43rd Congress of the European Association of Poisons Centres and Clinical Toxicologists

23-26 MAY 2023 | PALMA (MALLORCA. SPAIN)

EAPCCT

PROGRAMME

European Association of
Poisons Centres and Clinical Toxicologists

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European Association of
Poisons Centres and Clinical Toxicologists

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GENERAL INFORMATION

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

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CONGRESS SECRETARIAT

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C/ Marià Cubí, 4 - Pral | 08006 · Barcelona
Tel. +34 932.388.777 · Fax: +34 932.387.488
eapcct2023@pacifico-meetings.com

SOCIAL PROGRAMME

WELCOME RECEPTION

WEDNESDAY 24TH MAY 2022 - 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

Castell de Bellver
Museu d'Història de la Ciutat

Ajuntament de 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 aproved 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 this has been booked.

Pre-Congress Tuesday 23rd May 2023

Toxic effects at therapeutic doses

European Association of
Poisons Centres and Clinical Toxicologists

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.

12:30-13:30 **LUNCH**

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, aassociated medications, possible risk factors and treatment options.
- To understand the toxic consequences of metformin overdose
- To know the difrerences 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.

MAIN CONGRESS

Wednesday 24th May 2023

European Association of
Poisons Centres and Clinical Toxicologists

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

11:20-11:40 **The 2006 London Polonium-210 Case: A Clinical Overview**
[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.
- 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 tts 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 Résière

15:45-16:10 **Venomous jelly fish in the Mediteranean 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.**

MAIN CONGRESS

Thursday 25th May 2023

European Association of
Poisons Centres and Clinical Toxicologists

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 nicotionic 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**

SALA MOZART

14:05-16:00 **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, Belium*

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.

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

SALA MOZART

16:30-17:50 **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, *Shrevenport, 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

European Association of
Poisons Centres and Clinical Toxicologists

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, U*trecht, 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**

SALA MAGNA

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

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

SALA MAGNA

15:40-16:40 **SPECIAL SESSION: EAPCCT FELLOWS' LECTURE**
Moderators: Rick Dart & Allister Vale

The US fentanyl epidemic: dynamics in supply, use and policy response
Daniel Ciccarone, *San Francisco, USA*

At the end of this session, the audience should be able to:
- Describe the four waves of mortality in the 20-year US overdose crisis
- Discuss changes in supply and how they related to fentanyl and polysubstance use
- Identify policy and medical strategies to assist in reducing overdose deaths

16:40 **END OF SCIENTIFIC PROGRAMME CONGRESS DAY 3 & CLOSING OF THE CONGRESS**

20:00 **CONGRESS DINNER**

SALA MOZART

09:00-10:05 **NO PARALLEL SESSION**

SALA MOZART

10:05-11:05 **SPECIAL SESSION: BEST PAPER**
Moderators: Piotr Kabata & Darren Roberts

10:05-10:20 **Paper 1**
[15 min]
Temporal trends in calls for suicide attempts to poison control centers in France during the COVID-19 pandemic: a nationwide study.
Jollant F, Blanc-Brisset I, Cellier M, Ambar Akkaoui M, Tran VC, Hamel JF, Piot MA, Nourredine M, Nisse P; French Poison Center Control Research Group; Hawton K, Descatha A, Vodovar D.
Eur J Epidemiol. 2022 Sep;37(9):901-913. doi: 10.1007/s10654-022-00907-z. PMID: 36040638
Arjen Koppen, *Utrecht, The Netherlands*

10:20-10:35 **Paper 2**
[15 min]
Andexanet Alfa for Reversal of Factor Xa Inhibitors in Intracranial Hemorrhage: Observational Cohort Study.
Rauch S, Müller HP, Dreyhaupt J, Ludolph AC, Kassubek J, Althaus K.
J Clin Med. 2022 Jun 13;11(12):3399.
doi: 10.3390/jcm11123399. PMID: 35743469.
Mark Pucci, *Birmingham, UK*

10:35-10:50 **Paper 3**
[15 min]
Diagnosis, Management, and Prevention of Button Battery Ingestion in Childhood: A European Society for Paediatric Gastroenterology Hepatology and Nutrition Position Paper.
Mubarak A, Benninga MA, Broekaert I, et al.
J Pediatr Gastroenterol Nutr. 2021 Jul 1;73(1):129-136. doi: 10.1097/MPG.0000000000003048. PMID: 33555169
Cathelijne Lyphout, *Ghent, Belgium*

10:50-11:05 **Paper 4**
[15 min]
ToxNet: an artificial intelligence designed for decision support for toxin prediction.
Zellner T, Romanek K, Rabe C, Schmoll S, Geith S, Heier EC, Stich R, Burwinkel H, Keicher M, Bani-Harouni D, Navab N, Ahmadi SA, Eyer F.
Clin Toxicol (Phila). 2023 Jan;61(1):56-63.
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

11:05-11:35 **COFFEE AND AUTHORS WITH POSTERS**

SALA MOZART

11:35 -12:55 **SYMPOSIUM: ORGAN TRANSPLANTATION FROM INTOXICATED DONORS**
Moderators: Rana Biary & Paul Dargan

11:35-11:55 **Organ Transplantation in Intoxicated Patients – is there a network and criteria to be used**
[20 min]
Giovanna Panarello, *Palermo, Italy*

11:55-12:15 **Poisoned donors after brain death or cardiocirculatory death: the challenges of diagnosis and graft outcome**
Philippe Hantson, *Brussels, Belgium*

12:15-12:35 **Organ transplantation from methanol poisoned donors**
[20 min]
Yvonne Lao, *Oslo, Norway*

12:35-12:55 **Organ pransplantation following intoxication with psychoactive substances**
[20 min]
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

12:55-13:40 **LUNCH**

13:40-14:10 **AUTHORS WITH POSTERS**

SALA MOZART

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, P*aris, 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

European Association of
Poisons Centres and Clinical Toxicologists

Posters 24th May 2023

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 Heath, 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**
Arjen Koppen, Ilze MJ Thoonen, Agnes G Van Velzen, Claudine C Hunault, Dylan W De Lange, Saskia J Rietjens.
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 Brusin[1], Meital Zikry Deitch[1], Elena Kishenevsky[1], Arkady Shklyar[1], Gennady Bregman[1], Hasan Agbaria1, Haytham Attoun1, Knut Erik Hovda[2].
[1]Kaplan Medical Center, Rehovot, Israel; [2]Dep. Acute Medicine Oslo University Hospital, Oslo, Norway.

012 **The impact of socioeconomic status on toxicological exposures in pregnancy**
Will Heise[1], Stephanie Christensen[2], Laura Mercer[1].
[1]University of Arizona College of Medicine Phoenix, Phoenix, United States; [2]Kaiser 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 Watt[1], Thomas M Caparrotta1, Ruben HK Thanacoody[2], Laurence A Gray[3], Sally Bradberry[4], Gillian Jackson[1], Euan A Sandilands[1].
[1]NPIS Edinburgh, Edinburgh, United Kingdom; [2]NPIS Newcastle, Newcastle Upon Tyne, United Kingdom; [3]NPIS Cardiff, Cardiff, United Kingdom; [4]NPIS 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 Ho[1], Wen-Chieh Yang[2], Te-I Weng[3].
[1]National Taiwan University Hospital, Taipei, Taiwan; [2]Taipei Veterans General Hospital Hsinchu Branch, Hsinchu, Taiwan; [3]Department 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 Vandijck[1], Jonas Van Baelen[1], Eline Bekaert[1], Evelien De Smet[1], Jonas Moens[2], Pamela Selway[1], Régine Pire[1], Sarah Desmaele[1], Karolien De Leener[1], Anne-Marie Descamps[1].
[1]Belgian Poison Centre, Brussels, Belgium; [2]Belgian, Brussels, Belgium.

021 **Severity and outcome in acutely intoxicated patients with elevated creatine kinase**

Aleksandra Babulovska, Daniela Chaparoska, Natasha Simonovska, Zanina Pereska, Niko Bekjarovski, Irena Jurukov, Afrodita Berat-Huseini, Kristin Kostadinoski, Kiril Naumoski.
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 Pelissier[1], Juliette Bloch2, Cécilia Solal[2], Nicolas Franchitto[3].
[1]Centre Antipoison et Toxicovigilance Occitanie, Centre Hospitalier et Universitaire de Toulouse-Purpan, Toulouse, France; [2]ANSES, Maisons-Alfort, France; [3]Service 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 Sateler[1], Marli Bettini[2], Lorena Silva[2], Patricio Medel[3], Pablo Iturra[1], Francisco Figueroa[2], Lisette Irarrázabal[4], Juan Carlos Ríos[5].
[1]Programa de Farmacología y Toxicología Pontificia Universidad Católica de Chile, Santiago, Chile; [2]Centro de Información Toxicológica Pontificia Universidad Católica de Chile (CITUC), Santiago, Chile; [3]Centro 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; [4]Escuela de Enfermería Pontificia Universidad Católica de Chile, Santiago, Chile; [5]Centro 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-Jara[1], Lorena Silva2, Marli Bettini[2], Claudio Retamal2, Francisco Figueroa2, Sandra Solari3, Juan Carlos Ríos[3].
[1]Centro 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;[2]Centro de Información Toxicológica y de Medicamentos (CITUC), Facultad de Medicina, Pontificia Universidad Católica de Chile, Santiago, Chile; [3]Centro 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 Hondebrink.
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-Ruiz[1], Mario Angulo-Artal[2], Ana Serrano-Ferrer[3], Rafael Marron-Tundidor[4], Ana Ferrer-Dufol[5].
[1]Emergency Department. Unit of Clinical Toxicology. Hospital Clínico Universitario, Zaragoza, Spain; [2]Universidad de Zaragoza, Zaragoza, Spain; [3]Hospital Clínico Universitario, Zaragoza, Spain; [4]Servicio Aragones de Salud, Zaragoza, Spain; [5]Unit of Clinical Toxicology. Hospital Clinico Universitario, Zaragoza, Spain.

029 **The rise in edible marijuana related calls following cannabis decriminalization: one poison center's experience**

Rita Farah, Will R. Goodrich, Ryan J. Cole, Christopher P. Holstege.
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 García[1], Álvaro Medina Guerrero[2], Marina Fages Pérez[3], Yolanda Ibáñez Borau[4], Beatriz Calderón Hernanz[2], Montserrat Vilanova Boltó[2], Miguel Agudo García[4].
[1]Hospital Pharmacy Department, Hospital Universitario de Ourense, Ourense, Spain; [2]Hospital Pharmacy Department, Hospital Universitario Son Llàtzer, Palma de Mallorca, Spain; [3]Hospital Pharmacy Department, Hospital de la Línea, Cádiz, Spain; [4]Emergency 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 Toxicosurveillance Program**

Ana Serrano[1], Francisco Ruiz[2], Ana Ferrer[3].
[1]Psiquiatría Hospital Clínico universitario, Zaragoza, Spain; [2]Urgencias, Zaragoza, Spain; [3]Toxicología, Zaragoza, Spain.

034 **Pandemic and post-pandemic intoxications in the intensive care unit (ICU) of a general public hospital**

Clara Serrano Ferrer[1], Laura Sanchez[2], Sara Gomez[3], Elena Lacruz[4], Ana Serrano[5], Ana Ferrer Dufol[6], Begoña Zalba[7].
[1]ICU. "Príncipe de Asturias" Hospital, Alcalá de Henares, Spain; [2]ICU. Clinical University Hospital, Zaragoza, *Spain; [3]ICU. Clinic University Hospital, Zaragoza, Spain; [4]ICU. Clinic University Hospital, Zaragoza, Spain; [5]Psychiatric Unit. Clinic University Hospital, Zaragoza, Spain; [6]Unit of Clinical Toxicology. Clinic University Hospital, Zaragoza, Spain; [7]Intensive Care Unit.Clinic University Hospital, Zaragoza, Spain.*

035 **Hospital-treated deliberate self-poisoning in Azerbaijan: epidemiological features and clinical outcomes**

Ismayil Afandiyev[1], Jamil Afandiyev[2].
[1]Clinical Toxicology, Baku, Azerbaijan; [2]Department of Psychiatry, Baku, Azerbaijan.

036 **Intentional ingestions in children and adolescents as a worldwide phenomenon**

Anna A Celentano[1], Alvin A Bronstein[2], Marcello M Ferruzzi[1], Fabrizio F Sesana[1], Giovanni M Milanesi[1], Francesco F Scaglione1.
[1]Milan Poison Control Center, ASST Grande Ospedale Metropolitano Niguarda, Milan, Italy; [2]Emergency 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 Brilli1, Giada Crescioli[1], Francesco Gambassi[2], Andrea Missanelli[2], Alessandra Ieri[2], Cecilia Lanzi[2], Alessandra Pistelli[2], Arianna Totti[2], Alfredo Vannacci[1], Guido Mannaioni[1], Niccolò Lombardi[1].
[1]Department of Neurosciences, Psychology, Drug Research and Child Health, Section of Pharmacology and Toxicology, University of Florence, Florence, Italy, Florence, Italy; [2]Medical Toxicology Unit and Poison Control Center, Careggi University Hospital, Florence, Italy, Florence, Italy.

039 **Drug poisoning: data analysis from the Poison Control Center in Florence, Italy (2018-2020)**

Francesco Gambassi[1], Guido Mannaioni[2], Cecilia Lanzi[1], Alessandra Pistelli[1], Simone Sartori[2], Andrea Burgalassi[2], Brunella Occupati[2], Alessandra Ieri[2].
[1]Medical Toxicology Unit and Poison Center, Careggi University Hospital, Florence, Italy; [2]NEUROFARBA 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 Spadaro[1], Jeanmarie Perrone[1], Lakamana Sahithi[2], Karen O'connor[1], Rachel Wightman[3], Jennifer Love[4], Abeed Sarker[2].
[1]University of Pennsylvania, Philadelphia, United States;[2]Emory University, Atlanta, United States; 3Brown University, Providence, United States; [4]Mount 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 Wijnands[1], Irma De Vries[1], Tim Verbruggen[1], Maxim Carlier[1], Dylan W De Lange[2], Saskia J Rietjens[1].
[1]Dutch Poisons Information Center, University Medical Center Utrecht, University Utrecht, Netherlands; [2]Dutch 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 Andersen[2], Steen K Barnung[2], Lotte C G Høgberg[3].
[1]The Danish Poisons Information Centre; Depatment of Occupational and Environmental Medicine, Copenhagen University Hospital - Bispebjerg and Frederiksberg, Copenhagen, Denmark; [2]Department of Anaesthesiology, Centre of Head and Orthopaedics, Copenhagen University Hospital - Rigshospitalet, Copenhagen, Denmark; [3]The 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 Hammer[1], Lotte C G Høgberg[2].
[1]Danish Poison Information Centre; Department of Occupational and Environmental Medicine, Copenhagen, Denmark; [2]Danish 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 Gnirke[1], Joshua Bloom[1], Ramya J Sivasubramanian[2], David Sardar[2], Anna Mai[3], Samara Soghoian[1], Robert S Hoffman[1], Sage W Wiener[3].
[1]Division of Medical Toxicology, Ronald O. Perelman Department of Emergency Medicine, NYU Grossman School of Medicine, New York City, United States; [3]Department of Pediatrics, SUNY Downstate Health Sciences University, Brooklyn, United States; [3]Department 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 Qiang[1], Fahim Mohamed[2], Nicholas A Buckley[3], Lorraine Mackenzie[1], Michael S Roberts[4].
[1]University of South Australia Clinical and Health Sciences, University of South Australia, Adelaide, Australia; Therapeutics Research Centre, Basil Hetzel Institute for Translational Health Research, The Queen Elizabeth Hospital, Adelaide, Australia; [2]South 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; [3]Translational Australian Clinical Toxicology (TACT) Research Group, Biomedical Informatics and Digital Health, Faculty of Medicine and Health, The University of Sydney, Sydney, Australia; [4]Therapeutics 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 Plessis[1], Carine J Marks[1], Cindy R Stephen[2].
[1]Stellenbosch University, Cape Town, South Africa; [2]University 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 Carnovale1, Lucia Bernaconi1, Davide Lonati2, Azzurra Schicchi2, Valeria M Petrolini2, Bendetta Brolli[1], Valentina Negrini[1], Olha Maystrova[2], Francesca Crema[3], Carlo A Locatelli[2].
[1]Pavia 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; [2]Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti Clinici Scientifici Maugeri IRCCS, Pavia, Italy; [3]Department 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[1], Nicholas Otts[2], Mary Ann Howland[3], Mark K Su[4].
[1]Division of Medical Toxicology, Ronald O. Perelman Department of Emergency Medicine, NYU Grossman School of Medicine, New York City, United States; [2]Division of Pediatric Emergency Medicine, Westchester Medical Center, Valhalla, United States; [3]St. John's University College of Pharmacy and Health Sciences, Queens, United States; [4]New 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[1], Ruben HK Thanacoody[2], Laurence A Gray[3], Sally Bradberry[4], Euan A Sandilands[1].
[1]NPIS Edinburgh, Royal Infirmary of Edinburgh, Edinburgh, United Kingdom; [2]NPIS Newcastle, Regional Drug and Therapeutics Centre, Newcastle upon Tyne, United Kingdom; [3]NPIS Cardiff, University Hospital Llandough, Cardiff, United Kingdom; [4]NPIS Birmingham, City Hospital, Birmingham, United Kingdom.

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

060 **Surprising lack of symptoms after potentially dangerous colchicine poisoning from Gloriosa superba (glory lily) tea**
Erik Borski[1], Michael Deters[1], Katja Schulz[2], Joerg Pietsch[3], Anne Stuerzebecher[1].
[1]Poisons Information Centre Erfurt, Erfurt, Germany; [2]Technische Universität Dresden, Dresden, Germany; [3]Technische 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[1], Molly Kaminsky[2], Trevor Cerbini[1], Cynthia Santos[1], Diane Calello[1], Howard Greller[1], Christopher Meaden[1], Lewis Nelson[1].
[1]Rutgers NJMS - NJPIES, Newark, United States; [2]Morristown 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[1], S Eliza Dunn[2].
[1]Toxikon Consortium, Chicago, United States; [2]Bayer Crop Science, St. Louis, United States.

066 **Acute cyanide poisoning due to ingestion of the seeds containing amygdalin in Slovenia, 2019–2021**

Ana Mavrič[1], Gašper Razinger[1], Lucija Šarc[1], Miran Brvar[2].
[1]Centre of Clinical Toxicology and Pharmacology, University Medical Centre Ljubljana, Ljubljana, Slovenia; [2]Centre of Clinical Toxicology and Pharmacology, University Medical Centre Ljubljana and Centre for Clinical Physiology, Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia.

067 **Anticholinergic syndrome due to mushroom poisoning: a case series**

Benedetta Brolli[1], Cristina Grazioli[1], Valentina Negrini[1], Azzurra Schicchi[2], Valeria M Petrolini[2], Davide Lonati[2], Francesca Crema[3], Carlo A Locatelli[2].
[1]Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti Clinici Scientifici Maugeri IRCCS, Pavia Institute, Postgraduate School of Pharmacology and Clinical Toxicology, University of Pavia, Pavia, Italy; [2]Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti Clinici Scientifici Maugeri IRCCS, Pavia Institute, Pavia, Italy; [3]Department of Internal Medicine and Therapeutics, Section of Pharmacology, University of Pavia, Pavia, Italy.

TOXIC TRAUMA – SPECIAL CONSIDERATIONS

(EXPOSURE OF MEDICAL STAFF / RE-INTOXICATION / MANAGEMENT IN PRE-HOSPITAL SETTINGS AND EMS)

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

Maria Àngels Gispert-Ametller[1], Juliana González-Londoño[2], Raquel Aguilar-Salmerón[3], Miguel Galicia-Paredes[4], Santiago Nogué-Xarau[5], Lídia Martínez-Sánchez[6], Albert Obiols-González[7], August Supervía-Caparrós[8].
[1]Emergency Department. Hospital Universitari Doctor Josep Trueta, Girona, Spain; [2]Intensive Care Unit. Hospital Santa Caterina., Girona, Spain; [3]Pharmacy Service. Hospital Universitari Doctor Josep Trueta, Girona, Spain; [4]Emergency Department. Hospital Clínic, Barcelona, Spain; [5]Fundación Española de Toxicología Clínica, Barcelona, Spain; [6]Emergency Department. Hospital Sant Joan de Déu, Barcelona, Spain; [7]Sistema d'Emergències Mèdiques, Barcelona, Spain; [8]Emergency Department. Hospital del Mar, Barcelona, Spain.

TOXICOLOGICAL ASPECTS OF WAR AND WARFARE

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

Jacqueline S Rioux, Carly A Johnson, Julie W Harral, Mohamed S Basiouny, Leslie A Bloomquist, Shenali R Uragoda, Denver Armstrong, Jasmine Martinez, Carl W White, Livia A Veress.
University of Colorado, Department of Pediatrics, Denver, United States.

TOXINOLOGY (BITES, STINGS, ANTIVENOM ETC.) / MEDITERRANEAN MARINE TOXICOLOGY

070 **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 Antuña[1], Celia Piñero[1], Marta Lobo Antuña[2], Benjamin Climent[1].
[1]Consorcio Hospital General Universitario de Valencia, Valencia, Spain; [2]Hospital 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 Celentano[1], Giovanni G Sesana[2], Carmela C Graci[2], Paolo P Pantini[3], Marcello M Ferruzzi[1], Francesco F Scaglione[1].
[1]Milan Poison Control Center, ASST Grande Ospedale Metropolitano Niguarda, Milan, Italy; [2]Hyperbaric Medicine Center, ASST Grande Ospedale Metropolitano Niguarda, Milan, Italy; [3]Civic Museum of Natural Sciences "E. Caffi", Bergamo, Bergamo, Italy.

074 **Compartment syndrome after Italian viper bite: two case reports**
Lucia Bernasconi[1], Monica Carnovale[1], Davide Lonati[2], Benedetta Brolli[1], Valentina Negrini[1], Cristina Grazioli1, Francesca Crema3, Carlo A Locatelli[2].
[1]Pavia 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; [2]Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti Clinici Scientifici Maugeri IRCCS, Pavia, Italy; [3]Department of Internal Medicine and Therapeutics, Section of Pharmacology, University of Pavia, Pavia, Italy.

075 **Failure of viper antivenom therapy and the need for an effective antidote: an Italian pediatric case series**
Lucia Bernasconi[1], Davide Lonati[2], Azzurra Schicchi[2], Benedetta Brolli[1], Cristina Grazioli[1], Valentina Negrini[1], Monica Carnovale[2], Francesca Crema[3], Carlo A Locatelli[2].
[1]Pavia 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; [2]Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti Clinici Scientifici Maugeri IRCCS, Pavia, Italy; [3]Department of Internal Medicine and Therapeutics, Section of Pharmacology, University of Pavia, Pavia, Italy.

076 **Portuguese man o' war: heart attack! First case of Physalia physalis cardiotoxicity reported in Italy**
Valentina Negrini[1], Cristina Naturale[2], Valentina Negrini[1], Monica Carnovale[1], Cristina Grazioli[1], Elena Mattiuzzo[2], Giulia Scaravaggi[2], Valeria M Petrolini2, Francesca Crema[3], Carlo A Locatelli[2].
[1]Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental *Lab, Toxicology Unit, Istituti Clinici Scientifici Maugeri IRCCS, Pavia Institute. Postgraduate School of Pharmacology and Clinical Toxicology, University of Pavia, Pavia, Italy; [2]Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti Clinici Scientifici Maugeri IRCCS, Pavia Institute, Pavia, Italy; [3]Department of Internal Medicine and Therapeutics, Section of Pharmacology, University of Pavia, Pavia, Italy.*

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.
Veterinary Poisons Information Service, London, United Kingdom.

079 **Nitroscanate toxicosis in cats and dogs**
Nicola Bates, Zoe Tizzard, Nick Edwards.
Veterinary Poisons Information Service, London, United Kingdom.

PHARMACEUTICAL POISONING

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 epilepticus in the setting of an intentional ingestion of propranolol: a case report**
Samantha S. Klein[1], Mark K Su[2].
[1]Division of Medical Toxicology Ronald O. Perelman Department of Emergency Medicine, New York University School of Medicine, New York, United States; [2]New 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.
University of California San Francisco, San Francisco, California, USA; California Poison Control System – San Francisco Division, San Francisco, California, United States.

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BOTULISM

101 **Wound botulism following intravenous methamphetamine use**
Balveena K Dhaliwal[1], Andrew Henderson[2], Jessica Qiu[2], Naren Gunja[3].
[1]Western Sydney Toxicology Services, Kellyville, Australia; [2]Department of Neurology, Westmead Hospital, New South Wales, Australia; [3]Western Sydney Toxicology Services, Sydney, Australia.

102 **A case of foodborne botulism type E**
Karolien De Leener[1], Bram Depelseneer[2], Jonas Moens[1], Dominique Vandijck[1], Anne-Marie Descamps[1].
[1]Belgian Poison Centre, Brussels, Belgium; [2]ZNA Middelheim, Antwerp, Belgium.

MISCELLANEOUS

103 **Severe neurological sequelae of carbon monoxide poisoning**
Balveena K Dhaliwal[1], Chong Wong[2], Naren Gunja[1].
[1]Western Sydney Toxicology Services, NSW, Australia; [2]Department of Neurology, Westmead Hospital, NSW, Australia.

104 **Factors associated with hospitalization for acute recreational drug toxicity**
Viktoria T Aasgaard, 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 Stevens[1], Erik Lindeman[1], Andreas Blomgren[2].
[1]Swedish Poisons Information Centre, Solna, Sweden; [2]Swedish Medical Products Agency, Uppsala, Sweden.

107 **Recreational use of nitrous oxide – a growing concern in Europe**
Joanna De Morais[1], Leon Van Aerts[2], Michael Evans-Brown[1], Ana Gallegos[1], Rachel Christie[1], Rita Jorge[1], Thomas Néfau[1], Gregorio Planchuelo[1], Roumen Sedefov[1], Caroline Victorri-Vigneau[3], Rasa Povilanskienė[4], Kari Grasaasen[5], Dorte Fris Palmqvist[6], Deirdre Mongan[7], Nicki Killeen[8], António Óscar Duarte[9].
[1]European Monitoring Centre for Drugs and Drug Addiction, Lisbon, Portugal; [2]Section Pharmacology, Toxicology and Biotechnology, College ter Beoordeling van Geneesmiddelen, Medicines Evaluation Board, Utrecht, Netherlands; [3]Clinical Pharmacology Department, Center for Evaluation and Information on Pharmacodependence – Addictovigilance, Nantes University Hospital, Nantes, France; [4]Drug precursors control and risk assessment division, Drug, Tobacco and Alcohol Control Department of Lithuania, Vilnius, Lithuania; [5]Danish Health Authority, Copenhagen, Denmark; [6]Department of Anesthesia and Intensive Care, The Danish Poisons Information Centre, Copenhagen University Hospital Bispebjerg, Copenhagen, Denmark; [7]Health Research Board, Dublin, Republic of Ireland; [8]Health Service Executive, Dublin, Republic of Ireland; [9]Divisão de Relações Internacionais, Serviço de Intervenção nos Comportamentos Aditivos e nas Dependências, Lisbon, Portugal.

108 **Predicting the need for Intensive Care Unit (ICU) admission in acutely intoxicated adult patients at the Emergency Department (ED)**
Claudine C Hunault[1], Samanta M Zwaag[1], Irma S Van Den Hengel-Koot[1], Saskia J Rietjens[1], Laura Hondebrink[1], Douwe Dekker[2], Dylan W De Lange[3].
[1]Dutch National Poisons Information Centre (DPIC), University Medical Center Utrecht, Utrecht, Netherlands; [2]Dutch National Poisons Information Centre (DPIC), University Medical Center Utrecht; Department of Emergency Medicine, University Medical Center Utrecht, Utrecht, Netherlands; [3]Dutch National Poisons Information Centre (DPIC), University Medical Center Utrecht; Department of Intensive Care Medicine, University Medical Center Utrecht, Utrecht, Netherlands.

109 **Gamma-hydroxybutyrate (GHB) intoxication: clinical diagnosis versus laboratory findings**
Didrik Skjelland[1], Benedicte M Jørgenrud[2], Karsten Gundersen[3], Mari Asphjell Bjørnaas[4], Mette Brekke[1], Vivian M Dalaker[1], Håvard Furuhaugen[2], Odd M Vallersnes[1].
[1]Department of General Practice, University of Oslo, Oslo, Norway; [2]Section of Drug Abuse Research, Department of Forensic Sciences, Oslo University Hospital, Oslo, Norway; [3]Department of Medicine, Lovisenberg Diaconal Hospital, Oslo, Norway; [4]Department of Acute Medicine, Oslo University Hospital Ullevaal, Oslo, Norway.

110 **A febrile syndrome with a broad differential diagnosis**
Juan Ortega Pérez[1], Meritxell Vidal Borràs[2], Carlos Rafael Álvarez Ferrer[1], Catalina Homar Amengual[3], María Del Carmen Rodríguez Ocejo[1], Maria Codinach Martín[2], Bernardino Comas Díaz[1], Jordi Puiguriguer Ferrando[1].
[1]Physician, Palma de Mallorca, Spain; [2]Physician, Girona, Spain; [3]Nurse, Palma de Mallorca, Spain.

201 **Alcohol intoxication in adolescence can affect the behavior of young people in the future**
Juan Ortega Perez[1], Laura Riera Lopez[2], Jordi Puiguriguer Ferrando[1], Catalina Homar Amengual[3], Meritxell Vidal Borras[4], Maria Codinach Martin[4], Bernardino Barcelo Martin[5], Bernardino Comas Diaz[1].
[1]Physician, Palma de Mallorca, Spain; [2]Psychology, Palma de Mallorca, Spain; [3]Nurse, Palma de Mallorca, Spain; [4]Physician, Girona, Spain; [5]Clinical Analysis, Palma de Mallorca, Spain.

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 Meyer[1], Dominique Savary[2], Marie Deguigne[1], Alexis D'Escatha[1].
[1]Poison Control Center, Angers, France; [2]Emergency department, Angers, France.

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 Antuña[1], David Rodrigo Domiguez[1], Marta Lobo Antuña[2], Sofia Russo Botero[1], Miriam Ripoll Martínez[1], Benjamin Climent[1].
[1]Consorcio Hospital General Universitario de Valencia, Valencia, Spain; [2]Hospital Fundación Jiménez Díaz, Madrid, Spain.

115 **Cocaine body packer: a case report**
Gabija Valauskaite[1], Haris Jakavicius[2], Gabija Laubner-Sakalauskiene[2], Robertas Badaras[2].
[1]Department of Intensive Care Medicine, Lithuanian University of Health Sciences, Kaunas, Lithuania; [2]Toxicology center, Republic Vilnius university hospital, Vilnius, Lithuania.

116 **The teratogenic risk of caffeine in pregnancy**
Mariapina Gallo, Georgios Eleftheriou, Andrea Giampreti, Lorella Faraoni, Marco Cirronis, Maria Gioia Contessa, Giuseppe Bacis.
Bergamo Poison Control Center, ASST Papa Giovanni XXIII, Bergamo, Italy, Bergamo, Italy.

117 **Massive caffeine ingestion without severe poisoning: a case report**
Georgios Eleftheriou[1], Raffaella Butera[2], Mariapina Gallo[2], Andrea Giampreti[2], Lorella Faraoni[2], Marco Cirronis[1], Maria Gioia Contessa[1], Eliana Margutti[3], Giuseppe Bacis[1].
[1]Bergamo Poison Control Center, ASST Papa Giovanni XXIII, Bergamo, Italy, Bergamo, Italy; [2]Poison Control Center, ASST Papa Giovanni XXIII, Bergamo, Italy, Bergamo, Italy; [3]Emergency Department, ASST Papa Giovanni XXIII, Bergamo, Italy, Bergamo, Italy.

118 **Autoimmune diseases related to cocaine use: a case series**
Macarena L Míguez Del Águila[1], Gemma Alvarez Martinez[1], Antoni Castro Guardiola[1], Nuria Vilanova Anducas[1], Angels Gispert Ametller[2], Ana Merino Ribas[3], Carolina Lorencio Cardenas[4], Mercè Alsius Suñer[5].
[1]Department of Internal Medicine, Hospital Universitari Dr. J. Trueta de Girona, Girona, Spain; [2]Emergency Department, Hospital Universitari Dr. J. Trueta de Girona, Girona, Spain; [3]Department of Nephrology, Hospital Universitari Dr. J. Trueta de Girona, Girona, Spain; [4]Department of Intensive care, Hospital Universitari Dr. J. Trueta de Girona, Girona, Spain; [5]Department of clinical analysis, Hospital Universitari Dr. J. Trueta de Girona, Girona, Spain.

119 **Severe complications associated with cocaine abuse requiring intensive care unit (ICU) admission**
Clara Serrano Ferrer[1], Angela Ruiz García[2], Diego Beltrán Hernandez[1], Ana Oñoro Morales[2], Alejandra Acha Aranda[2], Ana Ferrer Dufol[3], Emilio Nevado Losada[2].
[1]ICU. Principe de Asturias Hospital, Alcalá de Henares, Spain; [2]Intensive Care Unit. Principe de Asturias Hospital, Alcalá de Henares, Spain; [3]Unit of Clinical Toxicology. Clinic University Hospital, Zaragoza, Spain.

120 **Continuous renal replacement therapy in poisoning**
Katja M K Lundquist[1], Lotte C G Høgberg[2], Søren Bøgevig[1].
[1]Department of Clinical Pharmacology, Copenhagen University Hospital - Bispebjerg and Frederiksberg, Copenhagen, Denmark; [2]Department of Anaesthesia and Intensive Care, Copenhagen University Hospital - Bispebjerg and Frederiksberg, Copenhagen, Denmark.

121 **Management of tetanus: an "off-topic" for a Poison Control Center?**
Monica Carnovale[1], Azzurra Schicchi[2], Lucia Bernasconi[1], Valentina Negrini[1], Davide Lonati[2], Valeria M Petrolini[2], Elena Mattiuzzo[2], Francesca Crema[3], Carlo A Locatelli[2].
[1]Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti Clinici Scientifici Maugeri IRCCS, Pavia Institute. Postgraduate School of Pharmacology and Clinical Toxicology, University of Pavia, Pavia, Italy; [2]Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti Clinici Scientifici Maugeri IRCCS, Pavia Institute, Pavia, Italy; [3]Department of Internal Medicine and Therapeutics, Section of Pharmacology, University of Pavia, Pavia, Italy.

122 **Bromoform ingestion causes gastrointestinal radioopacities, apparent hyperchloraemia and carboxyhaemoglobinaemia**
Darren M Roberts[1], Mina Roberts[2], Nazila Jamshidi[1].
[1]NSW Poisons Information Centre, Sydney Children's Hospitals Network, Sydney, Australia; [2]Emergency Medicine, The Canberra Hospital, Canberra, Australia.

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 Koutsogiannis[1], Sarah Hodgson[1], Rebekka Syrjanen[1], Rachelle Abouchedid[1], Jennifer Schumann[2].
[1]Victorian Poisons Information Centre, Melbourne, Australia; [2]Victorian 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 Greene[1], Rebekka Syrjanen[1], Rachelle Abouchedid[1], Sarah Hodgson[1], Zeff Koutsogiannis[1], Jennifer Schumann[2].
[1]Victorian Poisons Information Centre, Melbourne, Australia; [2]Victorian Institute of Forensic Medicine, Melbourne, Australia.

127 **Characterisation of illicit drug exposures within an early warning system: Medical record documentation performs poorly compared to comprehensive toxicological analysis of biofluid**

Rebekka Syrjanen[1], Jennifer Schumann[2], Sarah Hodgson[1], Rachelle Abouchedid[1], Zeff Koutsogiannis[1], Shaun Greene[1].
[1]Victorian Poisons Information Centre, Austin Health, Heidelberg, Victoria, Australia; [2]Victorian Institute of Forensic Medicine, Southbank, Victoria, Australia.

128 **Diphenidine, methoxyphenidine and related 1,2-diarylethylamine acute toxicity reported to the Euro-DEN Plus project**

David M Wood[1], Alison M Dines[2], Matthias E Liechti[3], Isabelle Giraudon[4], Fridtjof Heyerdahl[5], Knut Erik Hovda[6], Odd Martin Vallersnes[7], Oscar Miro[8], Christopher Yates[9], Euro-Den Plus Research Group[2], Paul I Dargan[1].
[1]Clinical Toxicology, Guy's and St Thomas' NHS Foundation Trust and Faculty of Life Sciences and Medicine, King's College London, London, United Kingdom; [2]Clinical Toxicology, Guy's and St Thomas' NHS Foundation Trust, London, United Kingdom; [3]Division of Clinical Pharmacology and Toxicology, University Hospital Basel and University of Basel, Basel, Switzerland; [4]European Monitoring Centre for Drugs and Drug Addiction (EMCDDA), Lisbon, Portugal; [5]Prehospital Division, Oslo University Hospital and The Norwegian Air Ambulance Foundation, Oslo, Norway; [6]The Norwegian CBRNE Centre of Medicine, Oslo University Hospital, Oslo, Norway; [7]Department of General Practice, Oslo University and Oslo Accident and Emergency Outpatient Clinic, City of Oslo Health Agency, Oslo, Norway; [8]Emergency Department, Hospital Clínic, IDIBAPS, University of Barcelona, Barcelona, Spain; [9]Emergency Department and Clinical Toxicology Unit, Hospital Universitari Son Espases, Mallorca, Palma, Spain.

129 **Characteristics of analytically confirmed novel opioid exposures in patients presenting to emergency departments within the state of Victoria, Australia**

Shaun Greene[1], Rachelle Abouchedid[1], Sarah Hodgson[1], Rebekka Syrjanen[1], Jennifer Schumann[2].
[1]Victorian Poisons Information Centre, Melbourne, Australia; [2]Victorian Institute of Forensic Medicine, Melbourne, Australia.

130 **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 Hodgson[1], Rachelle Abouchedid[1], Rebekka Syrjanen[2], Jennifer Schumann[2], Shaun L Greene[1].
[1]Victorian Poisons Information Centre, Melbourne, Australia; [2]Victorian Institute of Forensic Medicine, Melbourne, Australia.

131 **Counterfeit "Xanax®" tablets in Australia – more than you bargained for?**

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[1]Victorian Poisons Information Centre, Austin Health, Heidelberg, Victoria, Australia; [2]The Victorian Institute of Forensic Medicine, Southbank, Victoria, Australia.

132 **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 Abouchedid[1], Sarah Hodgson[1], Rebekka Syrjanen[1], Jennifer Schumann[2], Shaun Greene[1].
[1]Victorian Poisons Information Centre, Austin Health, Melbourne, Australia; [2]Drug Intelligence Unit, Victorian Institute of Forensic Medicine, Monash University, Melbourne, Australia.

133 **Trends in detections of unregistered benzodiazepines and counterfeit alprazolam in New South Wales, Australia**

Jared A Brown[1], Tracy Ho[1], Thanjira Jiranantakan[1], Una Cullinan[2], Nicole Wright[3], Christopher Ewers[2], Darren Roberts[3], Marissa Parry[1].
[1]NSW Ministry of Health, Sydney, Australia; [2]NSW Health Pathology, Sydney, Australia; [3]NSW Poisons Information Centre, Sydney, Australia.

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Weill Cornell Medicine, New York, United States.

135 **Rapid normalization of homocysteine after cessation of nitrous oxide exposure: a case series**

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Swedish Poisons Information Centre, Stockholm, Sweden.

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Dutch Poisons Information Center, Utrecht, Netherlands.

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National Poisons Information Centre (NPIC), Dublin, Republic of Ireland.

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[1]Department of Internal Medicine. Skåne University Hospita, Lund, Sweden; [2]Swedish Poisons Information Centre, Stockholm, Sweden.

139 **Antidotal effect of olanzapine in serotonin toxicity caused by a suicidal 3,4-methylenedioxymethamphetamine (MDMA) overdose**
Erik Lindeman[1], Linn Ottosson[2], Anders Helander[3].
[1]Swedish Poisons Information Centre, Stockholm, Sweden; [2]Department of Anaesthesiology and Intensive Care, Skaraborg Hospital, Skövde, Sweden; [3]Department of Laboratory Medicine, Karolinska Institutet and Karolinska University Laboratory, Stockholm, Sweden.

140 **Heat stroke associated with 3,4-methylenedioxymethamphetamine (MDMA) overdose treated with olanzapine**
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[1]Swedish Poisons Information Centre, Stockholm, Sweden; [2]Department of Internal Medicine, Kristianstad Central Hospital, Kristianstad, Sweden.

141 **First report of successful treatment of severe serotonin toxicity with levomepromazine**
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[1]Department of Intensive Care Medicine, Medical Centre Leeuwarden, Leeuwarden, Netherlands; [2]Department of Intensive Care Medicine and Department of Clinical Pharmacy and Pharmacology, Medical Centre Leeuwarden, Leeuwarden, Netherlands.

142 **Primaquine-induced methemoglobinemia treated with N-acetylcysteine: a case report**
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[1]Department of Neurosciences, Psychology, Drug Research and Child Health, Section of Pharmacology and Toxicology, University of Florence, Florence, Italy; [2]Medical Toxicology Unit and Poison Control Centre, Careggi University Hospital, Florence, Italy.

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[1]Michigan Poison & Drug Information Center, Wayne State University School of Medicine, Detroit, United States; [2]Wayne State University Eugene Applebaum College of Pharmacy and Health Sciences, Detroit, United States; [3]Biostatistics, Epidemiology, and Statistical Design (BERD), Wayne State University, Detroit, United States.

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University Medical Center Utrecht, Utrecht, Netherlands.

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Alabama Poison Information Center, Children's of Alabama, Birmingham, Alabama, United States.

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[1]National Poisons Information Service (Birmingham Unit), Birmingham, United Kingdom; [2]National Poisons Information Service (Edinburgh Unit), Edinburgh, United Kingdom; [3]National Poisons Information Service (Cardiff Unit), Cardiff, United Kingdom; [4]National 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.

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Patricia Casey[1], Edel Duggan[1], Sinead Mcmickan[2].
[1]National Poisons Information Centre of Ireland, Dublin, Republic of Ireland; [2]Health and Safety Authority, Athlone, Republic of Ireland.

149 **Repeated poisonings in Denmark: a nationwide study**
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[1]Departmen of Clinical Pharmacology, Bispebjerg and Frederiksberg Hospital, Capital Region of Denmark, Copenhagen, Denmark; [2]Bispebjerg and Frederiksberg Hospital, Capital Region of Denmark, Copenhagen, Denmark.

150 **A review of general information requests to the Finnish Poison Information Centre (FPIC)**
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Poison Information Centre, Department of Emergency Medicine and Services, Helsinki University Hospital and University of Helsinki, Helsinki, Finland.

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National Poisons Information Service, Birmingham, United Kingdom.

152 **Potentially inappropriate medication in the elderly: data from a poison centre**
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[1]Poisons Information Center, Department of General Pediatrics, Adolescent Medicine and Neonatology, Center for Pediatrics, Medical Center - University of Freiburg, Freiburg, Germany; [2]Universitätsinstitut für Medizinische Mikrobiologie und Virologie, Universitätsmedizin, Oldenburg, Germany; [3]Poisons Information Center, Department of General Pediatrics, Adolescent Medicine and Neonatology, Center for Pediatrics, Medical Center - University of Freiburg, Freiburg, Germany.

153 **A 10-year retrospective analysis of therapeutic errors involving prednisolone reported to the UK's National Poisons Information Service**
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[1]National Poisons Information Service, Cardiff, United Kingdom; [2]National Poisons Information Service, Birmingham, United Kingdom; [3]National Poisons Information Service, Edinburgh, United Kingdom; [4]National 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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[1]National Poisons Information Service, Cardiff, United Kingdom; [2]National Poisons Information Service, Birmingham, United Kingdom; [3]National Poisons Information Service, Edinburgh, United Kingdom; [4]National Poisons Information Service, Newcastle, United Kingdom.

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Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti Clinici Scientifici Maugeri IRCCS, Pavia Institute, Pavia, Italy.

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.

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Estonian Health Board, Tallinn, Estonia.

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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**
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[1]National Poisons information Centre, Dublin, Republic of Ireland; [2]National Poisons Information Centre, Dublin, Republic of Ireland.

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

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[1]Clinical Pharmacology and Toxicology, Department of General Internal Medicine, Inselspital, Bern University Hospital and Graduate School for Health Sciences, University of Bern, Bern, Switzerland; [2]Clinical Pharmacology and Toxicology, Department of General Internal Medicine, Inselspital, Bern University Hospital, University of Bern, Bern, Switzerland.

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**
Nanna Reiter[1], Christian A Wamberg[1], Kim P Dalhoff[2], Tonny S Petersen[2].
[1]aDepartment of Anaesthesiology and Intensive Care, Bispebjerg and Frederiksberg Hospital, Copenhagen, Denmark; [2]bDepartment of Clinical Pharmacology, Bispebjerg and Frederiksberg Hospital, Copenhagen, Denmark.

164 **Myeloneuropathy in a patient receiving treatment with Entonox© for recurrent shoulder dislocations: acase report**
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165 **Adverse reactions of oral methylprednisolone therapy in children with Multisystem Inflammatory Syndrome associated with COVID-19**

Viorela Nitescu[1], Diana Usurelu[2], Ana-Maria Mihalcea[2], Teodora Turcu[2], Andra Postelnicu[2], Ruxandra Stejeroiu[2], Stefania Ionescu[2], Dorina Craciun[3], Coriolan Ulmeanu[1].
[1]Pediatric Poisoning Centre, "Grigore Alexandrescu " Hospital, Bucharest, University of Medicine and Pharmacy "Carol Davila", Bucharest, Romania; [2]Pediatric Poisoning Centre , "Grigore Alexandrescu " Hospital, Bucharest, Romania; [3]University of Medicine and Pharmacy "Carol Davila", Bucharest, Romania.

166 **Stuck: Challenges in the Management of Clozapine-Induced Gastrointestinal Hypomotility (CIGH)**

Joshua Bloom[1], Mark L Abroms[2], Mark K Su[3].
[1]Ronald O. Perelman Department of Emergency Medicine, NYU Grossman School of Medicine, New York, NY, United States; [2]Department of Psychiatry, NYU Grossman School of Medicine, New York, NY, United States; [3]New 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 Wiener[1], Sarah G Mahonski[2], Mary Ann Howland[3], Mark K Su[4], Robert S Hoffman[1].
[1]Division of Medical Toxicology, Ronald O. Perelman Department of Emergency Medicine, New York University Grossman School of Medicine, New York, United States; [2]Department of Emergency Medicine, SUNY Upstate Medical University, Syracuse, United States; [3]College of Pharmacy and Health Sciences, St. John's University, Queens, United States; [4]New York City Poison Control Center, New York, United States.

169 **Spontaneous opioid detoxification: report of two cases**

Norbertas Pašukonis[1], Gabija Valauskaitė[2], Robertas Badaras[3].
[1]Faculty of Medicine, Vilnius University, Vilnius, Lithuania; [2]Department of Intensive Care Medicine, Lithuanian University of Health Sciences, Kaunas, Lithuania; [3]Toxicology Centre of Republic Vilnius University Hospital, Vilnius, Lithuania.

170 **QT prolongation and Torsade de Pointes in a 13-year-old transgender adolescent in treatment with bicalutamide and tacrolimus**

Ferran Gómez-Aguilar[1], Lidia Martínez-Sánchez[1], Vanessa Arias-Constantí[1], David Muñoz-Santanach[1], Georgia Sarquella-Brugada[2].
[1]Pediatric Emergency Department. SJD Barcelona Children's Hospital, Esplugues de Llobregat, Spain; [2]Cardiology Department. SJD Barcelona Children's Hospital, Esplugues de Llobregat, Spain.

171 **Hiccough like symptoms, global amnesia, confusion and neuro-motor denervation after inadvertent subarachnoid injection of high dose clindamycin: a case report**

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[1]Poison Control Center, ASST Papa Giovanni XXIII, Bergamo, Bergamo, Italy; [2]Poison Control Center, ASST Papa Giovanni XXIII, Bergamo, Brgamo, Italy; [3]Institute of Anesthesia, Intensive Care and Emergency Medicine University of Brescia, Brescia, Italy.

172 **Diffuse alveolar hemorrhage as an adverse effect of ticagrelor after percutaneous coronary intervention**

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[1]Department of Intensive Care Medicine, Medical Centre Leeuwarden, Leeuwarden, Netherlands; [2]Department of Cardiology, Medical Centre Leeuwarden, Leeuwarden, Netherlands; [3]Department of Clinical pharmacy and pharmacology, Medical Centre Leeuwarden, Leeuwarden, Netherlands; [4]Department of Intensive Care Medicine and Department of Clinical pharmacy and pharmacology, Medical Center Leeuwarden, Leeuwarden, Netherlands.

173 **A new challenge in the toxicology department: euglycemic diabetic ketoacidosis**

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[1]Weill Cornell Medicine-Qatar, Doha, Qatar; [2]Weill Cornell Medicine, New York, United States.

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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**
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Mount Sinai Hospital Department of Emergency Medicine, New York City, United States.

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University of Virginia, Charlottesville, VA, United States.

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University of Virginia, Charlottesville, United States.

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[1]National Toxicological Information Centre, University Hospital Bratislava, Bratislava, Slovakia; [2]Department of occupational medicine and toxicology, Faculty of medicine Commenius University Bratislava, Bratislava, Slovakia.

185 **Caustic accidents due to ingestion of industrial products in public places: a case series**
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[1]Pavia 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; [2]Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti Clinici Scientifici Maugeri IRCCS, Pavia, Italy; [3]Department of Internal Medicine and Therapeutics, Section of Pharmacology, University of Pavia, Pavia, Italy.

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[1]Pediatric Poisoning Centre, Bucharest, University of Medicine and Pharmacy "Carol Davila". Bucharest, Romania; [2]Pediatric Poisoning Centre, Bucharest, Romania.

187 **Fatal methanol poisoning: case report**
Julia V Radenkova-Saeva[1], Dijana Angelov[2].
[1]Toxicology Clinic, University Hospital for Emergency Medicine "NI Pirogov", Sofia, Bulgaria; [2]Clinic of Toxicology, University Hospital for Emergency Medicine „ N.I.Pirogov", Sofia, Bulgaria.

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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 Gollmann[1], Anja Michel[2], Anne Stürzebecher[1].
[1]Poison Information Centre Erfurt, Erfurt, Germany; [2]Poison Information Centre Freiburg, Freiburg, Germany.

190 **Disinfectant ingestion – a real danger in children**
Viorela Nitescu[1], Andreea Lescaie[2], Dora Boghitoiu[1], Coriolan Ulmeanu[1].
[1]Pediatric Poisoning Centre, Bucharest, University of Medicine and Pharmacy "Carol Davila", Bucharest, Bucharest, Romania; [2]Pediatric Poisoning Centre, Bucharest, Romania.

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Clara Bicanhi[1], Lucie Chevillard[1], Charlotte Martin[2], Steven Ballet[2], Bruno Mégarbane[1].
[1]INSERM UMRS-1144, Paris Cité University, Paris, France; [2]Research Group of Organic Chemistry, Vrije Universiteit Brussel, Brussels, France.

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Division of Toxicology, China Medical University Hospital, Taichung City, Taiwan.

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[1]National Toxicological Information Centre, Department of Occupational Medicine and Toxicology, Faculty of Medicine, Comenius University, Bratislava, Slovakia; [2]National Toxicological Information Centre, Department of Occupational Medicine and Toxicology, University Hospital Bratislava, Bratislava, Slovakia; [3]Department of Occupational Medicine and Toxicology, Faculty of Medicine, Comenius University, University Hospital Bratislava, Bratislava, Slovakia.

194 **Barium chloride poisoning**
Kai-Ju Lee[1], Jou-Fang Deng[1], Daniel Spyker[2].
[1]National Poison Center, Taipei Veterans General Hospital, Taiwan, Taipei City, Taiwan; [2]Emergency Medicine, Oregon Health & Science University, Portland, OR, United States.

195 **Lead encephalopathy with fatal outcome in pediatric patients: a case series**
Cinthia D Gigliotti, Ana P Voitzuk, Vanina Greco.
National Poison Center (CNI), Profesor Alejandro Posadas National Hospita,, Buenos Aires, Argentina.

196 **Acute lead poisoning from drinking tea with "lead-sugar"**
Erik Lindeman[1], Per Leanderson[2].
[1]Swedish Poisons Information Centre, Stockholm, Sweden; [2]Occupational and Environmental Medicine Center in Linköping, and Department of Health, Medicine and Caring Sciences, Linköping University, Linköping, Sweden.

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[1]Poisons Information Centre Erfurt, Erfurt, Germany; [2]Deutsche Stiftung Organtransplantation, Leipzig, Germany; [3]University of Leipzig Medical Center, Leipzig, Germany.

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Antigifcentrum, Neder-Over-Heembeek, Belgium.

199 **Fatal pediatric colchicine overdose: role for early initiation of granulocyte colony stimulating factor?**
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[1]IWK Pharmacy Department, Halifax, Canada; [2]Atlantic Canada Poison Centre, Halifax, Canada; [3]Nova Scotia Medical Examiner Service, Dartmouth, Canada.

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 Kotikova[1], Daniela Pelclova[1], Tomas Navratil[2].
[1]Toxicological Information Centre, Department of Occupational Medicine, Charles University, and General University Hospital, Prague, Czech Republic; [2]Department of Electrochemistry at the Nanoscale, J. Heyrovsky Institute of Physical Chemistry of the Czech Academy of Sciences, Prague, Czech Republic.

203 **Dimetindene – too strict toxic dose?**
Michal Cecrle[1], Daniela Pelclova[2].
[1]1) Toxicological Information Centre, Department of Occupational Medicine, General University Hospital in Prague, 2) Institute of Pharmacology, First Medical Faculty of the Charles University, Prague, Czech Republic; [2]Toxicological Information Centre, Department of Occupational Medicine, First Medical Faculty of the Charles University and General University Hospital in Prague, Prague, Czech Republic.

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[1]National Poisons Information Service, Cardiff, United Kingdom; [2]National Poisons Information Service, Birmingham, United Kingdom; [3]National Poisons Information Service, Edinburgh, United Kingdom; [4]National Poisons Information Service, Newcastle, United Kingdom.

205 **Risk factors for deliberate self-poisoning among children and adolescents in the Netherlands: a prospective study**
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Dutch Poisons Information Center UMC Utrecht, Utrecht, Netherlands.

206 **Deaths in pediatric patients from suspected suicide attempts by self-poisoning**
Will R Goodrich, Rita Farah, Nathan P Charlton.
Division of Medical Toxicology, Department of Emergency Medicine, University of Virginia Health, Charlottesville, United States.

207 **Edible cannabis exposures in pediatric patients misdiagnosed as seizures leading to unnecessary and costly medical testing**
Will R Goodrich[1], Ryan J Cole[1], Lindsay A. L. Bazydlo[2], Christopher P Holstege[1].
[1]Division of Medical Toxicology, Department of Emergency Medicine, University of Virginia Health, Charlottesville, United States; [2]Department of Pathology, University of Virginia School of Medicine, Charlottesville, United States.

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[1]Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti Clinici Scientifici Maugeri IRCCS, Pavia Institute, Italy, Pavia, Italy; [2]Biostaistics and Clinical Epidemiology Unit-Department of Public Health, Experiemntal and Forensic Medicine-University of Pavia, Pavia, Italy.

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National Poisons Information Service, Edinburgh, United Kingdom.

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[1]Michigan Poison & Drug Information Center - Wayne State University School of Medicine, Detroit, United States; [2]Detroit Medical Center, Detroit, United States; [3]Michigan Poison & Drug Information Center, Wayne State University School of Medicine, Detroit, United States.

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[1]Centro Toxicológico Hospital Ángeles Lomas, Huixquilucan, Mexico; [2]Instituto Mexicano del Seguro Social, Ecatepec, Mexico.

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Department of Clinical Toxicology, Technical University of Munich, Munich, Germany.

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[1]Division of Medical Toxicology, Department of Emergency Medicine, New York University Grossman School of Medicine, New York, United States; [2]Department of Emergency Medicine, SUNY Downstate Medical University, New York, United States; [3]College of Pharmacy and Health Sciences, St. John's University, New York, United States; [4]New York City Poison Control Center, New York, United States.

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New York City Poison Control Center, New York City, United States.

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[1]Harvard Medical Toxicology Fellowship, Boston Children's Hospital, Boston, United States; [2]Department of Emergency Medicine, Maine Medical Center, Portland, United States.

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[1]Ronald O. Perelman Department of Emergency Medicine, NYU Grossman School of Medicine, New York, NY, United States; [2]Department of Emergency Medicine, NYCH+H/Kings County, Brooklyn, NY, United States; [3]St. John's University College of Pharmacy and Health Sciences, Queens, NY, United States; [4]Department of Emergency Medicine, SUNY Downstate Health Sciences University, Brooklyn, NY, United States; [5]New York City Poison Control Center, Department of Health and Mental Hygiene, New York, NY, United States.

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Department of Emergency Medicine, SUNY Upstate Medical University, Syracuse, NY, United States.

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[1]National Poisons Centre, Tox Info Suisse, Associated Institute of the University of Zurich, Zurich, Switzerland; [2]Faculty of Medicine, University of Bern, Bern, Switzerland; [3]National Poisons Centre, Tox Info Suisse, Associated Institute of the University of Zurich";"Department of Clinical Pharmacology and Toxicology, University Hospital of Zurich,, Zurich, Switzerland.

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Carmel Medical Center, Haifa, Israel.

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[1]Division of Medical Toxicology, Ronald O. Perelman Department of Emergency Medicine, NYU Grossman School of Medicine, New York, United States; [2]New York City Poison Control Center, New York, United States.

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[1]Prince of Wales Hospital, Sydney, Australia; [2]Princess Alexandra Hospital, Brisbane, Australia; [3]Mater Calvary Newcastle Hospital, Newcastle, Australia.

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[1]Péterfy Sándor Hospital, Clinical Toxicology Department, Budapest, Hungary; [2]Péterfy Sándor Hospital, Intensive Care Unit, Budapest, Hungary.

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[1]Intensive Care Unit, Hospital Can Misses, Ibiza, Spain; [2]Clinical Analysis Department, Hospital Universitari Son Llàtzer; Health Research Institute of the Balearic Islands (IdISBa), Palma de Mallorca, Spain; [3]Clinical Analysis Department, Hospital Can Misses, Ibiza, Spain; [4]Clinical Analysis Department, Clinical Toxicology Unit, Hospital Universitari Son Espases; Health Research Institute of the Balearic Islands (IdISBa)), Palma de Mallorca, Spain; [5]Clinical Analysis Department, Clinical Toxicology Unit, Hospital Universitari Son Espases; Health Research Institute of the Balearic Islands (IdISBa),, Palma de Mallorca, Spain.

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[1]Intensive Care Unit, Hospital Universitari Son Llàtzer, Palma de Mallorca, Spain; [2]Clinical Analysis Department, Hospital Universitari Son Llàtzer; Health Research Institute of the Balearic Islands (IdISBa), Palma de Mallorca, Spain; [3]Clinical Analysis Department, Clinical Toxicology Unit, Hospital Universitari Son Espases; Health Research Institute of the Balearic Islands (IdISBa), Palma de Mallorca, Spain.

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[1]Division of Medical Toxicology, Ronald O. Perelman Department of Emergency Medicine, New York University Grossman School of Medicine, New York, USA, New York, United States; [2]College of Pharmacy and Health Sciences, St. John's University, Queens, USA, Queens, United States; [3]New York City Poison Control Center, New York, USA, New York, United States.

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[1]National Poisons Information Service, Cardiff, United Kingdom; [2]Royal Free London NHS Foundation Trust, London, United Kingdom; [3]National Poisons Information Service, Birmingham, United Kingdom; [4]National Poisons Information Service, Edinburgh, United Kingdom; [5]National Poisons Information Service, Newcastle, United Kingdom.

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Clinical Toxicology Research Group, University of Newcastle, Newcastle, Australia.

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[1]Department of Intensive Care Medicine, Lithuanian University of Health Sciences, Kaunas, Lithuania; [2]Department of Neurology, Lithuanian University of Health Sciences, Kaunas, Lithuania; [3]Clinic of Anaesthesiology and Intensive Care, Faculty of Medicine, Centre of Toxicology, Vilnius University, Vilnius, Lithuania; [4]Department of Anesthesiology, Lithuanian University of Health Sciences, Kaunas, Lithuania; [5]Department of Paediatrics, Lithuanian University of Health Sciences, Kaunas, Lithuania.

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Isabel Gomila[1], Jordi Puiguriguer2, Yolandada Ibáñez3, Guillermo Frontera4, Catalina Homar2, Miguel Elorza5, Bernardino Barceló5.
[1]Clinical Analysis Department, Hospital Universitari Son Llàtzer; Health Research Institute of the Balearic Islands (IdISBa), Palma de Mallorca, Spain; [2]Emergengy Department, Clinical Toxicology Unit, Hospital Universitari Son Espases; Health Research Institute of the Balearic Islands (IdISBa), Palma de Mallorca, Spain; [3]Emergengy Department, Hospital Universitari Son Llàtzer, Palma de Mallorca, Spain; [4]Methodological Support Department of the Research Institute, Hospital Universitari Son Espases, Palma de Mallorca, Spain; [5]Clinical Analysis Department, Clinical Toxicology Unit, Hospital Universitari Son Espases; Health Research Institute of the Balearic Islands (IdISBa), Palma de Mallorca, Spain.

240 **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.

241 **Self-induced pregabalin coma successfully resolved using continuous renal replacement therapy**

Lotte C G Høgberg[1], Visti T Nielsen[2], Søren Bøgevig[3].
[1]The Danish Poisons Information Centre; Department of Anaesthesia and Intensive Care, Copenhagen University Hospital - Bispebjerg and Frederiksberg, Copenhagen, Denmark; [2]Department of Anaesthesia and Intensive Care, Copenhagen University Hospital - Bispebjerg and Frederiksberg, Copenhagen, Denmark; [3]The Danish Poisons Information Centre; Department of Clinical Pharmacology, Copenhagen University Hospital - Bispebjerg and Frederiksberg, Copenhagen, Denmark.

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Lucia Bernasconi[1], Azzurra Schicchi[2], Valeria M Petrolini[3], Benedetta Brolli[1], Monica Carnovale[1], Alberto Malovini[4], Francesca Crema[5], Carlo A Locatelli[3].
[1]Pavia 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; [2]Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti Clinici Scientifici Maugeri IRCCS, Pavia Institute. Experimental Medicine PhD Program, University of Pavia, Pavia, Italy; [3]Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Istituti Clinici Scientifici Maugeri IRCCS, Pavia Institute, Pavia, Italy; [4]Laboratory of Informatics and Systems Engineering for Clinical Research, Istituti Clinici Scientifici Maugeri IRCCS, Pavia Institute, Pavia, Italy; [5]Department of Internal Medicine and Therapeutics, Section of Pharmacology, University of Pavia, Pavia, Italy.

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Miriam Mayor[1], Thais Lizondo[2], Emilio Salgado[3], Silvia González[2], Carmen López[2], Carlos García[1].
[1]Hospital Clinic of Barcelona - Internal Medicine, Barcelona, Spain; [2]Hospital Clinic of Barcelona - Hospital Pharmacy, Barcelona, Spain; [3]Hospital Clinic de Barcelona - Toxicology Department, Barcelona, Spain.

244 **Outcome of acetaminophen-poisoned patients admitted to a non-liver intensive care unit with liver failure: an observational cohort study**

Alice Vottero[1], Bruno Mégarbane[2].
[1]Department of Medical and Toxicological Critical Care, Lariboisière Hospital, INSERM UMRS-1144, Paris Cité University, Paris, France; [2]Department of Medical and Toxicological Critical Care, INSERM UMRS-1144, Paris Cité University, Paris, France.

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Tonny S Petersen[1], Alaa Daoud[1], Søren Bøgevig[2], Lotte C G Høgberg[3].
[1]Department of Clinical Pharmacology, Copenhagen, Denmark; [2]Department of Clinical pharmacology, Copenhagen, Denmark; [3]Department of Anaesthesia and Intensive Care, Copenhagen University Hospital - Bispebjerg and Frederiksberg, Copenhagen, Denmark.

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Hospital Clínic i Provincial de Barcelona, Barcelona, Spain.

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[1]Department of Pharmacology and Therapeutics, St James' Hospital, Dublin, Republic of Ireland; [2]Tallaght University Hospital, Dublin, Republic of Ireland; [3]Emergency Department, St James' Hospital, Dublin, Republic of Ireland.

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[1]Department of Clinical pharmacology, Copenhagen University Hospital - Bispebjerg and Frederiksberg, Copenhagen, Denmark; [2]Department of Anaesthesia and Intensive Care, Copenhagen University Hospital - Bispebjerg and Frederiksberg, Copenhagen, Denmark.

249 **Acetaminophen/opioid combination in overdose: can opioid-related toxicity be observed without acetaminophen poisoning?**
Tayebaly William, Bruno Mégarbane.
Department of Medical and Toxiclogical Critical Care, Lariboisière Hospital, INSERM UMRS-1144, Paris Cité University, Paris, France.

250 **Indigestion: endoscopic removal and whole bowel irrigation in a patient with a pharmacobezoar**
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[1]Poison Centre of Verona, Verona, Italy; [2]Emergency department of Santa Maria del Carmine Hospital, Rovereto, Italy.

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[1]Assistant Professor, Thrissur, India; [2]Professor, Kasaragod, India; [3]Senior resident, Thrissur, India; [4]Junior resident, Thrissur, India.

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Mark Jovanović[1], Miran Brvar[2].
[1]Department of Cardiology, University Medical Centre Ljubljana, Ljubljana, Slovenia; [2]Centre of Clinical Toxicology and Pharmacology, University Medical Centre Ljubljana and Centre for Clinical Physiology, Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia.

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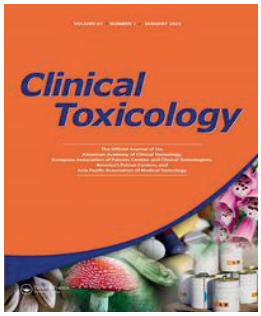

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