

39th Congress of the EAPCCT
Naples, 21 – 24 May 2019

Provisional Scientific Programme 9 February 2019

39th Congress of the EAPCCT
Naples, 21 – 24 May 2019

Pre-Congress Symposium
Continuing Education in Clinical Toxicology
21 May 2019

Dioni & Elettra, Tuesday 21 May 2019 (morning)		
CONTINUING EDUCATION IN CLINICAL TOXICOLOGY		
Natural Toxin Poisoning in Europe: A Global Interaction		
Time	Title	Lecturer
09:00 - 09:30	From abroad to home: PC experience of “exotic poisoning”	Andreas Schaper , GIZ-Nord Poisons Centre, University Medical Centre, Göttingen, Germany
09:30 - 10:00	The Red Sea and Mediterranean Sea connection: the toxicological risks associated with the Suez Canal	Régis Bédry , University Hospital Bordeaux, France
10:00 - 10:30	Tetrodotoxism vs ciguatera	Mark Little , Cairns Hospital, Cairns, Australia
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • explain toxicovigilance aspects of envenomations with exotic pets in Western Europe • know the conditions in which Red Sea's venomous marine animals can become a danger for people living around the Mediterranean Sea • describe the differences between tetrodotoxin and ciguatera syndromes, including mechanism of toxicity, sources of toxin, symptoms and signs and possible treatments 		
10:30 - 11:00	Coffee	
11:00 - 11:30	Dangerous jellyfish in Europe - an overview for the toxicologist	Julian White , Women's & Children's Hospital, Adelaide, Australia
11:30 - 12:00	Analytical strategies for determination of palytoxins in the environment and in seafood. Past present and future challenges	Carmela Dell'Aversano , University of Napoli Federico II, Naples, Italy
12:00 - 12:30	Palytoxin and related compounds: new toxic guests in Europe	Luc de Haro , Hopital Sainte Marguerite, Marseille, France
12:30 - 13:00	Snake venoms: actions and neutralization	Bruno Lomonte , University of Costa Rica, San Jose
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • understand the relationship of jellyfish stings in European-region waters in comparison to stings in other regions and the potential for changes in risk secondary to climate change and how this might impact approaches to medical management • discuss the regulated and the emerging marine toxins that may affect humans through ingestion, dermal and aerosol contact and on the analytical techniques for their detection • list the different sources of palytoxin and related compounds and to describe the clinical features of exposure • understand the basics of snake venom toxic effects, their targets, and their neutralization by antivenoms 		
13:00 – 14:00	Lunch	

Dioni & Elettra, Tuesday 21 May 2019 (afternoon)		
CONTINUING EDUCATION IN CLINICAL TOXICOLOGY		
Natural Toxin Poisoning in Europe: A Global Interaction		
Time	Title	Lecturer
14:00 – 14:30	Toxicological syndromes linked to key spiders and scorpions from South America and their management	Fabio Bucaretti , State University of Campinas, Brazil
14:30 – 15:00	Anti-venom to treat scorpion stings: is it useful?	Bruno Mégarbane , Paris-Diderot University, France
15:00 – 15:30	European, African and Middle East Snakes and Snake bites	Miran Brvar , University Medical Centre Ljubljana, Slovenia
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • recognize the main local and systemic features observed in patients bitten by spiders of the genera <i>Phoneutria</i>, <i>Latrodectus</i> and <i>Loxosceles</i>, and stung by <i>Tityus</i> spp. scorpions • understand the advantages versus the inconveniences in administering antivenom to a scorpion-envenomated patient • describe the features and management of snake bites in Europe, Northern Africa and Middle East 		
15:30 – 16:00	Coffee	
16:00 – 16:30	Envenomation with snakes from the American continent	Jean-Philippe Chippaux , Institut Pasteur / Center for Translational Science, Paris, France
16:30 – 17:00	Availability of 'exotic' antivenoms in Europe: a recurring problem	Marieke Dijkman , Dutch Poisons Information Center, Utrecht, Netherlands
17:00 – 17:30	Conclusion and synthesis of the communications: the world of natural toxin poisoning is moving	Julian White , Women's & Children's Hospital, Adelaide, Australia
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • describe the figure of snakebite incidence and severity in the Americas to improve the management of envenomations • explain causes of unreliable availability of 'exotic' antivenom 		

39th Congress of the EAPCCT
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Main Congress
22 to 24 May 2019

Galatea, Wednesday 22 May 2019 (morning)		
Welcome & Plenary Lecture		
Time	Title	Lecturer
09:00 – 09:05	Welcome and opening	Martin Wilks President EAPCCT
09:05 – 09:55	Envenoming and related issues in Europe versus the rest of the world - contemplating the future in the context of the present	Julian White , Women's & Children's Hospital, Adelaide, Australia
<p><i>At the end of this lecture the audience should be able to:</i></p> <ul style="list-style-type: none"> • <i>understand more fully the extent of envenoming and other toxin-induced diseases (TIDs) in Europe, both endemic and emerging exotic causes, and ways exposure to these TIDs may increase over time</i> 		
Cyanide and Smoke Inhalation Symposium		
10:00 – 10:20	Challenges in the diagnosis of acute cyanide poisoning	Christopher Holstege , University of Virginia School of Medicine, Charlottesville, United States
10:20 – 10:40	The role of the new cyanide antidotes	Philippe A Haouzi , Penn State University College of Medicine, Hershey, United States
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • <i>describe the challenges in the diagnosis of cyanide poisoning and the varied presentations encountered</i> • <i>understand how the different families of cyanide antidotes can be used during cyanide intoxication</i> 		
10:40 – 11:15	Coffee and Authors with Posters	

Galatea, Wednesday 22 May 2019 (morning)		
Cyanide and Smoke Inhalation Symposium (continued)		
Time	Title	Lecturer
11:15 – 11:20	Analysis of 350 consecutive cases of carbon monoxide (CO) poisoning: the Florentine experience (abstract no 001)	Anita Ecolini ¹ , Alessandro Zotto ¹ , Angelo Rotulo ¹ , Alessandra Ieri ² , Emanuela Masini ¹ , Guido Mannaioni ³ , Francesco Gambassi ² ¹ Department of NEUROFARBA, University of Florence, Italy; ² Medical Toxicology Unit and Poison Control Center, Azienda Ospedaliero- Universitaria Careggi, Florence, Italy; ³ Neuroscience, Psychology, Drug Research and Child Health, Università degli Studi di Firenze, Florence, Italy
11:20 – 11:25	Correlation between clinical signs and/or symptoms and blood cyanide concentrations in victims of cyanide poisoning (abstract no 002)	Hanne Herbots , Greet Dieltiens, Kurt Anseeuw Emergency Medicine, ZNA Stuivenberg, Antwerp, Belgium
11:25 – 11:45	Inhalation exposure to toxic chemicals: mechanisms and medical management	Bronwen Jugg , Defence Science and Technology Laboratory, Salisbury, United Kingdom
11:45 – 12:05	Molecular targets in lung toxicology	Dirk Steinritz , Bundeswehr Institute of Pharmacology and Toxicology, Munich, Germany
12:05 – 12:25	Volcano eruptions: what are the consequences for acute and chronic lung injury	Alvin Bronstein , Hawaii Department of Health, Honolulu, United States
12:25 – 12:30	Discussion	

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

- *describe the effects of toxic chemical inhalation exposure on the lungs and how this could be mitigated*
- *describe emerging mechanistic targets in lung injury induced by inhalation of toxic compounds*
- *describe four types of volcanic emissions that can produce human health effects*

12:30 – 13:20	Lunch	
13:20 – 13:50	Authors with Posters and Poster Round (poster numbers 013, 015, 051, 055, 063)	

Dioni & Elettra, Wednesday 22 May 2019 (morning)		
Co-morbidities in the Poisoned Patient Symposium		
Time	Title	Lecturer
10:00 – 10:20	The consequences and impact of chronic renal impairment on acute poisoning	Darren Roberts , NSW Poisons Information Centre and St Vincent's Hospital, Sydney, Australia
10:20 – 10:40	The consequences and impact of chronic liver impairment on acute poisoning	Stephen Krähenbühl , University Hospital Basel, Switzerland
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • <i>understand the impact of chronic kidney disease on risk assessment in poisoned patients</i> • <i>understand the impact of liver cirrhosis on the kinetics and dynamics of toxicants</i> 		
10:40 – 11:15	Coffee and Authors with Posters	
11:15 – 11:35	The consequences and impact of co-morbidities in the perspective of a toxic outbreak	Sergej Zacharov , Charles University, 1st Faculty of Medicine, and General University Hospital Prague, Czech Republic
11:35 – 11:50	A consensus statement on the management of patients in outbreaks of methanol poisoning (abstract no 003)	<p>Hossein Hassanian-Moghaddam¹, Nasim Zamani², Darren Roberts³, Jeffrey Brent⁴, Kenneth McMartin⁵, Cynthia Aaron⁶, Michael Eddleston⁷, Kent Olson⁸, Paul I Dargan⁹, Lewis Nelson¹⁰, Ashish Bhalla¹¹, Philippe Hanston¹², Dag Jacobsen¹³, Bruno Mégarbane¹⁴, Mahdi Balali-Mood¹⁵, Nicholas Buckley¹⁶, Sergey Zakharov¹⁷, Raido Paasma¹⁸, Bhavash Jarwani¹⁹, Amirhossein Mirafzal²⁰, Tomas Salek²¹, Knut Erik Hovda²²</p> <p>¹ Social Determinants of Health Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran; ² Clinical Toxicology, Loghman Hakim Hospital, School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran,</p>

		<p>Iran; ³ NSW Poisons Information Centre, Sydney, Australia; ⁴ University of Colorado, School of Medicine, Aurora, United States; ⁵ Pharmacology, Toxicology and Neuroscience, Department of Pharmacology, Toxicology and Neuroscience, Louisiana State University Health Sciences Center - Shreveport, Shreveport, United States; ⁶ Michigan Regional Poison Control Center at Children's Hospital of Michigan, Detroit, Detroit, United States; ⁷ Pharmacology, Toxicology, and Therapeutics, Department of Pharmacology, Toxicology, and Therapeutics, University/BHF Centre for Cardiovascular Science, University of Edinburgh, Edinburgh, United Kingdom; ⁸ California Poison Control System, San Francisco Division, University of California, San Francisco, San Francisco, United States; ⁹ Clinical Toxicology, Guy's and St Thomas' NHS Foundation Trust and Faculty of Life Sciences and Medicine, King's College London, London, United Kingdom; ¹⁰ Emergency Medicine, Department of Emergency Medicine, Rutgers Medical School, Newark, United States; ¹¹ Postgraduate Institute of Medical Education and Research, Chandigarh, India; ¹² Université catholique de</p>
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		<p>Louvain, Cliniques universitaires Saint Luc, Bruxelles-Department of Intensive Care, Brussels, Belgium; ¹³ Acute Medicine, Department of Acute Medicine, Ullevaal University Hospital, Oslo, Norway; ¹⁴ Department of Medical and Toxicological Critical Care, Lariboisière Hospital, INSERM UMRS 1144, Paris-Diderot University, Paris, France; ¹⁵ Medical Toxicology Research Center, School of Medicine, Mashhad University of Medical Sciences, Mashhad, Iran; ¹⁶ Pharmacology, Department of Pharmacology, University of Sydney, NSW Poison information Center, Sydney, Australia; ¹⁷ Occupational Medicine, 1st Faculty of Medicine, Charles University and General University Hospital, Toxicological Information Centre, Prague, Czech Republic; ¹⁸ Anesthesiology and ICU, Pärnu County Hospital, Pärnu, Estonia; ¹⁹ Emergency Medicine, VSGH, Ahmedabad, Gujarat, India; ²⁰ Emergency Medicine, Kerman University of Medical Sciences, Kerman, Iran; ²¹ Clinical Biochemistry and Pharmacology, Tomas Bata Hospital / Havlíčkovo, Zlín, Czech Republic; ²² Acute Medicine, The Norwegian CBRNE Centre of Medicine, Oslo University Hospital, Oslo, Norway</p>
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11:50 – 12:10	The consequences and impact of chronic heart failure on acute poisoning	Dag Jacobsen , Oslo University Hospital, Oslo, Norway
12:10 – 12:30	The consequences and impact of age-related neuro-degenerative diseases on acute poisoning	Dylan de Lange , University Medical Center, Utrecht, Netherlands
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • <i>explain how underlying heart failure may affect the clinical course and prognosis of acute poisonings</i> • <i>explain that poisonings in older patients differ from poisonings in younger patients in both epidemiology and severity due the presence comorbidities that influence the course and outcome of intoxication</i> 		
12:30 – 13:20	Lunch	
13:20 – 13:50	Authors with Posters and Poster Round (poster numbers 013, 015, 051, 055, 063)	

Galatea, Wednesday 22 May 2019 (afternoon)		
Pro-Con Debate: Case Reports still have a significant role in guiding practice of the poisoned patient		
Time	Title	Lecturer
13:50 – 14:10	<u>PRO</u> – Yes, case reports still have a significant role in guiding practice of the poisoned patient	Ana Ferrer Dufol , Clinical University Hospital, Zaragoza, Spain
14:10 – 14:30	<u>CON</u> – No, we need controlled clinical data and high-quality data not case reports	Sophie Gosselin , Centre antipoison du Québec, Montréal, Canada
<p><i>At the end of this debate the audience should be able to:</i></p> <ul style="list-style-type: none"> • <i>explain why individual cases have played, and still do, a fundamental role in the understanding of how poisons act on humans and how the reporting of such cases is essential for the development of the best diagnosis and therapeutic strategies</i> • <i>identify information gaps conveyed in case reports</i> 		
Poisons Centres Symposium – Models of Activity		
14:30 – 14:50	Providing poisons information for veterinary cases - benefits, risks and practicalities	Alexander Campbell , London, UK
14:50 – 15:10	Disaster management and the role of poisons information centers	Antoinette van Riel , University Medical Center Utrecht / DPIC, Utrecht, Netherlands
<p><i>At the end of this debate the audience should be able to:</i></p> <ul style="list-style-type: none"> • <i>debate aspects that should be considered when including veterinarians and pet owners as potential users of a poisons information service</i> • <i>describe ways to professionalize the role of your PIC in disaster management and identify the parties that you can cooperate with to help you do this</i> 		
15:10 – 15:50	Coffee and Authors with Posters	

Dioni & Elettra, Wednesday 22 May 2019 (afternoon)		
Antidote Development Symposium		
Time	Title	Lecturer
13:50 – 14:10	Antidote development from the perspective of the pharmaceutical industry	Jeremie Urbain , SERB, Brussels, Belgium
14:10 – 14:30	Fomepizole: development from the bench to clinical use	Kenneth McMartin , Louisiana State University Health Sciences Center, Shreveport, United States
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • understand the simplified development pathway for a new antidote with its critical steps • describe the difficulties in developing therapeutic products for treatment of acute poisonings 		
Antidote Availability Round Table: arrangements, problems and solutions		
14:30 – 14:40	The Spanish Perspective	Raquel Aguilar-Salmerón , Hospital Universitari Dr. Josep Trueta, Girona, Spain
14:40 – 14:40	The Italian Perspective	Davide Lonati , Poison Control Centre and National Toxicology Information Centre - Toxicology Unit, ICS Hospital Maugeri and University of Pavia, Italy
14:50 – 15:00	The German Perspective	Andreas Schaper , GIZ-Nord Poisons Centre, University Medical Centre, Göttingen, Germany
15:00 – 15:10	The UK Perspective	Paul Dargan , Guy's and St Thomas NHS Foundation Trust, London, UK
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • describe the antidote network experience in Spain • describe the different models of antidote databases available in Italy • explain the specific situation concerning antidotes and their availability in Germany • describe arrangements in the UK for antidote stocking 		
15:10 – 15:50	Coffee and Authors with Posters	

Galatea, Wednesday 22 May 2019 (afternoon)		
Poisons Centres Symposium – Models of Activity (continued)		
Time	Title	Lecturer
15:50 – 15:55	Poisons Centres need to prepare for a new product notification procedure (abstract no 004)	Ronald de Groot, Pieter Brekelmans , Dylan W de Lange Dutch Poisons Information Center (UMC Utrecht), Utrecht, Netherlands
15:55 – 16:00	Avoiding emergency ambulance dispatch for suspected non-intentional poisoning by prior telephone consultation with the UK National Poisons Information Service (abstract no 005)	David A James ¹ , Nathan George ¹ , Sally Bradberry ² , Euan A. Sandilands ³ , John P. Thompson ⁴ , Simon HL Thomas ^{1,5} ¹ National Poisons Information Service (Newcastle Unit), Regional Drug and Therapeutics Centre, Newcastle upon Tyne Hospitals NHS Foundation Trust, Newcastle, United Kingdom; ² National Poisons Information Service (Birmingham Unit), City Hospital, Birmingham, United Kingdom; ³ National Poisons Information Service (Edinburgh Unit), Royal Infirmary, Edinburgh, United Kingdom; ⁴ National Poisons Information Service (Cardiff Unit), University Hospital Llandough, Cardiff, United Kingdom; ⁵ Medical Toxicology Centre, Institute of Cellular Medicine, Newcastle University, Newcastle, United Kingdom

16:00 – 16:05	Evaluation by telephone-follow-up of mild intoxications managed at home by the Poison Control Centre's medical doctors (abstract no 006)	Elena Brambilla, Valeria M Petrolini, Giulia Scaravaggi, Eleonora Buscaglia, Maria Di Primo, Carlo A Locatelli Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Maugeri Clinical and Scientific Institutes IRCCS and University of Pavia, Italy
16:05 – 16:25	Enquiries to poison centres regarding occupational and environmental exposures	Maren Hermanns-Clausen , University Medical Center Freiburg, Albert-Ludwigs University Freiburg, Germany
16:25 – 16:45	Beyond 'hello poisons centre how can I help...'	Nick Edwards , Nick Edwards Consulting Ltd, London, UK
16:45 – 16:50	Discussion	
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • describe the pattern of occupational and environmental exposures reported to Poison Centers and specific challenges for PC staff handling these enquiries • discuss opportunities to diversify available to poisons centres, use the power of our 24-hour service to provide clinical trial support and medicines information, and recognise 'new' requirements of pharmaceutical companies and regulatory authorities 		
<p>Plenary Pro-Con Debate Should poisons centres provide advice to the general public?</p>		
16:50 – 17:10	Yes, poisons centres should provide advice to the general public	Edward Krenzelok , University of Pittsburgh, United States
17:10 – 17:30	No, poisons centres should not provide advice to the general public	Irma de Vries , University Medical Center Utrecht, Netherlands
<p><i>At the end of this debate the audience should be able to:</i></p> <ul style="list-style-type: none"> • describe the social, clinical and financial benefits of providing poison information directly to the public • explain how a country's overall health care organization influences poisons centres activities 		

Galatea, Wednesday 22 May 2019 (afternoon)

Clinical Recommendation Toxicology Collaborative

17:30 – 18:00	Activated Charcoal: Death of the 60 minutes dogma?	Sophie Gosselin , Centre antipoison du Québec, Hôpital Charles Lemoyne, Montréal, Canada <i>and</i> Lotte Hoegberg , The Danish Poisons Information Centre, Bispebjerg University Hospital, Copenhagen, Denmark
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At the end of this session the audience should be able to:

- *list situations when AC beyond 60 minutes is indicated*

19:30	Welcome Reception at Maschio Angioino-Castel Nuovo
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Dioni & Elettra, Wednesday 22 May 2019 (afternoon)		
Antidote Availability Round Table: arrangements, problems and solutions (continued)		
Time	Time	Time
15:50 – 16:00	The Netherlands Perspective	Marieke Dijkman , Dutch Poisons Information Center, Utrecht, Netherlands
16:00 – 16:10	The USA Perspective	Rick Dart , Denver Health and Hospital Authority, United States
16:10 – 16:20	The Australian Perspective	Darren Roberts , NSW Poisons Information Centre and St Vincent's Hospital, Sydney, Australia
16:20 – 16:30	The Developing Country Perspective	Knut Erik Hovda , The Norwegian CBRNE Centre of Medicine, Oslo University Hospital, Norway
16:30 – 16:40	Military and Government Stocking for Terrorism	Horst Thiermann , Bundeswehr Institute of Pharmacology and Toxicology, Munich, Germany
16:40 – 16:50	Round table discussion	
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • <i>explain why certain antidotes are centrally stocked in the Netherlands</i> • <i>identify measures to reduce insufficient stocking of emergency antidotes</i> • <i>describe approaches used to facilitate timely access to antidotes in Australia</i> • <i>explain the main challenges and potential for solution for the antidote availability in developing countries</i> • <i>discuss that stockpiling of antidotes necessary for military purposes is performed according to different national specifications and that most antidotes belong to so called strategical goods</i> 		

16:50 – 17:30	Plenary Pro-Con Debate in Galatea
17:30 – 18:00	Updates from your Clinical Recommendation Toxicology Collaborative in Galatea

19:30	Welcome Reception at Maschio Angioino-Castel Nuovo
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Galatea, Thursday 23 May 2019 (morning)		
Louis Roche Lecture		
Title	Title	Title
09:00 – 09:15	Introduction and presentation of the Louise Roche lecturer	Martin Wilks , President EAPCCT
09:15 – 10:00	Poisons Centres: at the crossroads of curative care and public health	Irma de Vries , University Medical Center Utrecht, Netherlands
Oral Platform and Short Oral Presentations I		
10:05 – 10:20	Gamma-hydroxybutyric acid (GHB) and gamma-butyrolactone (GBL) poisonings admitted to the ICU: features and usefulness of plasma GHB concentration measurement (abstract no 108)	Charlotte Héliodore ¹ , Isabelle Malissin ¹ , Hervé Gourlain ² , Laurence Labat ² , Bruno Mégarbane ¹ ¹ Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS-1144, Paris, France; ² Laboratory of Toxicology, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS-1144, Paris, France
10:20 – 10:35	Butanediol conversion to gamma-hydroxybutyrate markedly reduced by the alcohol dehydrogenase blocker fomepizole (abstract no 109)	Evangelia Liakoni ^{1,2} , Hallam Gugelmann ³ , Delia A Dempsey ¹ , Timothy J Wiegand ⁴ , Christopher Havel ¹ , Peyton Jacob ¹ , Neal L Benowitz ^{1,3,5} ¹ Division of Clinical Pharmacology and Experimental Therapeutics, Department of Medicine, University of California, San Francisco, United States; ² Clinical Pharmacology and Toxicology, Department of General Internal Medicine, Inselspital, Bern University Hospital, University of Bern, Switzerland; ³ California Poison Control Center, University of California, San Francisco, United States; ⁴

		University of Rochester Medical Center, Rochester, United States; ⁵ Department of Bioengineering and Therapeutic Sciences, University of California, San Francisco, United States
10:35 – 10:40	Acute beta-blocker overdose: factors associated with cardiovascular mortality and management in the intensive care unit (abstract no 110)	Dabor Resiere ¹ , Bruno Mégarbane ² , Bruno Sánchez ³ , Julian Fabre ⁴ , Hossein Mehdaoui ¹ ¹ Critical Care Unit, University Hospital of Martinique, France; ² Medical and Toxicological ICU, Lariboisière Hospital, Paris, France; ³ Department of Cardiovascular Surgery, University Hospital of Martinique, France; ⁴ Department of Cardiology, University Hospital of Martinique, France
10:40 – 11:20	Coffee and Authors with Posters	
Novel Opioid and Benzodiazepines Symposium		
11:20 – 11:40	The pharmacology and toxicology of the new synthetic opioids	Lewis Nelson , Rutgers New Jersey Medical School Newark, United States
11:40 – 12:00	The pharmacology and toxicology of the NPS benzodiazepines	David Wood , Guy's and St Thomas' NHS Foundation Trust, London, United Kingdom

<p>12:00 – 12:15</p>	<p>Access and use of bystander naloxone among emergency department patients with opioid abuse in the era of adulterated heroin with fentanyl (abstract no 111) <i>and</i> Prevalence of fentanyl exposure among emergency department patients with history of opioid abuse (abstract no 112)</p>	<p>Hannah Bach¹, Siamak Moayed², Brenten R Hurt³, Atizaz Hussain³, Valerie R Jenkins³, Ilya J Lazzeri³, Stephen Schenkel⁴, Hong K Kim² ¹ Emergency Medicine, University of Maryland Medical Center, Baltimore, United States; ² Emergency Medicine, University of Maryland School of Medicine, Baltimore, United States; ³ University of Maryland School of Medicine, Baltimore, United States; ⁴ Emergency Department, University of Maryland School of Medicine, Baltimore, United States <i>and</i> Hannah Bach¹, Siamak Moayed², Brenten R Hurt³, Hussain Atizaz³, Valerie R Jenkins³, Ilya J Lazzeri³, Stephen Schenkel⁴, Hong K Kim⁴ ¹ Emergency Medicine, University of Maryland Medical Center, Baltimore, United States; ² Emergency Department, University of Maryland School of Medicine, Baltimore, United States; ³ University of Maryland School of Medicine, Baltimore, United States; ⁴ Emergency Medicine, University of Maryland School of Medicine, Baltimore, United States</p>
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12:15 – 12:30	Towards real-time opioid abuse surveillance: machine learning for automatic characterization of opioid-related tweets (abstract no 113) <i>and</i> Characterizing opioid-related tweets: a comparison between prescription and illicit opioid chatter (abstract no 114)	Abeed Sarker ¹ , Graciela Gonzalez-Hernandez ² , Francis DeRoos ³ , Jeanmarie Perrone ³ ¹ Biostatistics, Epidemiology and Informatics, University of Pennsylvania, Philadelphia, United States; ² University of Pennsylvania, Philadelphia, United States; ³ Emergency Medicine, University of Pennsylvania, Philadelphia, United States
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • <i>compare the risks associated with use of new synthetic opioids to those of prescription opioids and heroin</i> • <i>describe the acute toxicity related to the use of novel benzodiazepines</i> 		
12:30 – 13:30	Lunch	
13:30 – 14:00	Authors with Posters and Poster Round (poster numbers 132, 146, 148, 155, 231)	

Dioni & Elettra, Thursday 23 May 2019 (morning)		
Hyperthermia Symposium		
Time	Title	Lecturer
10:05 – 10:25	Psychostimulants and hyperthermia: mechanisms	Matthias Liechti , University Hospital Basel, Switzerland
10:25 – 10:40	Influence of genetic polymorphisms within the serotonin system on the acute effects of 3,4-methylenedioxymethamphetamine (MDMA) (abstract no 115)	Patrick Vizeli ¹ , Henriette E Meyer Zu Schwabedissen ² , Matthias E Liechti ¹ ¹ Clinical Pharmacology and Toxicology, University Hospital Basel, University of Basel, Switzerland; ² Pharmaceutical Sciences, University of Basel, Switzerland
<i>At the end of this session the audience should be able to:</i>		
<ul style="list-style-type: none"> understand the mechanism leading to hyperthermic reactions when using stimulant-type drugs of abuse 		
10:40 – 11:20	Coffee and Authors with Posters	
Hyperthermia Symposium (continued)		
11:20 – 11:40	The neuroleptic malignant syndrome	Philippe Hantson , Cliniques universitaires St-Luc, Université catholique de Louvain, Brussels, Belgium
11:40 – 12:00	Serotonin syndrome	Angela Chiew , Prince of Wales Hospital, Sydney, Australia
12:00 – 12:05	The time-course of the serotonergic syndrome in relation to plasma 3,4-methylenedioxymethamphetamine (MDMA) concentrations in severely poisoned patients (abstract no 116)	Mathieu Bouthemy ¹ , Isabelle Malissin ¹ , Marion Soichot ² , Laurence Labat ² , Bruno Mégarbane ¹ ¹ Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS-1144, Paris, France; ² Laboratory of Toxicology, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS-1144, Paris, France
12:05 – 12:10	Efficacy and safety of dantrolene in toxic hyperthermia: a systematic review (abstract no 117)	Alexandre Doucet ¹ , Hugo Langlois ² , Eric Villeneuve ² , Camille Tétreault ³ , Josh Wang ⁴ , Sophie Gosselin ⁵

		¹ Faculty of Medicine, McGill University, Montréal, Canada; ² Pharmacy Department, McGill University Health Centre, Montréal, Canada; ³ Faculty of Medicine, Sherbrooke University, Sherbrooke, Canada; ⁴ Department of Emergency Medicine, Division of Medical Toxicology, New York University School of Medicine, New York City, United States; ⁵ Emergency Medicine, Hôpital Charles Lemoyne, Longueuil, Canada
12:10 – 12:30	Management of drug-induced hyperthermia in the ER and ICU	Robert Hoffman , NYU School of Medicine, New York, United States
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • <i>describe the pathophysiology of the so-called neuroleptic malignant syndrome, discuss the overlap with other syndromes, and recognize severity criteria</i> • <i>understand the pathophysiology, causes and diagnosis of serotonin syndrome and describe clinical features and management</i> • <i>compare and contrast methods of cooling to identify the most efficient process</i> 		
12:30 – 13:30	Lunch	
13:30 – 14:00	Authors with Posters and Poster Round (poster numbers 132, 146, 148, 155, 231)	

Galatea, Thursday 23 May 2019 (afternoon)		
Novel Opioid and Benzodiazepines Symposium (continued)		
Time	Title	Lecturer
14:00 – 14:20	Detection of the novel opioids and benzodiazepines	Andrea Steuer , University of Zurich, Switzerland
14:20 – 14:25	Pollyanna in an age of fentanyls (abstract no 118)	Erik Lindeman , Jenny Westerbergh Swedish Poisons Information Center, Stockholm, Sweden
14:25 – 14:45	Novel opioids and benzodiazepines: detection and prevalence in the UK and Europe	Simon Thomas , Newcastle Hospitals NHS Foundation Trust, Newcastle, United Kingdom
14:45 – 14:50	Epidemiology of fentanyl exposures reported to US Poison Centers, 2014-2017 (abstract no 119)	Saumitra Rege ¹ , Anh Duc Ngo ² , Asaad Alsufyani ¹ , Christopher Holstege ¹ ¹ Division of Medical Toxicology, Department of Emergency Medicine, University of Virginia, Charlottesville, United States; ² Division of Student Affairs, Department of Student Health, University of Virginia, Charlottesville, United States
14:50 – 15:10	Synthetic opioids and benzodiazepines: Impact on clinical and addiction medicine in the USA	Timothy Wiegand , University of Rochester Medical Center, Rochester, United States
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • <i>list several novel opioids and benzodiazepines and be aware of analytical challenges of their detection</i> • <i>compare the use of novel opioids and benzodiazepines between countries within and outside Europe</i> • <i>describe how the substitution of novel opioids and benzodiazepines into recreational drug markets in the USA has impacted drug-user safety, overdose rates and the treatment of opioid use disorder</i> 		
15:00 – 15:45	Coffee and Authors with Posters	

Dioni & Elettra, Thursday 23 May 2019 (afternoon)		
Oral Platform and Short Oral Presentations II		
Time	Title	Lecturer
14:00 – 14:15	Characterization of Chemical, Biological, Radiological, Nuclear (CBRN) Incidents Worldwide From 1970 to 2016 as reported by the Global Terrorism Database (GTD) (abstract no 120)	Katie Myers , Cynthia Santos Department of Emergency Medicine, Rutgers New Jersey Medical School, Newark, New Jersey, United States
14:15 – 14:20	Valproic acid poisoning: modeling of the pharmacokinetic/pharmacodynamic relationships and analysis of usefulness of L-carnitine infusion (abstract no 121)	Philippe Nguyen ¹ , Lucie Chevillard ¹ , Hervé Gourlain ² , Isabelle Malissin ¹ , Bruno Mégarbane ¹ ¹ Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS-1144, Paris, France; ² Laboratory of Toxicology, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS-1144, Paris, France
14:20 – 14:35	<i>In vitro</i> pharmacological profiles as predictors of effects and clinical potency of monoaminergic new psychoactive substances (abstract no 122)	Dino Luethi , Matthias E Liechi Division of Clinical Pharmacology and Toxicology, Department of Biomedicine, University Hospital Basel and University of Basel, Switzerland
14:35 – 14:40	Impact of a new legislation in Germany on synthetic cannabinoids analytically identified in intoxication cases (abstract no 123)	Michaela Sommer ¹ , Verena Angerer ¹ , Volker Auwärter ¹ , Florian Eyer ² , Maren Hermanns-Clausen ³ ¹ Forensic Toxicology, Institute of Forensic Medicine, Medical Center – University of Freiburg, Freiburg, Germany; ² Department of Clinical Toxicology, Klinikum rechts der Isar, Technical University of Munich, Germany, ⁴ Poisons Information Center, Department of General

		Pediatrics, Adolescent Medicine and Neonatology, Center for Pediatrics, Medical Center – University of Freiburg, Freiburg, Germany
14:40 – 14:45	Reported and analytically detected substances in cases of acute recreational drug toxicity: a multicenter European comparison of immunoassay and additional analytical methods (abstract no 124)	Evangelia Liakoni ¹ , Alison M Dines ² , Yasmin Schmid ³ , Knut Erik Hovda ⁴ , Fridtjof Heyerdahl ⁴ , Christopher Yates ⁵ , David M Wood ⁶ , Paul I Dargan ⁶ , Matthias E Liechti ³ , on behalf of the Euro-Den Plus Research Group ¹ Clinical Pharmacology and Toxicology, Department of General Internal Medicine, Inselspital, Bern University Hospital, University of Bern; Institute of Pharmacology, University of Bern, Switzerland; ² Clinical Toxicology, Guy's and St Thomas' NHS Foundation Trust and King's Health Partners, London, United Kingdom; ³ Division of Clinical Pharmacology and Toxicology, Basel University Hospital and University of Basel, Switzerland; ⁴ The Norwegian CBRNe Centre of Medicine, Department of Acute Medicine, Oslo University Hospital, Norway; ⁵ Clinical Toxicology Unit, Emergency Department, Hospital Universitari Son Espases, Research Institute of Health Sciences (IdISBa), Palma de Mallorca, Spain; ⁶ Clinical Toxicology, Guy's and St Thomas' NHS Foundation Trust and King's Health Partners; Clinical Toxicology, Faculty of Life Sciences and

		Medicine, King's College London, London, United Kingdom
14:45 – 15:00	Acute poisoning by chemicals in Spain: results of the Spanish Toxic Surveillance System (STSS) 2017 (abstract no 125)	Ana Ferrer Dufol ¹ , Santiago Nogue Xarau ² , Francisco Ruiz Ruiz ³ , Laura Rejas Morras ⁴ , Agustin Garcia Urdangarin ⁵ , Members of the STSP FETOC ⁶ ¹ Unit of Clinical Toxicology, Clinic University Hospital, Zaragoza, Spain; ² Unit of Clinical Toxicology, Hospital Clinic, Barcelona, Spain; ³ ED, Clinic University Hospital, Zaragoza, Spain; ⁴ Clinic University Hospital, Zaragoza, Spain; ⁵ Zaragoza University, Zaragoza, Spain; ⁶ FETOC, Zaragoza, Spain
15:00 – 15:05	National poisons centre data collection: pilot study on Pesticide Poisoning Monitoring in Germany (PIMONT-PES) (abstract no 126)	Andreas Stürer ¹ , Esther Feistkorn ² , Kathrin Begemann ² , Nina Glaser ² , Daniela Acquarone ³ , Dagmar Prasa ⁴ , Martin Ebbecke ⁵ , Florian Eyer ⁶ , Maren Hermanns-Clausen ⁷ , Carola Seidel ⁸ , Erol Tutdibi ⁹ , Herbert Desel ² ¹ Poisons Information Centre Mainz, Universitätsmedizin Mainz, Germany; ² Poisoning and Product Documentation Centre, German Federal Institute for Risk Assessment (BfR), Berlin, Germany; ³ Poisons Information Centre, Charité Universitätsmedizin Berlin, Germany; ⁴ Poisons Information Centre Erfurt, Helios-Klinikum, Erfurt, Germany; ⁵ GIZ-Nord Poisons Center, University Medical Center Göttingen, Germany; ⁶ Poisons Information Centre Munich, Klinikum rechts der

		Isar, Munich, Germany; ⁷ Poisons Information Centre VIZ-Freiburg, Universitätskinderklinik Freiburg, Freiburg, Germany; ⁸ Poisons Information Centre Bonn, Universitätskinderklinik Bonn, Germany; ⁹ Poisons Information Centre Homburg, Universitäts- kinderlinik des Saarlandes, Homburg, Germany
15:05 – 15:10	Tak: the computational toxicological machine (abstract no 127)	Michael Chary ¹ , Michele Burns ¹ , Edward Boyer ² ¹ Harvard Medical Toxicology Fellowship, Boston Children's Hospital, Boston, United States; ² Harvard Medical Toxicology Fellowship, Brigham and Women's Hospital, Boston, United States
15:10 – 15:45	Coffee and Authors with Posters	

Galatea, Thursday 23 May 2019 (afternoon)		
Oral Platform and Short Oral Presentations III		
Time	Title	Lecturer
15:45 – 16:00	Poppers poisoning cases admitted to the intensive care unit: Is there a methemoglobinemia threshold responsible for tissue dysoxia? (abstract no 128)	May Yaker ¹ , Eya Hamdi ² , Karim Jaffal ¹ , Bruno Mégarbane ¹ ¹ Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS-1144, Paris, France; ² Laboratory of Biochemistry, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS-1144, Paris, France
16:00 – 16:15	Clinical outcomes from early use of digoxin-specific antibodies versus observation in chronic digoxin poisoning (ATOM-4) (abstract no 129)	Betty S Chan ¹ , Geoffrey K Isbister ² , Colin B Page ³ , Katherine Z Isoardi ³ , Angela L Chiew ¹ , Katharine A Kirby ⁴ , Nicholas A Buckley ⁴ ¹ Emergency Medicine & Clinical Toxicology Unit, Prince of Wales Hospital, Sydney, Australia; ² Clinical Toxicology Research Group, University of Newcastle, Newcastle, Australia; ³ Clinical Toxicology Unit, Princess Alexandra Hospital, Brisbane, Australia; ⁴ Discipline of Pharmacology, University of Sydney, Australia
16:15 – 16:20	Can severe digoxin poisoning be treated without using antibody fragments? (abstract no 130)	Csaba Pap Department of Emergency Medicine and Clinical Toxicology, Péterfy Hospital, Budapest, Hungary
16:20 – 16:25	Self-harm with <i>Nerium oleander</i> ingestion in Italy (abstract no 131)	William Brambilla ¹ , Ilaria Melara ¹ , Valeria M Petrolini ² , Francesca Chiara ² , Marta Crevani ² , Sarah Vecchio ² , Carlo A Locatelli ² ¹ Emergency Medicine Fellowship Program,

		University of Pavia, Italy; ² Pavia Poison Control Centre - National Toxicology Information Centre - Clinical and Experimental Lab, Toxicology Unit, Maugeri Clinical and Scientific Institutes IRCCS and University of Pavia, Italy
16:25 – 17:00	Meet the editor How to get published in Clinical Toxicology* *and anywhere else	Steven Seifert , Editor-in- Chief, <i>Clinical Toxicology</i>

17:15 – 18:45	EAPCCT General Assembly
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Dioni & Elettra, Thursday 23 May 2019 (afternoon)		
APAMT Symposium - The Dirty Dozen: Mechanisms of Toxicity in Commonly Marketed Herbal Remedies		
Time	Title	Lecturer
15:45 – 16:05	Toxicity and safety of herbal products: local issues, global implications	Alan Woolf , Boston Children's Hospital, Boston, United States
16:05 – 16:25	Highly toxic herbs used in Traditional Chinese Medicine: part I	Chen-Chang Yang , National Yang-Ming University & Taipei Veterans General Hospital, Taipei, Taiwan
16:25 – 16:45	Highly toxic herbs used in Traditional Chinese Medicine: part II	Jou-Fang Deng , Taipei Veterans General Hospital, Taipei, Taiwan
16:45 – 17:05	Potential toxicity of ayurvedic medicine	Ashish Bhalla , Post Graduate Institute of Medical Education and Research Chandigarh, India
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • describe institutional challenges in addressing safety issues regarding botanicals and other dietary supplements • understand the mechanisms and toxic effects of certain highly toxic herbs used in Traditional Chinese Medicine • appreciate that any bizarre and/or multiple organ disturbance could be related to the use of traditional medicine or herbs • understand the toxic potential of various ayurvedic drugs available over the counter in India and abroad 		
17:15 – 18:45	EAPCCT General Assembly in Galatea	

Galatea, Friday 24 May 2019 (morning)		
Young Investigator Award (YIA) (plenary session)		
Time	Title	Lecturer
09:00 – 09:05	Introduction	
09:05 – 09:20	Pharmacokinetics of an oral lysergic acid diethylamide (LSD) solution in healthy subjects (abstract no 235)	Friederike Holze , Urs Duthaler, Patrick Vizeli, Matthias E Liechi Clinical Pharmacology and Toxicology, University Hospital Basel, University Basel, Switzerland
09:20 – 09:35	Derivation of a clinical decision rule allowing earlier discharge of patients with paracetamol poisoning after a shorter 12-hour acetylcysteine (SNAP) protocol (abstract no 236)	Amani S Alrossies ¹ , Ruben HK Thanacoody ¹ , James Harnett ² , Kerry Layne ² , John RH Archer ² , Simon L Hill ¹ , David M Wood ² , Paul I Dargan ² , Simon HL Thomas ¹ ¹ Newcastle University, Newcastle upon Tyne, United Kingdom; ² Guy's & St Thomas NHS Foundation Trust, London, United Kingdom
09:35 – 09:50	Phase I and II metabolites of methylenedioxy-substituted stimulants interact with human monoamine transporters (abstract no 237)	Karolina E Kolaczynska ¹ , Dino Luethi ¹ , Kenner C Rice ² , Bruce E Blough ³ , Michael H Baumann ⁴ , Matthias E Liechi ¹ ¹ Division of Clinical Pharmacology and Toxicology, Department of Biomedicine, University Hospital Basel; University of Basel, Switzerland; ² Drug Design and Synthesis Section, Intramural Research Program, National Institute on Drug Abuse; National Institutes of Health, Bethesda, United States; ³ Center for Drug Discovery, Research Triangle Institute, Research Triangle Park,

		United States; ⁴ Designer Drug Research Unit, Intramural Research Program, National Institute on Drug Abuse; National Institutes of Health, Baltimore, United States
09:50 – 10:05	Mapping snake envenomation: a pilot meteorological and geospatial model based on retrospective review of case records at a single tertiary care snake bite treatment centre (abstract no 238)	Siju V Abraham ¹ , Ronald Jaison Melit ² ¹ Emergency Medicine, Jubilee Mission Medical College and Research Institute, Thrissur, India; ² Jubilee Mission Medical College and Research Institute, Thrissur, India
10:05	Judging commences	
10:05 – 10:25	Biology, Pharmacology and Toxicology of Botulinum Neurotoxin <i>At the end of this lecture the audience should be able to:</i> <ul style="list-style-type: none"> • <i>understand the pharmacological use of botulinum neurotoxin and of its role in causing botulism</i> 	Cesare Montecucco , Department of Biomedical Sciences, University of Padova, Italy
10:25 – 10:30	Presentation to the winner of the YIA	
10:30 – 11:10	Coffee and Authors with Posters	

Galatea, Friday 24 May 2019 (morning)		
Oral Platform and Short Oral Presentations IV		
Time	Title	Lecturer
11:10 – 11:25	Management of severe calcium channel blocker poisonings using albumin dialysis by MARS™: benefits and limits (abstract no 239)	Laetitia Sutterlin ¹ , Isabelle Malissin ¹ , Sebastian Voicu ¹ , Nicolas Deye ¹ , Brigitte Delhotal Landes ¹ , Marion Soichot ² , Eya Hamdi ³ , Jean-Louis Laplanche ³ , Laurence Labat ² , Bruno Mégarbane ¹ ¹ Department of Medical and Toxicological Critical Care, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS-1144, Paris, France; ² Laboratory of Toxicology, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS-1144, Paris, France; ³ Laboratory of Biochemistry, Lariboisière Hospital, Paris-Diderot University, INSERM UMRS-1144, Paris, France
11:25 – 11:40	Using EXTRIP criteria as indications for extracorporeal treatment in lithium poisoning (abstract no 240)	Betty S Chan ¹ , Sonia Cheng ² , Angela Chiew ¹ , Nicholas A Buckley ³ ¹ Dept of Emergency Medicine & Clinical Toxicology, Prince of Wales Hospital, Sydney, Australia; ² Faculty of Medicine, University of New South Wales, Sydney, Australia; ³ Dept of Clinical Pharmacology, University of Sydney, Australia
11:40 – 11:45	Pediatric toxicity of clonidine: can a single pill kill? (abstract no 241)	Asaad I Alsufyani ¹ , Daniel P Gorman ² , Nathan P Charlton ¹ ¹ Medical Toxicology, University of Virginia, Charlottesville, United States; ² Emergency Medicine, Virginia Tech

		Carilion, Roanoke, United States
11:45 – 11:50	Paracetamol metabolites and paracetamol-protein adducts following repeated suprathreshold ingestion (RSTI) of paracetamol (abstract no 242)	Angela L Chiew ¹ , Laura P James ² , Geoffrey K Isbister ³ , Paul Stathakis ⁴ , Kirsty Ress ⁴ , Betty SH Chan ⁵ , Nicholas A Buckley ¹ ¹ Department of Pharmacology, School of Medical Sciences,, University of Sydney, Australia; ² Arkansas Children’s Hospital and Department of Pediatrics, University of Arkansas for Medical Sciences, Arkansas, United States; ³ Department of Clinical Toxicology and Pharmacology, Calvary Mater Newcastle and School of Medical Practice, University of Newcastle, Australia; ⁴ NSW Health Pathology, Prince of Wales Hospital, Randwick, Australia; ⁵ Department of Clinical Toxicology, Prince of Wales Hospital, Randwick, Australia
11:50 – 11:55	Efficacy of a two bag acetylcysteine regimen to treat paracetamol overdose (2NAC study) (abstract no 243)	Anselm Wong ¹ , Geoffrey K Isbister ² , Richard McNulty ³ , Angela Chiew ⁴ , Colin Page ⁵ , Shaun L Greene ⁶ , Naren Gunja ³ , Nicholas A Buckley ⁷ , Andis Gaudins ⁸ ¹ Clinical Sciences at Monash Health, Monash University, and Austin Toxicology Unit and Emergency Department, Victoria, Australia; ² Clinical Toxicology Research Group, University of Newcastle, Australia; ³ Department of Clinical Pharmacology & Toxicology, Western Sydney Health, New South Wales, Australia; ⁴ Department of

		<p>Emergency and Toxicology, Prince of Wales Hospital, Sydney, Australia; ⁵ Department of Emergency and Toxicology, Princess Alexandra Hospital, Brisbane, Australia; ⁶ Austin Toxicology Unit and Emergency Department, Austin Health, Victoria, Australia; ⁷ University of Sydney, New South Wales, Australia; ⁸ Clinical Sciences at Monash Health, Monash University, and Monash Toxicology Unit and Emergency Service, Monash Health, Dandenong, Australia</p>
11:55 – 12:00	Paracetamol metabolites following acute overdose as a biomarker for acute liver injury (abstract no 244)	<p>Angela L Chiew¹, Laura P James², Geoffrey K Isbister³, Paul Stathakis⁴, Kirsty Ress⁴, Betty SH Chan⁵, Nicholas A Buckley¹</p> <p>¹ Department of Pharmacology, School of Medical Sciences, University of Sydney, Australia; ² Arkansas Children's Hospital and Department of Pediatrics, University of Arkansas for Medical Sciences, Arkansas, United States; ³ Department of Clinical Toxicology and Pharmacology, Calvary Mater Newcastle and School of Medical Practice, University of Newcastle, Australia; ⁴ NSW Health Pathology, Prince of Wales Hospital, Randwick, Australia; ⁵ Department of Clinical Toxicology, Prince of Wales Hospital, Randwick, Australia</p>

12:00 – 12:05	Outcomes associated with large doses of extended and immediate release paracetamol products reported to the US National Poison Data System (NPDS) (abstract no 245)	Kate M Reynolds , Heather Delva-Clark, Randy I Burnham, Malin Rapp-Olsson, Richard C Dart Rocky Mountain Poison and Drug Center - Denver Health & Hospital Authority, Denver, United States
12:05 – 12:10	Loxoscelism: a case series from the Medical Toxicology Unit and Poison Control Centre of Florence Careggi University Hospital (abstract no 246)	Angelo Rotulo ¹ , Alessandro Zotto ¹ , Marco Cirronis ¹ , Amedeo Del Vecchio ¹ , Francesco Gambassi ² , Emanuela Masini ¹ , Guido Mannaioni ¹ , Alessandra Ieri ² ¹ Department of Neurofarba, Università degli Studi di Firenze, Florence, Italy; ² Medical Toxicology Unit - Poison Control Center, Azienda Ospedaliero-Universitaria Careggi, Florence, Italy
12:10 – 12:15	Epidemiology and clinical aspects of mushroom-related poisonings in Italy: a 20-year retrospective study (abstract no 247)	Francesca Assisi ¹ , Franca Davanzo ¹ , Maurizio Bissoli ¹ , Valeria Dimasi ¹ , Marcello Ferruzzi ² , Joannhe Georgatos ¹ , Ilaria Rebutti ¹ , Angelo Travaglia ¹ , Paolo Severgnini ¹ , Fabrizio Sesana ¹ , Giovanni Milanesi ¹ , Paola Moro ¹ , Anna Celentano ¹ ¹ Poison Control Center of Milan, ASST GOM Niguarda, Milan, Italy; ² ASST GOM Niguarda, Milan, Italy
12:15 – 12:20	A model of big data linkage to monitor student emergency department visits with intoxication and associated risk markers in a US public university (abstract no 248)	Duc Anh Ngo , Rege Saumitra, Christopher Holstege University of Virginia, Charlottesville, United States
12:20 – 12:25	Changes in patient demographics and poisoning severity after additional regulation of packaging and labelling for liquid laundry detergent capsules (abstract no 249)	Patricia Casey, Feargal O'Connor, Edel Duggan National Poisons Information Centre of Ireland, Dublin, Ireland

12:25 – 12:30	Documentation in the patient medical record improves adherence to poisons information centre telephone advice (abstract no 250)	Carol J Wylie ¹ , Genevieve H Messina ¹ , Danielle S Dean ¹ , Keith Harris ² , Colin B Page ² , Katherine Z Isoardi ² ¹ Pharmacy, Queensland Poisons Information Centre, Brisbane, Australia; ² Emergency Department, Princess Alexandra Clinical Toxicology Unit, Brisbane, Australia
12:30 – 13:30	Lunch	
13:30 – 14:00	Authors with Posters and Poster Round (poster numbers 272, 280, 284, 334, 353)	

Dioni & Elettra, Friday 24 May 2019 (morning)		
Best paper session		
Time	Title	Lecturer
An international panel have each been asked to select a clinical toxicology paper published in 2018 that they consider to be among the best. The aim is to highlight papers that have changed or challenged clinical practice, taught something new or unexpected, improved understanding of toxicological mechanisms, or inspired the panellists. The speakers will defend their choice in a brief 10-minute presentation followed by discussion.		
11:10 – 11:30	Paper title to follow	Alex Manini , Icahn School of Medicine at Mount Sinai, New York, USA
11:30 – 11:50	Paper title to follow	Dabor Resiere , Critical Care Unit, University Hospital of Martinique, France
11:50 – 12:10	Paper title to follow	Davide Lonati , Poison Control Centre and National Toxicology Information Centre - Toxicology Unit, ICS Hospital Maugeri and University of Pavia, Italy
12:10 – 12:30	Paper title to follow	Kate Balme , Poisons Information Centre, University of Cape Town, South Africa
12:30 – 13:30	Lunch	
13:30 – 14:00	Authors with Posters and Poster Round (poster numbers 272, 280, 284, 334, 353)	

Galatea, Friday 24 May 2019 (afternoon)		
Psychiatry for the Clinical Toxicologist Symposium		
Time	Title	Lecturer
14:00 – 14:20	Personality disorder - drug abuse and self-harm	Thomas Zilker , Munich, Germany
14:20 – 14:40	Agitation in the psychiatric patient who is intoxicated. (High or Mad?) - the role of sedatives / antipsychotics	Jon Cole , Minnesota Poison Control System, Minnesota, USA
14:40 – 14:55	Psychological disturbances in adolescents with acute voluntary poisoning (abstract no 251)	Coriolan Ulmeanu, Dora Boghitoiu, Mihai Boscaiu, Alexandru Ulmeanu, Alexandru Baci, Viorela Nitescu Pediatric Poisoning Centre Emergency Clinical Hospital for Children "Grigore Alexandrescu", Bucharest, Romania
14:55 – 15:00	Death on demand: public debate leads to increasing use of “suicide powders” (abstract no 252)	Antoinette J.H.P. Van Riel ¹ , Anja P.G. Wijnands-Kleukers ¹ , Douwe Dekker ² , Irma de Vries ¹ , Dylan W de Lange ³ ¹ Dutch Poisons Information Center, University Medical Center, Utrecht University, Netherlands; ² Dutch Poisons Information Center, Department of Internal Medicine, University Medical Center, Utrecht University, Netherlands; ³ Dutch Poisons Information Center, Intensive Care Unit, University Medical Center, Utrecht University, Netherlands
<i>At the end of this session the audience should be able to:</i>		
<ul style="list-style-type: none"> • understand the reason why patients with personality disorder tend to drug abuse and suicidal behaviour • develop an approach for choosing the ideal sedative for an acutely agitated or violent patient 		
15:00 – 15:40	Coffee and Authors with Posters	

Psychiatry for the Clinical Toxicologist Symposium (continued)		
15: 40 – 16:00	Incipient psychosis and substance misuse	Susana Arboleya Martinez, Hospital Universitari Son Espases, Palma, Mallorca
16:00 – 16:20	Toxicity and psychiatry in hospital: mental health evaluation and care of the overdose patient	JJ Rasimas, Hennepin County Medical Center, Minneapolis, United States
16:20 – 16:25	Discussion	
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • <i>describe the impact of substance use on the diagnosis and prognosis of first-episode psychosis</i> • <i>implement principles for safe, sensitive mental health care of the toxicology patient in the acute setting along with planning for treatment after discharge</i> 		

16:30 – 17:30	EAPCCT Fellows Meeting
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Evening	Conference Dinner at Santa Chiara Monastery
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Dioni & Elettra, Friday 24 May 2019 (afternoon)		
ECMO and the Poisoned Patient Symposium		
Time	Title	Lecturer
14:00 – 14:20	Technical standards for ECMO: an overview	Mirko Belliato , Foundation IRCCS Policlinico San Matteo, Pavia, Italy
14:20 – 14:40	ECMO in chemical-induced lung injury	Juergen Pauluhn , Wuppertal, Germany
14:40 – 15:00	Drug pharmacokinetics during ECMO	Matteo Di Nardo , Children's Hospital Bambino Gesù, Rome, Italy
<p><i>At the end of this session the audience should be able to:</i></p> <ul style="list-style-type: none"> • describe the main indications, contraindications, technical set-up and clinical advantages of ECMO in critical care severely intoxicated patients • differentiate irritants causing early and delayed life-threatening lung oedemas and utilize diagnostic tools to develop treatment plans based on structured mechanism of injury rather than symptomology • describe the main mechanism regarding pharmacokinetics of sedative drugs and antibiotics during ECMO, in particular which drugs are absorbed to the ECMO circuit and how to adjust dosaging during ECMO 		
15:00 – 15:40	Coffee and Authors with Posters	
ECMO and the Poisoned Patient Symposium (continued)		
15:40 – 15:50	<p>The role of extracorporeal membrane oxygenation (ECMO) in poisoning: a 10-year review of enquiries made to the UK National Poisons Information Service (NPIS) 2008-2018 (abstract no 253)</p> <p><i>and</i></p> <p>Three paediatric poisonings treated with extracorporeal membrane oxygenation (ECMO): the UK National Poisons Information Service (NPIS) experience 2008-2018 (abstract no 254)</p>	<p>Pardeep S Jagpal¹, Hayley A Williams¹, Muhammad EMO Elamin¹, Euan A Sandilands², Simon HL Thomas³, John P Thompson⁴, Sally M Bradberry¹</p> <p>¹ City Hospital, National Poisons Information Service (Birmingham Unit), Birmingham, United Kingdom; ² Royal Infirmary, National Poisons Information Service (Edinburgh Unit), Edinburgh, United Kingdom; ³ Regional Drugs and Therapeutic Centre, National Poisons Information Service (Newcastle Unit), Newcastle, United Kingdom; ⁴ University Hospital Llandough, National Poisons Information Service (Cardiff Unit), Cardiff, United Kingdom</p> <p><i>and</i></p>

		<p>Pardeep S Jagpal¹, Muhammad EMO Elamin¹, Euan A Sandilands², Simon HL Thomas³, John P Thompson⁴, Sally M Bradberry¹ ¹ City Hospital, National Poisons Information Service (Birmingham Unit), Birmingham, United Kingdom; ² Royal Infirmary, National Poisons Information Service (Edinburgh Unit), Edinburgh, United Kingdom; ³ Regional Drug and Therapeutics Centre, National Poisons Information Service (Newcastle Unit), Newcastle, United Kingdom; ⁴ University Hospital Llandough, National Poisons Information Service (Cardiff Unit), Cardiff, United Kingdom</p>
15:50 – 16:05	Clinical utility of extracorporeal membrane oxygenation (ECMO) in poisoned patients with cardiovascular collapse: a retrospective study of Extracorporeal Life Support Organization's ECMO registry (abstract no 255)	<p>Lindsay Weiner¹, Michael Mazzeffi², Elizabeth Hines³, Katherine Prybys⁴, Daniel L Herr⁵, Hong K Kim⁴ ¹ Emergency Medicine, University of Maryland Medical Center, Baltimore, United States; ² Anesthesiology, University of Maryland School of Medicine, Baltimore, United States; ³ Pediatrics, University of Maryland School of Medicine, Baltimore, United States; ⁴ Emergency Medicine, University of Maryland School of Medicine, Baltimore, United States; ⁵ Medicine, University of Maryland School of Medicine, Baltimore, United</p>

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Naples, 21 – 24 May 2019

		States
16:05 – 16:25	ECMO for the poisoned patient: indications and results	Bruno Mégarbane , Paris-Diderot University, France
<i>At the end of this session the audience should be able to:</i>		
<ul style="list-style-type: none">• <i>understand the indications and management of ECMO in the poisoned patient</i>		

16:30 – 17:30	EAPCCT Fellows Meeting in Galatea
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Evening	Conference Dinner at Santa Chiara Monastery
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POSTERS

Wednesday 22 May 2019

Recreational Drugs and New Psychoactive Substances (NPS)

007

Cocaine poisoning in the intensive care unit: are there differences between cocaine hydrochloride- and crack-related toxicity?

Lisa Catherine, Marion Soichot, Sebastian Voicu, Laurence Labat, Bruno Mégarbane.

008

A case of etizolam withdrawal syndrome

Anthony Scoccimarro, Ryan Marino, Joshua Shulman.

009

Analytical confirmation of benzodiazepine use in 500 patients presenting with acute recreational drug toxicity to a Central London Emergency Department

Joanna C White, Paul Dargan, Simon Hudson, Rachelle Abouchedid, Alison Dines, John RH Archer, David M Wood.

010

Comparison of the hepatocellular toxicity of para-halogenated amphetamines and methcathinones

Xun Zhou, Melanie Walter, Matthias E Liechti, Stephan Krähenbühl, Dino Luethi.

011

A chloromethcathinone-like new psychoactive drug (NPS): epidemiological features and clinical characteristics of intoxication

Emilio Salgado, Marina Parra, Oscar Pozo, Josep Marcos, Jordi To-Figueras, Santiago Nogué.

012

Methadone poisonings in France: comparison of suicide attempts versus abuse during a seven-year experience of the French Poison Control Center Network

Romain Torrents, Mathieu Glaizal, Katharina Von Fabeck, Bastien Domangé, Corinne Schmitt, Julien Reynoard, Audrey Boulamery, Luc de Haro, Nicolas Simon.

*013

Trends in synthetic cathinone use in poisoned patients in Italy from the National Alert System observatory

Carlo A Locatelli, Eleonora Buscaglia, Giulia Scaravaggi, Azzurra Schicchi, Pietro Papa, Davide Lonati.

*Included in poster discussion session

014

Cytochrome P450 enzymes contribute to the metabolism of LSD to nor-LSD and-oxo-3-hydroxy-LSD: implications for clinical LSD use

Dino Luethi, Stephan Krähenbühl, Matthias E Liechti, Urs Duthaler.

*015

**Changes in the new psychoactive substances (NPS) involved in acute drug toxicity
Emergency Department presentations reported to Euro-DEN Plus Network between 2014
and 2017**

David M Wood, Alison M Dines, Knut Erik Hovda, Fridtjof Heyerdahl, Christopher Yates,
Isabelle Giraudon, Paul I Dargan, Euro-Den Plus Research Group.

016

**Emergency department presentations related to acute toxicity following recreational use
of cannabis products in Switzerland**

Evangelia Liakoni, Yasmin Schmid, Irene Scholz, Laura Mueller, Aristomenis K Exadaktylos,
Alessandro Ceschi, Matthias E Liechti.

017

The trend in the use of substances of abuse over the past three and a half years in Greece

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