, Salisbury, UK
12:20-12:40  Secondary chemical exposure of ambulance staff
[20 min]
Ronald de Groot, Utrecht, The Netherlands
12:40-13:00  Laboratory verification of exposure to chemical warfare agents based on mass spectrometric analysis of persistent biomarkers in biomedical samples
[20 min]
Daan Noort, Den Haag, The Netherlands

At the end of this session, the audience should be able to:
• Understand the clinical presentation of Polonium-210 toxicity in the 2016 London case.
• Be aware of significant disparities between C-B-RN situations,
• Be familiar with general treatment and decontamination techniques,
• Be informed of the difficulties associated with trauma injuries in CBRN scenarios.
• Recognise the symptoms and signs of organophosphate nerve agent exposures,
• Understand detection techniques and treatment options
• Explain the limited risk for ambulance staff when treating or transporting a chemically contaminated patient and describe the measures that can be taken to minimise exposure.
• Give an introduction into the forensic analysis of biomedical samples of victims of incidents with chemical warfare agents

SALA MAGNA

14:15-15:15   ORAL PLATFORM: ORAL PRESENTATIONS 1
Moderators: Kurt Anseeuw & Ophir Lavon

14:15-14:30  Don’t shoot the messenger: an outbreak of lead poisoning at a UK firing range
[15 min] Abstract #2 / Shortlisted for T&F Prize Best Oral Presentation
Aamna Warsi, Birmingham, UK

14:30-14:45  Inadvertent instillation of electronic cigarette liquid into the eyes
[15 min] Abstract #3
Ella Edwards, Cardiff, UK

14:45-15:00  Massive follow-up by short message service (SMS) of patients calling the French poison control centers (PCCs): a retrospective bicentric study
[15 min] Abstract #4
Dominique Vodovar, Paris, France

15:00-15:15  N-acetylcysteine reduces acetaldehyde levels in binge alcohol drinking
[15 min] Abstract #5
Miran Brvar, Ljubljana, Slovenia

SALA MAGNA

14:45-17:30   SYMPOSIUM: LESSONS LEARNED FROM LARGER EMERGENCIES  (CHEMICAL SPILLS, WARFARE ETC)
Moderators: Fridtjof Heyerdahl & Dirk Steinritz

15:45-15:50  Introduction to the symposium and summary of emergency day
[5 min]
Moderators

15:50-16:10  Diagnostic opportunities after large scale exposure to nuclear detonations and radiological military or terrorist attacks.
[20 min]
Matthias Port, Munich, Germany
16:10-16:30 Overview of the major food-borne toxic epidemics: From the Spanish Toxic Oil Syndrome to the major pesticide outbreaks
[20 min]
Ana Ferrer-Dufol, Zargoza, Spain

16:30-16:50 Control of toxic emissions and health risk prevention in the La Palma Volcano outbreak
[20 min]
Guillermo Burillo, Canary Islands, Spain

16:50-17:10 Management of chemical industrial accidents
[20 min]
Alex Harding, Huston, Texas USA

17:10-17:30 Opioids - naloxone pharmacokinetics – implications
[20 min]
Luke Yip, Denver, USA

At the end of this session, the audience should be able to:
- Outline what diagnostic opportunities are available to triage or diagnosed irradiated victims.
- Detail past foodborne toxic epidemics and outline strategies for prevention and containment of such occurrences.
- Discuss unique challenges and considerations in the management of large-scale industrial accidents.
- Discuss demographics and outcomes of industrial accidents.
- Reference several specific incidents in demonstrating key points about industrial accident management.
- To know the Current situation (History of the La Palma Volcano, Detected gases and health effects, Health actions in the population).

17:30 END OF SCIENTIFIC PROGRAMME CONGRESS DAY 1

19:00 WELCOME RECEPTION AT BELLVER CASTLE

18:45 SERVICE OF BUSES FOR THE WELCOME RECEPTION

SALA MOZART

08:30-10:40 NO PARALLEL SESSION

10:40-11:20 COFFEE AND AUTHORS WITH POSTERS

SALA MOZART

11:20-13:00 SYMPOSIUM: CORE CONTENT OF MEDICAL TOXICOLOGY (DIFFERENCES BETWEEN EU COUNTRIES OR BETWEEN EU AND OTHER COUNTRIES)
Moderators: Davide Lonati & Ruben Thanacoody

11:20-11:35 Medical toxicology contribution to policy decisions to protect human health
[15 min]
Irina Zastenskaya, Bonn, Germany

11:35-11:50 Training in clinical toxicology: an Italian experience
[15 min]
Carlo Locatelli, Pavia, Italy

11:50-12:05 Teaching pharmacotoxicology in a small island state
[15 min]
Janet Mifsud, Msida, Malta

12:05-12:20 SPI Training – a UK Perspective
[15 min]
Pardeep Jagpal, Birmingham, UK
12:20-12:35  The educational program of toxicology in Australia
[15 min]
Darren Roberts, Sydney, Australia

12:35-12:50  Postgraduate Diploma in Medical Toxicology: a first for Africa
[15 min] Abstract #1
Catharina Elizabeth Du Plessis, Cape Town, South Africa

12:50-13:00  Discussion time
[10 min]
Moderators

At the end of this session, the audience should be able to:
• Understand the range of activities used for training medical toxicologists in Australia.
• Understand the challenges of being trained as a Specialist in Poisons Information to work independently in a poison centre.
• Recognise the different approaches that can be implemented when training new SPIs.
• Understand that beyond initial training, we are all always learning.
• Evaluate educational pathways.
• Highlight key education needs in clinical toxicology.
• Outline the place of medical toxicology has in WHO mandates and actions, and the various means by which its roles could be enhanced in various spheres of activity through collaboration with the WHO Regional Office for Europe.
• Be aware about: WHO activities in toxicology, previous assistance and support in a future that is expected.

13:00-13:45  LUNCH

13:45-14:15  AUTHORS WITH POSTERS

SALA MOZART

14:15-15:15  SYMPOSIUM: MEDITERRANEAN MARINE TOXICOLOGY
Moderators: Régis Bedry & Lotte Høgberg

14:15-14:40  The Mediterranean Sea and the Red Sea: origins, oceanography, climate: past, present, future
[25 min]
Nadia Sénéchal, Bordeaux, France

14:40-15:05  The Suez Canal: what are the risks
[25 min]
Régis Bedry, Bordeaux, France

15:05-15:15  Envenomation from non-indigenous marine species or native invaders of Mediterranean Sea: case-series from Pavia Poison Control Centre.
[10 min] Abstract 006
Giulia Scaravaggi, Pavia, Italy

At the end of this session, the audience should be able to:
• Recognise that several natural and human factors contribute to the constitution and recent increase of the Lessepsian invasion and alien species in the Mediterranean Sea.
• Understand the hydrographic characteristics of these environments that are more advantageous to Red Sea species compared to Mediterranean species.
• Give the basic elements on the role of human factors in this invasion and finally to draw the trajectory of the system in the context of the climate change.
• Know what are the invasive marine species involved in the health risks
• Diagnose the intoxications linked to these marine invaders
• Prepare PC and emergency departments to recognise and treat these new intoxications.
**15:15-15:45**  COFFEE AND AUTHORS WITH POSTERS

**SALA MOZART**

**15:45-17:30**  SYMPOSIUM CONT.: MEDITERRANEAN MARINE TOXICOLOGY & ORAL PLATFORM: ORAL PRESENTATIONS 2  
Moderators: Lotte Høgberg & Dabor Réšière

15:45-16:10  Venomous jelly fish in the Mediterranean sea - invasive and native, their blooming and climate change impacts)  
[25 min]  
Azzurra Schicchi, Pavia, Italy

16:10-16:30  Experience of the French PC  
[20 min]  
Luc De Haro, Marseille, France

16:30-16:50  Imported species and blind passenger – what to do when your poison center gets the call?!  
[20 min]  
Sophie Gosselin, Montreal, Canada

16:50-17:00h  Discussion  
[10min]

17:00-17:15  A randomised controlled trial of antivenom for red-bellied black snake envenoming  
[15 min]  Abstract #7 / Shortlisted for T&F Prize Best Oral Presentation  
Geoffrey K Isbister, Newcastle, Australia

17:15-17:30  What drives the risks of being bitten by a viper? A fine spatial scale study in western France  
[15 min]  Abstract #8  
Gaël Le Roux, Angers, France

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

• Understand that the marine toxins are good indicator of the impact in marine biotopes of global warming, and because of its geographical particularities the Mediterranean Sea is one of the areas most affected by changes due by global warming.

• Understand that the work of clinical toxicologists is directly impacted by these upheavals: new forms of poisoning, new toxic species, new patients to be treated ... and it is only the beginning.

• Be aware of the most diffused jellyfish in the mediterranean sea and the clinical consequence of their sting. Additionally, all the possible new problems due to invasive species will be evaluated from a clinical point of view, considering the future risks due to climate changes.

• Devise a plan to obtain sound information on bites and stings from imported species sustained by a returning travellers

**17:30**  END OF SCIENTIFIC PROGRAMME CONGRESS DAY 1

**19:00**  WELCOME RECEPTION AT BELLVER CASTLE.

**18:45**  SERVICE OF BUSES FOR THE WELCOME RECEPTION.
THURSDAY 25th MAY 2023

SALA MAGNA

09:00-10:15  YOUNG INVESTIGATORS AWARD (YIA)
Moderators: Knut Erik Hovda & Raido Paasma

09:00-09:05  Welcome and Introduction
[5 min]
Moderators

09:05-09:20  Performance of the ICU requirement score (IRS) in predicting the need for ICU admission of intoxicated adult patients: the INTOXICATE study
[15 min] Abstract #82
Samanta M Zwaag, Utrecht, Netherlands

09:20-09:35  The Emerging Cloud: a survey of vapers, their health, and the associated burden on the UK health system
[15 min] Abstract #83
Lachlan J Sund, London, UK

09:35-09:50  Clinical characterization and prognosis outcomes of carbon monoxide poisoning in Spain. The AMICO study
[15 min] Abstract #84
Antonio F Caballero-Bermejo, Madrid, Spain

09:50-10:10  Toxicological consequences of mass tourism
[20 min]
Chris Yates, Palma de Mallorca, Spain

10:10-10:15  Presentation to the winner of the Young Investigator Award
[5 min]
Moderators

10:15-11:00  COFFEE AND AUTHORS WITH POSTERS

SALA MAGNA

11:00-12:50  SYMPOSIUM: NEW ANTIDOTES AND OLD ANTIDOTE FOR NEW TOXINS
Moderators: Yvonne Lao & Evangelia Liakoni

11:00-11:20  Modulation of nicotinic receptor function – an innovative approach for recovery of paralyzed muscle function during cholinergic crisis
[20 min]
Horst Thiermann, Munich, Germany

11:20-11:40  Fomepizole as a treatment for paracetamol overdose
[20 min]
James Dear, London, UK

11:40-12:00  Reversal of direct oral anticoagulation: is there a role for specific antidotes?
[20 min]
Elias Bekka, Bern, Switzerland

12:00-12:20  Uridine triacetate for 5-FU and capecitabine toxicity
[20 min]
Colette Degrandi, Zurich, Switzerland

12:20-12:35  Improving prognosis in Amanita phalloides intoxication – are two antidotes needed?
[15 min] Abstract #85
Daniela Pelclova, Prague, Czech Republic

12:35-12:50  Rivastigmine for the management of anticholinergic delirium: a case series
[15 min] Abstract #86
Angela L Chiew, Randwick, Australia
At the end of this session, the audience should be able to:

- Understand that modulation of the nicotinic receptor is a rational approach to antagonize the neuromuscular paralysis induced by organophosphorus compounds.
- Understand the theoretical value of fomepizole as an antidote for paracetamol overdose.
- Discuss the role of specific and non-specific reversal agents in different contexts of DOAC-associated bleeding and DOAC overdose.
- Describe the mechanism of action and potential applications of uridine triacetate.

12:50-13:35   LUNCH

13:35-14:05   AUTHORS WITH POSTERS

SALA MAGNA

14:05-16:00   SYMPOSIUM: MONITORING OF NEW PSYCHOACTIVE SUBSTANCES (NPS) INCLUDING: TOXICOVIGILANCE - COMMUNICATIONS/LINKS TO OTHER NATIONAL/EUROPEAN BODIES
Moderators: Maren Hermanns-Clausen & David Wood

14:05-14:25 Drug Monitoring in Europe: Recent developments and novel monitoring tools
[20 min]
Isabelle Giraudon, Lisbon, Portugal

14:25-14:35 Poisons Centre Monitoring of NPS
[10 min]
Laura Hondebrink, Utrecht, The Netherlands

14:35-14:55 NPS Monitoring in Australia: Recent developments and novel monitoring tools
[20 min]
Shaun Greene, Melbourne, Australia

14:55-15:10 The EU Early Warning System on new psychoactive substances: 25 years of early warning and response in Europe
[15 min] Abstract #88
Joanna De Morais, Lisbon, Portugal

15:10-15:25 Drug Checking Services for people who use drugs - NPS market monitoring & harm reduction
[15 min]
Laura Smit-Rigter, Utrecht, The Netherlands

15:25-15:40 ChemSex context and substance abuse: a case series
[15 min] Abstract #89
Lucia Bernasconi, Pavia, Italy

15:40-16:00 Monitoring of NPS in patient blood samples: machine-learning combined with activity-based bioassays
[20 min]
Christophe Stove, Ghent, Belgium
At the end of this session, the audience should be able to:
• Learn more about how NPS markets are currently being monitored in the Netherlands and how warnings are being issued once an extra hazardous substance has been detected.
• Describe the unique monitoring aspects of a multi-disciplinary network of hospitals and health care professionals that enable the rapid translation of acute bedside toxicology into harm reduction interventions within the wider community.
• To be able to tell what activity-based screening entail.
• To know the potential role that may be played by activity-based testing for toxicology screening purposes.
• To know how activity-based testing may contribute to a better understanding of the toxicity of new psychoactive substances and the role played by these substances in intoxications.
• To learn about Drug monitoring in Europe, coordinated by the EMCDDA together with the Reitox network of National Focal Points, and to learn about the recent developments and novel monitoring tools.

16:00-16:30 COFFEE AND AUTHORS WITH POSTERS

SALA MAGNA

16:30-17:15 ORAL PLATFORM: ORAL PRESENTATIONS
&
17:15 -17:45 NEWS FROM THE WORKGROUPS: UPDATE FROM THE COLLABORATIVE WORKGROUP GROUP
Moderators: Pardeep Jagpal & Irma de Vries

16:30-16:45 From heroin to prescription opioids: opioid poisoning in Australia over the last three decades
[15 min] Abstract #91 / Shortlisted for T&F Prize Best Oral Presentation
Katherine Isoardi, Brisbane, Australia

16:45-17:00 Naloxone requirements of confirmed para-fluorofentanyl exposures in emergency department patients with illicit opioid overdose
[15 min] Abstract #92
Rachel E Culbreth, Phoenix, USA

17:00 -17:15 Illicit substance use requiring chemical sedation: a prospective cohort study of 1125 patients presenting to Emergency Departments with analytically confirmed psychoactive substance exposure
[15 min] Abstract #93
Sarah Hodgson, Melbourne, Australia

17:15-17:45 Tox collaborative introduction
[5 min]
Chris Yates, Palma de Mallorca, Spain

17:35-17:45 QT
[10 min]
Ingrid Berling, New South Wales, Australia

17:45-17:55 Paracetamol
[10 min]
Angela Chiew, New South Wales, Australia

At the end of this session, the audience should be able to:
• Outline the progress and findings of the Toxicology Collaborative’s work on QT / Paracetamol
17:55 END OF SCIENTIFIC PROGRAMME CONGRESS DAY 2

18:00 EAPCCT GENERAL ASSEMBLY IN SALA MOZART

SALA MOZART

09:00-10:15 NO PARALLEL SESSION

10:15-11:00 COFFEE AND AUTHORS WITH POSTERS

SALA MOZART

11:00-12:50 SYMPOSIUM: BOTULISM
Moderators: Maren Hermanns-Clausen & Thomas Zilker

11:00-11:15 Botulism - historic input introduction: Justinus Kerner: Scientist, poet and visionary
[15 min]
Thomas Zilker, Munich, Germany

11:15-11:35 Botulinum toxins and their toxicological mechanism
[20 min]
Mandy Knüpfer, Munich, Germany

11:35-11:55 Challenges and recent progress in the detection of botulinum neurotoxins
[20 min]
Brigitte Dorner, Berlin, Germany

11:55-12:15 Botulism: Clinical features and therapy
[20 min]
David Steindl, Charité Berlin, Germany

12:15-12:35 Infant botulism: Special challenge in diagnostics and therapy
[20 min]
Davide Lonati, Pavia, Italy

12:35-12:50 Emergency provision of botulism-antitoxin-heptavalent serum throughout the National Health System: the Italian experience of the National Antidotes Stockpile
[15 min] Abstract #87
Guilia Scaravaggi, Pavia, Italy

At the end of this session, the audience should be able to:
• Understand Botulinum toxins, their structure and mechanisms of action.
• Understand the clinical findings of botulism in adults and summarize the clinical management and recommended treatment options.
• Understand botulinum neurotoxins as a highly diverse group of molecules and to identify suitable detection approaches with their individual pros and cons.
• Know the history of Justinus Kerner, German poet and physician and his contribution to our understanding of Botulism.
• Infant botulism is a rare intoxication involving infant with age lower than 1 year. Scientifica data showed a real underreporting of this intoxication. During the presentations some clinical cases will be presented and discussed alco about different treatment approach.

12:50-13:35 LUNCH

13:35-14:05 AUTHORS WITH POSTERS
**SYMPOSIUM: THE MITOCHONDRIA IN TOXICOLOGY**

**Moderators:** Davide Lonati & Tonny Studsgaard

14:05-14:25  Mitochondrial toxicology exemplified in Wilson disease  
[20 min]  
Hans Zischka, Munich-Neuherberg, Germany

14:25-14:45  Emerging mitochondrial mechanisms mediating drug-induced cardiotoxicity  
[20 min]  
Peter de Paepe, Ghent, Belgium

14:45-15:05  Hepatotoxicity in fatty liver disease linked to obesity: role of mitochondrial dysfunction induced by different xenobiotics  
[20 min]  
Bernard Fromenty, Rennes, France

15:05-15:25  Mitochondrial disorders in propofol-related infusion syndrome  
[20 min]  
Dylan de Lange, Utrecht, The Netherlands

15:25-15:45  Glyoxylate and small redox molecules to rescue mitochondrial toxicity  
[20 min]  
Randall T. Peterson, Salt Lake City, Utah, USA

15:45-16:00  Acute tolfenpyrad poisoning reported to Taiwan National Poison Center: a case series  
[15 min] Abstract #90  
Nai-Yu Chen, Taipei City, Taiwan

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

- Know that Mitochondrial damage in human disease is not uniform.
- Unravelling the damaging mechanisms is key to develop targeted treatments.
- Understand the basic principles of mitochondrial mechanisms mediating drug-induced cardiotoxicity.
- Understand the pathophysiological mechanism of propofol-induced mitochondrial dysfunction.
- Become familiar with the metabolic perturbations caused by cyanide poisoning and learn how cyanide toxicity can be rescued in animal models by modulating mitochondrial redox balance.
- Explain how mitochondria differ, how mitochondrial damage occurs and why it is not uniform, and discuss why therapeutic approaches need to take the specific mode of damaging events into account.

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**ORAL PLATFORM: ORAL AND SHORT ORAL PRESENTATIONS**

**Moderators:** Betty Chan & Katrin Faber

16:30-16:45  Sodium nitrite: an emerging public health concern in the United Kingdom  
[15 min] Abstract #94  
Ella Edwards, Cardiff, UK

16:45-17:00  Collaborative public health responses to suicide prevention: sodium nitrite  
[15 min] Abstract #95  
Jared Brown, Sydney, Australia

17:00-17:15  Insulin kinetics in high dose insulin therapy – a human randomized controlled trial  
[15 min] Abstract #178  
Søren Bøgevig, Copenhagen, Denmark
17:15-17:25  Accidental clozapine ingestions are of concern
[10 min] Abstract #96
Colette Degrandi, Zurich, Switzerland

17:25-17:35  Randomized crossover study comparing the pharmacokinetics of two different
nicotine salt concentrations and free-base nicotine using an open vape pod system
[10 min] Abstract #98 / Shortlisted for T&F Prize Best Oral Presentation Samuel
Christen, Bern, Switzerland

17:35-17:45  Variation in sensitivity to diethylene glycol poisoning can be explained by variation
in tissue DGA uptake due to expressional differences in dicarboxylate transporters
[10 min] Abstract #99
Kenneth McMartin, Shreveport, USA

17:45-17:55  Quetiapine overdose, good or bad, or just more of the same?
[10 min] Abstract #100
Geoffrey K Isbister, Newcastle, Australia

17:55  END OF SCIENTIFIC PROGRAMME CONGRESS DAY 2

18:00  EAPCCT GENERAL ASSEMBLY
MAIN CONGRESS

Friday 26th May 2023
FRIDAY 26th MAY 2023

SALA MAGNA

09:00-10:05  SPECIAL SESSION: LOUIS ROCHE LECTURE
Moderators: Ana Ferrer-Dufol

09:00-09:15  Introduction and presentation of the Louis Roche Lecturer
[15 min]
Ana Ferrer-Dufol, Zaragoza, Spain, EAPCCT President

09:15-10:00  You can check out any time you like - but you can never leave
[45 min]
Martin Wilks, Basel, Switzerland

At the end of this session, the audience should be able to:
• Discuss the potential role of changes to paraquat formulations in order to mitigate toxic effects after ingestion

10:00-10:05  Time to move from plenary to parallel sessions

SALA MAGNA

10:05-11:05  ORAL PLATFORM: ORAL PRESENTATIONS 4
Moderators: Sally Bradberry & Bob Hoffman

10:05-10:20  Addictive potential of recreational nitrous oxide use
[15 min] Abstract #174
Laura Hondebrink, Utrecht, The Netherlands

10:20-10:35  Gamma-hydroxybutyrate (GHB) withdrawal syndrome treated with GHB: the use of sodium oxybate in GHB-dependence
[15 min] Abstract #175
Søren Bøgevig, Copenhagen, Denmark

10:35-10:50  Co-exposure to gamma-hydroxybutyrate (GHB) attenuates stimulant effects of methamphetamine to a greater degree than co-exposure to benzodiazepines
[15 min] Abstract #176
Shaun Greene, Melbourne, Australia

10:50-11:05  Investigation of differences in the neurorespiratory effects after oral administration of γ-hydroxybutyrate versus γ-butyrolactone with a pharmacokinetic modelling approach in the rat
[15 min] Abstract #177
Bruno Mégarbane, Paris, France

11:05-11:35  COFFEE AND AUTHORS WITH POSTERS
11:35-12:55 SYMPOSIUM: MENTAL WELLNESS AND RESILIENCE OF CLINICAL TOXICOLOGISTS AND POISON CENTRE STAFF SYMPOSIUM
Moderators: Alex Campbell & Sophie Gosselin

11:35-11:40 Introduction to the session
[5 min]
Chris Hoyte, Denver, USA

11:40-11:55 Take care of yourself in order to be able to take care of others
[15 min]
Ana Serrano, Zaragoza, Spain

11:55-12:10 Diversity, Equity, and Inclusion: Why It Matters To Toxicology
[15 min]
Garry Winkler, Houston-Texas USA

12:10-12:35 Depression, Burnout and Suicide: Well-being for Toxicologists
[25 min]
Greg Carter, Newcastle, Australia

12:35-13:00 Panel Discussion
[25 min]
Moderators and Speakers

At the end of this session, the audience should be able to:
• Identify risk factors of burnout for healthcare providers particularly as it relates to the specialty of toxicology.
• Recognise the symptoms and signs of burnout in toxicology clinicians and understand the basic principles of prevention and treatment aimed at maintenance and or renewal of mental wellbeing.
• Identify the importance of Diversity, Equity, and Inclusion in the practice of Toxicology, both for patients and providers.
• Understand the importance of addressing this situation at two levels. The first level is based on psychoeducation in identifying warning signs of psychological distress and self-care, and the second level involves specialized services that provide specific attention through accompaniment and facilitation of stress management strategies.

12:55-13:40 LUNCH

13:40-14:10 AUTHORS WITH POSTERS

SALA MAGNA

14:10-15:10 SPECIAL SESSION: CLINICAL CASE SESSION
Moderators: Paul Dargan & Lotte Høgberg

14:10-14:40 Gassed and off legs – not a laughing matter
[30 min]
Klara De Baerdemaeker, London, UK

14:40-15:10 Where to go – when the pressure drops
[30 min]
Søren Bøgevig, (Copenhagen, Denmark)

Panel: Ingrid Berling (Newcastle, Australia)
Bob Hoffman (New York, USA)
Kurt Anseeuw (Sint-Katelijne-Waver, Belgium)

At the end of this session, the audience should be able to:
• Understand the mechanisms of nitrous oxide related neuropathy
• Describe the management of nitrous oxide related neuropathy
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<thead>
<tr>
<th>Time</th>
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<tr>
<td>15:10-15:40</td>
<td>COFFEE AND AUTHORS WITH POSTERS</td>
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<td>15:40-16:40</td>
<td>SPECIAL SESSION: EAPCCT FELLOWS’ LECTURE</td>
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<td>Moderators: Rick Dart &amp; Allister Vale</td>
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<td></td>
<td>The US fentanyl epidemic: dynamics in supply, use and policy response</td>
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<td>Daniel Ciccarone, San Francisco, USA</td>
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<td>At the end of this session, the audience should be able to:</td>
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<td>• Describe the four waves of mortality in the 20-year US overdose crisis</td>
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<td>• Discuss changes in supply and how they related to fentanyl and polysubstance use</td>
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<td>• Identify policy and medical strategies to assist in reducing overdose deaths</td>
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<td>16:40</td>
<td>END OF SCIENTIFIC PROGRAMME CONGRESS DAY 3 &amp; CLOSING OF THE CONGRESS</td>
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<td>20:00</td>
<td>CONGRESS DINNER</td>
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<td>09:00-10:05</td>
<td>NO PARALLEL SESSION</td>
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<td>10:05-11:05</td>
<td>SPECIAL SESSION: BEST PAPER</td>
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<td>Moderators: Piotr Kabata &amp; Darren Roberts</td>
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<td>10:05-10:20</td>
<td>Paper 1</td>
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<td>Temporal trends in calls for suicide attempts to poison control centers in France during the COVID-19 pandemic: a nationwide study.</td>
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<td>Arjen Koppen, Utrecht, The Netherlands</td>
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<td>10:20-10:35</td>
<td>Paper 2</td>
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<td>Andexanet Alfa for Reversal of Factor Xa Inhibitors in Intracranial Hemorrhage: Observational Cohort Study.</td>
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<td>Rauch S, Müller HP, Dreyhaupt J, Ludolph AC, Kassubek J, Althaus K.</td>
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<td>Mark Pucci, Birmingham, UK</td>
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<td>10:35-10:50</td>
<td>Paper 3</td>
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<td>[15 min]</td>
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<td>Diagnosis, Management, and Prevention of Button Battery Ingestion in Childhood: A European Society for Paediatric Gastroenterology Hepatology and Nutrition Position Paper.</td>
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<td>Cathelijne Lyphout, Ghent, Belgium</td>
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ToxNet: an artificial intelligence designed for decision support for toxin prediction.
doi: 10.1080/15563650.2022.2144345. PMID: 36373611
Emma Morrison, Edinburgh, UK

At the end of this session, the audience should be able to:
- Identify the most important articles from recent years 2021-2023, picked by the speakers, that:
  - Most changed/challenged your practice, or taught you something completely new or unexpected
  - Most improved your understanding of toxicological mechanisms, or was most informative/inspiring regarding Poison Center activities

COFFEE AND AUTHORS WITH POSTERS

SYMPOSIUM: ORGAN TRANSPLANTATION FROM INTOXICATED DONORS
Moderators: Rana Biary & Paul Dargan

- Organ Transplantation in Intoxicated Patients – is there a network and criteria to be used
  Giovanna Panarello, Palermo, Italy

- Poisoned donors after brain death or cardiocirculatory death: the challenges of diagnosis and graft outcome
  Philippe Hantson, Brussels, Belgium

- Organ transplantation from methanol poisoned donors
  Yvonne Lao, Oslo, Norway

- Organ transplantation following intoxication with psychoactive substances
  David Wood, London, UK

At the end of this session, the audience should be able to:
- Recognize the major differences between poisoned donors after brain death or cardiocirculatory death.
- Discuss the choice of diagnostic tools in both situations.
- Compare the graft outcome, and to discuss ethical issues.
- Understand the potential for organ donation to and from those with psychoactive toxicity.
- Provide an overview of the experience of using patients with methanol poisoning as organ donors

LUNCH

AUTHORS WITH POSTERS
14:10-15:10  ORAL PLATFORM: ORAL PLATFORM PRESENTATIONS 5  
Moderators: Alex Campbell & Kai Knudsen

14:10-14:25  Paracetamol medication errors are associated with a high risk of hepatotoxicity in children aged 0-6 years: a retrospective cohort study  
[15 min] Abstract #97  
Alaa A Daoud, Copenhagen, Denmark

14:25-14:40  A prospective validation study of a clinical decision instrument for head computed tomography in intoxicated patients presenting to the emergency department  
[15 min] Abstract #179 / Shortlisted for T&F Prize Best Oral Presentation  
Richard McNulty, Sydney, Australia

14:40-14:55  Reversible and transient thrombocytopenia induced by snake C-type lectinlike proteins (snaclecs) from nose-horned viper venom / Shortlisted for T&F Prize Best Oral Presentation  
[15 min] Abstract #180  
Miran Brvar, Ljubljana, Slovenia

14:55-15:10  Investigation of oxycodone-induced neuro-respiratory effects in a rat model using a PK/PD approach  
[15 min] Abstract #181  
Bruno Mégarbane, Paris, France

15:10-15:40  COFFEE AND AUTHORS WITH POSTERS

15:40-16:40  NO PARALLEL SESSION

16:40  CLOSING OF THE CONGRESS IN SALA MOZART

SALA MAGNA

16:50-17:30  EAPCCT FELLOWS MEETING  
[40 min]

20:00  CONGRESS DINNER
Posters
EPIDEMIOLOGY OF POISONING

009 Has the re-scheduling of modified-release paracetamol in Australia affected the frequency of overdoses?
Michaela Ryan, Andis Graudins, Anselm Wong.
Department of Medicine, School of Clinical Sciences at Monash Health, Monash University, Victoria, Australia.

010 Increase in deliberate self-poisonings by adolescents reported to the National Poisons Information Center during the second year of the COVID-19 pandemic
Dutch Poisons Information Center, University Medical Center Utrecht, Utrecht, Netherlands; Dutch Poisons Information Center, Intensive Care, University Medical Center Utrecht, Utrecht, Netherlands.

011 One-year single hospital study of acute poisonings in Israel
Konstantin Brusin1, Meital Zikry Deitch1, Elena Kishenevsky1, Arkady Shklyar1, Gennady Bregman1, Hasan Agbaria1, Haytham Attoun1, Knut Erik Hovda2.
1Kaplan Medical Center, Rehovot, Israel; 2Dep. Acute Medicine Oslo University Hospital, Oslo, Norway.

012 The impact of socioeconomic status on toxicological exposures in pregnancy
Will Heise1, Stephanie Christensen2, Laura Mercer1.
1University of Arizona College of Medicine Phoenix, Phoenix, United States; 2Kaiser Permanente, San Diego, United States.

013 Acute paracetamol poisoning in children: a retrospective study
Julia V Radenkova-Saeva, Miroslava T Petkova.
Toxicology Clinic, University Hospital for Emergency Medicine “NI Pirogov”, Sofia, Bulgaria.

014 Results of a toxicovigilance program in a tertiary hospital of the Community of Madrid, from January 2020 to August 2022
Arturo Gómez, Javier Guijarro, Rosario M Torres, Rosa Mayayo, Lucía Díaz, Alberto M Borobia, Antonio J Carcas, Mikel Urroz.
La Paz University Hospital, Madrid, Spain.

015 Adolescent poisonings reported to the UK National Poisons Information Service (NPIS): a 6.5 year study
Annie Watt1, Thomas M Caparrotta1, Ruben HK Thanacoody2, Laurence A Gray1, Sally Bradberry4, Gillian Jackson1, Euan A Sandilands1.
1NPIS Edinburgh, Edinburgh, United Kingdom; 2NPIS Newcastle, Newcastle Upon Tyne, United Kingdom; 4NPIS Cardiff, Cardiff, United Kingdom; 3NPIS Birmingham, Birmingham, United Kingdom.

016 Increased risk of major adverse cardiovascular events in middle-aged obese patients receiving Chinese herbal medicine: a nationwide cohort study in Taiwan
Yi-Ju Ho1, Wen-Chieh Yang2, Te-I Weng3.
1National Taiwan University Hospital, Taipei, Taiwan; 2Taipei Veterans General Hospital Hsinchu Branch, Hsinchu, Taiwan; 3Department of Forensic Medicine, College of Medicine, National Taiwan University, Taipei, Taiwan.

017 No laughing matter: trends in nitrous oxide misuse in the United States during the COVID-19 pandemic
Ryan J Cole, Rita Farah, Nathan P Charlton.
University of Virginia Health, Charlottesville, United States.

019 Medication errors in the neonatal intensive care unit
Ophir Lavon, Amit Wasserman, Yamit Musai.
Carmel Medical Center, Haifa, Israel.
020 Belgian Poison Centre: annual overview 2021
Dominique Vandijck1, Jonas Van Baelen1, Eline Bekaert1, Evelien De Smet1, Jonas Moens2, Pamela Selway1, Régine Pire1, Sarah Desmaele1, Karolien De Leener1, Anne-Marie Descamps1.
1Belgian Poison Centre, Brussels, Belgium; 2Belgian, Brussels, Belgium.

021 Severity and outcome in acutely intoxicated patients with elevated creatine kinase
Clinical Centre, University Clinic of Toxicology, Medical Faculty, Sts Cyril and Methodius University in Skopje, Republic of North Macedonia, Skopje, Macedonia.

022 Are nicotine pouches a toxicological problem in Austria?
Susanna Dorner-Schulmeister, Tara Arif.
Poisons Information Centre, Vienna, Austria.

023 National reports of e-liquid poisoning received by French Poison Control Centers from July 2019 to December 2020
Fanny Pelissier1, Juliette Bloch2, Cécilia Solal3, Nicolas Franchitto2.
1Centre Antipoison et Toxicovigilance Occitanie, Centre Hospitalier et Universitaire de Toulouse-Purpan, Toulouse, France; 2ANSES, Maisons-Alfort, France; 3Service d’Addictologie Universitaire, Centre Hospitalier de Toulouse-Purpan, Toulouse, France.

025 Characterization of exposures in preschoolers reported to a Chilean Poison Control Center in 2020.
Antonia Sateler1, Marli Bettini2, Lorena Silva2, Patricio Medel1, Pablo Iturra1, Francisco Figueroa2, Lisette Irarrázabal2, Juan Carlos Ríos3.
1Programa de Farmacología y Toxicología Pontificia Universidad Católica de Chile, Santiago, Chile; 2Centro de Información Toxicológica Pontificia Universidad Católica de Chile (CITUC), Santiago, Chile; 3Centro de Información Toxicológica Pontificia Universidad Católica de Chile (CITUC), Programa de Farmacología y Toxicología Pontificia Universidad Católica de Chile, Escuela de Enfermería Pontificia Universidad Católica de Chile, Santiago, Chile; 4Escuela de Enfermería Pontificia Universidad Católica de Chile, Santiago, Chile; 5Centro de Información Toxicológica Pontificia Universidad Católica de Chile (CITUC), Programa de Farmacología y Toxicología Pontificia Universidad Católica de Chile, Departamento de Laboratorios Clínicos Pontificia Universidad Católica de Chile, Santiago, Chile.

026 Impact of COVID-19 pandemic in rising suicide attempts through intentional acute poisoning in teenagers in Chile. Analysis of the major Chilean Poison Control Center data
Patricio Medel-Jara1, Lorena Silva2, Marli Bettini2, Claudio Retama12, Francisco Figueroa2, Sandra Solari3, Juan Carlos Ríos2.
1Centro de Información Toxicológica Pontificia Universidad Católica de Chile (CITUC), Programa de Farmacología y Toxicología Pontificia Universidad Católica de Chile, Escuela de Enfermería Pontificia Universidad Católica de Chile, Santiago, Chile; 2Centro de Información Toxicológica y de Medicamentos (CITUC), Facultad de Medicina, Pontificia Universidad Católica de Chile, Santiago, Chile; 3Centro de Información Toxicológica y de Medicamentos (CITUC), Facultad de Medicina, Pontificia Universidad Católica de Chile, Santiago, Chile; 4Centro de Información Toxicológica y de Medicamentos (CITUC), Facultad de Medicina, Pontificia Universidad Católica de Chile, Programa de Farmacología y Toxicología Pontificia Universidad Católica de Chile, Departamento de Laboratorios Clínicos, Escuela de Medicina, Pontificia Universidad Católica de Chile, Santiago, Chile.

027 Proportion of poisoned patients at the Emergency Department with QTc prolongation, based on different correction formulas
Irma S Van Den Hengel-Koot, Saskia J Rietjens, Douwe Dekker, Dylan W De Lange, Laura Honebrink.
University Medical Center Utrecht, Utrecht University, Utrecht, Netherlands.

028 Electronic clinical files of patients in the emergency department. Usefulness as tools for toxicosurveillance
Francisco J Ruiz-Ruiz1, Mario Angulo-Artal2, Ana Serrano-Ferrer1, Rafael Marron-Tundidor1, Ana Ferrer-Dufol1.
1Emergency Department. Unit of Clinical Toxicology, Hospital Clínico Universitario, Zaragoza, Spain; 2Universidad de Zaragoza, Zaragoza, Spain; 3Hospital Clínico Universitario, Zaragoza, Spain; 4Servicio Aragones de Salud, Zaragoza, Spain; 5Unit of Clinical Toxicology, Hospital Clínico Universitario, Zaragoza, Spain.
029 The rise in edible marijuana related calls following cannabis decriminalization: one poison center’s experience
Division of Medical Toxicology, Department of Emergency Medicine, University of Virginia School of Medicine, Charlottesville, United States.

031 The diagnosis and treatment of cannabinoid hyperemesis syndrome
Arón Misa García¹, Álvaro Medina Guerrero², Marina Fages Pérez³, Yolanda Ibáñez Borau⁴, Beatriz Calderón Hernanz⁵, Montserrat Vilanova Boltó⁶, Miguel Agudo García⁷.
¹Hospital Pharmacy Department, Hospital Universitario de Ourense, Ourense, Spain; ²Hospital Pharmacy Department, Hospital Universitario Son Llàtzer, Palma de Mallorca, Spain; ³Hospital Pharmacy Department, Hospital de la Línea, Cádiz, Spain; ⁴Emergency Department, Hospital Universitario Son Llàtzer, Palma de Mallorca, Spain.

032 Aetiology and clinical severity of carbon monoxide poisoning in Germany
Nina Glaser, Michael Reuser, Kathrin Begemann.
German Federal Institute for Risk Assessment, Berlin, Germany.

033 Analysis of suicide attempts by chemicals in the years 2017–2021 gathered in the Spanish Toxicsurveillance Program
Ana Serrano¹, Francisco Ruiz², Ana Ferrer³.
¹Psiquiatría Hospital Clínico universitario, Zaragoza, Spain; ²Urgencias, Zaragoza, Spain; ³Toxicología, Zaragoza, Spain.

034 Pandemic and post-pandemic intoxications in the intensive care unit (ICU) of a general public hospital
Clara Serrano Ferrer¹, Laura Sanchez², Sara Gomez³, Elena Lacruz⁴, Ana Serrano⁵, Ana Ferrer Dufol⁶, Begoña Zalba⁷.
¹ICU. “Príncipe de Asturias” Hospital, Alcalá de Henares, Spain; ²ICU. Clinical University Hospital, Zaragoza, Spain; ³ICU. Clinic University Hospital, Zaragoza, Spain; ⁴ICU. Clinic University Hospital, Zaragoza, Spain; ⁵Psychiatric Unit. Clinic University Hospital, Zaragoza, Spain; ⁶Unit of Clinical Toxicology. Clinic University Hospital, Zaragoza, Spain; ⁷Intensive Care Unit.Clinic University Hospital, Zaragoza, Spain.

035 Hospital-treated deliberate self-poisoning in Azerbaijan: epidemiological features and clinical outcomes
Ismayil Afandiyev¹, Jamil Afandiyev².
¹Clinical Toxicology, Baku, Azerbaijan; ²Department of Psychiatry, Baku, Azerbaijan.

036 Intentional ingestions in children and adolescents as a worldwide phenomenon
Anna A Celentano¹, Alvin A Bronstein², Marcello M Ferruzzi³, Fabrizio F Sesana⁴, Giovanni M Milanesi⁵, Francesco F Scaglione⁶.
¹Milan Poison Control Center, ASST Grande Ospedale Metropolitano Niguarda, Milan, Italy; ²Emergency Medical Services & Injury Prevention System Branch Hawaii State Department of Health Leahi Hospital -Honolulu, Milan, United States.

037 Marijuana exposures reported to the US Poison Centers
Saumitra Rege, Will Goodrich, Christopher Holstege.
The University of Virginia, Charlottesville, United States.

038 Exposures and suspected intoxications in children aged 0–14 years: real-world data from an Italian reference poison control centre before and during the COVID-19 pandemic
Valentina Brillì, Giada Crescioli², Francesco Gambassi³, Andrea Missanelli², Alessandra Ieri², Cecilia Lanzì², Alessandra Pistelli², Arianna Totti², Alfredo Vannacci¹, Guido Mannaioni¹, Niccolò Lombardi¹.
¹Department of Neurosciences, Psychology, Drug Research and Child Health, Section of Pharmacology and Toxicology, University of Florence, Florence, Italy; ²Medical Toxicology Unit and Poison Control Center, Careggi University Hospital, Florence, Italy.
039 Drug poisoning: data analysis from the Poison Control Center in Florence, Italy (2018–2020)
Francesco Gambassi1, Guido Mannaioni2, Cecilia Lanzi1, Alessandra Pistelli, Simone Sartori2, Andrea Burgalassi1, Brunella Occupati2, Alessandra Ieri2.
1Medical Toxicology Unit and Poison Center, Careggi University Hospital, Florence, Italy; 2NEUROFARBA Department, Pharmacology and Toxicology Section, University of Florence, Viale Pieraccini 6, 50139, Florence, Italy.

MONITORING OF NEW PSYCHOACTIVE SUBSTANCES (NPS)
040 Self-reported xylazine exposure and experiences: a mixed methods study of Reddit users
Anthony Spadaro1, Jeannmarie Perrone1, Lakamana Sahithi1, Karen O’connor1, Rachel Wightman3, Jennifer Love4, Abeed Sarker2.
1University of Pennsylvania, Philadelphia, United States; 2Emory University, Atlanta, United States; 3Brown University, Providence, United States; 4Mount Sinai Health System, New York City, United States.

OCCUPATIONAL POISONING
041 Circumstances of acute occupational exposure to acids and alkalis reported to the Dutch Poisons Information Center
Anja PG Wijnands1, Irma De Vries1, Tim Verbruggen1, Maxim Carlier1, Dylan W De Lange2, Saskia J Rietjens1.
1Dutch Poisons Information Center, University Medical Center Utrecht, University Utrecht, Netherlands; 2Dutch Poisons Information Center, University Medical Center Utrecht, University Utrecht, Department of Intensive Care Medicine, University Medical Center Utrecht, University Utrecht, Utrecht, Netherlands.

042 Reports on occupational poisoning cases with detergents and cleaning agents to the German Federal Institute for Risk Assessment from 2012 to 2021
Kathrin Begemann, Nina Glaser, Michael Reuser, Herbert Desel.
German Federal Institute for Risk Assessment, Berlin, Germany.

043 A protracted, low dose dermal exposure and a short–lasting, high dose dermal exposure to aniline caused methaemoglobinaemia in two workplace accidents at the same facility.
Anja J Huusom1, Kristian Andersen2, Steen K Barnung2, Lotte C G Høgberg1.
1The Danish Poisons Information Centre; Department of Occupational and Environmental Medicine, Copenhagen University Hospital - Bispebjerg and Frederiksberg, Copenhagen, Denmark; 2Department of Anaesthesiology, Centre of Head and Orthopaedics, Copenhagen University Hospital - Rigshospitalet, Copenhagen, Denmark; 3The Danish Poisons Information Centre; Department of Anaesthesia and Intensive Care, Copenhagen University Hospital - Bispebjerg and Frederiksberg, Copenhagen, Denmark.

044 Why does this gas keep killing??? Rotten egg smell does not protect you!
Paula E C Hammer1, Lotte C G Høgberg2.
1Danish Poison Information Centre; Department of Occupational and Environmental Medicine, Copenhagen, Denmark; 2Danish Poison Information Centre; Department of Anaesthesia and Intensive Care, Copenhagen, Denmark.

PESTICIDE POISONINGS
045 Isolated nicotinic toxicity and urinary discoloration following unintentional pediatric carbaryl ingestion
Marlis Gnirke1, Joshua Bloom1, Ramya J Sivasubramanian2, David Sardar2, Anna Mai3, Samara Soghoian2, Robert S Hoffman, Sage W Wiener2.
1Division of Medical Toxicology, Ronald O. Perelman Department of Emergency Medicine, NYU Grossman School of Medicine, New York City, United States; 2Department of Pediatrics, SUNY Downstate Health Sciences University, Brooklyn, United States; 3Department of Emergency Medicine, SUNY Downstate Health Sciences University, Brooklyn, United States.
046 **Evaluation of biocidal product enquiries to the Austrian Poisons Information Centre, 2020**
Tara Arif, Dieter Genser.
Poisons Information Centre, Vienna, Austria.

047 **Impact of plasma concentrations of glyphosate, its metabolite and polyethoxylated tallow amine surfactants on clinical outcomes following glyphosate poisoning**
Shuping Qiang¹, Fahim Mohamed², Nicholas A Buckley¹, Lorraine Mackenzie¹, Michael S Roberts⁴. ¹University of South Australia Clinical and Health Sciences, University of South Australia, Adelaide, Australia; ²Therapeutics Research Centre, Basil Hetzel Institute for Translational Health Research, The Queen Elizabeth Hospital, Adelaide, Australia; ³South Asian Clinical Toxicology Research Collaboration, University of Peradeniya, Peradeniya, Sri Lanka; Faculty of Medicine and Health, Sydney Pharmacy School, Pharmacology, University of Sydney, Sydney, Australia; ⁴Translational Australian Clinical Toxicology (TACT) Research Group, Biomedical Informatics and Digital Health, Faculty of Medicine and Health, The University of Sydney, Sydney, Australia; ⁵Therapeutics Research Centre, The University of Queensland Diamantina Institute, The University of Queensland, Brisbane, Australia; University of South Australia Clinical and Health Sciences, University of South Australia, Adelaide, Australia.

048 **Death of two infants due to misuse of a pesticide product**
Esther Feistkorn, Nina Glaser, Michael Reuser, Kathrin Begemann.
German Federal Institute for Risk Assessment, Berlin, Germany.

049 **Paraquat poisoning exposures: a South African Poisons Information Helpline experience**
Catharina E Du Plessis¹, Carine J Marks¹, Cindy R Stephen¹. ¹Stellenbosch University, Cape Town, South Africa; ²University of Cape Town, Cape Town, South Africa.

050 **Consultations regarding Plant Protection Products 2019 – 2021 to the Austrian Poisons Information Centre**
Tara Arif, Helmut Schiel.
Poisons Information Centre, Vienna, Austria.

051 **Bromoxynil and 2-methyl-4-chlorophenoxyacetic acid (MCPA) poisoning resulting in death**
Pramod Chandru, Dushan Jayaweera.
Department of Clinical Pharmacology & Toxicology, Western Sydney Health, Sydney, Australia.

052 **Case series of acute 4,6-dinitro-o-cresol (DNOC) self-poisoning**
Gordana Vukovic Ercegovic, Natasa Perkovic Vukcevic, Olivera Potrebic, Jasmina Jovic Stosic, Dragana Djordjevic, Milica Zlatkovic, Slavica Vucinic.
National Poison Control Center, Military Medical Academy, Belgrade, Serbia.

053 **Hydrogen cyanamide exposure: a case series study from Italy**
Monica Carnovale, Lucía Bernaconi, Davide Lonti, Azzurra Schichchi, Valeria M Petrolini, Bendetta Brolli, Valentina Negrini, Olia Maystrova, Francesca Crema, Carlo A Locatelli. ¹Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti Clinici Scientifici Maugeri IRCCS, Postgraduate School of Pharmacology and Clinical Toxicology, University of Pavia, Pavia, Italy; ²Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti Clinici Scientifici Maugeri IRCCS, Pavia, Italy; ³Department of Internal Medicine and Therapeutics, Section of Pharmacology, University of Pavia, Pavia, Italy.

**PLANT AND MUSHROOM POISONING**

054 **Status epilepticus in a child intoxicated by Psilocybe mexicana and Cannabis sativa**
Natanael Del Ángel González, Yaneli A González Chávez, Jorge G Pérez Tuñón, Mayré I Bautista Albíter, Arturo G Ponce De León.
Centro Toxicológico Hospital Ángeles Lomas, Huixquilucan, Mexico.
055 Root-rhythmia: tejocote (Crataegus mexicana) ingestion associated dysrhythmia
Stephen Petrou, John Keller, Craig G. Smollin.
University of California San Francisco, San Francisco, California, USA; California Poison Control System - San Francisco Division, San Francisco, California, USA, San Francisco, United States.

056 Suicidal Digitalis purpurea poisoning in an adult
Anna-Mariia Termälä, Riikka Palo.
Poison Information Center, University of Helsinki and Department of Emergency Medicine and Services, Helsinki University Hospital, Helsinki, Finland.

057 Detectable serum digoxin concentration following exploratory lily of the valley ingestion in an asymptomatic child
Marlis Gnirke, Nicholas Otts, Mary Ann Howland, Mark K Su.
1Division of Medical Toxicology, Ronald O. Perelman Department of Emergency Medicine, NYU Grossman School of Medicine, New York City, United States; 2Division of Pediatric Emergency Medicine, Westchester Medical Center, Valhalla, United States; 3St. John’s University College of Pharmacy and Health Sciences, Queens, United States; 4New York City Poison Control Center, New York City, United States.

058 Poisoning with cardiac glycoside-containing plants reported to the UK National Poisons Information Service: a 7-year study
Victoria A Eagling, Ruben HK Thanacoody, Laurence A Gray, Sally Bradberry, Euan A Sandilands.
1NPIS Edinburgh, Royal Infirmary of Edinburgh, Edinburgh, United Kingdom; 2NPIS Newcastle, Regional Drug and Therapeutics Centre, Newcastle upon Tyne, United Kingdom; 3NPIS Cardiff, University Hospital Llandough, Cardiff, United Kingdom; 4NPIS Birmingham, City Hospital, Birmingham, United Kingdom.

059 Modern day shamanism: a case of repeated ayahuasca consumption in metropolitan France documented by hair and nails analysis
Gaël Le Roux, Jérémy Lecot, Chloé Bruneau, Florian Hakim, Alexandre Gish, Jean-Michel Gaulier.
1Centre anti-poison Grand Ouest, Angers, France; 2Unité fonctionnelle de Toxicologie, Lille, France.

060 Surprising lack of symptoms after potentially dangerous colchicine poisoning from Gloriosa superba (glory lily) tea
Erik Borski, Michael Deters, Katja Schulz, Joerg Pietsch, Anne Stuerzebecher.
1Poisons Information Centre Erfurt, Erfurt, Germany; 2Technische Universität Dresden, Dresden, Germany; 3Technische Universität Dresden, Erfurt, Germany.

061 Another victim of omelettes: a case of severe mushroom intoxication with muscarine detection
Chloé Bruneau, Jérémy Lecot, Rebecca Vinas, Marie Deguigne, Estelle Flament, Gaël Le Roux.
Centre Antipoison Grand Ouest, Angers, France.

062 Crataegus mexicana (tejocote) exposure in a 23 month-old, with signs of cardiotoxicity, with normalization of their ECG after administration of digoxin immune Fab
Noah G Berland, Molly Kaminsky, Trevor Cerbini, Cynthia Santos, Diane Calello, Howard Greller, Christopher Meaden, Lewis Nelson.
1Rutgers NJMS - NJPIES, Newark, United States; 2Morristown Medical Center, Morristown, United States.

063 Ceylon leadwort (Plumbago zeylanica) induced contact dermatitis and skin erosions
Yaopan Liao.
Chang-Hua Hospital, Chang-Hua County, Taiwan.

064 Metabolic acidosis from ingestion of plant roots mimicking cyanide poisoning: a case report of acute Dioscorea hispida poisoning
Kai-Wen Cheng.
Department of Clinical Toxicology & Occupational Medicine, Taipei Veterans General Hospital, Taipei City, Taiwan.

065 Aflatoxicosis at the intersection of modern agriculture and public health
Shahnaz Sonya Rashid, S Eliza Dunn.
1Toxikon Consortium, Chicago, United States; 2Bayer Crop Science, St. Louis, United States.
Acute cyanide poisoning due to ingestion of the seeds containing amygdalin in Slovenia, 2019-2021
Ana Mavrič, Gašper Razinger, Lucija Šarc, Miran Brvar.

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Anticholinergic syndrome due to mushroom poisoning: a case series
Benedetta Brolli, Cristina Grazioli, Valentina Negrini, Azzurra Schicchi, Valeria M Petrolini, Davide Lonati, Francesca Crema, Carlo A Locatelli.

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Activation code of severe acute intoxication (CodiTox): A protocol for detection, prioritisation and treatment of the seriously intoxicated patient

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Emergency Department, Hospital Sant Joan de Déu, Barcelona, Spain;
Sistema d’Emergències Mèdiques, Barcelona, Spain;
Emergency Department, Hospital del Mar, Barcelona, Spain.

In vivo evaluation of novel target pathways for the development of delayed cardiovascular dysfunction after sulfur mustard exposure

University of Colorado, Department of Pediatrics, Denver, United States.

Viper envenomation in Greece - experience from the Greek Poison Information Center during the year 2022
Vasiliki Mougiou, Myrto Bonataki, Vasiliki Kotsira, Ioanna-Maria Sykara, Vasiliki Papathanasiou, Eleni Basanou, Angeliki Kalostou.

Greek Poison Information Center, Pan. and Aglaia Kyriakou Children’s Hospital, Athens, Greece.
071 An Australian regional review of the use and location of snake antivenom
Amy Thomson, Jared Brown.
NSW Poisons Information Centre, Sydney, Australia.

072 Viper bite: a case report
Victoria Lobo Antuña1, Celia Piñero1, Marta Lobo Antuña2, Benjamin Climent3.
1Consortio Hospital General Universitario de Valencia, Valencia, Spain; 2Hospital Universitario Fundación Jiménez Díaz, Madrid, Spain.

073 The utility of hyperbaric oxygen therapy in severe necrotizing infection secondary to suspected spider bite: a case report
Anna A Celentano1, Giovanni G Sesana2, Carmela C Graci3, Paolo P Pantini4, Marcello M Ferruzzi1, Francesco F Scaglione1.
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074 Compartment syndrome after Italian viper bite: two case reports
Lucia Bernasconi1, Monica Carnovale1, Davide Lonati2, Benedetta Brolli1, Valentina Negrini3, Cristina Grazioli1, Francesca Crema3, Carlo A Locatelli2.
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075 Failure of viper antivenom therapy and the need for an effective antidote: an Italian pediatric case series
Lucia Bernasconi1, Davide Lonati2, Azzurra Schicchi2, Benedetta Brolli1, Cristina Grazioli1, Valentina Negrini1, Monica Carnovale1, Francesca Crema3, Carlo A Locatelli2.
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076 Portuguese man o’ war: heart attack! First case of Physalia physalis cardiotoxicity reported in Italy
Valentina Negrini1, Cristina Naturale2, Valentina Negrini1, Monica Carnovale1, Cristina Grazioli1, Elena Mattiuzzo2, Giulia Scaravaggi2, Valeria M Petrolini2, Francesca Crema3, Carlo A Locatelli2.
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077 Fatal stings
Wui Ling Chan.
Consultant, KTPH A&E, Singapore, Singapore.

VETERINARY TOXICOLOGY (POISONING IN ANIMALS)

078 Ivermectin toxicosis in dogs: circumstances, clinical signs and severity of poisoning
Nicola Bates, Zoe Tizzard, Nick Edwards.
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079  **Nitroscanate toxicosis in cats and dogs**  
Nicola Bates, Zoe Tizzard, Nick Edwards.  
Veterinary Poisons Information Service, London, United Kingdom.

080  **Use of rivastigmine to treat scopolamine toxicity: a case report**  
Samantha S. Klein, Robert S Hoffman.  
Division of Medical Toxicology Ronald O. Perelman Department of Emergency Medicine, New York University School of Medicine, New York, United States.

081  **Status epileptics in the setting of an intentional ingestion of propranolol: a case report**  
Samantha S. Klein¹, Mark K Su².  
¹Division of Medical Toxicology Ronald O. Perelman Department of Emergency Medicine, New York University School of Medicine, New York, United States; ²New York City Poison Control Center, Department of Health and Mental Hygiene, New York, United States.

212  **Cathartic catharsis: hypermagnesemia toxicity leading to respiratory paralysis, secondary to cathartic abuse**  
Stephen Petrou, Craig G. Smollin.  
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101 Wound botulism following intravenous methamphetamine use
Balveena K Dhaliwal1, Andrew Henderson2, Jessica Qiu3, Naren Gunja4.
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102 A case of foodborne botulism type E
Karolien De Leener1, Bram Depelseneer2, Jonas Moens1, Dominique Vandijck1, Anne-Marie Descamps1.
1Belgian Poison Centre, Brussels, Belgium; 2ZNA Middelheim, Antwerp, Belgium.

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103 Severe neurological sequelae of carbon monoxide poisoning
Balveena K Dhaliwal1, Chong Wong2, Naren Gunja1.
1Western Sydney Toxicology Services, NSW, Australia; 2Department of Neurology, Westmead Hospital, NSW, Australia.

104 Factors associated with hospitalization for acute recreational drug toxicity
Viktoria T Aasagaard, Maria Abrahamsen, Mette Brekke, Odd Martin Vallersnes.
University of Oslo, Oslo, Norway.

105 The association between alcohol co-ingestion and clinical outcome of deliberate self-poisoning patients visiting the emergency department
Seon Hee Woo, Gyu Won Kim, Woon Jeong Lee, Dae Hee Kim, Jun Young Lee.
The Catholic University of Korea, Incheon St. Mary’s Hospital, Incheon, South Korea.

106 Baron von Münchausen in a bullet proof vest
Marc Stevens1, Erik Lindeman1, Andreas Blomgren2.

107 Recreational use of nitrous oxide – a growing concern in Europe
Joanna De Morais1, Leon Van Aerts2, Michael Evans-Brown3, Ana Gallegos1, Rachel Christie1, Rita Jorge1, Thomas Néfau1, Gregorio Planchuelo1, Roumen Sedefov1, Caroline Victorri-Vigneau3, Rasa Povilanskienė4, Kari Grasaassen5, Dorthe Fris Palmqvist6, Deirdre Mongan7, Nicki Killeen8, António Óscar Duarte9.
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108 Predicting the need for Intensive Care Unit (ICU) admission in acutely intoxicated adult patients at the Emergency Department (ED)
Claudine C Hunault1, Samanta M Zwaag1, Irma S Van Den Hengel-Koot1, Saskia J Rietjens1, Laura Hondebrink1, Douwe Dekker1, Dylan W De Lange3.
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109 Gamma-hydroxybutyrate (GHB) intoxication: clinical diagnosis versus laboratory findings
Didrik Skjelland1, Benedicte M Jørgenrud2, Karsten Gundersen3, Mari Asphjell Bjørnaas4, Mette Brekke1, Vivian M Dalaker1, Håvard Furuhaugen2, Odd M Vallersnes1.
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110 A febrile syndrome with a broad differential diagnosis
Juan Ortega Pérez1, Meritxell Vidal Borràs2, Carlos Rafael Álvarez Ferrer1, Catalina Homar Amengual3, María Del Carmen Rodríguez Ocejo1, María Codinach Martín2, Bernardino Comas Díaz1, Jordi Puiguriguér Ferrando1.
1Physician, Palma de Mallorca, Spain; 2Physician, Girona, Spain; 3Nurse, Palma de Mallorca, Spain.

201 Alcohol intoxication in adolescence can affect the behavior of young people in the future
Juan Ortega Pérez1, Laura Riera Lopez2, Jordi Puiguriguér Ferrando1, Catalina Homar Amengual3, Meritxell Vidal Borràs1, Maria Codinach Martin2, Bernardino Barcelo Martin5, Bernardino Comas Diaz1.
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111 Iatrogenic medication errors – still a problem
Mandy Gollmann, Michael Deters, Anne Stürzebecher.
Poison Information Centre Erfurt, Erfurt, Germany.

112 Severity of voluntary and accidental methanol intoxication associated with methylated spirit ingestion: a retrospective study in a French poison control center.
Geraldine Meyer1, Dominique Savary2, Marie Deguigne1, Alexis D’Escatha1.
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113 Palytoxin poisoning during the pandemic
Ágnes Bakos, Ildikó Urbán.
Péterfy Sándor Hospital, Budapest, Hungary.

114 Necrotizing fasciitis in a parenteral drug user
Victoria Lobo Antuña1, David Rodrigo Domínguez1, Marta Lobo Antuña2, Sofia Russo Botero1, Miriam Ripoll Martínez1, Benjamin Climent1.
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115 Cocaine body packer: a case report
Gabija Valauskaite1, Haris Jakavicius2, Gabija Laubner-Sakalauskiene2, Robertas Badarás2.
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116 The teratogenic risk of caffeine in pregnancy
Mariapina Gallo, Georgios Eleftheriou, Andrea Giampreti, Lorella Faraoni, Marco Cirronis, Maria Gioia Contessa, Giuseppe Bacis.
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117 Massive caffeine ingestion without severe poisoning: a case report
Georgios Eleftheriou1, Raffaella Butera2, Mariapina Gallo1, Andrea Giampreti2, Lorella Faraoni2, Marco Cirronis1, Maria Gioia Contessa1, Eliana Margutti1, Giuseppe Bacis1.
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118 Autoimmune diseases related to cocaine use: a case series
Macarena L Míguez Del Águila1, Gemma Alvarez Martinez1, Antoni Castro Guardiola1, Nuria Vilanova Anduca1, Angels Gispert Ametller2, Ana Merino Ribas3, Carolina Lorenzo Cardenas4, Mercè Alsíus Suñer5.
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119 Severe complications associated with cocaine abuse requiring intensive care unit (ICU) admission
Clara Serrano Ferrer1, Angela Ruiz García2, Diego Beltrán Hernandez1, Ana Oñoro Morales2, Alejandra Acha Aranda2, Ana Ferrer Dufo1, Emilio Nevado Losada2.
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120 Continuous renal replacement therapy in poisoning
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121 Management of tetanus: an “off-topic” for a Poison Control Center?
Monica Carnovale1, Azzurra Schicchi2, Lucia Bernasconi1, Valentina Negrini1, Davide Lonati2, Valeria M Petrolini3, Elena Mattiuzzo3, Francesca Crema3, Carlo A Locatelli1.
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122 Bromoform ingestion causes gastrointestinal radioopacities, apparent hyperchloraemia and carboxyhaemoglobinemia
Darren M Roberts1, Mina Roberts2, Nazila Jamshidi1.
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123 Sodium nitrite ingestions, mission impossible?
Erik Lindeman, Jasmin Khessib, Johanna Nordmark Grass.
Swedish Poisons Information Centre, Stockholm, Sweden.

124 A fatal case of iatrogenic iodine toxicity
Amanda G Holford, Katherine Z Isoardi.
Clinical Toxicology Unit, Princess Alexandra Hospital; Queensland Poisons Information Centre, Brisbane, Australia.

MONITORING OF NEW PSYCHOACTIVE SUBSTANCES (NPS)

125 Gamma-hydroxybutyrate (GHB) intoxication is associated with hypothermia: a case series of 790 patients with analytical confirmation of psychoactive substance exposure
Shaun Greene 1, Zeff Koutsogiannis1, Sarah Hodgson1, Rebekka Syrjanen1, Rachelle Abouchedid1, Jennifer Schumann2.
1Victorian Poisons Information Centre, Melbourne, Australia; 2Victorian Institute of Forensic Medicine, Melbourne, Australia.

126 Gamma-hydroxybutyrate intoxication is associated with bradycardia, but not blood pressure derangement: A case series of 790 patients with comprehensive analytical confirmation of psychoactive substance exposure
Shaun L Greene1, Rebekka Syrjanen1, Rachelle Abouchedid1, Sarah Hodgson1, Zeff Koutsogiannis1, Jennifer Schumann2.
1Victorian Poisons Information Centre, Melbourne, Australia; 2Victorian Institute of Forensic Medicine, Melbourne, Australia.
Characterisation of illicit drug exposures within an early warning system: Medical record documentation performs poorly compared to comprehensive toxicological analysis of biofluid
Rebekka Syrjanen¹, Jennifer Schumann², Sarah Hodgson¹, Rachelle Abouchedid¹, Zeff Koutsogiannis¹, Shaun Greene¹.
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Diphenidine, methoxyphenidine and related 1,2-diarylethylamine acute toxicity reported to the Euro–DEN Plus project
David M Wood¹, Alison M Dines², Matthias E Liechti³, Isabelle Giraudon⁴, Frditjof Heyerdahl⁵, Knut Erik Hovda⁶, Odd Martin Valiersnes⁷, Oscar Miro⁸, Christopher Yates⁹, Euro-Den Plus Research Group², Paul I Dargan¹.
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Characteristics of analytically confirmed novel opioid exposures in patients presenting to emergency departments within the state of Victoria, Australia
Shaun Greene¹, Rachelle Abouchedid¹, Sarah Hodgson¹, Rebekka Syrjanen¹, Jennifer Schumann².
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Illicit substance use and physical restraint: A prospective cohort study of 1125 patients presenting to Emergency Departments with analytically confirmed psychoactive substance exposure
Sarah E Hodgson¹, Rachelle Abouchedid³, Rebekka Syrjanen¹, Jennifer Schumann², Shaun L Greene¹.
¹Victorian Poisons Information Centre, Melbourne, Australia; ²Victorian Institute of Forensic Medicine, Southbank, Victoria, Australia.

Counterfeit “Xanax®” tablets in Australia – more than you bargained for?
Rebekka Syrjanen¹, Jennifer Schumann², Sarah Hodgson¹, Rachelle Abouchedid¹, Shaun Greene¹.
¹Victorian Poisons Information Centre, Austin Health, Heidelberg, Victoria, Australia; ²Victorian Institute of Forensic Medicine, Melbourne, Australia.

Over half of fatalities in 1123 patients presenting to emergency departments with analytically confirmed exposure to a psychoactive substance are associated with heroin use
Rachelle Abouncedid¹, Sarah Hodgson¹, Rebekka Syrjanen¹, Jennifer Schumann², Shaun Greene¹.
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Trends in detections of unregistered benzodiazepines and counterfeit alprazolam in New South Wales, Australia
Jared A Brown¹, Tracy Ho¹, Thanjira Jiranantakan¹, Una Cullinan², Nicole Wright³, Christopher Ewers³, Darren Roberts¹, Marissa Parry¹.
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Are novel psychoactive substances (NPS) that share structural motifs with approved compounds more likely to have a psychoactive effect?
Michael Chary.
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Rapid normalization of homocysteine after cessation of nitrous oxide exposure: a case series
Erik Lindeman, Ingi Abdulhameed, Johanna Nordmark Grass.
Swedish Poisons Information Centre, Stockholm, Sweden.
NEW ANTIDOTES (INCLUDING USE OF OLD ANTIDOTES FOR NEW PURPOSES)

136 Expansion of the Dutch National Calamity Stock with infrequently used (non)-registered antidotes is a great success
Marieke A Dijkman, Dylan W De Lange.
Dutch Poisons Information Center, Utrecht, Netherlands.

137 A survey of antidote availability in Irish hospitals with emergency departments 2022
Conor T Hurley, Edel Duggan, John X Herbert.
National Poisons Information Centre (NPIC), Dublin, Republic of Ireland.

138 Carbapenems in valproate toxicity – ready for prime time?
Daniel HP Towie1, Erik Lindeman2.
1Department of Internal Medicine. Skåne University Hospita, Lund, Sweden; 2Swedish Poisons Information Centre, Stockholm, Sweden.

139 Antidotal effect of olanzapine in serotonin toxicity caused by a suicidal 3,4-methylenedioxymethamphetamine (MDMA) overdose
Erik Lindeman1, Linn Ottosson2, Anders Hålander3.
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140 Heat stroke associated with 3,4-methylenedioxymethamphetamine (MDMA) overdose treated with olanzapine
Erik Lindeman1, Maria Daveus2, Eva Backman1.
1Swedish Poisons Information Centre, Stockholm, Sweden; 2Department of Internal Medicine, Kristianstad Central Hospital, Kristianstad, Sweden.

141 First report of successful treatment of severe serotonin toxicity with levomepromazine
Brenda H Van Koningsveld-Couperus1, Fellery De Lange1, Carina Bethlehem2.
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142 Primaquine-induced methemoglobinemia treated with N-acetylcysteine: a case report
Lorenzo Losso1, Francesco Gambassi2, Brunella Occupati2, Alessandra Pistelli2, Andrea Missanelli2, Cecilia Lanzi2, Arianna Totti2, Guido Mannaioni1, Alessandra Ieri1.
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POISONS CENTRE ACTIVITIES

143 Retrospective evaluation of the effect of oral acetylcysteine on INR in the setting of acetaminophen overdose
Varun Vohra1, Alisar Aljundi2, Hala Tokko2, Ryan Herc2, Jewel Konja2, Ali Khanafey2, Samantha Bauer3, Victoria Tutag-Lehr2.
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144 High-dose vitamin D supplements – a high risk?
University Medical Center Utrecht, Utrecht, Netherlands.
145 Nirmatrelvir and ritonavir exposure and information cases reported to a single statewide United States poison center
Alabama Poison Information Center, Children’s of Alabama, Birmingham, Alabama, United States.

146 Wintergreen oil toxicity reported to the UK National Poisons Information Service (NPIS)
Emma Moyns¹, Hayley Williams², Euan A Sandilands², Laurence A Gray³, Ruben HK Thanacoody⁴, Sally M Bradberry¹.
¹National Poisons Information Service (Birmingham Unit), Birmingham, United Kingdom; ²National Poisons Information Service (Edinburgh Unit), Edinburgh, United Kingdom; ³National Poisons Information Service (Cardiff Unit), Cardiff, United Kingdom; ⁴National Poisons Information Service (Newcastle Unit), Newcastle, United Kingdom.

147 Substantial room for improvement in handling medicines in Danish residential institutions
Karen R Eriksen, Nete B Hansen.
The Danish Poison Information Center, Dept. of Anaesthesia and Intensive Care Medicine, Bispebjerg- and Frederiksberg University Hospital of Copenhagen, Copenhagen, Denmark.

148 Collaboration between a poisons information centre and a national authority to protect consumer safety
Patricia Casey¹, Edel Duggan¹, Sinead Mcmickan².
¹National Poisons Information Centre of Ireland, Dublin, Republic of Ireland; ²Health and Safety Authority, Athlone, Republic of Ireland.

149 Repeated poisonings in Denmark: a nationwide study
Thomas Leth Jensen¹, Kim Peder Dalhoff¹, Mathilde Tejibo Frost², Tonny Studsgaard Petersen².
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150 A review of general information requests to the Finnish Poison Information Centre (FPIC)
Terhi Lampinen.
Poison Information Centre, Department of Emergency Medicine and Services, Helsinki University Hospital and University of Helsinki, Helsinki, Finland.

151 Ethnic diversity of patients discussed with the UK National Poisons Information Service (Birmingham Unit): a short term pilot study
Pardeep S Jagpal, Hayley A Williams, Sally M Bradberry.
National Poisons Information Service, Birmingham, United Kingdom.

152 Potentially inappropriate medication in the elderly: data from a poison centre
Uwe Stedtler¹, Undine Burmeister², Johannes Nadler¹, Maren Hermanns-Clausen³.
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153 A 10-year retrospective analysis of therapeutic errors involving prednisolone reported to the UK’s National Poisons Information Service
Talan A Parnell¹, Sally M Bradberry², Euan A Sandilands³, Ruben HK Thanacoody⁴, Laurence A Gray¹.
¹National Poisons Information Service, Cardiff, United Kingdom; ²National Poisons Information Service, Birmingham, United Kingdom; ³National Poisons Information Service, Edinburgh, United Kingdom; ⁴National Poisons Information Service, Newcastle, United Kingdom.

154 Retrospective study of serotonin syndrome enquiries to UK National Poisons Information Service in 2021
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¹National Poisons Information Service, Cardiff, United Kingdom; ²National Poisons Information Service, Birmingham, United Kingdom; ³National Poisons Information Service, Edinburgh, United Kingdom; ⁴National Poisons Information Service, Newcastle, United Kingdom.
155 A case of laboratory confirmed diphtheria: migratory flows, infectious diseases and the role of Poison Control Centres (PCC)
Giulia Scaravaggi, Davide Lonati, Azzurra Schicchi, Valeria M Petrolini, Lucia Bernasconi, Monica Carnovale, Carlo A Locatelli.
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156 Involuntarily drugging: increasing numbers of inquiries about suspected drink spiking reported to the Danish Poison Information Center
Dorte F Palmqvist, Lisbeth Bringgaard.
The Danish Poison Information Center; Department of Anaesthesia and Intensive Care, Bispebjerg - and Frederiksberg University Hospital of Copenhagen, Copenhagen, Denmark.

157 How can we help you? Collaboration between Poisons Information Centre and ambulance services in Estonia
Ruth Kastanje, Mare Oder.
Estonian Health Board, Tallinn, Estonia.

158 Patterns of fentanyl exposures reported to the U.S. Poison Centers
Saumitra Rege, Ryan Cole, Christopher Holstege.
The University of Virginia, Charlottesville, United States.

159 Trends in calls to the National Poisons Information Centre of Ireland following the introduction of a phone number for the general public
Niamh English, Patricia Casey.
1National Poisons Information Centre, Dublin, Republic of Ireland; 2National Poisons Information Centre, Republic of Ireland.

160 Comparison of poisoning patterns during COVID-19 pandemic with the trend analysis–predicted models
University Clinic of Toxicology, Ss Cyril and Methodius University, Skopje, Macedonia.

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161 SARS-CoV-2 infection is not predictive for renal function impairment after non-steroidal anti-inflammatory drug use – a case-control study
Aurélie Pahud De Mortanges, Verena Schöning, Evangelia Liakoni, Felix Hammann.
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162 Accidental subcutaneous injection of isopropyl alcohol to hallux during digital block resulting in necrosis
Shireen Banerji, Christopher Pitotti.
Rocky Mountain Poison Center, Denver, United States.

163 Prolonged effect of chlordiazepoxide more than a month after intake, requiring treatment with flumazenil
1Department of Anaesthesiology and Intensive Care, Bispebjerg and Frederiksborg Hospital, Copenhagen, Denmark; 2Department of Clinical Pharmacology, Bispebjerg and Frederiksberg Hospital, Copenhagen, Denmark.

164 Myeloneuropathy in a patient receiving treatment with Entonox® for recurrent shoulder dislocations: a case report
Gurpreet S Jutley, Rehman Crisp, Mark Pucci.
University Hospitals Birmingham NHS Foundation Trust, Birmingham, United Kingdom.
165 Adverse reactions of oral methylprednisolone therapy in children with Multisystem Inflammatory Syndrome associated with COVID-19
Viorela Nitescu1, Diana Usurelu2, Ana-Maria Mihalcea3, Teodora Turcu2, Andra Postelicu2, Ruxandra Stejeroiu2, Stefania Ionescu2, Dorina Craciun2, Coriolan Ulmeanu1.
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166 Stuck: Challenges in the Management of Clozapine-Induced Gastrointestinal Hypomotility (CIGH)
Joshua Bloom1, Mark L Abroms2, Mark K Su3.
1Ronald O. Perelman Department of Emergency Medicine, NYU Grossman School of Medicine, New York, NY, United States; 2Department of Psychiatry, NYU Grossman School of Medicine, New York, NY, United States; 3New York City Poison Control Center, Department of Health and Mental Hygiene, New York, NY, United States.

167 Serotonin toxicity secondary to drug interactions involving selegiline, 5-hydroxytryptophan, carbidopa/levodopa, and tetrahydrobiopterin in a patient with dopa-responsive dystonia
Brian G Wiener1, Sarah G Mahonski2, Mary Ann Howland3, Mark K Su4, Robert S Hoffman1.
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169 Spontaneous opioid detoxification: report of two cases
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170 QT prolongation and Torsade de Pointes in a 13-year-old transgender adolescent in treatment with bicalutamide and tacrolimus
Ferran Gómez-Aguilar1, Lidia Martinez-Sánchez1, Vanessa Arias-Constanti1, David Muñoz-Santanach1, Georgia Sarquella-Brugada2.
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171 Hiccough like symptoms, global amnesia, confusion and neuro-motor denervation after inadvertent subarachnoid injection of high dose clindamycin: a case report
Andrea Giampreti1, Marco Cirronis1, Mariapina Gallo1, Georgios Eleftheriou1, Raffaella Butera2, Lorella Faraoni1, Maria Gioia Contessa1, Elisa Seghelini2, Giuseppe Bacis1.
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172 Diffuse alveolar hemorrhage as an adverse effect of ticagrelor after percutaneous coronary intervention
Rixt E Smit1, Fellery De Lange1, Steef J Sinkeler2, Annette L Van Ojik3, Carina Bethlehem4.
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173 A new challenge in the toxicology department: euglycemic diabetic ketoacidosis
Ágnes Bakos, Ildikó Urbán, István Elek.
Péterfy Sándor Hospital, Budapest, Hungary.
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018 2, 4-Dinitrophenol use as discussed on social media
Ali Abdelati1, Stefan Bartell2, Michael Chary2.
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024 How does rhetorical stance affect the content of online discussions about DNP use?
Stefan Bartell, Michael Chary.
Weill Cornell Medicine, New York, United States.

030 Shortages of medications for alcohol withdrawal treatment in the US and Europe: a five year analysis
Christopher J Counts, Jennifer S Love.
Mount Sinai Hospital Department of Emergency Medicine, New York City, United States.

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182 Untargeted liquid chromatography-mass spectrometry (LC-MS) to identify toxic exposures can reduce unnecessary testing: a case of guanfacine poisoning
David H Schaffer, Abigail Kerns, Lindsay A Bazydlo, Christopher Holstege.
University of Virginia, Charlottesville, VA, United States.

183 Ketamine intoxication mimicking catatonia
Abigail Kerns, Lindsay Bazydlo, Christopher Holstege.
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184 Influence of age on clinical outcome following corrosive ingestion in adults
Blanka Caganova1, Silvia Plackova1, Erik Puchon1, Igor Batora2.
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185 Caustic accidents due to ingestion of industrial products in public places: a case series
Valentina Negrini1, Cristina Grazioli1, Davide Lonati2, Benedetta Brolli1, Lucia Bernasconi1, Azzurra Schicchi1, Valeria M Petrolini2, Olha Maystrova2, Francesca Crema1, Carlo A Locatelli2.
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186 Biological features of laundry detergent capsules poisoning in children: a 7 year study
Viorela Nitescu1, Andreea Lescaie2, Ioana Alexandra Ilisei2, Alexandru Ulmeanu1, Coriolan Ulmeanu1.
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187 Fatal methanol poisoning: case report
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188 An unexpected case of fatal detergent ingestion
Amy Thomson, Rachel Khoury-Harb, Genevieve Adamo.
NSW Poisons Information Centre, Sydney, Australia.

189 Household hazard due to hygiene products – a whole new form of “nappy rash”
Mandy Gollmann¹, Anja Michel², Anne Stürzebecher¹.
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190 Disinfectant ingestion – a real danger in children
Viorela Nitescu¹, Andreea Lescaie², Dora Boghiţoiu¹, Coriolan Ulmeanu¹.
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191 Risk/benefit ratios of a new opioid peptide, its nociceptin-linked hybrid and their sustained-release hydrogel-based formulations: an experimental study in mice
Clara Bicanhi¹, Lucie Chevillard¹, Charlotte Martin², Steven Ballet², Bruno Mégarbane¹.
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192 Lead poisoning in a family – plastic manufacturing or herbal powder?
Dong-Zong Hung.
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193 The effect of mercury on children
Olga Otrubova¹, Silvia Plackova¹, Blanka Caganova², Erik Puchon², Igor Batora¹.
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194 Barium chloride poisoning
Kai-Ju Lee¹, Jou-Fang Deng¹, Daniel Spyker².
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195 Lead encephalopathy with fatal outcome in pediatric patients: a case series
Cinthia D Gigliotti, Ana P Voitzuk, Vanina Greco.
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196 Acute lead poisoning from drinking tea with “lead–sugar”
Erik Lindeman¹, Per Leandersson².
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197 Successful organ transplantation after fatal yew ingestion
Anne Stuerzebecher¹, Michael Deters¹, Monika Scholle², Svitlana Ziganshyna³.
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198 Paediatric exposure to concentrated clorofene solutions
Jonas Moens, Heleen Van Melckebeke, Jonas Van Baelen, Lieve Stammen ¹, Karolien De Leneer, Dominique Vandijck, Anne-Marie Descamps.
Antigifcentrum, Neder-Over-Heembeek, Belgium.

199 Fatal pediatric colchicine overdose: role for early initiation of granulocyte colony stimulating factor?
Courtney Granter¹, Caitlin E Wolfe², Jill Duncan³, Marnie J Wood³, Nancy Murphy².
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200 Fatal poisoning in childhood in England and Wales, 2006–2020
Mark Anderson.
National Poisons Information Service (UK), Newcastle upon Tyne, United Kingdom.

202 Relationship of suicide attempts with reopening of schools after their long–term closure due to COVID–19
Katerina Kotikova¹, Daniela Pelclova¹, Tomas Navratil².
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203 Dimetindene – too strict toxic dose?
Michal Cecrle¹, Daniela Pelclova².
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204 Accidental poisoning at home in children aged 10 years and younger in the UK during the COVID–19 pandemic
Eleri Thomas¹, Stephen Jones¹, Sally M Bradberry², Euan A Sandilands³, Ruben HK Thanacoody⁴, Laurence A Gray⁵.
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206 Deaths in pediatric patients from suspected suicide attempts by self–poisoning
Will R Goodrich, Rita Farah, Nathan P Charlton.
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207 Edible cannabis exposures in pediatric patients misdiagnosed as seizures leading to unnecessary and costly medical testing
Will R Goodrich¹, Ryan J Cole¹, Lindsay A. L. Bazydlo¹, Christopher P Holstege¹.
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208 Voluntary intoxications in adolescents during the pandemic period
Arianna Festa¹, Valeria M Petrolini¹, Federico Fassio², Lucia Bernasconi¹, Benedetta Brollo¹, Valentina Negrini¹, Cristina Grazioli¹, Giulia Scaravagghi¹, Carlo A Locatelli¹.
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Emma E Morrison, Michal Klatka, Euan A Sandilands.
National Poisons Information Service, Edinburgh, United Kingdom.

210 Antimuscarinic toxicity presenting as a stroke mimicking hypertensive akinetic mutism with response to physostigmine
Brandtly Yakey¹, Michael Gyory², Erik Olsen², Varun Vohra³, Andrew King³.
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211 Psychosis related to chronic prednisone overdose
Natanael Del Ángel González¹, Yadira J Rosales Bacilio¹, Jorge G Pérez Tuñón¹, Sidney L Ortega Martinez¹, Arturo G Ponce De León¹, Liz E Rodríguez Hernández².
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212 Acute midodrine overdose
Byung Hak So.
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213 Assessment of acute methylphenidate toxicity
Marianne J Petscher, Florian Eyer, Tobias Zellner.
Department of Clinical Toxicology, Technical University of Munich, Munich, Germany.

214 Same initial drug name and pharmacist dispensing errors: a case series
Anna A Celentano, Marcello M Ferruzzi, Fabrizio F Sesana, Francesco P Scaglione.
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215 Survival after severe bupropion toxicity treated with extracorporeal membrane oxygenation (ECMO)
Brian G Wiener¹, Sage W Wiener², Mary Ann Howland³, Mark K Su⁴, Emily Cohen¹.
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Zachary P Schmitz, Mark K Su, Robert S Hoffman.
New York City Poison Control Center, New York City, United States.
218 Acute toxicity profile of promazine in overdose: a consecutive case series
Evelyne L Jina Prüss, Colette Degrandi, Katrin Faber, Alexander Jetter.
National Poisons Centre, Tox Info Suisse, Associated Institute of the University of Zurich, Zurich, Switzerland.

219 Are methotrexate plasma quantifications important in intoxications with low-dose methotrexate?
Alexander Jetter, Seraina Kägi, Colette Degrandi, Cornelia Reichert, Katrin Faber.
National Poisons Centre, Tox Info Suisse, Associated Institute of the University of Zurich, Zurich, Switzerland.

220 Chronic doxepin toxicity from supratherapeutic dosing, drug interactions, and pharmacogenomic variability masquerading as pediatric epilepsy
James D Whitledge1, Christopher J Watson2, Michele M Burns1.
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221 Delayed salicylate toxicity requiring urinary alkalinization after undetectable eight-hour serum salicylate concentration
Chris Y Feng, James Whitledge, Michael Simpson, Andrew Troger, Michele E Burns.
Boston Children’s Hospital, Boston, United States.

222 Late ventricular fibrillation cardiac arrest in a case of bupropion overdose with status epilepticus
Joshua Bloom1, Nata Cisse2, Mary Ann Howland2, Donald Doukas3, Sage W Wiener4, Mark K Su5.
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223 Ifosfamide neurotoxicity treated with methylene blue complicated by serotonin toxiciti
Ahmed Alsakha, Jeanna M Marraffa.
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224 Argatroban overdose without bleeding complications
Maris Gnirke, Silas W Smith, Robert S Hoffman.
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225 Accidental minoxidil overdose with hypotension effectively managed with noradrenaline, rather than dopamine.
Bashir Chakar, Mark Salter, Darren M Roberts.
NSW Poisons Information Centre, Sydney, Australia.

226 Acute toxicity profile of Deanxit®: a consecutive case series of overdoses over 48 years
Katrin Faber1, Arsenije Stojkovic2, Cornelia Reichert1, Alexander Jetter1.
1National Poisons Centre, Tox Info Suisse, Associated Institute of the University of Zurich, Zurich, Switzerland; 2Faculty of Medicine, University of Bern, Bern, Switzerland.

227 Two are better (worse) than one: dapagliflozin and metformin combination drug overdose
Ophir Lavon.
Carmel Medical Center, Haifa, Israel.

228 A case of large intravenous terbutaline overdose
Kyle D Pires1, Mark Su2, William Chiang3.
1Division of Medical Toxicology, Ronald O. Perelman Department of Emergency Medicine, NYU Grossman School of Medicine, New York, United States; 2New York City Poison Control Center, New York, United States.
229 A case series of hydroxychloroquine poisoning in Australia
Betty Shuk Han Chan1, Katherine Z Isoardi1, Geoffrey K Isbister1, Angela L Chiew1.
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230 A case report of hydroxychloroquine poisoning
Betty Shuk Han Chan1, Nicholas A Buckley2.
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231 A case of severe serotonin syndrome
Ildikó Urbán1, Ágnes Szombath2.
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232 Usefulness of intravenous lipid emulsion for the management of cardiac toxicity in acute flecainide overdose
Gaspar Tuero1, Jesús González1, Néstor González1, Isabel Gomila2, Laura Sahuquillo2, Miguel A Elorza4, Bernardino Barceló5.
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233 Nothing is as it seems: Hypoglycaemia, serotonin syndrome and arrhythmic storm in a non-diabetic patient.
Lorenzo Socias1, María Ortega1, María Sala1, Isabel Gomila2, Miguel Servera2, Miguel Elorza3, Bernardino Barceló4.
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234 Serotonin toxicity in a confirmed overdose of fluoxetine and lamotrigine
Brian G Wiener1, Silas W Smith1, Mary Ann Howland2, Rana Biary1, Mark K Su3.
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235 Fluoxetine toxicity in a neonate due to maternal exposure with apparent improvement on cessation of breastfeeding
Nathaniel I Keymer1, Akshay Phakey2, Sally M Bradberry3, Euan A Sandilands4, Ruben HK Thanacoody5, Laurence A Gray6.
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236 Relative toxicity of calcium channel blockers
Geoffrey K Isbister, Shane Jenkins, Michael A Downes.
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University of Virginia, Charlottesville, United States.
Accidental child exposure to a fentanyl patch: what is the lesson?
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First series of massive paracetamol overdose cases: risk factors for hepatotoxicity
Isabel Gomila1, Jordi Puiguriguer2, Yolandada Ibáñez3, Guillermo Frontera4, Catalina Homar2, Miguel Elorzas5, Bernardino Barceló5.
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Management of severe salicylate toxicity compromised by staff shortages
Ryan J Cole, Will R Goodrich, Aaron S Frey, Nathan P Charlton, Christopher P Holstege. Division of Medical Toxicology, Department of Emergency Medicine, University of Virginia Health, Charlottesville, United States.

Self-induced pregabalin coma successfully resolved using continuous renal replacement therapy
Lotte C G Høegbjerg1, Visti T Nielsen2, Søren Begevig3. 1The Danish Poisons Information Centre; Department of Anaesthesia and Intensive Care, Copenhagen University Hospital - Bispebjerg and Frederiksberg, Copenhagen, Denmark; 2Department of Anaesthesia and Intensive Care, Copenhagen University Hospital - Bispebjerg and Frederiksberg, Copenhagen, Denmark; 3The Danish Poisons Information Centre; Department of Clinical Pharmacology, Copenhagen University Hospital - Bispebjerg and Frederiksberg, Copenhagen, Denmark.

Clinical characteristics of acute lacosamide poisoning: a case series
Lucia Bernasconi1, Azzurra Schicchi2, Valeria M Petrolini1, Benedetta Broli1, Monica Carnovale1, Alberto Malovini3, Francesca Crema3, Carlo A Locatelli1. 1Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti CliniciScientifici Maugeri IRCCS, Postgraduate School of Pharmacology and Clinical Toxicology, University of Pavia, Pavia, Italy; 2Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti CliniciScientifici Maugeri IRCCS, Pavia Institute. Experimental Medicine PhD Program, University of Pavia, Pavia, Italy; 3Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti CliniciScientifici Maugeri IRCCS, Pavia Institute, Pavia, Italy; 4Laboratory of Informatics and Systems Engineering for Clinical Research, Istituti CliniciScientifici Maugeri IRCCS, Pavia Institute, Pavia, Italy; 5Department of Internal Medicine and Therapeutics, Section of Pharmacology, University of Pavia, Pavia, Italy.

Severe valproate intoxication with delayed toxicity because of pharmacobezoar formation with in vitro verification
Miriam Mayor1, Thais Lizondo2, Emilio Salgado3, Silvia González2, Carmen López2, Carlos García1. 1Hospital Clinic of Barcelona - Internal Medicine, Barcelona, Spain; 2Hospital Clinic of Barcelona - Hospital Pharmacy, Barcelona, Spain; 3Hospital Clinic de Barcelona - Toxicology Department, Barcelona, Spain.

Outcome of acetaminophen-poisoned patients admitted to a non-liver intensive care unit with liver failure: an observational cohort study
Alice Vottero1, Bruno Mégarbane2. 1Department of Medical and Toxicological Critical Care, Lariboisière Hospital, INSERM UMRS-1144, Paris Cité University, Paris, France; 2Department of Medical and Toxicological Critical Care, INSERM UMRS-1144, Paris Cité University, Paris, France.
The association between paracetamol dose/plasma concentration and the severity of methemoglobinemia: a case-control study
Tonny S Petersen1, Alaa Daoud1, Søren Bøgevig2, Lotte C G Høgberg3.
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Brugada phenocopy after successful bicarbonate resuscitation in a patient with severe amitriptyline overdose
Hospital Clinic i Provincial de Barcelona, Barcelona, Spain.

The SNAP Protocol: further benefits, further afield
Ruadhan O Laoi1, Cormac Kennedy1, Emer Kidney1, Arthur Hennessy1.
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Paediatric overdoses of melatonin: data from a national poison center
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Acetaminophen/opioid combination in overdose: can opioid-related toxicity be observed without acetaminophen poisoning?
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Indigestion: endoscopic removal and whole bowel irrigation in a patient with a pharmacobezoar
Elia Morando1, Camilla Vecchi2, Giorgio Ricci1, Giovanni Mantelli1, Matilde Bacchion1, Ilaria Costantini1.
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TOXICITY IN SPECIFIC ORGS

Low volume therapeutic plasma exchange with low dose steroid therapy as treatment of toxin-induced acute liver failure: a case series
Varada Aravindan1, Indira Madhavan2, Rohith Sasidharan2, Ajmal NM2.
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Cocaine-associated chest pain risk factors: a single centre experience
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