

Current Awareness in Clinical Toxicology

Editors: Damian Ballam MSc and Allister Vale MD

March 2014

CURRENT AWARENESS PAPERS OF THE MONTH

Patterns of presentation and clinical toxicity after reported use of alpha methyltryptamine in the United Kingdom. A report from the UK National Poisons Information Service

Kamour A, James D, Spears R, Cooper G, Lupton DJ, Eddleston M, Thompson JP, Vale AJ, Thanacoody HKR, Hill SL, Thomas SHL. Clin Toxicol 2014; 52: 192-7.

Objective

To characterise the patterns of presentation, clinical effects and possible harms of acute toxicity following recreational use of alpha methyltryptamine (AMT) in the United Kingdom, as reported by health professionals to the National Poisons Information Service (NPIS) and to compare clinical effects with those reported after mephedrone use.

Methods

NPIS telephone enquiries and TOXBASE[®] user sessions, the NPIS online information database, related to AMT were reviewed from March 2009 to September 2013. Telephone enquiry data were compared with those for mephedrone, the recreational substance most frequently reported to the NPIS, collected over the same period.

Results

There were 63 telephone enquiries regarding AMT during the period of study, with no telephone enquiries in 2009 or 2010, 19 in 2011, 35 in 2012 and 9 in 2013 (up to September). Most patients were male (68%) with a median age of 20 years. The route of exposure was ingestion in 55, insufflation in 4 and unknown in 4 cases. Excluding those reporting co-exposures, clinical effects recorded more frequently in AMT ($n = 55$) compared with those of mephedrone ($n = 488$) users including acute mental health disturbances (66% vs. 32%; Odds Ratio [OR], 4.00; 95% Confidence Intervals [CI], 2.22–7.19), stimulant effects (66% vs. 40%; OR, 2.82; 95% CI 1.57–5.06) and seizures (14% vs. 2%; OR, 9.35; 95% CI 3.26–24.18).

Current Awareness in Clinical Toxicology is produced monthly for the American Academy of Clinical Toxicology by the Birmingham Unit of the UK National Poisons Information Service.

The NPIS is commissioned by Public Health England

Conclusions

Although still infrequent, toxicity following reported exposure to AMT has been encountered in the United Kingdom since January 2011. Stimulant features, acute mental health disturbances and seizures are more frequently reported than in those presenting following reported use of mephedrone.

Full text available from: <http://dx.doi.org/10.3109/15563650.2014.885983>

Serious adverse effects from single-use detergent sacs: report from a U.S. statewide poison control system

Huntington S, Heppner J, Vohra R, Mallios R, Geller RJ. Clin Toxicol 2014; 52: 220-5.

Background

In recent years, serious adverse effects to children from exposure to single-use detergents sacs (SUDS) have been recognized. While most exposures result in minor symptoms, there have been serious outcomes. This study aims to classify which types of serious outcomes follow SUDS exposures, and to assess, if possible, differences in toxicity between various SUDS products.

Methods

An observational case series with data collected retrospectively was performed for cases of SUDS exposures reported to a statewide poison system's records database from 1 January 2012 to 31 March 2013. Cases were identified and analyzed for clinical details and trends. A statewide database was queried for cases involving the American Association of Poison Control Centers (AAPCC) product-specific codes for SUDS products using following search terms: laundry pods, the AAPCC product-specific codes for Tide Pods[®], Purex Ultrapacks[®], ALL Mighty Pacs[®], and a unique agent code (AAPCC ID: 6903138; Generic: 077900) created by AAPCC to track SUDS exposures.

Results

A total of 804 cases of exposures to SUDS were identified, the majority of which were exploratory ingestions in young children with a median age of 2 years. Serious adverse effects resulted from 65 (9%) exposures and 27 (3%) exposures resulted in admission to hospital. Binary logistic regression demonstrated that the presence of central nervous system (CNS) or respiratory system effects were associated with more severe outcomes, with a model accuracy of 96.4%. There were significant differences in morbidity among the three most common brand-name products: when compared with Tide Pods[®], odds ratios (OR) and 95% confidence intervals (CI) for severe outcome and admission rate were significantly greater following Purex Ultrapack[®] exposures (severity OR 5.1 [CI: 2.13–12.23]; admission OR 10.36 [CI: 3.23–33.22]) and ALL Mighty Pac[®] exposures (severity OR 11.22 [CI: 4.78–28.36]; admission OR 15.20 [CI: 5.01–46.12]).

Conclusions

Serious complications from exposure to SUDS occur in a small number of exposures for unclear reasons. Respiratory and CNS effects are associated with more severe outcomes. Some brand-name products are associated with a relatively higher risk of severe adverse effects and rates of admission.

Full text available from: <http://dx.doi.org/10.3109/15563650.2014.892122>

Misdiagnosis and long-term outcome of 13 patients with acute thallium poisoning in China

Li JM, Wang W, Lei S, Zhao LL, Zhou D, Xiong H. Clin Toxicol 2014; 52: 181-6.

Purpose

To analyze clinical feature and evaluate long-term outcome of patients with thallium poisoning.

Materials and methods

An observational series of cases with acute thallium poisoning was analyzed retrospectively in West China Hospital of Sichuan University between 2000 and 2010. The clinical data including symptom, determination of thallium level, treatment, neurophysiological examination, and neuropsychological evaluation were analyzed. The patients were followed up until December 2012.

Results

Seven men and six women were enrolled in the study. The median patient age was 37 years (range: 15–53 years). The median duration of hospitalization was 44 days (range: 7–72). All the patients were misdiagnosed initially. One patient died in the hospital. The other 12 patients were followed for a median of 7 years (range: 1–12 years) after discharge from hospital. One patient died from leukemia in the first year of follow-up. Long-term outcome results showed peripheral neuropathy improved substantially. However, many patients have mild or moderate sequelae in sensory nerve fibers of distal lower extremity. A sural nerve biopsy in one patient revealed shrunken axons, distorted myelin sheath, and myelinated fibers loss. During follow-up period, problem of intelligence (4/12 patients, 33%), memory impairment (4/12, 33%), anxiety (6/12, 50%), and depression (5/12, 42%) were demonstrated.

Conclusions

Neurological symptoms may lead to misdiagnosis of thallium poisoning. Mild or moderate neurological sequelae may last for a long time after thallium poisoning.

Full text available from: <http://dx.doi.org/10.3109/15563650.2014.892123>

Toxicity and clinical outcomes of paliperidone exposures reported to U.S. Poison Centers

Tsay ME, Klein-Schwartz W, Anderson B. Clin Toxicol 2014; 52: 207-13.

Context

Paliperidone is an atypical antipsychotic that was approved in the U.S. in 2006, and is also available in Canada, Australia, New Zealand, Europe, and Asia. Information regarding paliperidone overdoses is limited to case reports. Serious toxicity has yet to be reported.

Objective

To evaluate the toxicity of paliperidone exposures using a national poison center database.

Methods

A retrospective, observational case series of single-substance paliperidone cases reported to the National Poison Data System from 2007 to 2012 was conducted. Cases were evaluated for demographics, reason for exposure, clinical effects, treatments, disposition, and coded medical outcomes. For cases with major effects the text fields in poison center charts were evaluated to verify accuracy of coded outcome. The relationship between dose and severity of medical outcome was analyzed for acute exposure cases.

Results

There were 801 paliperidone cases that met inclusion criteria that included 592 persons of 13 years or greater, 67 children of 6–12 years, 140 children of less than 6 years, and 2 unknown ages. Most common reasons for exposure included: suicide attempt (39.6%), unintentional general (21.1%), therapeutic error (15.7%), and adverse drug reaction (11.9%). The most commonly observed clinical effects were drowsiness/lethargy (28.7%), tachycardia (23.3%), and dystonia (14.2%). Most patients were managed in the emergency department (40.3%) or were admitted to a health care facility (HCF) (42.7%). In 564 cases treated in a HCF, treatments included activated charcoal (25.7%), antihistamines (21.1%), and benzodiazepines (9.4%). Medical outcomes were no effect (35.0%), minor (30.8%), moderate (33.7%), and major effect (0.5%). There were no deaths. Of 491 acute exposures, dose was coded for 74.3% of exposures. There was a significant difference in the reported median dose between those with no effect (6 mg) and either minor effect (12 mg; $p = 0.047$) or moderate effect cases (12 mg; $p = 0.020$) in 91 children less than 6 years.

Conclusions

The majority of patients experienced no or minor toxicity and were not admitted for medical care. Although a higher dose was associated with a more serious outcome in children less than 6 years, the data do not provide clear-cut triage guidelines.

Full text available from: <http://dx.doi.org/10.3109/15563650.2014.882000>

Castor bean seed ingestions: a state-wide poison control system's experience

Thornton SL, Darracq M, Lo J, Cantrell FL. Clin Toxicol 2014; online early: doi: 10.3109/15563650.2014.892124:

Context

Ingestions of the seed of the castor bean plant (*Ricinus communis*) carries the risk of toxicity from ricin, a potent inhibitor of protein synthesis.

Objective

We sought to describe characteristics of castor bean seed exposures reported to a state-wide poison control system.

Methods

This was an observational case series. A state-wide poison control system's database was reviewed for exposures to castor bean plant seeds from 2001 to 2011. Case notes were reviewed and data collected, when available, included age, gender, circumstances surrounding exposure, number of castor beans consumed, whether beans were chewed or crushed, symptoms described, laboratory values (aspartate aminotransferase [AST], alanine aminotransferase [ALT], prothrombin time [PT] and *international normalized ratio* [INR]), duration of follow-up, treatment, and patient outcomes.

Results

Eighty-four cases were identified. Ingestions were unintentional in 50 cases (59%) cases and intentional in 34 (40%) cases. A median of 10 seeds (range: 1–20) were ingested in intentional cases versus 1 seed (range: 1–40) in unintentional cases. In 49 (58%) of cases the seeds were reported to have been chewed or crushed. Gastrointestinal symptoms were the most commonly reported symptoms. Vomiting ($n = 39$), nausea ($n = 24$), diarrhea ($n = 17$), and abdominal pain ($n = 16$) predominated. One patient developed hematochezia and vomiting after reportedly ingesting and intravenously injecting castor bean seeds. Laboratory values were documented in 17 (20%) cases. Only one abnormality was noted;

an asymptomatic patient one week following ingestion had AST/ALT of 93 U/L and 164 U/L, respectively. Ricinine was confirmed in the urine of two patients. Twenty-three (27%) cases received activated charcoal. Seventy-two (86%) of cases were calls from health care facilities or referred to health care facilities by the poison control center. Twenty-two (26%) cases were admitted for a median of 2 days (range: 1–10). Admitted cases ingested a median of 8.5 seeds (range: 1–20). Intentional ingestions were followed for median of 37.5 h (range: 0.5–285.5) while unintentional cases were followed for 14 h (range: 1–182). No delayed symptoms, serious outcomes, or deaths were reported.

Discussion

Due to the presence of ricin, there is concern for serious outcomes after ingestions of the seeds of the castor bean plant. In this study GI symptoms were most commonly reported but serious morbidity or mortality was not present. The true risk of castor bean plant seed ingestions should continue to be re-evaluated.

Conclusion

In this retrospective review, gastrointestinal symptoms were the most common symptoms described after reported exposures to castor bean seeds. These exposures were not associated with serious morbidity, mortality, or delayed symptoms.

Full text available from: <http://dx.doi.org/10.3109/15563650.2014.892124>

Three months of methoxetamine administration is associated with significant bladder and renal toxicity in mice

Dargan PI, Tang HC, Liang W, Wood DM, Yew DT. Clin Toxicol 2014; 52: 176-80.

Context

Methoxetamine is a ketamine analogue that has recently emerged as a novel psychoactive substance. Chronic ketamine use is associated with significant bladder and renal toxicity. Methoxetamine has been marketed as "bladder friendly", but there is no data to be able to substantiate this claim.

Objective

To characterise the patterns of bladder and renal toxicity associated with 3 months of methoxetamine administration in an animal model.

Materials and methods

Two-month-old Institute of Cancer Research mice were administered 30 mg/kg methoxetamine intraperitoneally ($n = 5$) or saline ($n = 3$ control) for 3 months. The animals were then sacrificed and histological examination, immuno-cytochemistry using polyclonal anti-CD4 antibodies and sirius-red staining for collagen were performed.

Results

The kidneys of methoxetamine-treated animals showed inflammatory cell infiltration, tubular cell necrosis and glomerular damage ($1.9 \pm 0.3\%$ shrunken glomeruli in control, $9.8 \pm 0.8\%$ in methoxetamine-treated mice ($p < 0.0001$); $2.9 \pm 0.3\%$ tubular cell degeneration in control, $20.4 \pm 1.1\%$ in methoxetamine-treated mice ($p < 0.0001$)). There was a greater density of mononuclear cells in the bladder lamina propria and submucosa in methoxetamine-treated mice (43.0 ± 2.1 per $250 \times 250 \mu\text{m}$) than controls (7.1 ± 1.2 per $250 \times 250 \mu\text{m}$), $p < 0.001$. CD4-positive staining was seen in the bladder submucosa and lamina propria of all methoxetamine-treated mice and muscle-layer of two methoxetamine-treated mice; these changes were not seen in the control mice. There was an increase in sirius-red collagen in the bladder sub-mucosa and muscle-layer in the methoxetamine-

treated mice compared with control mice.

Discussion

This study has shown that 3 months of daily 30 mg/kg intra-peritoneal methoxetamine results in significant bladder and renal toxicity in mice. Changes in the bladder included inflammatory changes with subsequent fibrosis and changes in the kidney were seen at both a tubular and glomerular level. These changes are similar to those seen in comparable animal models of chronic ketamine administration. Further work is required to determine the time course of the onset of these effects and whether the effects are reversible with methoxetamine cessation.

Full text available from: <http://dx.doi.org/10.3109/15563650.2014.892605>

The association between U.S. Poison Center assistance and length of stay and hospital charges

Friedman LS, Krajewski A, Vannoy E, Allegretti A, Wahl M. Clin Toxicol 2014; 52: 198-206.

Context

Poison centers (PCs) play an important role in poison prevention and treatment. Studies show that PCs reduce system-wide cost by reducing the number of unnecessary visits to emergency departments and by providing improved patient management. However, there remains a debate regarding the impact of PCs on patient outcomes at the hospital level.

Objective

To evaluate the impact of PC involvement on length of hospitalization and total hospital charges.

Materials and methods

We conducted a retrospective analysis of inpatient cases treated in Illinois hospitals in 2010. We linked the Illinois Poison Center database with an Illinois hospital billing dataset and controlled for important patient-level and facility-level covariates.

Results

In the multivariable model, length of hospitalization among PC-assisted patients was 0.58 days shorter than that of patients without PC assistance ($p < 0.001$). Hospital charges for PC-assisted patients in the lower quintiles were significantly higher than patients without PC assistance (+\$953; $p < 0.001$), but were substantially lower in the most costly quintile of patients (-\$4852; $p < 0.001$). Balancing the higher charges for treating patients with PC assistance in the lower quintiles with the savings in the highest quintile, among inpatients there is a potential cumulative decrease of \$2,078 in hospital charges per 10 patients.

Discussion

Among the inpatient cases, PC assistance was associated with lower total charges only among the most expensive to treat. However, this outlier group is very important when discussing medical costs. It has been repeatedly shown that the majority of treatment costs are attributable to a small fraction of patients as seen in this study.

Full text available from: <http://dx.doi.org/10.3109/15563650.2014.892125>

A retrospective review of isolated gliptin-exposure cases reported to a state poison control system

Darracq MA, Toy JM, Chen T, Mo C, Cantrell FL. Clin Toxicol 2014; 52: 226-30.

Background

The dipeptidyl peptidase-4 (DPP-4) inhibitors sitagliptin, saxagliptin, and linagliptin are approved by the US Food and Drug Administration in the treatment of type-2 diabetes. Given the limited published information regarding human overdoses to these medications, our goal was to characterize such exposures.

Methods

A state poison system database was retrospectively reviewed for all single-agent exposures to sitagliptin, saxagliptin, and linagliptin from 2006 to 2012. Case notes were reviewed and an observational case series was constructed from the data collected including age, weight, gender, circumstances surrounding exposure, symptoms, and outcome. Patients with co-ingestants, confirmed non-exposure, unknown outcomes, or other coding errors were excluded.

Results

A total of 197 cases were identified: 135 cases were excluded (123 cases were excluded due to co-ingestants and 12 cases were lost to follow-up); 62 were included for review. No patients experienced hypoglycemia. One of 19 exposed pediatric (0–9 years of age) patients experienced symptoms and was safely managed at home after one episode of emesis. No symptom was experienced following unintentional ingestion by three adolescent (10–18 years of age) patients. Forty single-agent adult exposures to gliptins were included. Thirty-seven involved non-self-harm exposures resulting from double or triple doses; all were safely managed at home without reported symptoms. The majority of these ingestions involved sitagliptin. Three self-harm-adult exposures to gliptins were included for review. All the three were evaluated in a healthcare facility. One patient experienced abdominal discomfort after ingesting 700 mg of sitagliptin and was ultimately discharged from the emergency department. The other two patients experienced no reported symptoms.

Conclusion

The majority of gliptin-exposed adult and pediatric/adolescent patients were safely managed at home and when evaluated in a healthcare facility, did not require hospitalization. Intentional self-harm-adult gliptin exposures were managed in a healthcare facility but rarely resulted in hospitalization or serious morbidity at doses up to 18 times the adult therapeutic dose. Additional studies are necessary to determine precise triage guidelines for the management of gliptin overdose.

Full text available from: <http://dx.doi.org/10.3109/15563650.2014.889302>

Clinical effects of exposure to DPP-4 inhibitors as reported to the National Poison Data System

Russell JL, Casavant MJ, Spiller HA, Mercurio-Zappala M. J Med Toxicol 2014; online early: doi: 10.1007/s13181-014-0383-6:

Abstract and full text available from: <http://dx.doi.org/10.1007/s13181-014-0383-6>

In-hospital mortality and long-term survival of patients with acute intoxication admitted to the ICU

Brandenburg R, Brinkman S, de Keizer NF, Meulenbelt J, de Lange DW. Crit Care Med 2014; online early: doi: 10.1097/CCM.0000000000000245:

Abstract and full text available from: <http://dx.doi.org/10.1097/CCM.0000000000000245>

Serotonin syndrome

Buckley NA, Dawson AH, Isbister GK. Br Med J 2014; 348: g1626.

Abstract and full text available from: <http://dx.doi.org/10.1136/bmj.g1626>

Sensitivity and specificity of CT scanning for determining the number of internally concealed packages in "body-packers"

Asha SE, Higham M, Child P. Emerg Med J 2014; online early: doi: 10.1136/emered-2013-203389:

Abstract and full text available from: <http://dx.doi.org/10.1136/emered-2013-203389>

A review of methylene blue treatment for cardiovascular collapse

Lo JCY, Darracq MA, Clark RF. J Emerg Med 2014; online early: doi: 10.1016/j.jemermed.2013.08.102:

Abstract and full text available from: <http://dx.doi.org/10.1016/j.jemermed.2013.08.102>

Asystole immediately following intravenous fat emulsion for overdose

Cole JB, Stellpflug SJ, Engebretsen KM. J Med Toxicol 2014; online early: doi: 10.1007/s13181-014-0382-7:

Abstract and full text available from: <http://dx.doi.org/10.1007/s13181-014-0382-7>

Neonicotinoid insecticide exposures reported to six poison centers in Texas

Forrester MB. Hum Exp Toxicol 2014; online early: doi: 10.1177/0960327114522500:

Abstract and full text available from: <http://dx.doi.org/10.1177/0960327114522500>

Cadmium exposure and cancer mortality in a prospective cohort: the Strong Heart Study

García-Esquinas E, Pollan M, Tellez-Plaza M, Francesconi KA, Goessler W, Guallar E, Umans JG, Yeh J, Best LG, Navas-Acien A. Environ Health Perspect 2014; online early: doi: 10.1289/ehp.1306587:

Abstract and full text available from: <http://dx.doi.org/10.1289/ehp.1306587>

Comparison of sarin and cyclosarin toxicity by subcutaneous, intravenous and inhalation exposure in Gottingen minipigs

Hulet SW, Sommerville DR, Miller DB, Scotto JA, Muse WT, Burnett DC. Inhal Toxicol 2014; 26: 175-84.

Abstract and full text available from: <http://dx.doi.org/10.3109/08958378.2013.872212>

Guidelines for laboratory analyses for poisoned patients in the United Kingdom

Thompson J, Watson I, Thanacoody H, Morley S, Thomas S, Eddleston M, Vale J, Bateman D, Krishna C. Ann Clin Biochem 2014; online early: doi: 10.1177/0004563213519754:

Abstract and full text available from: <http://dx.doi.org/10.1177/0004563213519754>

Clinical outcomes in newer anticonvulsant overdose: a poison center observational study

Wills B, Reynolds P, Chu E, Murphy C, Cumpston K, Stromberg P, Rose R. J Med Toxicol 2014; online early: doi: 10.1007/s13181-014-0384-5:

Abstract and full text available from: <http://dx.doi.org/10.1007/s13181-014-0384-5>

TOXICOLOGY

General

Fowler S, Schnall JG.

TOXNET: information on toxicology and environmental health.
Am J Nurs 2014; 114: 61-3.

Kongsbak K, Hadrup N, Audouze K, Vinggaard AM.

Applicability of computational systems biology in toxicology.
Basic Clin Pharmacol Toxicol 2014; online early:
doi: 10.1111/bcpt.12216:

Omer A, Singh P, Yadav NK, Singh RK.

An overview of data mining algorithms in drug induced toxicity prediction.
Mini Rev Med Chem 2014; online early: PM:24552264:

Stellpflug SJ, Cole JB, Lavonas EJ.

The poison pen: How confident are we about iocane?
J Med Toxicol 2014; online early: doi: 10.1007/s13181-014-0385-4:

Thompson J, Watson I, Thanacoody H, Morley S, Thomas S, Eddleston M, Vale J, Bateman D, Krishna C.

Guidelines for laboratory analyses for poisoned patients in the United Kingdom.
Ann Clin Biochem 2014; online early:
doi: 10.1177/0004563213519754:

Turner PV, Haschek WM, Bolon B, Diegel K, Hayes MA, McEwen B, Sargeant AM, Scudamore CL, Stalker M, von Beust B, Wancket LM.

Commentary: The role of the toxicologic pathologist in academia.
Vet Pathol 2014; online early:
doi: 10.1177/0300985813519652:

Zyoud SH, Al-Jabi SW, Sweileh WM, Awang R.

A bibliometric analysis of research productivity of Malaysian publications in leading toxicology journals during a 10-year period (2003–2012).
Hum Exp Toxicol 2014; online early:
doi: 10.1177/0960327113514101:

Analytical toxicology

Bhattacharyya S, Yan K, Pence L, Simpson PM, Gill P, Letzig LG, Beger RD, Sullivan JE, Kearns GL, Reed MD, Marshall JD, van den Anker JN, James LP.

Targeted liquid chromatography–mass spectrometry analysis of serum acylcarnitines in acetaminophen toxicity in children.

Biomark Med 2014; 8: 147-59.

Dulaurent S, Gaulier JM, Imbert L, Morla A, Lachâtre G.

Simultaneous determination of Δ^9 -tetrahydrocannabinol, cannabidiol, cannabinol and 11-nor- Δ^9 -tetrahydrocannabinol-9-carboxylic acid in hair using liquid chromatography-tandem mass spectrometry.
Forensic Sci Int 2014; 236: 151-6.

Fedorova G, Randak T, Golovko O, Kodes V, Grabicova K, Grabic R.

A passive sampling method for detecting analgesics, psycholeptics, antidepressants and illicit drugs in aquatic environments in the Czech Republic.
Sci Total Environ 2014; online early:
doi: 10.1016/j.scitotenv.2013.12.091:

Guo H, Zhang P, Wang J, Zheng J.

Determination of amitraz and its metabolites in whole blood using solid-phase extraction and liquid chromatography-tandem mass spectrometry.
J Chromatogr B Analyt Technol Biomed Life Sci 2014; 951-952: 89-95.

Helfer AG, Meyer MR, Michely JA, Maurer HH.

Direct analysis of the mushroom poisons alpha- and beta-amanitin in human urine using a novel on-line turbulent flow chromatography mode coupled to liquid chromatography-high resolution-mass spectrometry/mass spectrometry.
J Chromatogr A 2014; 1325: 92-8.

Lee JY, Lee YH.

Development of a new method for the identification of degradation products of V-type nerve agents by liquid chromatography-tandem mass spectrometry.
J Chromatogr Sci 2014; online early:
doi: 10.1093/chromsci/bmt206:

Lee Y-W.

Simultaneous screening of 177 drugs of abuse in urine using ultra-performance liquid chromatography with tandem mass spectrometry in drug-intoxicated patients.
Clin Psychopharmacol Neurosci 2013; 11: 158-64.

Luzardo OP, Ruiz-Suarez N, Valeron PF, Camacho M, Zumbado M, Henriquez-Hernandez LA, Boada LD.

Methodology for the identification of 117 pesticides commonly involved in the poisoning of wildlife using GC-MS-MS and LC-MS-MS.
J Anal Toxicol 2014; online early:
doi: 10.1093/jat/bku009:

Poklis JL, Clay DJ, Poklis A.

High-performance liquid chromatography with tandem mass spectrometry for the determination of nine hallucinogenic 25-NBOMe designer drugs in urine specimens.
J Anal Toxicol 2014; online early:
doi: 10.1093/jat/bku005:

Priez-Barallon C, Carlier J, Boyer B, Benslimam M, Fanton L, Mazoyer C, Gaillard Y.

Quantification of pregabalin using hydrophilic interaction HPLC-high-resolution MS in postmortem human samples: eighteen case reports.
J Anal Toxicol 2014; online early:
doi: 10.1093/jat/bku004:

Taira K, Fujioka K, Aoyama Y.

Qualitative profiling and quantification of neonicotinoid metabolites in human urine by liquid chromatography coupled with mass spectrometry.
PLoS ONE 2013; 8: e80332.

Biomarkers

Abusoglu S, Celik HT, Tutkun E, Yilmaz H, Serdar MA, Bal CD, Yildirimkaya M, Avcikucuk M.

8-hydroxydeoxyguanosine as a useful marker for determining the severity of trichloroethylene exposure.
Arch Environ Occup Health 2014; 69: 180-6.

Berger L, Fendrich M, Jones J, Fuhrmann D, Plate C, Lewis D.

Ethyl glucuronide in hair and fingernails as a long-term alcohol biomarker.
Addiction 2014; 109: 425-31.

Biomarkers

Hulo S, Chérot-Kornobis N, Howsam M, Crucq S, de Broucker V, Sobaszek A, Edme J-L.

Manganese in exhaled breath condensate: a new marker of exposure to welding fumes.

Toxicol Lett 2014; 226: 63-9.

Park BK.

Mechanistic biomarkers of drug-induced liver and kidney injury.

Drug Metab Rev 2014; 45: 13-4.

Senior JR.

New biomarkers for drug-induced liver injury: are they really better? What do they diagnose?

Liver Int 2014; 34: 325-7.

Siddeek B, Inoubli L, Lakhdari N, Rachel PB, Fussell KC, Schneider S, Mauduit C, Benahmed M.

MicroRNAs as potential biomarkers in diseases and toxicology.

Mutat Res 2014; online early:

doi: 10.1016/j.mrgentox.2014.01.010:

Wooten JV, Pittman CT, Blake TA, Thomas JD, Devlin JJ, Higginson RA, Johnson RC.

A case of abrin toxin poisoning, confirmed via quantitation of L-abrine (*N*-methyl-L-tryptophan) biomarker.

J Med Toxicol 2014; online early: doi: 10.1007/s13181-013-0377-9:

Yang X, Weng Z, Mendrick DL, Shi Q.

Circulating extracellular vesicles as a potential source of new biomarkers of drug induced liver injury.

Toxicol Lett 2014; 225: 401-6.

Body packers

Asha SE, Higham M, Child P.

Sensitivity and specificity of CT scanning for determining the number of internally concealed packages in "body-packers".

Emerg Med J 2014; online early: doi: 10.1136/emered-2013-203389:

Pinto A, Reginelli A, Pinto F, Sica G, Scaglione M, Berger FH, Romano L, Brunese L.

Radiological and practical aspects of body packing.

Br J Radiol 2014; online early:

doi: 10.1259/bjr.20130500:

Sanaei-Zadeh H.

Medical image. asymptomatic body packer.

N Z Med J 2014; 127: 90-1.

Carcinogenicity

Bove F, Ruckart P, Maslia M, Larson T.

Evaluation of mortality among marines and navy personnel exposed to contaminated drinking water at USMC base camp Lejeune: a retrospective cohort study.

Environ Health 2014; 13: 10.

da Rocha MS, Arnold LL, de Oliveira MLCS, Catalano SMI, Cardoso APF, Pontes MGN, Ferruccio B, Dodmane PR, Cohen SM, de Camargo JL.

Diuron-induced rat urinary bladder carcinogenesis: mode of action and human relevance evaluations using the International Programme on Chemical Safety framework.

Crit Rev Toxicol 2014; online early:

doi: 10.3109/10408444.2013.877870:

Elliott JA, Miller ER.

Alcohol and cancer: the urgent need for a new message.

Med J Aust 2014; 200: 71-2.

García-Esquinas E, Pollán M, Tellez-Plaza M, Francesconi KA, Goessler W, Guallar E, Umans JG, Yeh J, Best LG, Navas-Acien A.

Cadmium exposure and cancer mortality in a prospective cohort: the Strong Heart Study.

Environ Health Perspect 2014; online early:

doi: 10.1289/ehp.1306587:

Glass DC, Schnatter AR, Tang G, Irons RD, Rushton L.

Risk of myeloproliferative disease and chronic myeloid leukaemia following exposure to low-level benzene in a nested case-control study of petroleum workers.

Occup Environ Med 2014; online early:

doi: 10.1136/oemed-2013-101664:

Irvine G, Blais J, Doyle J, Kimpe L, White P.

Cancer risk to First Nations' people from exposure to polycyclic aromatic hydrocarbons near in-situ bitumen extraction in Cold Lake, Alberta.

Environ Health 2014; 13: 7.

Cardiotoxicity

Anon.

Summaries for patients. Does exposure to low or moderate levels of arsenic increase the risk for cardiovascular disease?

Ann Intern Med 2013; 159: I-20.

Álvarez E, Vieira S, Garcia-Moll X.

Citalopram, escitalopram and prolonged QT: warning or alarm?

Rev Psiquiatr Salud Ment 2014; online early:

doi: 10.1016/j.rpsm.2013.12.005:

Chaousis S, Smout M, Wilson D, Loukas A, Mulvenna J, Seymour J.

Rapid short term and gradual permanent cardiotoxic effects of vertebrate toxins from *Chironex fleckeri* (Australian box jellyfish) venom.

Toxicon 2014; 80: 17-26.

Garg J, Krishnamoorthy P, Palaniswamy C, Khera S, Ahmad H, Jain D, Aronow WS, Frishman WH.

Cardiovascular abnormalities in carbon monoxide poisoning.

Am J Ther 2014; online early:

doi: 10.1097/MJT.000000000000016:

Kaldirim Ü, Erkencigil M, Tuncer SK, Eyi YE, Arziman I.

Electrocardiographic findings of carbon monoxide intoxication; two cases.

Afr J Emerg Med 2013; 3: S17.

Lestuzzi C, Vaccher E, Talamini R, Lleshi A, Meneguzzo N, Viel E, Scalone S, Tartuferi L, Buonadonna A, Ejiofor L, Schmoll H-J.

Effort myocardial ischemia during chemotherapy with 5-fluorouracil: an underestimated risk.

Ann Oncol 2014; online early:

doi: 10.1093/annonc/ndu055:

Negoescu A, Thornback A, Wong E, Ostor AJ.

Long QT and hydroxychloroquine: a poorly recognised problem in rheumatology patients.

Arthritis Rheum 2013; 65: S872.

Cardiotoxicity

Niraj M, Jayaweera JL, Kumara IWGD, Tissera NWAJ.
Acute myocardial infarction following a Russell's viper bite: a case report.
Int Arch Med 2013; 6: 7.

Peoples K, Kobe D, Campana C, Simon EL.
Hyperhomocysteinemia induced myocardial infarction in a young male using anabolic steroids.
Am J Emerg Med 2014; online early: doi: 10.1016/j.ajem.2014.01.041:

Pun VC, Yu IT, Ho K, Qiu H, Sun Z, Tian L.
Differential effects of source-specific particulate matter on emergency hospitalizations for ischemic heart disease in Hong Kong.
Environ Health Perspect 2014; online early: doi: 10.1289/ehp.1307213:

Rodríguez-Castro CE, Alkhateeb H, Elfar A, Saifuddin F, Abbas A, Siddiqui T.
Recurrent myopericarditis as a complication of marijuana use.
Am J Case Rep 2014; 15: 60-2.

Senthilkumaran S, David S, Jena N, Menezes R, Thirumalaikolundusubramanian P.
Acute myocardial infarction and cocaine toxicity: one step closer.
Indian J Crit Care Med 2014; 18: 118.

Dermal toxicity

Anissimov YG.
Mathematical models for skin toxicology.
Expert Opin Drug Metab Toxicol 2014; online early: doi: 10.1517/17425255.2014.882318:

Byrom L, Zappala T, Muir J.
Dermatological reactions to ophthalmic preparations: more than meets the eye.
Australas J Dermatol 2014; online early: doi: 10.1111/ajd.12152:

Gulec AI, Albayrak H, Uslu E, Baskan E, Aliagaoglu C.
Pustular irritant contact dermatitis caused by dexpantenol in a child.
Cutan Ocul Toxicol 2014; online early: doi: 10.3109/15569527.2014.883405:

Russell JL, Wiles DA, Kenney B, Spiller HA.
Significant chemical burns associated with dermal exposure to laundry pod detergent.
J Med Toxicol 2014; online early: doi: 10.1007/s13181-014-0387-2:

Developmental toxicology

Bailey K, Fry RC.
Long-term health consequences of prenatal arsenic exposure: links to the genome and the epigenome.
Rev Environ Health 2014; online early: doi: 10.1515/reveh-2014-0006:

Bellinger DC.
Mercury and pregnancy.
Birth Defects Res A Clin Mol Teratol 2014; 100: 1-3.

Calhoun KC, Padilla-Banks E, Jefferson WN, Liu L, Gerrish KE, Young SL, Wood CE, Hunt PA, VandeVoort CA, Williams CJ.
Bisphenol A exposure alters developmental gene expression in the fetal rhesus macaque uterus.
PLoS ONE 2014; 9: e85894.

Dórea JG, Marques RC, Abreu L.
Milestone achievement and neurodevelopment of rural Amazonian toddlers (12 to 24 months) with different methylmercury and ethylmercury exposure.
J Toxicol Environ Health A 2014; 77: 1-13.

Fleischer NL, Merialdi M, van Donkelaar A, Vadillo-Ortega F, Martin RV, Betran AP, Souza JP, O'Neill MS.
Outdoor air pollution, preterm birth, and low birth weight: analysis of the world health organization global survey on maternal and perinatal health.
Environ Health Perspect 2014; online early: doi: 10.1289/ehp.1306837:

Jones HE, Terplan M, Friedman CJ, Walsh J, Jansson LM.
Commentary on Mactier *et al.* (2014): Methadone-assisted treatment and the complexity of influences on fetal development.
Addiction 2014; 109: 489-90.

Liu L, Xu X, Yekeen TA, Lin K, Li W, Huo X.
Assessment of association between the dopamine D2 receptor (DRD2) polymorphism and neurodevelopment of children exposed to lead.
Environ Sci Pollut Res Int 2014; online early: doi: 10.1007/s11356-014-2565-9:

Pasternak B, Svanström H, Hviid A.
Fetal outcomes associated with metoclopramide use in pregnancy—Reply.
JAMA 2014; 311: 624.

Ritz B, Qiu J, Lee P-C, Lurmann F, Penfold B, Erin R, McConnell R, Arora C, Hobel C, Wilhelm M.
Prenatal air pollution exposure and ultrasound measures of fetal growth in Los Angeles, California.
Environ Res 2014; 130: 7-13.

Vafeiadi M, Agramunt S, Pedersen M, Besselink H, Chatzi L, Fthenou E, Fleming S, Hardie LJ, Wright J, Knudsen LE, Nielsen JKS, Sunyer J, Carreras R, Brunborg G, Gutzkow KB, Nygaard UC, Løvik M, Kyrtopoulos SA, Segerbäck D, Merlo DF, Kleinjans JC, Vrijheid M, Kogevinas M, The NewGeneris Consortium.
In utero exposure to compounds with dioxin-like activity and birth outcomes.
Epidemiology 2014; 25: 215-24.

Vrachnis N, Zygouris D, Iliodromiti Z.
Fetal outcomes associated with metoclopramide use in pregnancy.
JAMA 2014; 311: 623-4.

Yang W, Carmichael SL, Roberts EM, Kegley SE, Padula AM, English PB, Shaw GM.
Residential agricultural pesticide exposures and risk of neural tube defects and orofacial clefts among offspring in the San Joaquin Valley of California.
Am J Epidemiol 2014; 179: 740-8.

Driving under the influence of alcohol and other drugs

Elian AA, Hackett J.
A polydrug intoxication involving methoxetamine in a drugs and driving case.
J Forensic Sci 2014; online early: doi: 10.1111/1556-4029.12407:

Soyka M.
Opioids and Traffic Safety – Focus on Buprenorphine.
Pharmacopsychiatry 2014; 47: 7-17.

Driving under the influence of alcohol and other drugs

Zamengo L, Frison G, Tedeschi G, Frasson S, Zancanaro F, Sciarrone R.

Variability of blood alcohol content (BAC) determinations: the role of measurement uncertainty, significant figures, and decision rules for compliance assessment in the frame of a multiple BAC threshold law.

Drug Test Anal 2014; online early:
doi: 10.1002/dta.1614:

Epidemiology

Al-Arifi M, Abu-Hashem H, Al-Meziny M, Said R, Aljadhey H. Emergency department visits and admissions due to drug related problems at Riyadh military hospital (RMH), Saudi Arabia.

Saudi Pharm J 2014; 22: 17-25.

Brandenburg R, Brinkman S, de Keizer NF, Meulenbelt J, de Lange DW.

In-hospital mortality and long-term survival of patients with acute intoxication admitted to the ICU.

Crit Care Med 2014; online early:
doi: 10.1097/CCM.0000000000000245:

Cantrell L, Lucas J.

Suicide by non-pharmaceutical poisons in San Diego County.

Clin Toxicol 2014; 52: 171-5.

Çolak S, Erdogan MÖ, Baydin A, Afacan MA, Kati C, Duran L. Epidemiology of organophosphate intoxication and predictors of intermediate syndrome.

Turk J Med Sci 2014; 44: 279-82.

Degenhardt L, Baxter AJ, Lee YY, Hall W, Sara GE, Johns N, Flaxman A, Whiteford HA, Vos T.

The global epidemiology and burden of psychostimulant dependence: findings from the global burden of disease study 2010.

Drug Alcohol Depend 2014; online early:
doi: 10.1016/j.drugalcdep.2013.12.025:

Gregoriano C, Ceschi A, Rauber-Lüthy C, Kupferschmidt H, Banner NR, Krähenbühl S, Taegtmeyer AB.

Acute thiopurine overdose: analysis of reports to a national poison centre 1995–2013.

PLoS ONE 2014; 9: e86390.

Horvath M, Dunay G, Csonka R, Keller E.

Deadly heroin or the death of heroin - Overdoses caused by illicit drugs of abuse in Budapest, Hungary between 1994 and 2012.

Neuropsychopharmacol Hung 2013; 15: 253-9.

Islam S, Sharif AR, Sazzad HM, Khan AKD, Hasan SMM, Akter S, Harun GD, Luby SP, Heffelfinger J, Rahman M, Gurley ES.

Outbreak of sudden deaths among children living near lychee orchards in northern Bangladesh.

Am J Trop Med Hyg 2013; 89: 285-6.

Kalin JR.

Incidence of fetal drug exposure in Alabama: 2004–2011.

J Forensic Sci 2014; online early:
doi: 10.1111/1556-4029.12442:

Lee C-Y, Chang EK, Lin J-L, Weng C-H, Lee S-Y, Juan K-C, Yang H-Y, Lin C, Lee S-H, Wang I-K, Yen T-H.

Risk factors for mortality in Asian Taiwanese patients with methanol poisoning.

Ther Clin Risk Manag 2014; 10: 61-7.

Mijatovic V, Samojlik I, Ajdukovic N, Durendic-Brenesel M, Petkovic S.

Methadone-related deaths – Epidemiological, pathohistological, and toxicological traits in 10-year retrospective study in Vojvodina, Serbia.

J Forensic Sci 2014; online early:
doi: 10.1111/1556-4029.12425:

Ossiander EM.

Using textual cause-of-death data to study drug poisoning deaths.

Am J Epidemiol 2014; online early: doi: 10.1093/aje/kwt333:

Padmanabha TS, Gumma K, Kulkarni GP.

Study of profile of organophosphorus poisoning cases in a tertiary care hospital, North Karnataka, Bidar, India.

Int J Pharma Bio Sci 2014; 5: 332-9.

Paksu S, Duran L, Altuntas M, Zengin H, Salis O, Ozsevik SN, Albayrak H, Murat N, Guzel A, Paksu MS.

Amitriptyline overdose in emergency department of university hospital: evaluation of 250 patients.

Hum Exp Toxicol 2014; online early:
doi: 10.1177/0960327113520019:

Rashidi M, Ramesht MH, Zohary M, Poursafa P, Kelishadi R, Rashidi Z, Rouzbahani R.

Relation of air pollution with epidemiology of respiratory diseases in Isfahan, Iran from 2005 to 2009.

J Res Med Sci 2013; 18: 1074-9.

Forensic toxicology

Arndt T, Schröfel S, Güssregen B, Stemmerich K.

Inhalation but not transdermal resorption of hand sanitizer ethanol causes positive ethyl glucuronide findings in urine.

Forensic Sci Int 2014; online early:
doi: 10.1016/j.forsciint.2014.02.007:

Banerjee P, Ali Z, Levine B, Fowler DR.

Fatal caffeine intoxication: a series of eight cases from 1999 to 2009.

J Forensic Sci 2014; online early:
doi: 10.1111/1556-4029.12387:

Cantrell FL, Ogera P, Mallett P, McIntyre IM.

Fatal oral methylphenidate intoxication with postmortem concentrations.

J Forensic Sci 2014; online early:
doi: 10.1111/1556-4029.12389:

Carlier J, Escard E, Péoc'h M, Boyer B, Romeuf L, Faict T, Guittion J, Gaillard Y.

Atropine eye drops: an unusual homicidal poisoning.

J Forensic Sci 2014; online early:
doi: 10.1111/1556-4029.12412:

Darke S, Torok M, Duflou J.

Sudden or unnatural deaths involving anabolic-androgenic steroids.

J Forensic Sci 2014; online early:
doi: 10.1111/1556-4029.12424:

Delaveris GJ, Teige B, Rogde S.

Non-natural manners of death among users of illicit drugs: substance findings a ten year study from south-east Norway.

Forensic Sci Int 2014; online early:
doi: 10.1016/j.forsciint.2014.02.009:

Forensic toxicology

Dulaurent S, Gaulier JM, Imbert L, Morla A, Lachâtre G. Simultaneous determination of Δ^9 -tetrahydrocannabinol, cannabidiol, cannabinol and 11-nor- Δ^9 -tetrahydrocannabinol-9-carboxylic acid in hair using liquid chromatography-tandem mass spectrometry. *Forensic Sci Int* 2014; 236: 151-6.

Elia AA, Hackett J. A polydrug intoxication involving methoxetamine in a drugs and driving case. *J Forensic Sci* 2014; online early: doi: 10.1111/1556-4029.12407:

Hartung B, Kaufenstein S, Ritz-Timme S, Daldrup T. Sudden unexpected death under acute influence of cannabis. *Forensic Sci Int* 2014; online early: doi: 10.1016/j.forsciint.2014.02.001:

Holden B, Guice EA. An investigation of normal urine with a creatinine concentration under the cutoff of 20 mg/dL for specimen validity testing in a toxicology laboratory. *J Forensic Sci* 2014; online early: doi: 10.1111/1556-4029.12386:

Jones P, Mutsvunguma R, Prahlow JA. Accidental death via intravaginal absorption of methamphetamine. *Forensic Sci Med Pathol* 2014; online early: doi: 10.1007/s12024-014-9538-7:

Le Blanc-Louvry I, Clarot F, Vaz E, Goullé JP, Proust B. Disopyramide and mianserin intoxication: a unique fatal case – Review of the literature. *J Forensic Sci* 2014; online early: doi: 10.1111/1556-4029.12392:

Musshoff F, Hokamp EG, Bott U, Madea B. Performance evaluation of on-site oral fluid drug screening devices in normal police procedure in Germany. *Forensic Sci Int* 2014; online early: doi: 10.1016/j.forsciint.2014.02.005:

Ruas F, Mendonça MC, Real FC, Vieira DN, Teixeira HM. Carbon monoxide poisoning as a cause of death and differential diagnosis in the forensic practice: a retrospective study, 2000 to 2010. *J Forensic Legal Med* 2014; online early: doi: 10.1016/j.jflm.2014.02.002:

Vardakou I, Athanaselis S, Pistos C, Papadodima S, Spiliopoulou C, Moraitis K. The clavicle bone as an alternative matrix in forensic toxicological analysis. *J Forensic Leg Med* 2014; 22: 7-9.

Hepatotoxicity

Coskun Y, Teber MA, Bayrak A, Erarslan E, Yüksel I. Ornidazole induced acute hepatotoxicity in an elderly patient. *Eur Geriatr Med* 2013; 4: 353.

Hu Z, Lausted C, Yoo H, Yan X, Brightman A, Chen J, Wang W, Bu X, Hood L. Quantitative liver-specific protein fingerprint in blood: a signature for hepatotoxicity. *Theranostics* 2014; 4: 215-28.

Senior JR. New biomarkers for drug-induced liver injury: are they really better? What do they diagnose? *Liver Int* 2014; 34: 325-7.

Shaker ME. Nilotinib interferes with the signalling pathways implicated in acetaminophen hepatotoxicity. *Basic Clin Pharmacol Toxicol* 2014; 114: 263-70.

Valentino PL, Church PC, Shah PS, Beyene J, Griffiths AM, Feldman BM, Kamath BM. Hepatotoxicity caused by methotrexate therapy in children with inflammatory bowel disease: a systematic review and meta-analysis. *Inflamm Bowel Dis* 2014; 20: 47-59.

Wang M-T, Lee W-J, Huang T-Y, Chu C-L, Hsieh C-H. Antithyroid drug-related hepatotoxicity in hyperthyroidism patients: a population-based cohort study. *Br J Clin Pharmacol* 2014; online early: doi: 10.1111/bcp.12336:

Yang X, Weng Z, Mendrick DL, Shi Q. Circulating extracellular vesicles as a potential source of new biomarkers of drug induced liver injury. *Toxicol Lett* 2014; 225: 401-6.

Inhalation toxicity

Arndt T, Schröfel S, Güssregen B, Stemmerich K. Inhalation but not transdermal resorption of hand sanitizer ethanol causes positive ethyl glucuronide findings in urine. *Forensic Sci Int* 2014; online early: doi: 10.1016/j.forsciint.2014.02.007:

Berndtson AE, Fagin A, Sen S, Greenhalgh DG, Palmieri TL. White phosphorus burns and arsenic inhalation: a toxic combination. *J Burn Care Res* 2014; 35: doi: 10.1097/BCR.0b013e31828c73dd.

de Jong K, Marika Boezen H, Kromhout H, Vermeulen R, Vonk JM, Postma DS. Occupational exposure to vapors, gases, dusts, and fumes is associated with small airways obstruction. *Am J Respir Crit Care Med* 2014; 189: 487-90.

Dumas-Campagna J, Tardif R, Charest-Tardif G, Haddad S. Ethanol toxicokinetics resulting from inhalation exposure in human volunteers and toxicokinetic modeling. *Inhal Toxicol* 2014; 26: 59-69.

Hulet SW, Sommerville DR, Miller DB, Scotto JA, Muse WT, Burnett DC. Comparison of sarin and cyclosarin toxicity by subcutaneous, intravenous and inhalation exposure in Gottingen minipigs. *Inhal Toxicol* 2014; 26: 175-84.

Maxim LD, Niebo R, Utell MJ, McConnell EE, LaRosa S, Segrave AM. Wollastonite toxicity: an update. *Inhal Toxicol* 2014; 26: 95-112.

Kinetics

Boak LM, Rayner CR, Grayson ML, Paterson DL, Spelman D, Khumra S, Capitano B, Forrest A, Li J, Nation RL, Bulitta JB. Clinical population pharmacokinetics and toxicodynamics of linezolid. *Antimicrob Agents Chemother* 2014; online early: doi: 10.1128/AAC.01885-13:

Kinetics

Dumas-Campagna J, Tardif R, Charest-Tardif G, Haddad S. Ethanol toxicokinetics resulting from inhalation exposure in human volunteers and toxicokinetic modeling. *Inhal Toxicol* 2014; 26: 59-69.

Linares OA, Daly D, Linares AD, Stefanovski D, Boston RC. Personalized oxycodone dosing: using pharmacogenetic testing and clinical pharmacokinetics to reduce toxicity risk and increase effectiveness. *Pain Med* 2014; online early: doi: 10.1111/pme.12380:

Medication errors

Anon.

Insulin use: preventable errors. *Prescrire Int* 2014; 23: 14-7.

Musshoff F, Madea B, Woelfle J, Vlanic D. Xylometazoline poisoning: a 40-fold nasal overdose caused by a compounding error in 3 children. *Forensic Sci Int* 2014; online early: doi: 10.1016/j.forsciint.2014.02.011:

Nephrotoxicity

Alhamad T, Blandon J, Meza AT, Bilbao JE, Hernandez GT. Acute kidney injury with oxalate deposition in a patient with a high anion gap metabolic acidosis and a normal osmolal gap. *J Nephropathol* 2013; 2: 139-43.

Berthelot E, Lavenu-Bombled C, Orostegui-Giron L, Desconclois C, Assayag P. Impaired renal function and bleeding in elderly treated with dabigatran. *Blood Coagul Fibrinolysis* 2014; online early: doi: 10.1097/MBC.000000000000077:

Dargan PI, Tang HC, Liang W, Wood DM, Yew DT. Three months of methoxetamine administration is associated with significant bladder and renal toxicity in mice. *Clin Toxicol* 2014; 52: 176-180.

Díaz HÁ, Mariño Callejo AI, García Rodríguez JF, Pazos LR, Gómez Buela I, Bermejo Barrera AM. ANCA-positive vasculitis induced by levamisole-adulterated cocaine and nephrotic syndrome: the kidney as an unusual target. *Am J Case Rep* 2013; 14: 557-61.

Lameire N. Nephrotoxicity of recent anti-cancer agents. *Clin Kidney J* 2014; 7: 11-22.

Neurotoxicity

Anon.

Mefloquine: risk of CNS toxicity. *Drug Ther Bull* 2014; 52: 2-3.

Adrish M, Duncalf R, Diaz-Fuentes G, Venkatram S. Opioid overdose with gluteal compartment syndrome and acute peripheral neuropathy. *Am J Case Rep* 2014; 15: 22-6.

Alburges ME, Hoonakker AJ, Cordova NM, Robson CM, McFadden LM, Martin AL, Hanson GR. Responses of the rat basal ganglia neurotensin systems to low doses of methamphetamine. *Psychopharmacology* 2014; online early: doi: 10.1007/s00213-014-3468-7:

Alé A, Bruna J, Navarro X, Udina E. Neurotoxicity induced by antineoplastic proteasome inhibitors. *Neurotoxicology* 2014; online early: doi: 10.1016/j.neuro.2014.02.001:

Baltazar MT, Dinis-Oliveira RJ, de Lourdes Bastos M, Tsatsakis AM, Duarte JA, Carvalho F. Pesticides exposure as etiological factors of Parkinson's disease and other neurodegenerative diseases — A mechanistic approach. *Toxicol Lett* 2014; online early: doi: 10.1016/j.toxlet.2014.01.039:

Carocci A, Rovito N, Sinicropi MS, Genchi G. Mercury toxicity and neurodegenerative effects. *Rev Environ Contam Toxicol* 2014; 229: 1-18.

Chandravanshi LP, Yadav RS, Shukla RK, Singh A, Sultana S, Pant AB, Parmar D, Khanna VK. Reversibility of changes in brain cholinergic receptors and acetylcholinesterase activity in rats following early life arsenic exposure. *Int J Dev Neurosci* 2014; online early: doi: 10.1016/j.ijdevneu.2014.01.007:

Colvard MD, Gentry JD, Mullis DM. Neurotoxicity with combined use of lithium and haloperidol decanoate. *Prim Care Companion J Clin Psychiatry* 2013; 15: doi: 10.4088/PCC.13010563.

Çolak S, Erdogan MÖ, Baydin A, Afacan MA, Kati C, Duran L. Epidemiology of organophosphate intoxication and predictors of intermediate syndrome. *Turk J Med Sci* 2014; 44: 279-82.

de Carvalho ND, Garcia RC, Kleber FA, Rodrigo BD, Carlos CA, Maria D, Lebrun I, Mendes CS, Castro AS, Marcourakis T, Sandoval MR. Neurotoxicity of coral snake phospholipases A2 in cultured rat hippocampal neurons. *Brain Res* 2014; 1552: 1-16.

Fitzmaurice AG, Rhodes SL, Cockburn M, Ritz B, Bronstein JM. Aldehyde dehydrogenase variation enhances effect of pesticides associated with Parkinson disease. *Neurology* 2014; 82: 419-26.

Güvenç D, Aksoy A, Das YK, Atmaca E, Yavuz O. 3-nitrotyrosine levels in dichlorvos-induced neurotoxicity. *Arh Hig Rada Toksikol* 2014; 19-22.

Himes SK, LaGasse LL, Derauf C, Newman E, Smith LM, Arria AM, Della Grotta SA, Dansereau LM, Abar B, Neal CR, Lester BM, Huestis MA. Risk of neurobehavioral disinhibition in prenatal methamphetamine-exposed young children with positive hair toxicology results. *Ther Drug Monit* 2014; online early: doi: 10.1097/FTD.000000000000049:

Keralapurath MM, Clark J, Hammond S, Wagner JJ. Cocaine- or stress-induced metaplasticity of LTP in the dorsal and ventral hippocampus. *Hippocampus* 2014; online early: doi: 10.1002/hipo.22250:

Lin EP, Soriano SG, Loepke AW. Anesthetic neurotoxicity. *Anesthesiol Clin* 2014; 32: 133-55.

Neurotoxicity

Mason LH, Harp JP, Han DY.

Pb neurotoxicity: neuropsychological effects of lead toxicity. *BioMed Res Int* 2014; 2014: 840547.

Meijer M, Hamers T, Westerink RHS.

Acute disturbance of calcium homeostasis in pc12 cells as a novel mechanism of action for (sub)micromolar concentrations of organophosphate insecticides.

Neurotoxicology 2014; online early: doi: 10.1016/j.neuro.2014.01.008:

Miodovnik A, Edwards A, Bellinger DC, Hauser R.

Developmental neurotoxicity of *ortho*-phthalate diesters: review of human and experimental evidence.

Neurotoxicology 2014; online early: doi: 10.1016/j.neuro.2014.01.007:

Shetye J, Surkar S, Karnik N, Mehta A.

Delayed onset neuropathy along with recurrent laryngeal nerve palsy due to organophosphate poisoning and the role of physiotherapy rehabilitation.

Indian J Crit Care Med 2014; 18: 102-4.

Occupational toxicology

Abusoglu S, Celik HT, Tutkun E, Yilmaz H, Serdar MA, Bal CD, Yildirimkaya M, Avcikucuk M.

8-hydroxydeoxyguanosine as a useful marker for determining the severity of trichloroethylene exposure.

Arch Environ Occup Health 2014; 69: 180-6.

Alexander BM, Baxter CS.

Plasticizer contamination of firefighter personal protective clothing—A potential factor in increased health risks in firefighters.

J Occup Environ Hyg 2014; online early: doi: 10.1080/15459624.2013.877142:

Bailey H, Lightfoot T, Clavel J, Miligi L, Infante-Rivard C, Glass D, Fritschi L, Dockerty J, Schuz J.

The association between parental occupational pesticide exposure and the risk of childhood leukaemia: analyses of CLIC data.

Eur J Epidemiol 2013; 28: S168-S169.

Brvar M.

Interstitial pneumonitis after acetylene welding – A case report.

Int J Occup Med Environ Health 2014; online early: doi: 10.2478/s13382-014-0224-5:

Butler O, Musgrove D, Stacey P.

Preparation and certification of two new bulk welding fume reference materials for use in laboratories undertaking analysis of occupational hygiene samples.

J Occup Environ Hyg 2014; online early: doi: 10.1080/15459624.2014.889301:

Centeno JA, Rogers DA, van der Voet GB, Fornero E, Zhang L, Mullick FG, Chapman GD, Olabisi AO, Wagner DJ, Stojadinovic A, Potter BK.

Embedded fragments from U.S Military personnel—Chemical analysis and potential health implications.

Int J Environ Res Public Health 2014; 11: 1261-78.

de Jong K, Marike Boezen H, Kromhout H, Vermeulen R, Vonk JM, Postma DS.

Occupational exposure to vapors, gases, dusts, and fumes is associated with small airways obstruction.

Am J Respir Crit Care Med 2014; 189: 487-90.

Ekinci M, Ceylan E, Çagatay HH, Keles S, Altinkaynak H, Kartal B, Koban Y, Hüseyinoglu N.

Occupational exposure to lead decreases macular, choroidal, and retinal nerve fiber layer thickness in industrial battery workers.

Curr Eye Res 2014; online early:

doi: 10.3109/02713683.2013.877934:

Fassa AG, Faria NM, Meucci RD, Fiori NS, Miranda VI, Facchini LA.

Green tobacco sickness among tobacco farmers in southern Brazil.

Am J Ind Med 2014; online early:

doi: 10.1002/ajim.22307:

Gharaibeh MY, Alzoubi KH, Khabour OF, Khader YS, Allah MA, Matarnah SK.

Lead exposure among five distinct occupational groups: a comparative study.

Pak J Pharm Sci 2014; 27: 39-43.

Glass DC, Schnatter AR, Tang G, Irons RD, Rushton L.

Risk of myeloproliferative disease and chronic myeloid leukaemia following exposure to low-level benzene in a nested case-control study of petroleum workers.

Occup Environ Med 2014; online early:

doi: 10.1136/oemed-2013-101664:

Hovland KH, Skogstad M, Bakke B, Skare Ø, Skyberg K.

Longitudinal decline in pulmonary diffusing capacity among nitrate fertilizer workers.

Occup Med (Oxf) 2014; online early:

doi: 10.1093/occmed/kqt174:

Long Z, Li X-R, Xu J, Edden RA, Qin W-P, Long L-L, Murdoch JB, Zheng W, Jiang Y-M, Dydak U.

Thalamic GABA predicts fine motor performance in manganese-exposed smelter workers.

PLoS ONE 2014; 9: e88220.

Lu X, Liang R, Jia Z, Wang H, Pan B, Zhang Q, Niu Q.

Cognitive disorders and tau-protein expression among retired aluminum smelting workers.

J Occup Environ Med 2014; 56: 155-60.

Mazumdar I, Goswami K.

Chronic exposure to lead: a cause of oxidative stress and altered liver function in plastic industry workers in Kolkata, India.

Indian J Clin Biochem 2014; 29: 89-92.

McLaughlin JK, Tarone RE.

Mortality from solid tumors in the updated NCI formaldehyde cohort.

Am J Ind Med 2014; 57: 486-7.

Mehrpour O, Karrari P, Zamani N, Tsatsakis A, Abdollahi M.

Occupational exposure to pesticides and consequences on male semen and fertility: a review.

Toxicol Lett 2014; online early:

doi: 10.1016/j.toxlet.2014.01.029:

Saab L, Gautrin D, Lavoué J, Suarathana E.

Postapprenticeship isocyanate exposure and risk of work-related respiratory symptoms using an asthma-specific job exposure matrix, self-reported and expert-rated exposure estimates.

J Occup Environ Med 2014; 56: 125-7.

Tarlo SM, Lemiere C.

Occupational asthma.

N Engl J Med 2014; 370: 640-9.

Occupational toxicology

Wu C-C, Liu H-M.

Determinants of metals exposure to metalworking fluid among metalworkers in Taiwan.

Arch Environ Occup Health 2014; 69: 131-8.

Ocular toxicity

Modi YS, Qurban Q, Zlotcavitch L, Echeverri RJ, Feuer W, Florez H, Galor A.

Ocular surface symptoms in veterans returning from Operation Iraqi Freedom and Operation Enduring Freedom.

Invest Ophthalmol Vis Sci 2014; 55: 650-3.

Paediatric toxicology

Akbayram S, Aktar F, Akgün C, Çaksen H.

Acute hepatotoxicity due to clonazepam in a girl using oxcarbazepine.

J Acute Dis 2013; 2: 252.

Barraza-Villarreal A, Escamilla-Núñez MC, Schilman A, Hernandez-Cadena L, Li Z, Romanoff L, Sjödin A, Del Rio-Navarro BE, Diaz-Sanchez D, Diaz-Barriga F, Sly P, Romieu I.

Lung function, airway inflammation, and polycyclic aromatic hydrocarbons exposure in Mexican schoolchildren: a pilot study.

J Occup Environ Med 2014; online early:

doi: 10.1097/JOM.0000000000000111:

Bellis JR, Kirkham JJ, Nunn AJ, Pirmohamed M.

Adverse drug reactions and off-label and unlicensed medicines in children: a prospective cohort study of unplanned admissions to a paediatric hospital.

Br J Clin Pharmacol 2014; 77: 545-53.

Bhattacharyya S, Yan K, Pence L, Simpson PM, Gill P, Letzig LG, Beger RD, Sullivan JE, Kearns GL, Reed MD, Marshall JD, van den Anker JN, James LP.

Targeted liquid chromatography-mass spectrometry analysis of serum acylcarnitines in acetaminophen toxicity in children.

Biomark Med 2014; 8: 147-59.

Claus HB, Coull BA, Wright RO.

Chemical mixtures and children's health.

Curr Opin Pediatr 2014; 8: 7-12.

Deschler D, Judge B.

Bet 3: Paediatric deaths associated with over the counter cough and cold medicines.

Emerg Med J 2014; 31: 171-2.

Dórea JG, Marques RC, Abreu L.

Milestone achievement and neurodevelopment of rural Amazonian toddlers (12 to 24 months) with different methylmercury and ethylmercury exposure.

J Toxicol Environ Health A 2014; 77: 1-13.

Fong H, Muller AA.

An unexpected clinical course in a 29-day-old infant with ethanol exposure.

Pediatr Emerg Care 2014; 30: 111-3.

Goya K, Shimada K, Kokubu E, Yoshizawa N, Sugamata A.

A case report of Mamushi bite in the hand.

Wound Repair Regen 2014; 22: A16.

Gulec AI, Albayrak H, Uslu E, Baskan E, Aliagaoglu C.

Pustular irritant contact dermatitis caused by dexpantenol in a child.

Cutan Ocul Toxicol 2014; online early:

doi: 10.3109/15569527.2014.883405:

Henry H, Anthopoulos R, Maxson P.

Traffic-related air pollution and pediatric asthma in Durham County, North Carolina.

Int J Disabil Hum Dev 2013; 12: 467-71.

Himes SK, LaGasse LL, Derauf C, Newman E, Smith LM, Arria AM, Della Grotta SA, Dansereau LM, Abar B, Neal CR, Lester BM, Huestis MA.

Risk of neurobehavioral disinhibition in prenatal methamphetamine-exposed young children with positive hair toxicology results.

Ther Drug Monit 2014; online early:

doi: 10.1097/FTD.0000000000000049:

Islam S, Sharif AR, Sazzad HM, Khan AKD, Hasan SMM, Akter S, Harun GD, Luby SP, Heffelfinger J, Rahman M, Gurley ES.

Outbreak of sudden deaths among children living near lychee orchards in northern Bangladesh.

Am J Trop Med Hyg 2013; 89: 285-6.

Kalin JR.

Incidence of fetal drug exposure in Alabama: 2004–2011.

J Forensic Sci 2014; online early: doi: 10.1111/1556-4029.12442:

Kennedy BS, Doniger AS, Painting S, Houston L, Slaunwhite M, Mirabella F, Felsen J, Hunt P, Hyde D, Stich E.

Declines in elevated blood lead levels among children, 1997–2011.

Am J Prev Med 2014; 46: 259-64.

Kumar R, Nagar J, Goel N, Kumar P, Kushwah A, Gaur S.

Indoor air pollution and asthma in children at Delhi, India.

Ann Allergy Asthma Immunol 2013; 111: A37-A38.

Kumar S, Kumar N.

Neem oil poisoning as a cause of toxic encephalopathy in an infant.

Indian J Pediatr 2014; online early: doi: 10.1007/s12098-013-1327-x:

Levin C, Bonstein L, Lauterbach R, Mader R, Rozemman D, Koren A.

Immune-mediated mechanism for thrombocytopenia after *Loxosceles* spider bite.

Pediatr Blood Cancer 2014; online early:

doi: 10.1002/pbc.24959:

Li T, Dai Y-H, Xie X-H, Tan Z-W, Zhang S-M, Zhu Z-H.

Surveillance of childhood blood lead levels in 11 cities of China.

World J Pediatr 2014; 10: 29-37.

Liu L, Xu X, Yekeen TA, Lin K, Li W, Huo X.

Assessment of association between the dopamine D2 receptor (DRD2) polymorphism and neurodevelopment of children exposed to lead.

Environ Sci Pollut Res Int 2014; online early:

doi: 10.1007/s11356-014-2565-9:

Mørck TA, Erdmann SE, Long M, Mathiesen L, Nielsen F, Siersma VD, Bonefeld-Jørgensen EC, Knudsen LE.

PCB concentrations and dioxin-like activity in serum samples from Danish school children and their mothers living in urban and rural areas.

Basic Clin Pharmacol Toxicol 2014; online early:

doi: 10.1111/bcpt.12214:

Paediatric toxicology

Musshoff F, Madea B, Woelfle J, Vlanic D.
Xylometazoline poisoning: a 40-fold nasal overdose caused by a compounding error in 3 children.
Forensic Sci Int 2014; online early: doi: 10.1016/j.forsciint.2014.02.011:

Nordt SP, Rangan C, Hardmaslani M, Clark RF, Wendler C, Valente M.

Pediatric chloral hydrate poisonings and death following outpatient procedural sedation.
J Med Toxicol 2014; online early: doi: 10.1007/s13181-013-0358-z:

Ode A, Rylander L, Lindh CH, Kallen K, Jönsson BAG, Gustafsson P, Olofsson P, Ivarsson SA, Rignell-Hydbom A.
Determinants of maternal and fetal exposure and temporal trends of perfluorinated compounds.
Environ Sci Pollut Res 2013; 20: 7970-8.

Ozer AB, Erhan OL.
Systemic toxicity to local anesthesia in an infant undergoing circumcision.
Agri 2014; 26: 43-6.

Pandi K, Krishnamurthy S, Srinivasaraghavan R, Mahadevan S.

Efficacy of scorpion antivenom plus prazosin versus prazosin alone for *Mesobuthus tamulus* scorpion sting envenomation in children: a randomised controlled trial.
Arch Dis Child 2014; online early: doi: 10.1136/archdischild-2013-305483:

Pifko E, Price A, Sterner S.
Infant botulism and indications for administration of botulism immune globulin.
Pediatr Emerg Care 2014; 30: 120-4.

Ratnapradipa D, Robins AG, Ratnapradipa K.
Preschool children's environmental exposures: a case-control epidemiological study of the presence of asthma-like symptoms.
J Environ Health 2013; 76: 12-7.

Raucci U, Vanacore N, Cecchetti C, Russo MS, Rossi R, Pirozzi N.
Transient cardiac effects in a child with acute cholinergic syndrome due to rivastigmine poisoning.
J Emerg Med 2014; online early: doi: 10.1016/j.jemermed.2013.11.078:

Sanders AP, Miller SK, Nguyen V, Kotch JB, Fry RC.
Toxic metal levels in children residing in a smelting craft village in Vietnam: a pilot biomonitoring study.
BMC Public Health 2014; 14: 114.

Sharma A, Dishant, Gupta V, Kaushik JS, Mittal K.
Aluminum phosphide (celphos) poisoning in children: a 5-year experience in a tertiary care hospital from northern India.
Indian J Crit Care Med 2014; 18: 33-6.

Shenoi AN, Fortenberry JD, Kamat P.
Accidental Intra-arterial Injection of propofol.
Pediatr Emerg Care 2014; 30: 136.

Smollin C, Srisansanee W.
Vitamin D toxicity in an infant: case files of the University of California, San Francisco Medical Toxicology Fellowship.
J Med Toxicol 2014; online early: doi: 10.1007/s13181-013-0365-0:

Souza A, Jr., Santos D, Fonseca S, Medeiros M, Batista L, Turner M, Coelho H.
Toxic excipients in medications for neonates in Brazil.
Eur J Pediatr 2014; online early: doi: 10.1007/s00431-014-2272-z:

Tenenbein M.
Urine drug screens in pediatric psychiatric patients.
Pediatr Emerg Care 2014; 30: 136-7.

Valentino PL, Church PC, Shah PS, Beyene J, Griffiths AM, Feldman BM, Kamath BM.
Hepatotoxicity caused by methotrexate therapy in children with inflammatory bowel disease: a systematic review and meta-analysis.
Inflamm Bowel Dis 2014; 20: 47-59.

Wang GS, Roosevelt G, Le Lait MC, Martinez EM, Bucher-Bartelson B, Bronstein AC, Heard K.
Association of unintentional pediatric exposures with decriminalization of marijuana in the United States.
Ann Emerg Med 2014; online early: doi: 10.1016/j.annemergmed.2014.01.017:

Woo JH, Ryoo E.
Poisoning in Korean children and adolescents.
Pediatr Gastroenterol Hepatol Nutr 2013; 16: 233-9.

Woo TM, Hanley JR.
"How High Do They Look?": identification and treatment of common ingestions in adolescents.
J Pediatr Health Care 2013; 27: 135-44.

Poisons information and poison information centres

Friedman LS, Krajewski A, Vannoy E, Allegretti A, Wahl M.
The association between U.S. Poison Center assistance and length of stay and hospital charges.
Clin Toxicol 2014; 52: 198-206.

Polymorphisms

Yi J-H, Cho Y-J, Kim W-J, Lee MG, Lee JH.
Genetic variations of ABCC2 gene associated with adverse drug reactions to valproic acid in Korean epileptic patients.
Genomics Inform 2013; 11: 254-62.

Psychiatric aspects

Aythya SK, Dannaram S, Moorthy S, Sharma A.
A case of acute psychosis secondary to coricidin overdose.
Prim Care Companion J Clin Psychiatry 2013; 15: doi: 10.4088/PCC.13l01549.

Colangelo LA, He K, Whooley MA, Daviglius ML, Morris S, Liu K.

Selenium exposure and depressive symptoms: The Coronary Artery Risk Development in Young Adults Trace Element Study.
Neurotoxicology 2014; online early: doi: 10.1016/j.neuro.2014.02.003:

Trape S, Charles-Nicolas A, Jehel L, Lacoste J.
Early cannabis use is associated with severity of cocaine-induced psychosis among cocaine smokers in martinique, French west indies.
J Addict Med 2014; 8: 33-9.

Reprotoxicity

Carson CF, Tisserand R, Larkman T.
Lack of evidence that essential oils affect puberty.
Reprod Toxicol 2014; online early: doi: 10.1016/j.reprotox.2013.09.010:

Reprotoxicity

Faber W, Kirkpatrick D, Coder P, Li A, Borghoff S, Banton M. Subchronic, reproductive, and maternal toxicity studies with tertiary butyl acetate (TBAC). *Regul Toxicol Pharmacol* 2014; 68: 332-42.

Iorio R, Castellucci A, Ventriglia G, Teoli F, Cellini V, Macchiarelli G, Cecconi S. Ovarian toxicity: from environmental exposure to chemotherapy. *Curr Pharm Des* 2014; online early: PM:24502597:

Lyngsø J, Ramlau-Hansen CH, Hoyer BB, Støvring H, Bonde JP, Jönsson BAG, Lindh CH, Pedersen HS, Ludwicki JK, Zvezdai V, Toft G. Menstrual cycle characteristics in fertile women from Greenland, Poland and Ukraine exposed to perfluorinated chemicals: a cross-sectional study. *Hum Reprod* 2014; 29: 359-67.

Tiboni GM. Advances in developmental and reproductive toxicology. *Curr Pharm Des* 2014; online early: doi: 10.2174/1381612820666140205151500:

Varnier MW, Silver RM, Rowland Hogue CJ, Willinger M, Parker CB, Thorsten VR, Goldenberg RL, Saade GR, Dudley DJ, Coustan D, Stoll B, Bukowski R, Koch MA, Conway D, Pinar H, Reddy UM. Association between stillbirth and illicit drug use and smoking during pregnancy. *Obstet Gynecol* 2014; 123: 113-25.

Risk assessment

Tuyen LH, Tue NM, Suzuki G, Misaki K, Viet PH, Takahashi S, Tanabe S. Aryl hydrocarbon receptor mediated activities in road dust from a metropolitan area, Hanoi—Vietnam: contribution of polycyclic aromatic hydrocarbons (PAHs) and human risk assessment. *Sci Total Environ* 2014; online early: doi: 10.1016/j.scitotenv.2014.01.086:

Wang D-G, Alaei M, Guo M-X, Pei W, Wu Q. Concentration, distribution, and human health risk assessment of endosulfan from a manufacturing facility in Huai'an, China. *Sci Total Environ* 2014; online early: doi: 10.1016/j.scitotenv.2014.01.050:

Zhang H, Feng X, Chan HM, Larssen T. New insights into traditional health risk assessments of mercury exposure: implications of selenium. *Environ Sci Technol* 2014; 48: 1206-12.

Suicide

Cantrell L, Lucas J. Suicide by non-pharmaceutical poisons in San Diego County. *Clin Toxicol* 2014; 52: 171-5.

Hikiji W, Fukunaga T. Suicide of physicians in the special wards of Tokyo Metropolitan area. *J Forensic Leg Med* 2014; 22: 37-40.

Pawlas N, Miskiewicz L, Motyka S, Nowakowski R, Pajak J, Celinski R, Kłopotowski T. Fatal suicidal poisoning with antituberculosis agents with ST elevation and acute coronary syndrome symptoms—a case report. *Przegl Lek* 2013; 70: 657-60.

Prabhakar M. Supravasol³³ Keshkala poisoning: role of ENT surgeon [sic]. *Indian J Otolaryngol Head Neck Surg* 2014; 66: 281-5.

MANAGEMENT

General

Alizadeh AM, Hassanian-Moghaddam H, Shadnia S, Zamani N, Mehrpour O. SAPS II and APACHE II and prediction of the mortality and later development of complications in poisoned patients admitted to intensive care unit. *Basic Clin Pharmacol Toxicol* 2014; online early: doi: 10.1111/bcpt.12210:

Brandenburg R, Brinkman S, de Keizer NF, Meulenbelt J, de Lange DW. In-hospital mortality and long-term survival of patients with acute intoxication admitted to the ICU. *Crit Care Med* 2014; online early: doi: 10.1097/CCM.0000000000000245:

Chun BJ, Moon JM, Kim SH. Antidote for acetaminophen poisoning: *N*-acetylcysteine. *J Korea Med Ass* 2013; 56: 1067-75.

De Oliveira EC, Fernandes CP, Sanchez EF, Rocha L, Fuly AL. Inhibitory effect of plant *Manilkara subsericea* against biological activities of *Lachesis muta* snake venom. *BioMed Res Int* 2014; 2014: 408068.

Ghose N, Majumdar KK, Ghose AK, Saha CK, Nandy AK, Mazumder DNG. Role of folic acid on symptoms of chronic arsenic toxicity. *Int J Prev Med* 2014; 5: 89-98.

Thompson J, Watson I, Thanacoody H, Morley S, Thomas S, Eddleston M, Vale J, Bateman D, Krishna C. Guidelines for laboratory analyses for poisoned patients in the United Kingdom. *Ann Clin Biochem* 2014; online early: doi: 10.1177/0004563213519754:

Zyoud SE, Al-Jabi SW, Bali YI, Al-Sayed AM, Sweileh WM, Awang R. Availability of treatment resources for the management of acute toxic exposures and poisonings in emergency departments among various types of hospitals in Palestine: a cross-sectional study. *Scand J Trauma Resusc Emerg Med* 2014; 22: 13.

Antidotes

Batmanabane G. Antidotes: where are they when needed? *J Pharmacol Pharmacother* 2014; 5: 1-3.

Kuehn BM. Back from the brink: groups urge wide use of opioid antidote to avert overdoses. *JAMA* 2014; 311: 560-1.

Patel K, Cai S, Singh BR. Current strategies for designing antidotes against botulinum neurotoxins. *Expert Opin Drug Discov* 2014; 9: 319-33.

Wallace H, Davies MW. The lack of antidotes for new oral anticoagulants. *Br Med J* 2014; 348: g1438.

Acetylcysteine

Chun BJ, Moon JM, Kim SH.

Antidote for acetaminophen poisoning: *N*-acetylcysteine.
J Korea Med Ass 2013; 56: 1067-75.

Antivenom

Aguilar I, Sánchez EE, Girón ME, Estrella A, Guerrero B, Rodríguez-Acosta FA.

Coral snake antivenom produced in chickens (*Gallus domesticus*).

Rev Inst Med Trop Sao Paulo 2014; 56: 61-6.

Bolton F, Casewell N, Al-Abdulla I.

Snake antivenom trial.

Vet Rec 2014; 174: 126.

Bush SP, Seifert SA, Oakes J, Smith SD, Phan TH, Pearl SR, Reibling ET.

Continuous IV Crotalidae Polyvalent Immune Fab (Ovine) (FabAV) for selected North American rattlesnake bite patients.
Toxicon 2013; 69: 29-37.

Lim H, Kang HG, Kim KH.

Antivenom for snake bite in Korea.

J Korea Med Ass 2013; 56: 1091-103.

Pandi K, Krishnamurthy S, Srinivasaraghavan R, Mahadevan S.

Efficacy of scorpion antivenom plus prazosin versus prazosin alone for *Mesobuthus tamulus* scorpion sting envenomation in children: a randomised controlled trial.

Arch Dis Child 2014; online early:

doi: 10.1136/archdischild-2013-305483:

Ramos-Cerrillo B, Balde MC, Massougbdji A, Chippaux JP, Stock RP.

Detection and semiquantitation of venom and antivenom in the blood of twenty patients with evident neurotoxic envenomation in Guinea.

Am J Trop Med Hyg 2013; 89: 441.

Chelating agents

Burton BT.

ACMT chelation position adopted by Oregon Medical Board.

J Med Toxicol 2014; online early: doi: 10.1007/s13181-014-0386-3:

Mosayebnia M, Shafiee-Ardestani M, Pasalar P, Mashayekhi M, Amanlou M.

Diethylentriaminepenta acetic acid glucose conjugates as a cell permeable iron chelator.

J Pharmacol Pharmacother 2014; 5: 27-32.

Sheth S.

Iron chelation: an update.

Curr Opin Hematol 2014; online early:

doi: 10.1097/MOH.0000000000000031:

Lipid emulsion therapy

Cole JB, Stellpflug SJ, Engebretsen KM.

Asystole immediately following intravenous fat emulsion for overdose.

J Med Toxicol 2014; online early: doi: 10.1007/s13181-014-0382-7:

Doepker B, Healy W, Cortez E, Adkins EJ.

High-dose insulin and intravenous lipid emulsion therapy for cardiogenic shock induced by intentional calcium-channel blocker and beta-blocker overdose: a case series.

J Emerg Med 2014; online early:

doi: 10.1016/j.jemermed.2013.08.135:

Fettiplace MR, Akpa BS, Ripper R, Zider B, Lang J, Rubinstein I, Weinberg G.

Resuscitation with lipid emulsion: dose-dependent recovery from cardiac pharmacotoxicity requires a cardiostimulant effect.

Anesthesiology 2014; online early:

doi: 10.1097/ALN.0000000000000142:

Grunbaum AM, Gosselin S, Gilfix BM, Blank DW.

Comment on Complications following antidotal use of intravenous lipid emulsion therapy (Levine et al., J Med Toxicol 2013).

J Med Toxicol 2014; online early: doi: 10.1007/s13181-014-0388-1:

Moshiri M, Vahabzadeh M, Etemad L, Hosseinzadeh H.

Failure of intravenous lipid emulsion to reduce diazinon-induced acute toxicity: a pilot study in rats.

Iran J Pharm Res 2013; 12: 897-902.

Tucker GT.

Physiologically based pharmacokinetic-pharmacodynamic modeling to the rescue: understanding how resuscitation from local anesthetic overdose with lipid emulsions works.

Anesthesiology 2014; online early:

doi: 10.1097/ALN.0000000000000143:

Methylthioninium chloride (Methylene blue)

Lee KW, Lee JB.

Antidote for acquired methemoglobinemia: methylene blue.

J Korea Med Ass 2013; 56: 1084-90.

Lo JCY, Darracq MA, Clark RF.

A review of methylene blue treatment for cardiovascular collapse.

J Emerg Med 2014; online early:

doi: 10.1016/j.jemermed.2013.08.102:

Oximes

Korabecnyia J, Soukupb O, Dolezalb R, Spilovskaa K, Nepovimovaa E, Andrsa M, Nguyenc TD, Juna D, Musileka K, Chlupacovac MK, Kuca K.

From pyridinium based to centrally active acetylcholinesterase reactivators.

Mini Rev Med Chem 2014; online early: PM:24552265:

Baclofen

Marsot A, Imbert B, Alvarez J-C, Grassin-Delyle S, Jaquet I, Lançon C, Simon N.

High variability in the exposure of baclofen in alcohol-dependent patients.

Alcohol Clin Exp Res 2014; 38: 316-21.

Disulfiram

Schottenfeld RS, Chawarski MC, Cubells JF, George TP, Lappalainen J, Kosten TR.

Randomized clinical trial of disulfiram for cocaine dependence or abuse during buprenorphine treatment.

Drug Alcohol Depend 2014; 136: 36-42.

Folic acid

Ghose N, Majumdar KK, Ghose AK, Saha CK, Nandy AK, Mazumder DNG.

Role of folic acid on symptoms of chronic arsenic toxicity.

Int J Prev Med 2014; 5: 89-98.

Gabapentin

Howland RH.
Gabapentin for substance use disorders: is it safe and appropriate?
J Psychosoc Nurs Ment Health Serv 2014; 52: 13-6.

Haemoperfusion

Wu W-P, Lai M-N, Lin C-H, Li Y-F, Lin C-Y, Wu M-J.
Addition of immunosuppressive treatment to hemoperfusion is associated with improved survival after paraquat poisoning: a nationwide study.
PLoS ONE 2014; 9: e87568.

Hemodiafiltration

Ziółkowska H, Kisiel A, Leszczynska B, Bilka K, Jankowska K, Kuzma-Mroczkowska E, Stelmaszczyk-Emmel A, Wozniak W, Roszkowska-Blaim M.
Continuous veno-venous hemodiafiltration in methotrexate intoxication.
Med Wieku Rozwoj 2013; 17: 347-54.

Metyrapone

Goeders NE, Guerin GF, Schmoutz CD.
The combination of metyrapone and oxazepam for the treatment of cocaine and other drug addictions.
Adv Pharmacol 2014; 69: 419-79.

Monoclonal antibodies

Peterson EC, Gentry WB, Owens SM.
Customizing monoclonal antibodies for the treatment of methamphetamine abuse: current and future applications.
Adv Pharmacol 2014; 69: 107-27.

Stevens MW, Tawney RL, West CM, Kight AD, Henry RL, Owens SM, Gentry WB.
Preclinical characterization of an anti-methamphetamine monoclonal antibody for human use.
MAbs 2014; 6: 547-55.

Nilotinib

Shaker ME.
Nilotinib interferes with the signalling pathways implicated in acetaminophen hepatotoxicity.
Basic Clin Pharmacol Toxicol 2014; 114: 263-70.

Opioid maintenance therapy

Larance B, Lintzeris N, Ali R, Dietze P, Mattick R, Jenkinson R, White N, Degenhardt L.
The diversion and injection of a buprenorphine-naloxone soluble film formulation.
Drug Alcohol Depend 2014; 136: 21-7.

Naloxone

Bailey AM, Wermeling DP.
Naloxone for opioid overdose prevention: pharmacists' role in community-based practice settings.
Ann Pharmacother 2014; online early: doi: 10.1177/1060028014523730:

Hansen A.
Norway tries naloxone in spray form to prevent deaths from drug overdose.
Br Med J 2014; 348: g1686.

Oxazepam

Goeders NE, Guerin GF, Schmoutz CD.
The combination of metyrapone and oxazepam for the treatment of cocaine and other drug addictions.
Adv Pharmacol 2014; 69: 419-79.

DRUGS

General

Al-Arifi M, Abu-Hashem H, Al-Meziny M, Said R, Aljadhey H.
Emergency department visits and admissions due to drug related problems at Riyadh military hospital (RMH), Saudi Arabia.
Saudi Pharm J 2014; 22: 17-25.

Asha SE, Higham M, Child P.
Sensitivity and specificity of CT scanning for determining the number of internally concealed packages in "body-packers".
Emerg Med J 2014; online early: doi: 10.1136/emmermed-2013-203389:

Bellis JR, Kirkham JJ, Nunn AJ, Pirmohamed M.
Adverse drug reactions and off-label and unlicensed medicines in children: a prospective cohort study of unplanned admissions to a paediatric hospital.
Br J Clin Pharmacol 2014; 77: 545-53.

Fedorova G, Randak T, Golovko O, Kodes V, Grabicova K, Grabic R.
A passive sampling method for detecting analgesics, psycholeptics, antidepressants and illicit drugs in aquatic environments in the Czech Republic.
Sci Total Environ 2014; online early: doi: 10.1016/j.scitotenv.2013.12.091:

Hikiji W, Fukunaga T.
Suicide of physicians in the special wards of Tokyo Metropolitan area.
J Forensic Leg Med 2014; 22: 37-40.

Kalin JR.
Incidence of fetal drug exposure in Alabama: 2004–2011.
J Forensic Sci 2014; online early: doi: 10.1111/1556-4029.12442:

Lee Y-W.
Simultaneous screening of 177 drugs of abuse in urine using ultra-performance liquid chromatography with tandem mass spectrometry in drug-intoxicated patients.
Clin Psychopharmacol Neurosci 2013; 11: 158-64.

Mittal N, Gupta M, Singla M.
Cutaneous adverse drug reactions notified by pharmacovigilance in a tertiary care hospital in north India.
Cutan Ocul Toxicol 2014; online early: doi: 10.3109/15569527.2013.857678:

Musshoff F, Hokamp EG, Bott U, Madea B.
Performance evaluation of on-site oral fluid drug screening devices in normal police procedure in Germany.
Forensic Sci Int 2014; online early: doi: 10.1016/j.forsciint.2014.02.005:

Ossiander EM.
Using textual cause-of-death data to study drug poisoning deaths.
Am J Epidemiol 2014; online early: doi: 10.1093/aje/kwt333:

Park BK.
Mechanistic biomarkers of drug-induced liver and kidney injury.
Drug Metab Rev 2014; 45: 13-4.

Senior JR.
New biomarkers for drug-induced liver injury: are they really better? What do they diagnose?
Liver Int 2014; 34: 325-7.

DRUGS

General

Souza A, Jr., Santos D, Fonseca S, Medeiros M, Batista L, Turner M, Coelho H.

Toxic excipients in medications for neonates in Brazil.

Eur J Pediatr 2014; online early:

doi: 10.1007/s00431-014-2272-z:

Tenenbein M.

Urine drug screens in pediatric psychiatric patients.

Pediatr Emerg Care 2014; 30: 136-7.

Toropov AA, Toropova AP, Raska I, Jr., Leszczynska D, Leszczynski J.

Comprehension of drug toxicity: software and databases.

Comput Biol Med 2014; 45: 20-5.

Yang X, Weng Z, Mendrick DL, Shi Q.

Circulating extracellular vesicles as a potential source of new biomarkers of drug induced liver injury.

Toxicol Lett 2014; 225: 401-6.

Acetaminophen (see paracetamol)

Alpha methyltryptamine

Kamour A, James D, Spears R, Cooper G, Lupton DJ, Eddleston M, Thompson JP, Vale AJ, Thanacoody HKR, Hill SL, Thomas SHL.

Patterns of presentation and clinical toxicity after reported use of alpha methyltryptamine in the United Kingdom. A report from the UK National Poisons Information Service.

Clin Toxicol 2014; 52: 192-7.

Amfetamines and MDMA (ecstasy)

Alburges ME, Hoonakker AJ, Cordova NM, Robson CM, McFadden LM, Martin AL, Hanson GR.

Responses of the rat basal ganglia neurotensin systems to low doses of methamphetamine.

Psychopharmacology 2014; online early:

doi: 10.1007/s00213-014-3468-7:

Himes SK, LaGasse LL, Derauf C, Newman E, Smith LM, Arria AM, Della Grotta SA, Dansereau LM, Abar B, Neal CR, Lester BM, Huestis MA.

Risk of neurobehavioral disinhibition in prenatal methamphetamine-exposed young children with positive hair toxicology results.

Ther Drug Monit 2014; online early:

doi: 10.1097/FTD.0000000000000049:

Jones P, Mutsunguma R, Prahlow JA.

Accidental death via intravaginal absorption of methamphetamine.

Forensic Sci Med Pathol 2014; online early:

doi: 10.1007/s12024-014-9538-7:

Kalayasiri R, Verachai V, Gelernter J, Mutirangura A, Malison RT.

Clinical features of methamphetamine-induced paranoia and preliminary genetic association with *DBH*-1021C→T in a Thai treatment cohort.

Addiction 2014; online early: doi: 10.1111/add.12512:

Peterson EC, Gentry WB, Owens SM.

Customizing monoclonal antibodies for the treatment of methamphetamine abuse: current and future applications.

Adv Pharmacol 2014; 69: 107-27.

Stevens MW, Tawney RL, West CM, Kight AD, Henry RL, Owens SM, Gentry WB.

Preclinical characterization of an anti-methamphetamine monoclonal antibody for human use.

MAbs 2014; 6: 547-55.

Anaesthetics

Bailard NS, Ortiz J, Flores RA.

Additives to local anesthetics for peripheral nerve blocks: evidence, limitations, and recommendations.

Am J Health Syst Pharm 2014; 71: 373-85.

Lin EP, Soriano SG, Loepke AW.

Anesthetic neurotoxicity.

Anesthesiol Clin 2014; 32: 133-55.

Ozer AB, Erhan OL.

Systemic toxicity to local anesthesia in an infant undergoing circumcision.

Agri 2014; 26: 43-6.

Tucker GT.

Physiologically based pharmacokinetic-pharmacodynamic modeling to the rescue: understanding how resuscitation from local anesthetic overdose with lipid emulsions works.

Anesthesiology 2014; online early:

doi: 10.1097/ALN.0000000000000143:

Zhang X, Zhang L, Zhang Y.

Side effects of long-acting local anaesthetics in patients with preexisting cardiovascular condition.

Cell Biochem Biophys 2014; online early:

doi: 10.1007/s12013-014-9851-5:

Sevoflurane

Chelazzi C.

Sevoflurane: going beyond anesthesia, cardiac conditioning and organ toxicity.

Minerva Anesthesiol 2014; online early: PM:24472752:

Antiarrhythmics

Amiodarone

Kim B-B, Kim D-M, Choi D-H, Chung J-W, Koh Y-Y, Chang K-S, Hong S.

Amiodarone toxicity showing high liver density on CT scan with normal liver function and plasma amiodarone levels in a long-term amiodarone user.

Int J Cardiol 2014; 172: 494-5.

Disopyramide

Le Blanc-Louvry I, Clarot F, Vaz E, Goullé JP, Proust B.

Disopyramide and mianserin intoxication: a unique fatal case – Review of the literature.

J Forensic Sci 2014; online early:

doi: 10.1111/1556-4029.12392:

Anticholinergic drugs

Scopolamine

Jalali F, Afshari R, Babaei A.

Smoking crushed hyoscine/scopolamine tablets as drug abuse.

Subst Use Misuse 2014; online early:

doi: 10.3109/10826084.2014.880178:

Anticoagulants

Tanaka H, Tanaka K, Kamiya C, Iwanaga N, Katsuragi S, Yoshimatsu J.

Analysis of anticoagulant therapy by unfractionated heparin during pregnancy after mechanical valve replacement.

Circ J 2014; online early: doi: 10.1253/circj.CJ-13-1178:

Anticoagulants

Wallace H, Davies MW.
The lack of antidotes for new oral anticoagulants.
Br Med J 2014; 348: g1438.

Dabigatran

Berthelot E, Lavenu-Bombled C, Orostegui-Giron L, Desconclois C, Assayag P.
Impaired renal function and bleeding in elderly treated with dabigatran.
Blood Coagul Fibrinolysis 2014; online early:
doi: 10.1097/MBC.0000000000000077:

Faust AC, Peterson EJ.
Management of dabigatran-associated intracerebral and intraventricular hemorrhage: a case report.
J Emerg Med 2014; online early:
doi: 10.1016/j.jemermed.2013.11.097:

Rivaroxaban

Purrucker JC, Capper D, Behrens L, Veltkamp R.
Secondary hematoma expansion in intracerebral hemorrhage during rivaroxaban therapy.
Am J Emerg Med 2014; online early:
doi: 10.1016/j.ajem.2014.01.042:

Warfarin

Larsen TR, Gelaye A, Durando C.
Acute warfarin toxicity: an unanticipated consequence of amoxicillin/clavulanate administration.
Am J Case Rep 2014; 15: 45-8.

Levine M, Pizon AF, Padilla-Jones A, Ruha A-M.
Warfarin overdose: a 25-year experience.
J Med Toxicol 2014; online early: doi: 10.1007/s13181-013-0378-8:

Tabak O, Cenik F, Demircioglu UB, Temel A, Dumanli GY.
Herbal drug related warfarin intoxication.
Afr J Emerg Med 2013; 3: S9-S10.

Anticonvulsants

Loftus H, Wright A.
Potential misuse of pregabalin and gabapentin.
Br Med J 2014; 348: g1290.

Wills B, Reynolds P, Chu E, Murphy C, Cumpston K, Stromberg P, Rose R.
Clinical outcomes in newer anticonvulsant overdose: a poison center observational study.
J Med Toxicol 2014; online early: doi: 10.1007/s13181-014-0384-5:

Pregabalin

Priez-Barallon C, Carlier J, Boyer B, Benslimma M, Fanton L, Mazoyer C, Gaillard Y.
Quantification of pregabalin using hydrophilic interaction HPLC-high-resolution MS in postmortem human samples: eighteen case reports.
J Anal Toxicol 2014; online early:
doi: 10.1093/jat/bku004:

Valproate

Yi J-H, Cho Y-J, Kim W-J, Lee MG, Lee JH.
Genetic variations of ABCC2 gene associated with adverse drug reactions to valproic acid in Korean epileptic patients.
Genomics Inform 2013; 11: 254-62.

Antidepressants

Minguez L, Farcy E, Ballandonne C, Lepaillier A, Serpentine A, Lebel J-M, Bureau R, Halm-Lemeille MP.
Acute toxicity of 8 antidepressants: what are their modes of action?
Chemosphere 2014; online early:
doi: 10.1016/j.chemosphere.2014.01.057:

Spina E, De Leon J.
Clinically relevant interactions between newer antidepressants and second-generation antipsychotics.
Expert Opin Drug Metab Toxicol 2014; online early: doi: 10.1517/17425255.2014.885504:

Mianserin

Le Blanc-Louvry I, Clarot F, Vaz E, Goullé JP, Proust B.
Disopyramide and mianserin intoxication: a unique fatal case – Review of the literature.
J Forensic Sci 2014; online early:
doi: 10.1111/1556-4029.12392:

Antiemetics

Metoclopramide

Pasternak B, Svanström H, Hviid A.
Fetal outcomes associated with metoclopramide use in pregnancy–Reply.
JAMA 2014; 311: 624.

Vrachnis N, Zygouris D, Iliodromiti Z.
Fetal outcomes associated with metoclopramide use in pregnancy.
JAMA 2014; 311: 623-4.

Antifungal drugs

Vadlapatla RK, Patel M, Paturi DK, Pal D, Mitra AK.
Clinically relevant drug-drug interactions between anti-retrovirals and antifungals.
Expert Opin Drug Metab Toxicol 2014; online early: doi: 10.1517/17425255.2014.883379:

Antimalarial drugs

Hydroxychloroquine

Negoescu A, Thornback A, Wong E, Ostor AJ.
Long QT and hydroxychloroquine; a poorly recognised problem in rheumatology patients.
Arthritis Rheum 2013; 65: S872.

Mefloquine

Anon.
Mefloquine: risk of CNS toxicity.
Drug Ther Bull 2014; 52: 2-3.

Pyrimethamine

Assir MZK, Ahmad HI, Akram J, Yusuf NW, Kamran U.
An outbreak of pyrimethamine toxicity in patients with ischaemic heart disease in Pakistan.
Basic Clin Pharmacol Toxicol 2014; online early:
doi: 10.1111/bcpt.12206:

Gasior Kabat M, Ahmad S, Assir M, Ahmad H, Akram J, Wechalekar A, Hughes D, McNamara C.
Clinico-pathologic characteristics and outcomes of patients experiencing severe pyrimethamine poisoning.
Leuk Lymphoma 2014; online early:
doi: 10.3109/10428194.2014.887712:

Antineoplastics

Alé A, Bruna J, Navarro X, Udina E.
Neurotoxicity induced by antineoplastic proteasome inhibitors.
Neurotoxicology 2014; online early:
doi: 10.1016/j.neuro.2014.02.001:

Iorio R, Castellucci A, Ventriglia G, Teoli F, Cellini V, Macchiarelli G, Cecconi S.
Ovarian toxicity: from environmental exposure to chemotherapy.
Curr Pharm Des 2014; online early: PM:24502597:

Lameire N.
Nephrotoxicity of recent anti-cancer agents.
Clin Kidney J 2014; 7: 11-22.

Fluorouracil

Korgavkar K, Firoz E, Xiong M, Lew R, Marcolivio K, Burnside N, Dyer R, Weinstock MA.
Measuring the severity of topical 5-fluorouracil toxicity.
J Cutan Med Surg 2014; 18: 1-7.

Lestuzzi C, Vaccher E, Talamini R, Lleshi A, Meneguzzo N, Viel E, Scalone S, Tartuferi L, Buonadonna A, Ejiofor L, Schmoll H-J.
Effort myocardial ischemia during chemotherapy with 5-fluorouracil: an underestimated risk.
Ann Oncol 2014; online early:
doi: 10.1093/annonc/mdu055:

Hydroxyurea

Internullo M, Giannelli V, Sardo L, Antonaglia C, Villani T, Angelici E, Palange P.
Hydroxyurea-induced interstitial pneumonitis: case report and review of the literature.
Eur Rev Med Pharmacol Sci 2014; 18: 190-3.

Methotrexate

Promis AS, Di Fiore-Faye C, Pages A, Farbos F, Vinson C, Perriat S, Grand A, Canonge JM.
Managing carboxypeptidase rescue after methotrexate treatment.
Int J Clin Pharm 2013; 35: 1304.

Schmajuk G, Miao Y, Yazdany J, Boscardin WJ, Daikh DI, Steinman MA.
Identification of risk factors for elevated transaminases in methotrexate users through an electronic health record.
Arthritis Care Res (Hoboken) 2014; online early: doi: 10.1002/acr.22294:

Valentino PL, Church PC, Shah PS, Beyene J, Griffiths AM, Feldman BM, Kamath BM.
Hepatotoxicity caused by methotrexate therapy in children with inflammatory bowel disease: a systematic review and meta-analysis.
Inflamm Bowel Dis 2014; 20: 47-59.

Ziółkowska H, Kisiel A, Leszczynska B, Bilka K, Jankowska K, Kuzma-Mroczkowska E, Stelmaszczyk-Emmel A, Wozniak W, Roszkowska-Blaim M.
Continuous veno-venous hemodiafiltration in methotrexate intoxication.
Med Wieku Rozwoj 2013; 17: 347-54.

Antipsychotics

Spina E, De Leon J.
Clinically relevant interactions between newer antidepressants and second-generation antipsychotics.
Expert Opin Drug Metab Toxicol 2014; online early: doi: 10.1517/17425255.2014.885504:

Haloperidol

Colvard MD, Gentry JD, Mullis DM.
Neurotoxicity with combined use of lithium and haloperidol decanoate.
Prim Care Companion J Clin Psychiatry 2013; 15:
doi: 10.4088/PCC.13l01563.

Paliperidone

Tsay ME, Klein-Schwartz W, Anderson B.
Toxicity and clinical outcomes of paliperidone exposures reported to U.S. Poison Centers.
Clin Toxicol 2014; 52: 207-13.

Risperidone

Hitosugi M, Tsukada C, Yamauchi S, Nagai T.
A case of fatal risperidone poisoning alerts physicians.
J Clin Psychopharmacol 2014; 34: 268-9.

Antithyroid drugs

Wang M-T, Lee W-J, Huang T-Y, Chu C-L, Hsieh C-H.
Antithyroid drug-related hepatotoxicity in hyperthyroidism patients: a population-based cohort study.
Br J Clin Pharmacol 2014; online early:
doi: 10.1111/bcp.12336:

Antituberculous drugs

Pawlas N, Miskiewicz L, Motyka S, Nowakowski R, Pajak J, Celinski R, Klopotoski T.
Fatal suicidal poisoning with antituberculosis agents with ST elevation and acute coronary syndrome symptoms—A case report.
Przegl Lek 2013; 70: 657-60.

Isoniazid

Sylvestre L, Gairard-Dory AC, Molard A, Khayath N, Leveque D, Gourieux B.
Isoniazid toxicity with therapeutic dose in a patient with pulmonary tuberculosis: a case report.
Int J Clin Pharm 2013; 35: 1260.

Tsubouchi K, Ikematsu Y, Hashisako M, Harada E, Miyagi H, Fujisawa N.
Convulsive seizures with a therapeutic dose of isoniazid.
Intern Med 2014; 53: 239-42.

Antitussives

Deschler D, Judge B.
Bet 3: Paediatric deaths associated with over the counter cough and cold medicines.
Emerg Med J 2014; 31: 171-2.

Dextromethorphan

Aytha SK, Dannaram S, Moorthy S, Sharma A.
A case of acute psychosis secondary to coricidin overdose.
Prim Care Companion J Clin Psychiatry 2013; 15: doi: 10.4088/PCC.13l01549.

Chary M, Park EH, McKenzie A, Sun J, Manini AF, Genes N.
Signs & symptoms of dextromethorphan exposure from YouTube.
PLoS ONE 2014; 9: e82452.

Antiviral drugs

Vadlapatla RK, Patel M, Paturi DK, Pal D, Mitra AK. Clinically relevant drug-drug interactions between antiretrovirals and antifungals. *Expert Opin Drug Metab Toxicol* 2014; online early: doi: 10.1517/17425255.2014.883379:

Kaletra

Cresswell F, Tomlins J, Churchill D, Walker-Bone K, Richardson D. Achilles tendinopathy following Kaletra (lopinavir/ritonavir) use. *Int J STD AIDS* 2014; online early: doi: 10.1177/0956462414523403:

Aristolochic acid

Cai ZW, Chan AY, Zhao ZZ. Rapid and specific determination of DNA adducts for clinical diagnosis of poisoning and disease associated with aristolochic acid. *Hong Kong Med J* 2013; 19 Suppl 9: 40-3.

Atropine

Carlier J, Escard E, Péoc'h M, Boyer B, Romeuf L, Faict T, Guittou J, Gaillard Y. Atropine eye drops: an unusual homicidal poisoning. *J Forensic Sci* 2014; online early: doi: 10.1111/1556-4029.12412:

Baclofen

Stroud J, Scattoloni J, Blasingim M, Nafiu OO. Intrathecal baclofen toxicity: an unusual cause of paediatric postoperative coma and respiratory depression. *Eur J Anaesthesiol* 2014; online early: doi: 10.1097/EJA.000000000000055:

Barbiturates

Phenobarbital

Pancar YE, Sen S, Aydin F, Senturk N, Sen N, Cengiz N, Onar MK. Phenobarbital-induced pellagra resulted in death. *Cutan Ocul Toxicol* 2014; 33: 76-8.

Benzodiazepines

Rigg KK, Ford JA. The misuse of benzodiazepines among adolescents: psychosocial risk factors in a national sample. *Drug Alcohol Depend* 2014; online early: doi: 10.1016/j.drugalcdep.2014.01.026:

Alprazolam

Darke S, Torok M, Duflou J. Circumstances and toxicology of sudden or unnatural deaths involving alprazolam. *Drug Alcohol Depend* 2014; online early: doi: 10.1016/j.drugalcdep.2014.01.023:

Clonazepam

Akbayram S, Aktar F, Akgün C, Çaksen H. Acute hepatotoxicity due to clonazepam in a girl using oxcarbazepine. *J Acute Dis* 2013; 2: 252.

Caffeine

Banerjee P, Ali Z, Levine B, Fowler DR. Fatal caffeine intoxication: a series of eight cases from 1999 to 2009. *J Forensic Sci* 2014; online early: doi: 10.1111/1556-4029.12387:

Peacock A, Bruno R, Martin FH, Carr A. Self-reported physiological and psychological side-effects of an acute alcohol and energy drink dose. *Appetite* 2014; 76: 60-5.

Calcium channel blockers

Doecker B, Healy W, Cortez E, Adkins EJ. High-dose insulin and intravenous lipid emulsion therapy for cardiogenic shock induced by intentional calcium-channel blocker and beta-blocker overdose: a case series. *J Emerg Med* 2014; online early: doi: 10.1016/j.jemermed.2013.08.135:

Amlodipine

Upreti V, Ratheesh VR, Dhull P, Handa A. Shock due to amlodipine overdose. *Indian J Crit Care Med* 2013; 17: 375-7.

Calcium dobesilate

Huang Q, Yang J, Cao J, Zhou X. A case of calcium dobesilate-induced toxic epidermal necrolysis. *Journal of Clinical Dermatology* 2013; 42: 666-7.

Cannabis (marijuana)

Copeland J, Clement N, Swift W. Cannabis use, harms and the management of cannabis use disorder. *Neuropsychiatry* 2014; 4: 55-63.

Dulaurent S, Gaulier JM, Imbert L, Morla A, Lachâtre G. Simultaneous determination of Δ^9 -tetrahydrocannabinol, cannabidiol, cannabinol and 11-nor- Δ^9 -tetrahydrocannabinol-9-carboxylic acid in hair using liquid chromatography-tandem mass spectrometry. *Forensic Sci Int* 2014; 236: 151-6.

Grassin-Delye S, Naline E, Buenestado A, Faisy C, Alvarez JC, Salvator H, Abrial C, Advenier C, Zemoura L, Devillier P. Cannabinoids inhibit cholinergic contraction in human airways through prejunctional CB receptors. *Br J Pharmacol* 2014; online early: doi: 10.1111/bph.12597:

Hartung B, Kauferstein S, Ritz-Timme S, Daldrup T. Sudden unexpected death under acute influence of cannabis. *Forensic Sci Int* 2014; online early: doi: 10.1016/j.forsciint.2014.02.001:

Rodríguez-Castro CE, Alkhateeb H, Elfar A, Saifuddin F, Abbas A, Siddiqui T. Recurrent myopericarditis as a complication of Marijuana use. *Am J Case Rep* 2014; 15: 60-2.

Trape S, Charles-Nicolas A, Jehel L, Lacoste J. Early cannabis use is associated with severity of cocaine-induced psychosis among cocaine smokers in martinique, French west indies. *J Addict Med* 2014; 8: 33-9.

Wang GS, Roosevelt G, Le Lait MC, Martinez EM, Bucher-Bartelson B, Bronstein AC, Heard K. Association of unintentional pediatric exposures with decriminalization of marijuana in the United States. *Ann Emerg Med* 2014; online early: doi: 10.1016/j.annemergmed.2014.01.017:

Cholinesterase inhibitors

Rivastigmine

Rauci U, Vanacore N, Cecchetti C, Russo MS, Rossi R, Pirozzi N.

Transient cardiac effects in a child with acute cholinergic syndrome due to rivastigmine poisoning.

J Emerg Med 2014; online early:
doi: 10.1016/j.jemermed.2013.11.078:

Cocaine

Ananthan D, Shah S, Haseer K, Patel A, Graziano S.
Levamisole tainted cocaine: an emerging health issue.
QJM 2014; online early: doi: 10.1093/qjmed/hcu028:

Crunelle CL, Kaag AM, van Wingen G, van den Munkhof HE, Homberg JR, Reneman L, Van den Brink W.
Reduced frontal brain volume in non-treatment-seeking cocaine-dependent individuals: exploring the role of impulsivity, depression, and smoking.
Front Hum Neurosci 2014; 8: 7.

Díaz HÁ, Mariño Callejo AI, García Rodríguez JF, Pazos LR, Gómez Buela I, Bermejo Barrera AM.
ANCA-positive vasculitis induced by levamisole-adulterated cocaine and nephrotic syndrome: the kidney as an unusual target.
Am J Case Rep 2013; 14: 557-61.

Goeders NE, Guerin GF, Schmoutz CD.
The combination of metyrapone and oxazepam for the treatment of cocaine and other drug addictions.
Adv Pharmacol 2014; 69: 419-79.

Guollo F, Narciso-Schiavon JL, Barotto AM, Zannin M, Schiavon LL.
Significance of alanine aminotransferase levels in patients admitted for cocaine intoxication.
J Clin Gastroenterol 2014; online early:
doi: 10.1097/MCG.000000000000056:

Keralapurath MM, Clark J, Hammond S, Wagner JJ.
Cocaine- or stress-induced metaplasticity of LTP in the dorsal and ventral hippocampus.
Hippocampus 2014; online early:
doi: 10.1002/hipo.22250:

Parker MA, Anthony JC.
Should anyone be riding to glory on the now-descending limb of the crack-cocaine epidemic curve in the United States?
Drug Alcohol Depend 2014; online early:
doi: 10.1016/j.drugalcdep.2014.02.005:

Schottenfeld RS, Chawarski MC, Cubells JF, George TP, Lappalainen J, Kosten TR.
Randomized clinical trial of disulfiram for cocaine dependence or abuse during buprenorphine treatment.
Drug Alcohol Depend 2014; 136: 36-42.

Senthilkumaran S, David S, Jena N, Menezes R, Thirumalaikolundusubramanian P.
Acute myocardial infarction and cocaine toxicity: one step closer.
Indian J Crit Care Med 2014; 18: 118.

Trape S, Charles-Nicolas A, Jehel L, Lacoste J.
Early cannabis use is associated with severity of cocaine-induced psychosis among cocaine smokers in martinique, French west indies.
J Addict Med 2014; 8: 33-9.

Designer drugs

Benzer TI, Nejad SH, Flood JG.

Case 40-2013: a 36-year-old man with agitation and paranoia.

N Engl J Med 2013; 369: 2536-45.

Giné CV, Espinosa IF, Vilamala MV.
New psychoactive substances as adulterants of controlled drugs. A worrying phenomenon?
Drug Test Anal 2014; online early:
doi: 10.1002/dta.1610:

Glennon RA.
Bath salts, mephedrone, and methylenedioxypyrovalerone as emerging illicit drugs that will need targeted therapeutic intervention.
Adv Pharmacol 2014; 69: 583-620.

Kavanagh PV, Power JD.
New psychoactive substances legislation in Ireland – Perspectives from academia.
Drug Test Anal 2014; online early:
doi: 10.1002/dta.1598:

Khullar V, Jain A, Sattari M.
Emergence of new classes of recreational drugs–Synthetic cannabinoids and cathinones.
J Gen Intern Med 2014; online early:
doi: 10.1007/s11606-014-2802-4:

Lonati D, Buscaglia E, Papa P, Valli A, Coccini T, Giampreti A, Petrolini VM, Vecchio S, Serpelloni G, Locatelli CA.
MAM-2201 (analytically confirmed) intoxication after "synthacaine" consumption.
Ann Emerg Med 2014; online early:
doi: 10.1016/j.annemergmed.2014.01.007:

Newberry J, Wodak A, Sellman D, Robinson G.
New Zealand's regulation of new psychoactive substances.
Br Med J 2014; 348: g1534.

Poklis JL, Clay DJ, Poklis A.
High-performance liquid chromatography with tandem mass spectrometry for the determination of nine hallucinogenic 25-NBOMe designer drugs in urine specimens.
J Anal Toxicol 2014; online early:
doi: 10.1093/jat/bku005:

Pourmand A, Armstrong P, Mazer-Amirshahi M, Shokoohi H.
The evolving high: new designer drugs of abuse.
Hum Exp Toxicol 2014; online early:
doi: 10.1177/0960327113514100:

Rapaka RS, Purohit V, Schnur P, Rutter J.
Emerging trends in the abuse of designer drugs and their catastrophic health effects: update on chemistry, pharmacology, toxicology and addiction potential.
Life Sci 2014; 97: 1.

Gamma hydroxybutyrate

Ingels A-S, Wille SM, Samyn N, Lambert WE, Stove CP.
Screening and confirmation methods for GHB determination in biological fluids.
Anal Bioanal Chem 2014; online early:
doi: 10.1007/s00216-013-7586-6:

Herbal medicines, ethnic remedies and dietary supplements

Cai ZW, Chan AY, Zhao ZZ.

Rapid and specific determination of DNA adducts for clinical diagnosis of poisoning and disease associated with aristolochic acid.

Hong Kong Med J 2013; 19 Suppl 9: 40-3.

Colombo D, Lunardon L, Bellia G.

Cyclosporine and herbal supplement interactions.

J Toxicol 2014; 2014: 145325.

Hiradeve SM, Rangari VD.

A review on pharmacology and toxicology of *Elephantopus scaber* Linn.

Nat Prod Res 2014; online early:

doi: 10.1080/14786419.2014.883394:

Muller H, Regard S, Petriccioli N, Kherad O.

Traditional medicine: a rare cause of lead poisoning in Western countries.

F1000Res 2013; 2: 250.

Tabak O, Cenik F, Demircioglu UB, Temel A, Dumanli GY.

Herbal drug related warfarin intoxication.

Afr J Emerg Med 2013; 3: S9-S10.

Heroin (diacetylmorphine)

Aulet RM, Flis D, Sillman J.

A case of heroin induced sensorineural hearing loss.

Case Rep Otolaryngol 2014; 2014: 962759.

Horvath M, Dunay G, Csonka R, Keller E.

Deadly heroin or the death of heroin - Overdoses caused by illicit drugs of abuse in Budapest, Hungary between 1994 and 2012.

Neuropsychopharmacol Hung 2013; 15: 253-9.

Hypnotics

Chloral hydrate

Nordt SP, Rangan C, Hardmaslani M, Clark RF, Wendler C, Valente M.

Pediatric chloral hydrate poisonings and death following outpatient procedural sedation.

J Med Toxicol 2014; online early: doi: 10.1007/s13181-013-0358-z:

Propofol

Shenoi AN, Fortenberry JD, Kamat P.

Accidental Intra-arterial Injection of propofol.

Pediatr Emerg Care 2014; 30: 136.

Hypoglycaemics

Russell JL, Casavant MJ, Spiller HA, Mercurio-Zappala M.

Clinical effects of exposure to DPP-4 inhibitors as reported to the National Poison Data System.

J Med Toxicol 2014; online early: doi: 10.1007/s13181-014-0383-6:

Gliptin

Darracq MA, Toy JM, Chen T, Mo C, Cantrell FL.

A retrospective review of isolated gliptin-exposure cases reported to a state poison control system.

Clin Toxicol 2014; 52: 226-30.

Metformin

Mumoli L, Gambardella A, Labate A, Succurro E, De Sarro G, Arturi F, Gallelli L.

Rosacea-like facial rash related to metformin administration in a young woman.

BMC Pharmacol Toxicol 2014; 15: 3.

Strugaru AM, Botnariu G, Agoroaei L, Grigoriu IC, Butnaru E.

Metformin induced lactic acidosis-Particularities and course.

Rev Med Chir Soc Med Nat Iasi 2013; 117: 1035-42.

Imidazole decongestants

Musshoff F, Madea B, Woelfle J, Vlanic D.

Xylometazoline poisoning: a 40-fold nasal overdose caused by a compounding error in 3 children.

Forensic Sci Int 2014; online early:

doi: 10.1016/j.forsciint.2014.02.011:

Immunosuppressants

Cyclosporine

Colombo D, Lunardon L, Bellia G.

Cyclosporine and herbal supplement interactions.

J Toxicol 2014; 2014: 145325.

Insulin

Anon.

Insulin use: preventable errors.

Prescrire Int 2014; 23: 14-7.

Levamisole

Ananthan D, Shah S, Haseer K, Patel A, Graziano S.

Levamisole tainted cocaine: an emerging health issue.

QJM 2014; online early: doi: 10.1093/qjmed/hcu028:

Díaz HÁ, Mariño Callejo AI, García Rodríguez JF, Pazos LR, Gómez Buela I, Bermejo Barrera AM.

ANCA-positive vasculitis induced by levamisole-adulterated cocaine and nephrotic syndrome: the kidney as an unusual target.

Am J Case Rep 2013; 14: 557-61.

Liraglutide

Elmehdawi RR, Elbarsha AM.

An accidental liraglutide overdose: case report.

Libyan J Med 2014; 9: 23055.

Lithium

Colvard MD, Gentry JD, Mullis DM.

Neurotoxicity with combined use of lithium and haloperidol decanoate.

Prim Care Companion J Clin Psychiatry 2013; 15:

doi: 10.4088/PCC.13l01563.

Hassan S, Khalid F, Alirhayim Z, Amer S.

Lithium toxicity in the setting of nonsteroidal anti-inflammatory medications.

Case Rep Nephrol 2013; 2013: 839796.

Moss MC, Kozlowski T, Dupuis R, Detwiler R, Lee RM, Deyo JC.

Lithium use for bipolar disorder post renal transplant: is mood stabilization without toxicity possible?

Transplantation 2014; 97: e23-e24.

Methoxetamine

Dargan PI, Tang HC, Liang W, Wood DM, Yew DT.

Three months of methoxetamine administration is associated with significant bladder and renal toxicity in mice.

Clin Toxicol 2014; 52: 176-180.

Methoxetamine

Elia AA, Hackett J.
A polydrug intoxication involving methoxetamine in a drugs and driving case.
J Forensic Sci 2014; online early:
doi: 10.1111/1556-4029.12407:

Methylphenidate

Cantrell FL, Ogera P, Mallett P, McIntyre IM.
Fatal oral methylphenidate intoxication with postmortem concentrations.
J Forensic Sci 2014; online early:
doi: 10.1111/1556-4029.12389:

Monoamine oxidase inhibitors

Linezolid

Boak LM, Rayner CR, Grayson ML, Paterson DL, Spelman D, Khumra S, Capitano B, Forrest A, Li J, Nation RL, Bulitta JB.
Clinical population pharmacokinetics and toxicodynamics of linezolid.
Antimicrob Agents Chemother 2014; online early:
doi: 10.1128/AAC.01885-13:

Holmaas G, Lærum JH, Schjøtt J, Leiva RA.
A man in his seventies with a long-term infection and severe acid-base imbalance.
Tidsskr Nor Lægeforen 2014; 134: 315-9.

Nicotine

Thornton SL, Oller L, Sawyer T.
Fatal intravenous injection of electronic nicotine delivery system refilling solution.
J Med Toxicol 2014; online early:
doi: 10.1007/s13181-014-0380-9:

NSAIDs

Ibuprofen

McAvoy BR, Tobin CL.
Fatal misuse of codeine-ibuprofen analgesics in Victoria, Australia.
Med J Aust 2014; 200: 150-1.

Pilgrim JL, Drummer OH.
Fatal misuse of codeine-ibuprofen analgesics in Victoria, Australia.
Med J Aust 2014; 200: 151.

Opioids

Adrish M, Duncalf R, Diaz-Fuentes G, Venkatram S.
Opioid overdose with gluteal compartment syndrome and acute peripheral neuropathy.
Am J Case Rep 2014; 15: 22-6.

Bailey AM, Wermeling DP.
Naloxone for opioid overdose prevention: pharmacists' role in community-based practice settings.
Ann Pharmacother 2014; online early:
doi: 10.1177/1060028014523730:

Cropsey KL, Martin S, Clark CB, McCullumsmith CB, Lane PS, Hardy S, Hendricks PS, Redmond N.
Characterization of opioid overdose and response in a high-risk community corrections sample: a preliminary study.
J Opioid Manag 2013; 9: 393-400.

Field CA, Cochran G, Caetano R, Foreman M, Brown CV.
Postdischarge nonmedical use of prescription opioids in at-risk drinkers admitted to urban level I trauma centers.
J Trauma Acute Care Surg 2014; 76: 833-9.

Hansen A.
Norway tries naloxone in spray form to prevent deaths from drug overdose.
Br Med J 2014; 348: g1686.

Kuehn BM.
Back from the brink: groups urge wide use of opioid antidote to avert overdoses.
JAMA 2014; 311: 560-1.

Vorce SP, Knittel JL, Holler JM, Magluilo J, Jr., Levine B, Berran P, Bosy TZ.
A fatality involving AH-7921.
J Anal Toxicol 2014; online early: doi: 10.1093/jat/bku011:

Buprenorphine

Soyka M.
Opioids and Traffic Safety – Focus on Buprenorphine.
Pharmacopsychiatry 2014; 47: 7-17.

Codeine

McAvoy BR, Tobin CL.
Fatal misuse of codeine-ibuprofen analgesics in Victoria, Australia.
Med J Aust 2014; 200: 150-1.

Pilgrim JL, Drummer OH.
Fatal misuse of codeine-ibuprofen analgesics in Victoria, Australia.
Med J Aust 2014; 200: 151.

Methadone

Jones HE, Terplan M, Friedman CJ, Walsh J, Jansson LM.
Commentary on Mactier *et al.* (2014): Methadone-assisted treatment and the complexity of influences on fetal development.
Addiction 2014; 109: 489-90.

Mijatovic V, Samojlik I, Ajdukovic N, Durendic-Brenesel M, Petkovic S.
Methadone-related deaths – Epidemiological, pathohistological, and toxicological traits in 10-year retrospective study in Vojvodina, Serbia.
J Forensic Sci 2014; online early:
doi: 10.1111/1556-4029.12425:

Newman RG.
Analyzing methadone-related deaths.
J Addict Med 2014; 8: 73.

Price LC, Wobeter B, Delate T, Kurz D, Shanahan R.
Methadone for pain and the risk of adverse cardiac outcomes.
J Pain Symptom Manage 2014; online early:
doi: 10.1016/j.jpainsymman.2013.09.021:

Oxycodone

Linares OA, Daly D, Linares AD, Stefanovski D, Boston RC.
Personalized oxycodone dosing: using pharmacogenetic testing and clinical pharmacokinetics to reduce toxicity risk and increase effectiveness.
Pain Med 2014; online early: doi: 10.1111/pme.12380:

Pulia MS, Reiff C.
Oxycodone insufflation resulting in nasal septal abscess.
J Emerg Med 2014; online early:
doi: 10.1016/j.jemermed.2013.09.032:

Tramadol

Sanaei-Zadeh H.
Tramadol intoxication and shoulder pain.
Eur Rev Med Pharmacol Sci 2014; 18: 285.

Ornidazole

Coskun Y, Teber MA, Bayrak A, Erarslan E, Yüksel I.
Ornidazole induced acute hepatotoxicity in an elderly patient.
Eur Geriatr Med 2013; 4: 353.

Paracetamol (acetaminophen)

Bhattacharyya S, Yan K, Pence L, Simpson PM, Gill P, Letzig LG, Beger RD, Sullivan JE, Kearns GL, Reed MD, Marshall JD, van den Anker JN, James LP.
Targeted liquid chromatography–mass spectrometry analysis of serum acylcarnitines in acetaminophen toxicity in children.
Biomark Med 2014; 8: 147-59.

Carthy ER, Ellis SD.
Paracetamol poisoning in the UK: a meeting report from Pharmacology 2013.
Expert Rev Clin Pharmacol 2014; 7: 147-9.

Chun BJ, Moon JM, Kim SH.
Antidote for acetaminophen poisoning: *N*-acetylcysteine.
J Korea Med Ass 2013; 56: 1067-75.

Karadas S, Aslan M, Gonullu H, Kati C, Duran L, Olmez S, Kucukoglu ME, Demir H.
Acetaminophen intoxication is associated with decreased serum paraoxonase and arylesterase activities and increased lipid hydroperoxide levels.
Hum Exp Toxicol 2014; online early:
doi: 10.1177/0960327113511477:

Kim E-J, Lim H, Park SY, Kim S, Yoon S-Y, Bae Y-J, Kwon H-S, Cho YS, Moon H-B, Kim T-B.
Rapid onset of Stevens-Johnson syndrome and toxic epidermal necrolysis after ingestion of acetaminophen.
Asia Pac Allergy 2014; 4: 68-72.

Mitka M.
FDA asks physicians to stop prescribing high-dose acetaminophen products.
JAMA 2014; 311: 563.

Shaker ME.
Nilotinib interferes with the signalling pathways implicated in acetaminophen hepatotoxicity.
Basic Clin Pharmacol Toxicol 2014; 114: 263-70.

Salicylate

Ismail NM, Ibrahim IA, Hashim NB, Jaarin K.
Effects of captopril on factors affecting gastric mucosal integrity in aspirin-induced gastric lesions in Sprague-Dawley rats.
Arch Med Sci 2013; 9: 1132-7.

Sildenafil

Senthilkumaran S, Balamurugan N, Meenakshisundaram R, Thirumalaikolundusubramanian P.
Acute coronary syndrome and sildenafil-coincidence or coexistence.
Am J Emerg Med 2014; 32: 178.

Sodium thiosulfate

Wendroth SM, Heady TN, Haverstick DM, Bachmann LM, Scott MG, Boyd JC, Bruns DE.
Falsely increased chloride and missed anion gap elevation during treatment with sodium thiosulfate.
Clin Chim Acta 2014; 431: 77-9.

SSRIs

Buckley NA, Dawson AH, Isbister GK.
Serotonin syndrome.
Br Med J 2014; 348: g1626.

Dall M, Primdahl A, Damborg F, Nymark T, Hallas J.
The association between use of serotonergic antidepressants and perioperative bleeding during total hip arthroplasty – A cohort study.
Basic Clin Pharmacol Toxicol 2014; online early: doi: 10.1111/bcpt.12218:

Citalopram

Álvarez E, Vieira S, Garcia-Moll X.
Citalopram, escitalopram and prolonged QT: warning or alarm?
Rev Psiquiatr Salud Ment 2014; online early:
doi: 10.1016/j.rpsm.2013.12.005:

Escitalopram

Zuccoli ML, Milano G, Leone S, Fucile C, Brasesco PC, Martelli A, Mattioli F.
A case report on escitalopram-induced hyperglycaemia in a diabetic patient.
Int J Psychiatry Med 2013; 46: 195-201.

Steroids

Ammatuna E, Nijziel MR.
Polycythemia and renal infarction in a bodybuilder.
QJM 2014; online early: doi: 10.1093/qjmed/hcu042:

Darke S, Torok M, Duflou J.
Sudden or unnatural deaths involving anabolic-androgenic steroids.
J Forensic Sci 2014; online early:
doi: 10.1111/1556-4029.12424:

Peoples K, Kobe D, Campana C, Simon EL.
Hyperhomocysteinemia induced myocardial infarction in a young male using anabolic steroids.
Am J Emerg Med 2014; online early:
doi: 10.1016/j.ajem.2014.01.041:

Testosterone

Karadag AS, Kavala M, Demir FT, Turkoglu Z, Kartal I, Zemheri E.
A case of hyperpigmentation and acanthosis nigricans by testosterone injections.
Hum Exp Toxicol 2014; online early:
doi: 10.1177/0960327113514099:

Substance abuse

Barratt MJ, Ferris JA, Winstock AR.
Use of Silk Road, the online drug marketplace, in the United Kingdom, Australia and the United States.
Addiction 2014; online early: doi: 10.1111/add.12470:

Chary M, Park EH, McKenzie A, Sun J, Manini AF, Genes N.
Signs & symptoms of dextromethorphan exposure from YouTube.
PLoS ONE 2014; 9: e82452.

Substance abuse

Connors NJ, Grino A, Tunik MG, Hoffman RS.
Chronic hematuria and abdominal pain.
Clin Toxicol 2014; 52: 231-2.

Degenhardt L, Baxter AJ, Lee YY, Hall W, Sara GE, Johns N, Flaxman A, Whiteford HA, Vos T.
The global epidemiology and burden of psychostimulant dependence: findings from the global burden of disease study 2010.
Drug Alcohol Depend 2014; online early:
doi: 10.1016/j.drugalcdep.2013.12.025:

Delaveris GJ, Teige B, Rogde S.
Non-natural manners of death among users of illicit drugs: substance findings a ten year study from south-east Norway.
Forensic Sci Int 2014; online early:
doi: 10.1016/j.forsciint.2014.02.009:

Howell LL, Negus SS.
Monoamine transporter inhibitors and substrates as treatments for stimulant abuse.
Adv Pharmacol 2014; 69: 129-76.

Jalali F, Afshari R, Babaei A.
Smoking crushed hyoscine/scopolamine tablets as drug abuse.
Subst Use Misuse 2014; online early:
doi: 10.3109/10826084.2014.880178:

Kamour A, James D, Spears R, Cooper G, Lupton DJ, Eddleston M, Thompson JP, Vale AJ, Thanacoody HKR, Hill SL, Thomas SHL.
Patterns of presentation and clinical toxicity after reported use of alpha methyltryptamine in the United Kingdom. A report from the UK National Poisons Information Service.
Clin Toxicol 2014; 52: 192-7.

Khan U, van Nuijs ALN, Li J, Maho W, Du P, Li K, Hou L, Zhang J, Meng X, Li X, Covaci A.
Application of a sewage-based approach to assess the use of ten illicit drugs in four Chinese megacities.
Sci Total Environ 2014; online early:
doi: 10.1016/j.scitotenv.2014.01.043:

Loftus H, Wright A.
Potential misuse of pregabalin and gabapentin.
Br Med J 2014; 348: g1290.

McAvoy BR, Tobin CL.
Fatal misuse of codeine-ibuprofen analgesics in Victoria, Australia.
Med J Aust 2014; 200: 150-1.

Pilgrim JL, Drummer OH.
Fatal misuse of codeine-ibuprofen analgesics in Victoria, Australia.
Med J Aust 2014; 200: 151.

Pourmand A, Armstrong P, Mazer-Amirshahi M, Shokoohi H.
The evolving high: new designer drugs of abuse.
Hum Exp Toxicol 2014; online early:
doi: 10.1177/0960327113514100:

Rhoades H, Winetrobe H, Rice E.
Prescription drug misuse among homeless youth.
Drug Alcohol Depend 2014; online early:
doi: 10.1016/j.drugalcdep.2014.02.011:

Rigg KK, Ford JA.
The misuse of benzodiazepines among adolescents: psychosocial risk factors in a national sample.
Drug Alcohol Depend 2014; online early:
doi: 10.1016/j.drugalcdep.2014.01.026:

Varner MW, Silver RM, Rowland Hogue CJ, Willinger M, Parker CB, Thorsten VR, Goldenberg RL, Saade GR, Dudley DJ, Coustan D, Stoll B, Bukowski R, Koch MA, Conway D, Pinar H, Reddy UM.
Association between stillbirth and illicit drug use and smoking during pregnancy.
Obstet Gynecol 2014; 123: 113-25.

Woo TM, Hanley JR.
"How High Do They Look?": identification and treatment of common ingestions in adolescents.
J Pediatr Health Care 2013; 27: 135-44.

Thiopurine

Gregoriano C, Ceschi A, Rauber-Lüthy C, Kupferschmidt H, Banner NR, Krähenbühl S, Taegtmeyer AB.
Acute thiopurine overdose: analysis of reports to a national poison centre 1995–2013.
PLoS ONE 2014; 9: e86390.

Tricyclic antidepressants

Miyauchi M, Hayashida M, Yokota H.
Successful retrieval using ultrathin transnasal esophago-gastroduodenoscopy of a significant amount of residual tricyclic antidepressant following serious toxicity: a case report.
Int J Emerg Med 2013; 6:

Amitriptyline

Paksu S, Duran L, Altuntas M, Zengin H, Salis O, Ozsevik SN, Albayrak H, Murat N, Guzel A, Paksu MS.
Amitriptyline overdose in emergency department of university hospital: evaluation of 250 patients.
Hum Exp Toxicol 2014; online early:
doi: 10.1177/0960327113520019:

Vasodilators

Milrinone

Miyashita K, Yasumura R, Yamazaki H, Kajitani M, Osaki Y, Kobayashi Y.
Fatal hyperkalemia after vasodilator therapy for non-occlusive mesenteric ischemia.
Am J Emerg Med 2014; online early:
doi: 10.1016/j.ajem.2014.01.038:

Vitamins

Calciferol

Smollin C, Srisansanee W.
Vitamin D toxicity in an infant: case files of the University of California, San Francisco Medical Toxicology Fellowship.
J Med Toxicol 2014; online early: doi: 10.1007/s13181-013-0365-0:

CHEMICAL INCIDENTS AND POLLUTION

Air pollution

Fleisch AF, Gold DR, Rifas-Shiman SL, Koutrakis P, Schwartz JD, Kloog I, Melly S, Coull BA, Zanobetti A, Gillman MW, Oken E.
Air pollution exposure and abnormal glucose tolerance during pregnancy: the Project Viva cohort.
Environ Health Perspect 2014; online early:
doi: 10.1289/ehp.1307065:

Air pollution

Fleischer NL, Meriandi M, van Donkelaar A, Vadillo-Ortega F, Martin RV, Betran AP, Souza JP, O'Neill MS.

Outdoor air pollution, preterm birth, and low birth weight: analysis of the world health organization global survey on maternal and perinatal health.

Environ Health Perspect 2014; online early:
doi: 10.1289/ehp.1306837:

Johannesson S, Andersson EM, Stockfelt L, Barregard L, Sallsten G.

Urban air pollution and effects on biomarkers of systemic inflammation and coagulation: a panel study in healthy adults. Inhal Toxicol 2014; 26: 84-94.

Kumar R, Nagar J, Goel N, Kumar P, Kushwah A, Gaur S. Indoor air pollution and asthma in children at Delhi, India. Ann Allergy Asthma Immunol 2013; 111: A37-A38.

Luttmann-Gibson H, Sarnat SE, Suh HH, Coull BA, Schwartz J, Zanobetti A, Gold DR.

Short-term effects of air pollution on oxygen saturation in a cohort of senior adults in Steubenville, Ohio. J Occup Environ Med 2014; 56: 149-54.

Miyamoto N, Senju H, Tanaka T, Asai M, Yanagita Y, Yano Y, Nishinakagawa T, Kotaki K, Kitagawa C, Rikitomi N, Kozu R, Honda S.

Pulmonary rehabilitation improves exercise capacity and dyspnea in air pollution-related respiratory disease. Tohoku J Exp Med 2014; 232: 1-8.

Pun VC, Yu IT, Ho K, Qiu H, Sun Z, Tian L.

Differential effects of source-specific particulate matter on emergency hospitalizations for ischemic heart disease in Hong Kong.

Environ Health Perspect 2014; online early:
doi: 10.1289/ehp.1307213:

Rashidi M, Ramesht MH, Zohary M, Poursafa P, Kelishadi R, Rashidi Z, Rouzbahani R.

Relation of air pollution with epidemiology of respiratory diseases in Isfahan, Iran from 2005 to 2009. J Res Med Sci 2013; 18: 1074-9.

Richardson EA, Pearce J, Tunstall H, Mitchell R, Shortt NK. Particulate air pollution and health inequalities: a Europe-wide ecological analysis.

Int J Health Geogr 2013; 12: 34.

Ritz B, Qiu J, Lee P-C, Lurmann F, Penfold B, Erin R, McConnell R, Arora C, Hobel C, Wilhelm M.

Prenatal air pollution exposure and ultrasound measures of fetal growth in Los Angeles, California. Environ Res 2014; 130: 7-13.

Schikowski T, Mills IC, Anderson HR, Cohen A, Hansell A, Kauffmann F, Krämer U, Marcon A, Perez L, Sunyer J, Probst-Hensch N, Kunzli N.

Ambient air pollution: a cause of COPD. Eur Respir J 2014; 43: 250-63.

Steenhof M, Janssen NAH, Strak M, Hoek G, Gosens I, Mudway IS, Kelly FJ, Harrison RM, Pieters RHH, Cassee FR, Brunekreef B.

Air pollution exposure affects circulating white blood cell counts in healthy subjects: the role of particle composition, oxidative potential and gaseous pollutants – the RAPTES project.

Inhal Toxicol 2014; 26: 141-65.

Suissa L, Fortier M, Lachaud S, Staccini P, Mahagne M-H.

Ozone air pollution and ischaemic stroke occurrence: a case-crossover study in Nice, France. BMJ Open 2013; 3: e004060.

Szász Z, Abrám Z, Szász L, Moldovan H, Demeter A.

Biological monitoring as proficient assessment method in chronic exposure to irritating gases and vapors. Rev Med Chir Soc Med Nat Iasi 2013; 117: 52-8.

von Bornstädt D, Kunz A, Endres M.

Impact of particulate matter exposition on the risk of ischemic stroke: epidemiologic evidence and putative mechanisms. J Cereb Blood Flow Metab 2014; 34: 215-20.

Exhaust fumes

Foraster M, Basagaña X, Aguilera I, Rivera M, Agis D, Bouso L, Deltell A, Marrugat J, Ramos R, Sunyer J, Vila J, Elosua R, Kunzli N.

Association of long-term exposure to traffic-related air pollution with blood pressure and hypertension in an adult population—based cohort in Spain (the REGICOR study). Environ Health Perspect 2014; online early:
doi: 10.1289/ehp.1306497:

Henry H, Anthopoulos R, Maxson P.

Traffic-related air pollution and pediatric asthma in Durham County, North Carolina. Int J Disabil Hum Dev 2013; 12: 467-71.

Water pollution

Bove F, Ruckart P, Maslia M, Larson T.

Evaluation of mortality among marines and navy personnel exposed to contaminated drinking water at USMC base camp Lejeune: a retrospective cohort study. Environ Health 2014; 13: 10.

Chen C-J.

Health hazards and mitigation of chronic poisoning from arsenic in drinking water: Taiwan experiences. Rev Environ Health 2014; online early:
doi: 10.1515/reveh-2014-0007:

Ishii K, Itoh Y, Iwasaki N, Shibata Y, Tamaoka A.

Detection of diphenylarsinic acid and its derivatives in human serum and cerebrospinal fluid. Clin Chim Acta 2014; online early:
doi: 10.1016/j.cca.2014.01.029:

CHEMICALS

General

Behar RZ, Davis B, Wang Y, Bahl V, Lin S, Talbot P.

Identification of toxicants in cinnamon-flavored electronic cigarette refill fluids. Toxicol In Vitro 2014; 28: 198-208.

Centeno JA, Rogers DA, van der Voet GB, Fornero E, Zhang L, Mullick FG, Chapman GD, Olabisi AO, Wagner DJ, Stojadinovic A, Potter BK.

Embedded fragments from U.S. Military personnel—Chemical analysis and potential health implications. Int J Environ Res Public Health 2014; 11: 1261-78.

Acetylene

Brvar M.

Interstitial pneumonitis after acetylene welding – A case report.

Int J Occup Med Environ Health 2014; online early: doi: 10.2478/s13382-014-0224-5:

Alcohol (ethanol)

Arndt T, Schröfel S, Güssregen B, Stemmerich K.
Inhalation but not transdermal resorption of hand sanitizer ethanol causes positive ethyl glucuronide findings in urine.
Forensic Sci Int 2014; online early:
doi: 10.1016/j.forsciint.2014.02.007:

Benzer TI, Nejad SH, Flood JG.
Case 40-2013: a 36-year-old man with agitation and paranoia.
N Engl J Med 2013; 369: 2536-45.

Berger L, Fendrich M, Jones J, Fuhrmann D, Plate C, Lewis D.
Ethyl glucuronide in hair and fingernails as a long-term alcohol biomarker.
Addiction 2014; 109: 425-31.

Dumas-Campagna J, Tardif R, Charest-Tardif G, Haddad S.
Ethanol toxicokinetics resulting from inhalation exposure in human volunteers and toxicokinetic modeling.
Inhal Toxicol 2014; 26: 59-69.

Elliott JA, Miller ER.
Alcohol and cancer: the urgent need for a new message.
Med J Aust 2014; 200: 71-2.

Fong H, Muller AA.
An unexpected clinical course in a 29-day-old infant with ethanol exposure.
Pediatr Emerg Care 2014; 30: 111-3.

Magrys SA, Olmstead MC.
Alcohol intoxication alters cognitive skills mediated by frontal and temporal brain regions.
Brain Cogn 2014; 85C: 271-6.

Peacock A, Bruno R, Martin FH, Carr A.
Self-reported physiological and psychological side-effects of an acute alcohol and energy drink dose.
Appetite 2014; 76: 60-5.

Rehm J, Kailasapillai S, Larsen E, Rehm MX, Samokhvalov AV, Shield KD, Roerecke M, Lachenmeier DW.
A systematic review of the epidemiology of unrecorded alcohol consumption and the chemical composition of unrecorded alcohol.
Addiction 2014; online early: doi: 10.1111/add.12498:

Zamengo L, Frison G, Tedeschi G, Frasson S, Zancanaro F, Sciarrone R.
Variability of blood alcohol content (BAC) determinations: the role of measurement uncertainty, significant figures, and decision rules for compliance assessment in the frame of a multiple BAC threshold law.
Drug Test Anal 2014; online early:
doi: 10.1002/dta.1614:

Benzene

Glass DC, Schnatter AR, Tang G, Irons RD, Rushton L.
Risk of myeloproliferative disease and chronic myeloid leukaemia following exposure to low-level benzene in a nested case-control study of petroleum workers.
Occup Environ Med 2014; online early:
doi: 10.1136/oemed-2013-101664:

Bisphenol A

Calhoun KC, Padilla-Banks E, Jefferson WN, Liu L, Gerrish KE, Young SL, Wood CE, Hunt PA, VandeVoort CA, Williams CJ.
Bisphenol A exposure alters developmental gene expression in the fetal rhesus macaque uterus.
PLoS ONE 2014; 9: e85894.

Carbon dioxide

Chung YE, Kim YE, Park I, You JS.
Subcutaneous emphysema after carbon dioxide injection.
J Emerg Med 2014; online early:
doi: 10.1016/j.jemermed.2013.11.084:

Carbon monoxide

Akdemir HU, Yardan T, Kati C, Duran L, Alacam H, Yavuz Y, Okuyucu A.
The role of S100B protein, neuron-specific enolase, and glial fibrillary acidic protein in the evaluation of hypoxic brain injury in acute carbon monoxide poisoning.
Hum Exp Toxicol 2014; online early:
doi: 10.1177/0960327114521049:

Garg J, Krishnamoorthy P, Palaniswamy C, Khera S, Ahmad H, Jain D, Aronow WS, Frishman WH.
Cardiovascular abnormalities in carbon monoxide poisoning.
Am J Ther 2014; online early:
doi: 10.1097/MJT.000000000000016:

Kaldirim Ü, Erkencigil M, Tuncer SK, Eyi YE, Arziman I.
Electrocardiographic findings of carbon monoxide intoxication; two cases.
Afr J Emerg Med 2013; 3: S17.

Kudo K, Otsuka K, Yagi J, Sanjo K, Koizumi N, Koeda A, Umetsu MY, Yoshioka Y, Mizugai A, Mita T, Shiga Y, Koizumi F, Nakamura H, Sakai A.
Predictors for delayed encephalopathy following acute carbon monoxide poisoning.
BMC Emerg Med 2014; 14: 3.

Ruas F, Mendonça MC, Real FC, Vieira DN, Teixeira HM.
Carbon monoxide poisoning as a cause of death and differential diagnosis in the forensic practice: a retrospective study, 2000 to 2010.
J Forensic Legal Med 2014; online early:
doi: 10.1016/j.jflm.2014.02.002:

Corrosives

Javed A, Yanger N, Agarwal AK.
Liver necrosis following corrosive ingestion.
Indian J Gastroenterol 2014; 33: 77-8.

Messinger H.
An approach for the delineation of a generic cut-off value for local respiratory tract irritation by irritating or corrosive substances as a pragmatic tool to fulfill REACH requirements.
Regul Toxicol Pharmacol 2014; 68: 317-24.

Cosmetics

Bocca B, Pino A, Alimonti A, Forte G.
Toxic metals contained in cosmetics: a status report.
Regul Toxicol Pharmacol 2014; online early:
doi: 10.1016/j.yrtph.2014.02.003:

Cyanide

Sweeney LM, Sommerville DR, Channel SR.
Impact of non-constant concentration exposure on lethality of inhaled hydrogen cyanide.
Toxicol Sci 2014; 138: 205-16.

Detergents

Huntington S, Heppner J, Vohra R, Mallios R, Geller RJ.
Serious adverse effects from single-use detergent sacs: report from a U.S. statewide poison control system.
Clin Toxicol 2014; 52: 220-5.

Detergents

Russell JL, Wiles DA, Kenney B, Spiller HA.
Significant chemical burns associated with dermal exposure to laundry pod detergent.
J Med Toxicol 2014; online early: doi: 10.1007/s13181-014-0387-2:

Dexpanthenol

Gulec AI, Albayrak H, Uslu E, Baskan E, Aliagaoglu C.
Pustular irritant contact dermatitis caused by dexpanthenol in a child.
Cutan Ocul Toxicol 2014; online early: doi: 10.3109/15569527.2014.883405:

Dioxin

Tohyama C.
Clarification of molecular targets of dioxin toxicity.
Nihon Eiseigaku Zasshi 2014; 69: 1-7.

Vafeiadi M, Agramunt S, Pedersen M, Besselink H, Chatzi L, Fthenou E, Fleming S, Hardie LJ, Wright J, Knudsen LE, Nielsen JKS, Sunyer J, Carreras R, Brunborg G, Gutzkow KB, Nygaard UC, Løvik M, Kyrtopoulos SA, Segerbäck D, Merlo DF, Kleinjans JC, Vrijheid M, Kogevinas M, The NewGeneris Consortium.
In utero exposure to compounds with dioxin-like activity and birth outcomes.
Epidemiology 2014; 25: 215-24.

Disinfectants

Hong S-B, Kim HJ, Huh JW, Do K-H, Jang SJ, Song JS, Choi S-J, Heo Y, Kim Y-B, Lim C-M, Chae EJ, Lee H, Jung M, Lee K, Lee M-S, Koh Y.
A cluster of lung injury associated with home humidifier use: clinical, radiological and pathological description of a new syndrome.
Thorax 2014; online early: doi: 10.1136/thoraxjnl-2013-204135:

Essential oils

Carson CF, Tisserand R, Larkman T.
Lack of evidence that essential oils affect puberty.
Reprod Toxicol 2014; online early: doi: 10.1016/j.reprotox.2013.09.010:

Ethylene glycol

Alhamad T, Blandon J, Meza AT, Bilbao JE, Hernandez GT.
Acute kidney injury with oxalate deposition in a patient with a high anion gap metabolic acidosis and a normal osmolal gap.
J Nephropathol 2013; 2: 139-43.

Food additives

Carrageenan

Weiner ML.
Food additive carrageenan: Part II: A critical review of carrageenan *in vivo* safety studies.
Crit Rev Toxicol 2014; 44: 244-69.

Formaldehyde

Arici S, Karaman S, Dogru S, Cayli S, Arici A, Suren M, Karaman T, Kaya Z.
Central nervous system toxicity after acute oral formaldehyde exposure in rabbits: an experimental study.
Hum Exp Toxicol 2014; online early: doi: 10.1177/0960327113514098:

McLaughlin JK, Tarone RE.
Mortality from solid tumors in the updated NCI formaldehyde cohort.
Am J Ind Med 2014; 57: 486-7.

Honey

Harissis HV, Mavrofridis G.
"Mad honey" in medicine from antiquity to the present day.
Arch Hell Med 2013; 30: 730-3.

Iodine

Ostroumova E, Rozhko A, Hatch M, Furukawa K, Polyanskaya O, McConnell RJ, Nadyrov E, Petrenko S, Romanov G, Yauseyenko V, Drozdovitch V, Minenko V, Prokopovich A, Savasteeva I, Zablotska LB, Mabuchi K, Brenner AV.
Iodine-131 and thyroid function: Ostroumova *et al.* respond.
Environ Health Perspect 2014; 122: A40-A41.

Sun W.
Iodine-131 and thyroid function.
Environ Health Perspect 2014; 122: A40.

Isocyanates

Saab L, Gautrin D, Lavoué J, Suarathana E.
Postapprenticeship isocyanate exposure and risk of work-related respiratory symptoms using an asthma-specific job exposure matrix, self-reported and expert-rated exposure estimates.
J Occup Environ Med 2014; 56: 125-7.

Melamine

Wong CK, Chan MH, Kwok JS, Ho CS, Ng PC, Suen SH, Fung KP, Lau CM, Fok TF.
Diagnostic tools for detection of intoxication by melamine and its analogue.
Hong Kong Med J 2013; 19 Suppl 8: 12-5.

Methanol

Doede T, Bröcker V, Fruhauf NR.
Organ donation after letal methanol intoxication – Letter to the editors.
Transpl Int 2014; online early: doi: 10.1111/tri.12285:

Lee C-Y, Chang EK, Lin J-L, Weng C-H, Lee S-Y, Juan K-C, Yang H-Y, Lin C, Lee S-H, Wang I-K, Yen T-H.
Risk factors for mortality in Asian Taiwanese patients with methanol poisoning.
Ther Clin Risk Manag 2014; 10: 61-7.

Lim CS, Bryant SM.
Forgoing the folate?—Contemporary recommendations for methanol poisoning and evidence review.
Am J Ther 2014; online early: doi: 10.1097/MJT.000000000000059:

Nanoparticles

Malvindi MA, De Matteis V, Galeone A, Brunetti V, Anyfantis GC, Athanassiou A, Cingolani R, Pompa PP.
Toxicity assessment of silica coated iron oxide nanoparticles and biocompatibility improvement by surface engineering.
PLoS ONE 2014; 9: e85835.

Prakash YS, Matalon S.
Nanoparticles and the lung: friend or foe?
Am J Physiol Lung Cell Mol Physiol 2014; 306: L393-L396.

Neem oil

Kumar S, Kumar N.
Neem oil poisoning as a cause of toxic encephalopathy in an infant.
Indian J Pediatr 2014; online early: doi: 10.1007/s12098-013-1327-x:

Nitrates

Hovland KH, Skogstad M, Bakke B, Skare Ø, Skyberg K.
Longitudinal decline in pulmonary diffusing capacity among nitrate fertilizer workers.
Occup Med (Oxf) 2014; online early: doi: 10.1093/occmed/kqt174:

Palmitic acid

Park E-J, Lee AY, Park S, Kim J-H, Cho M-H.
Multiple pathways are involved in palmitic acid-induced toxicity.
Food Chem Toxicol 2014; online early: doi: 10.1016/j.fct.2014.01.027:

Paraphenylenediamine

Prabhakar M.
Supervasol33 Keshkala poisoning: role of ENT surgoen [sic].
Indian J Otolaryngol Head Neck Surg 2014; 66: 281-5.

Perfluorinated compounds

Konkel L.
PFCs and early menopause: association raises questions about causality.
Environ Health Perspect 2014; 122: A59.

Lyngsø J, Ramlau-Hansen CH, Hoyer BB, Støvring H, Bonde JP, Jönsson BAG, Lindh CH, Pedersen HS, Ludwicki JK, Zvezdai V, Toft G.
Menstrual cycle characteristics in fertile women from Greenland, Poland and Ukraine exposed to perfluorinated chemicals: a cross-sectional study.
Hum Reprod 2014; 29: 359-67.

Ode A, Rylander L, Lindh CH, Kallen K, Jönsson BAG, Gustafsson P, Olofsson P, Ivarsson SA, Rignell-Hydbom A.
Determinants of maternal and fetal exposure and temporal trends of perfluorinated compounds.
Environ Sci Pollut Res 2013; 20: 7970-8.

Starling AP, Engel SM, Richardson DB, Baird DD, Haug LS, Stuebe AM, Klungsoyr K, Harmon Q, Becher G, Thomsen C, Sabaredzovic A, Eggesbø M, Hoppin JA, Travlos GS, Wilson RE, Trostad LI, Magnus P, Longnecker MP.
Perfluoroalkyl substances during pregnancy and validated preeclampsia among nulliparous women in the Norwegian mother and child cohort study.
Am J Epidemiol 2014; online early: doi: 10.1093/aje/kwt432:

Yamada A, Bemrah N, Veyrand B, Pollono C, Merlo M, Desvignes V, Sirot V, Marchand P, Berrebi A, Cariou R, Antignac JP, Le Bizet B, Leblanc JC.
Dietary exposure to perfluoroalkyl acids of specific French adult sub-populations: high seafood consumers, high freshwater fish consumers and pregnant women.
Sci Total Environ 2014; online early: doi: 10.1016/j.scitotenv.2014.01.089:

Petrol (gasoline) and petroleum oils

Bolt HM.
Fighting oil spills at sea and toxicology of complex mixtures.
Arch Toxicol 2014; 88: 541-2.

Sarwar U, Javed M, Rahman S, Wright TC.
Digital high-pressure injection injury: the importance of early recognition and treatment.
BMJ Case Rep 2014; 2014:

Phosphorus

Berndtson AE, Fagin A, Sen S, Greenhalgh DG, Palmieri TL.
White phosphorus burns and arsenic inhalation: a toxic combination.
J Burn Care Res 2014; 35: doi: 10.1097/BCR.0b013e31828c73dd.

Lakshmi CP, Goel A, Basu D.
Cholestatic presentation of yellow phosphorus poisoning.
J Pharmacol Pharmacother 2014; 5: 67-9.

Phthalate esters

Miodovnik A, Edwards A, Bellinger DC, Hauser R.
Developmental neurotoxicity of *ortho*-phthalate diesters: review of human and experimental evidence.
Neurotoxicology 2014; online early: doi: 10.1016/j.neuro.2014.01.007:

Plasticisers

Alexander BM, Baxter CS.
Plasticizer contamination of firefighter personal protective clothing—A potential factor in increased health risks in firefighters.
J Occup Environ Hyg 2014; online early: doi: 10.1080/15459624.2013.877142:

Polychlorinated biphenyls

Mørck TA, Erdmann SE, Long M, Mathiesen L, Nielsen F, Siersma VD, Bonefeld-Jørgensen EC, Knudsen LE.
PCB concentrations and dioxin-like activity in serum samples from Danish school children and their mothers living in urban and rural areas.
Basic Clin Pharmacol Toxicol 2014; online early: doi: 10.1111/bcpt.12214:

Polycyclic aromatic hydrocarbons

Barraza-Villarreal A, Escamilla-Núñez MC, Schilman A, Hernandez-Cadena L, Li Z, Romanoff L, Sjödin A, Del Río-Navarro BE, Díaz-Sánchez D, Díaz-Barriga F, Sly P, Romieu I.
Lung function, airway inflammation, and polycyclic aromatic hydrocarbons exposure in Mexican schoolchildren: a pilot study.
J Occup Environ Med 2014; online early: doi: 10.1097/JOM.000000000000111:

Irvine G, Blais J, Doyle J, Kimpe L, White P.
Cancer risk to First Nations' people from exposure to polycyclic aromatic hydrocarbons near in-situ bitumen extraction in Cold Lake, Alberta.
Environ Health 2014; 13: 7.

Tuyen LH, Tue NM, Suzuki G, Misaki K, Viet PH, Takahashi S, Tanabe S.
Aryl hydrocarbon receptor mediated activities in road dust from a metropolitan area, Hanoi—Vietnam: contribution of polycyclic aromatic hydrocarbons (PAHs) and human risk assessment.
Sci Total Environ 2014; online early: doi: 10.1016/j.scitotenv.2014.01.086:

Radiation

Boice JD, Jr., Cohen SS, Mumma MT, Ellis ED, Cragle DL, Eckerman KF, Wallace PW, Chadda B, Sonderman JS, Wiggs LD, Richter BS, Leggett RW.

Mortality among mound workers exposed to polonium-210 and other sources of radiation, 1944-1979.

Radiat Res 2014; online early: doi: 10.1667/RR13395.1:

Smoke

Bønløkke JH, Riddervold IS, Grønborg TK, Skogstrand K, Hougaard DM, Barregard L, Sigsgaard T.

Systemic effects of wood smoke in a short-term experimental exposure study of atopic volunteers.

J Occup Environ Med 2014; 56: 177-83.

Martins-Green M, Adhami N, Frankos M, Valdez M, Goodwin B, Lyubovitsky J, Dhall S, Garcia M, Egiebor I, Martinez B, Green HW, Havel C, Yu L, Liles S, Matt G, Destailats H, Sleiman M, Gundel LA, Benowitz N, Jacob P, III, Hovell M, Winickoff JP, Curras-Collazo M.

Cigarette smoke toxins deposited on surfaces: implications for human health.

PLoS ONE 2014; 9: e86391.

Styrene

Fischer CS, Bayer O, Strupp M.

Transient bilateral vestibular dysfunction caused by intoxication with low doses of styrene.

Eur Arch Otorhinolaryngol 2014; 271: 619-23.

Talc

Nath D, Vaideeswar P, Chaudhary J, Vaz W.

"Samosa" pneumoconiosis: a case of pulmonary talcosis uncovered during a medicolegal autopsy.

Am J Forensic Med Pathol 2014; 35: 11-4.

Tertiary butyl acetate

Faber W, Kirkpatrick D, Coder P, Li A, Borghoff S, Banton M.

Subchronic, reproductive, and maternal toxicity studies with tertiary butyl acetate (TBAC).

Regul Toxicol Pharmacol 2014; 68: 332-42.

Tetrabromobisphenol A

Otsuka S, Ishihara A, Yamauchi K.

Ioxynil and tetrabromobisphenol A suppress thyroid-hormone-induced activation of transcriptional elongation mediated by histone modifications and rna polymerase II phosphorylation.

Toxicol Sci 2014; online early:

doi: 10.1093/toxsci/kfu012:

Tetrachloroethylene

Abusoglu S, Celik HT, Tutkun E, Yilmaz H, Serdar MA, Bal CD, Yildirimkaya M, Avcikucuk M.

8-hydroxydeoxyguanosine as a useful marker for determining the severity of trichloroethylene exposure.

Arch Environ Occup Health 2014; 69: 180-6.

Guyton KZ, Hogan KA, Scott CS, Cooper GS, Bale AS, Kopylev L, Barone Jr S, Makris SL, Glenn B, Subramaniam RP, Gwinn MR, Dzubow RC, Chiu WA.

Human health effects of tetrachloroethylene: key findings and scientific issues.

Environ Health Perspect 2014; online early:

doi: 10.1289/ehp.1307359:

Tobacco

Behar RZ, Davis B, Wang Y, Bahl V, Lin S, Talbot P.

Identification of toxicants in cinnamon-flavored electronic cigarette refill fluids.

Toxicol In Vitro 2014; 28: 198-208.

De Marco C, Invernizzi G, Bosi S, Pozzi P, Di PA, Mazza R, Ruprecht AA, Munarini E, Boffi R.

The electronic cigarette: potential health benefit or mere business?

Tumori 2013; 99: 299e-301e.

Fassa AG, Faria NM, Meucci RD, Fiori NS, Miranda VI, Facchini LA.

Green tobacco sickness among tobacco farmers in southern Brazil.

Am J Ind Med 2014; online early:

doi: 10.1002/ajim.22307:

Martins-Green M, Adhami N, Frankos M, Valdez M, Goodwin B, Lyubovitsky J, Dhall S, Garcia M, Egiebor I, Martinez B, Green HW, Havel C, Yu L, Liles S, Matt G, Destailats H, Sleiman M, Gundel LA, Benowitz N, Jacob P, III, Hovell M, Winickoff JP, Curras-Collazo M.

Cigarette smoke toxins deposited on surfaces: implications for human health.

PLoS ONE 2014; 9: e86391.

Matsunaga Y, Vardavas CI, Plada M, Wörnberg J, Gómez-Martínez S, Tzatzarakis MN, Tsatsakis AM, Díaz E-L, Marcos A, Kafatos AG.

The relationship between cotinine concentrations and inflammatory markers among highly secondhand smoke exposed non-smoking adolescents.

Cytokine 2014; 66: 17-22.

Pappas RS, Fresquez MR, Martone N, Watson CH.

Toxic metal concentrations in mainstream smoke from cigarettes available in the USA.

J Anal Toxicol 2014; online early:

doi: 10.1093/jat/bku013:

Varner MW, Silver RM, Rowland Hogue CJ, Willinger M, Parker CB, Thorsten VR, Goldenberg RL, Saade GR, Dudley DJ, Coustan D, Stoll B, Bukowski R, Koch MA, Conway D, Pinar H, Reddy UM.

Association between stillbirth and illicit drug use and smoking during pregnancy.

Obstet Gynecol 2014; 123: 113-25.

Welding fumes

Butler O, Musgrove D, Stacey P.

Preparation and certification of two new bulk welding fume reference materials for use in laboratories undertaking analysis of occupational hygiene samples.

J Occup Environ Hyg 2014; online early:

doi: 10.1080/15459624.2014.889301:

Hulo S, Chérot-Kornobis N, Howsam M, Crucq S, de Broucker V, Sobaszek A, Edme J-L.

Manganese in exhaled breath condensate: a new marker of exposure to welding fumes.

Toxicol Lett 2014; 226: 63-9.

Wollastonite

Maxim LD, Niebo R, Utell MJ, McConnell EE, LaRosa S, Segrave AM.

Wollastonite toxicity: an update.

Inhal Toxicol 2014; 26: 95-112.

METALS

General

Bocca B, Pino A, Alimonti A, Forte G.

Toxic metals contained in cosmetics: a status report.

Regul Toxicol Pharmacol 2014; online early:

doi: 10.1016/j.yrtph.2014.02.003:

Centeno JA, Rogers DA, van der Voet GB, Fornero E, Zhang L, Mullick FG, Chapman GD, Olabisi AO, Wagner DJ, Stojadinovic A, Potter BK.

Embedded fragments from U.S. Military personnel—Chemical analysis and potential health implications.

Int J Environ Res Public Health 2014; 11: 1261-78.

Chandrasekaran VRM, Hsu D-Z, Liu M-Y.

Beneficial effect of sesame oil on heavy metal toxicity.

J Parenter Enteral Nutr 2014; 38: 179-85.

Claus HB, Coull BA, Wright RO.

Chemical mixtures and children's health.

Curr Opin Pediatr 2014; 8: 7-12.

Notarachille G, Arnesano F, Calo V, Meleleo D.

Heavy metals toxicity: effect of cadmium ions on amyloid beta protein 1-42. Possible implications for Alzheimer's disease.

BioMetals 2014; online early:

doi: 10.1007/s10534-014-9719-6:

Pappas RS, Fresquez MR, Martone N, Watson CH.

Toxic metal concentrations in mainstream smoke from cigarettes available in the USA.

J Anal Toxicol 2014; online early:

doi: 10.1093/jat/bku013:

Sanders AP, Miller SK, Nguyen V, Kotch JB, Fry RC.

Toxic metal levels in children residing in a smelting craft village in Vietnam: a pilot biomonitoring study.

BMC Public Health 2014; 14: 114.

Wang RY, Caldwell KL, Jones RL.

Analytical considerations in the clinical laboratory assessment of metals.

J Med Toxicol 2014; online early:

doi: 10.1007/s13181-014-0381-8:

Wu C-C, Liu H-M.

Determinants of metals exposure to metalworking fluid among metalworkers in Taiwan.

Arch Environ Occup Health 2014; 69: 131-8.

Aluminium

Lu X, Liang R, Jia Z, Wang H, Pan B, Zhang Q, Niu Q.

Cognitive disorders and tau-protein expression among retired aluminum smelting workers.

J Occup Environ Med 2014; 56: 155-60.

Shaw CA, Marler TE.

Aluminum and the human diet revisited.

Commun Integr Biol 2013; 6: e26369.

Arsenic

Anon.

Summaries for patients. Does exposure to low or moderate levels of arsenic increase the risk for cardiovascular disease? Ann Intern Med 2013; 159: I-20.

Bailey K, Fry RC.

Long-term health consequences of prenatal arsenic exposure: links to the genome and the epigenome.

Rev Environ Health 2014; online early:

doi: 10.1515/reveh-2014-0006:

Berndtson AE, Fagin A, Sen S, Greenhalgh DG, Palmieri TL.

White phosphorus burns and arsenic inhalation: a toxic combination.

J Burn Care Res 2014; 35:

doi: 10.1097/BCR.0b013e31828c73dd.

Campbell RC, Stephens WE, Finch AA, Geraki K.

Controls on the valence species of arsenic in tobacco smoke with implications for health and regulation.

Environ Sci Technol 2014; online early:

doi: 10.1021/es4039243:

Chandravanshi LP, Yadav RS, Shukla RK, Singh A, Sultana S, Pant AB, Parmar D, Khanna VK.

Reversibility of changes in brain cholinergic receptors and acetylcholinesterase activity in rats following early life arsenic exposure.

Int J Dev Neurosci 2014; online early:

doi: 10.1016/j.ijdevneu.2014.01.007:

Chen C-J.

Health hazards and mitigation of chronic poisoning from arsenic in drinking water: Taiwan experiences.

Rev Environ Health 2014; online early:

doi: 10.1515/reveh-2014-0007:

Ghose N, Majumdar KK, Ghose AK, Saha CK, Nandy AK, Mazumder DNG.

Role of folic acid on symptoms of chronic arsenic toxicity.

Int J Prev Med 2014; 5: 89-98.

Ghose N, Majumdar KK, Ghose AK, Saha CK, Nandy AK, Mazumder DN.

Role of folic acid on symptoms of chronic arsenic toxicity.

Int J Prev Med 2014; 5: 89-98.

Ishii K, Itoh Y, Iwasaki N, Shibata Y, Tamaoka A.

Detection of diphenylarsinic acid and its derivatives in human serum and cerebrospinal fluid.

Clin Chim Acta 2014; online early:

doi: 10.1016/j.cca.2014.01.029:

Cadmium

García-Esquinas E, Pollán M, Tellez-Plaza M, Francesconi KA, Goessler W, Guallar E, Umans JG, Yeh J, Best LG, Navas-Acien A.

Cadmium exposure and cancer mortality in a prospective cohort: the Strong Heart Study.

Environ Health Perspect 2014; online early:

doi: 10.1289/ehp.1306587:

Cobalt

Giampreti A, Lonati D, Locatelli CA.

Reply to letter by Devlin *et al.*—Chelation in suspected prosthetic hip-associated cobalt toxicity.

Can J Cardiol 2013; online early:

doi: 10.1016/j.cjca.2013.12.009:

Wise J.

TV show House helped doctors spot cobalt poisoning.

Br Med J 2014; 348: g1424.

Iron

Malvindi MA, De Matteis V, Galeone A, Brunetti V, Anyfantis GC, Athanassiou A, Cingolani R, Pompa PP. Toxicity assessment of silica coated iron oxide nanoparticles and biocompatibility improvement by surface engineering. *PLoS ONE* 2014; 9: e85835.

Mosayebnia M, Shafiee-Ardestani M, Pasalar P, Mashayekhi M, Amanlou M. Diethylenetriaminepenta acetic acid glucose conjugates as a cell permeable iron chelator. *J Pharmacol Pharmacother* 2014; 5: 27-32.

Sheth S. Iron chelation: an update. *Curr Opin Hematol* 2014; online early: doi: 10.1097/MOH.000000000000031:

Lead

Ekinci M, Ceylan E, Çagatay HH, Keles S, Altinkaynak H, Kartal B, Koban Y, Hüseyinoglu N. Occupational exposure to lead decreases macular, choroidal, and retinal nerve fiber layer thickness in industrial battery workers. *Curr Eye Res* 2014; online early: doi: 10.3109/02713683.2013.877934:

Gharaibeh MY, Alzoubi KH, Khabour OF, Khader YS, Allah MA, Matarneh SK. Lead exposure among five distinct occupational groups: a comparative study. *Pak J Pharm Sci* 2014; 27: 39-43.

Hegde S, Shubha AB, Rao BD. Indigenous tooth powders = covert lead poisoning? *Indian J Dent Res* 2013; 24: 678-80.

Kennedy BS, Doniger AS, Painting S, Houston L, Slaunwhite M, Mirabella F, Felsen J, Hunt P, Hyde D, Stich E. Declines in elevated blood lead levels among children, 1997–2011. *Am J Prev Med* 2014; 46: 259-64.

Li T, Dai Y-H, Xie X-H, Tan Z-W, Zhang S-M, Zhu Z-H. Surveillance of childhood blood lead levels in 11 cities of China. *World J Pediatr* 2014; 10: 29-37.

Liu L, Xu X, Yekeen TA, Lin K, Li W, Huo X. Assessment of association between the dopamine D2 receptor (DRD2) polymorphism and neurodevelopment of children exposed to lead. *Environ Sci Pollut Res Int* 2014; online early: doi: 10.1007/s11356-014-2565-9:

Mason LH, Harp JP, Han DY. Pb neurotoxicity: neuropsychological effects of lead toxicity. *BioMed Res Int* 2014; 2014: 840547.

Mazumdar I, Goswami K. Chronic exposure to lead: a cause of oxidative stress and altered liver function in plastic industry workers in Kolkata, India. *Indian J Clin Biochem* 2014; 29: 89-92.

Muller H, Regard S, Petriccioli N, Kherad O. Traditional medicine: a rare cause of lead poisoning in Western countries. *F1000Res* 2013; 2: 250.

Lithium

Hassan S, Khalid F, Alirhayim Z, Amer S. Lithium toxicity in the setting of nonsteroidal anti-inflammatory medications. *Case Rep Nephrol* 2013; 2013: 839796.

Moss MC, Kozlowski T, Dupuis R, Detwiler R, Lee RM, Deyo JC. Lithium use for bipolar disorder post renal transplant: is mood stabilization without toxicity possible? *Transplantation* 2014; 97: e23-e24.

Manganese

Hulo S, Chérot-Kornobis N, Howsam M, Crucq S, de Broucker V, Sobaszek A, Edme J-L. Manganese in exhaled breath condensate: a new marker of exposure to welding fumes. *Toxicol Lett* 2014; 226: 63-9.

Long Z, Li X-R, Xu J, Edden RA, Qin W-P, Long L-L, Murdoch JB, Zheng W, Jiang Y-M, Dydak U. Thalamic GABA predicts fine motor performance in manganese-exposed smelter workers. *PLoS ONE* 2014; 9: e88220.

Mercury

Bellinger DC. Mercury and pregnancy. *Birth Defects Res A Clin Mol Teratol* 2014; 100: 1-3.

Bridges CC, Joshee L, Zalups RK. Aging and the disposition and toxicity of mercury in rats. *Exp Gerontol* 2014; online early: doi: 10.1016/j.exger.2014.02.006:

Carocci A, Rovito N, Sinicropi MS, Genchi G. Mercury toxicity and neurodegenerative effects. *Rev Environ Contam Toxicol* 2014; 229: 1-18.

Dórea JG, Marques RC, Abreu L. Milestone achievement and neurodevelopment of rural Amazonian toddlers (12 to 24 months) with different methylmercury and ethylmercury exposure. *J Toxicol Environ Health A* 2014; 77: 1-13.

Gochfield M, Burger J, Stern AH, Ginsberg G, Anderson H. ALSPAC mercury study and fish consumers. *Environ Health Perspect* 2014; 122: A38.

Golding J, Steer CD, Lowery T, Hibbeln JR. ALSPAC mercury study and fish consumers: Golding *et al.* respond. *Environ Health Perspect* 2014; 122: A38-A39.

Ishihara N. History of ignorance of methylmercury toxicity and intoxication in Japan in relation to Minamata disease. *Nihon Eiseigaku Zasshi* 2014; 69: 75-9.

Khwaja MA, Abbasi MS. Mercury poisoning dentistry: high-level indoor air mercury contamination at selected dental sites. *Rev Environ Health* 2014; online early: doi: 10.1515/reveh-2014-0010:

Kobidze T, Urushadze O, Afandiyev I, Nemsadze G, Loladze D. Clinical manifestation and management of intravenous mercury injection: a case report. *Georgian Med News* 2014; 11-6.

Mercury

Mostafazadeh B, Kiani A, Mohamadi E, Shaki F, Shirazi FH. Mercury exposure of gold mining workers in the northwest of Iran. *Pak J Pharm Sci* 2013; 26: 1267-70.

Zhang H, Feng X, Chan HM, Larssen T. New insights into traditional health risk assessments of mercury exposure: implications of selenium. *Environ Sci Technol* 2014; 48: 1206-12.

Zimmermann LT, Dos Santos DB, Colle D, Dos Santos AA, Hort MA, Garcia SC, Bressan LP, Bohrer D, Farina M. Methionine stimulates motor impairment and cerebellar mercury deposition in methylmercury-exposed mice. *J Toxicol Environ Health A* 2014; 77: 46-56.

Polonium

Boice JD, Jr., Cohen SS, Mumma MT, Ellis ED, Cragle DL, Eckerman KF, Wallace PW, Chadda B, Sonderman JS, Wiggs LD, Richter BS, Leggett RW. Mortality among mound workers exposed to polonium-210 and other sources of radiation, 1944-1979. *Radiat Res* 2014; online early: doi: 10.1667/RR13395.1:

Selenium

Colangelo LA, He K, Whooley MA, Daviglus ML, Morris S, Liu K. Selenium exposure and depressive symptoms: The Coronary Artery Risk Development in Young Adults Trace Element Study. *Neurotoxicology* 2014; online early: doi: 10.1016/j.neuro.2014.02.003:

Thallium

Li JM, Wang W, Lei S, Zhao LL, Zhou D, Xiong H. Misdiagnosis and long-term outcome of 13 patients with acute thallium poisoning in China. *Clin Toxicol* 2014; 52: 181-6.

PESTICIDES

General

Luzardo OP, Ruiz-Suarez N, Valeron PF, Camacho M, Zumbado M, Henriquez-Hernandez LA, Boada LD. Methodology for the identification of 117 pesticides commonly involved in the poisoning of wildlife using GC-MS-MS and LC-MS-MS. *J Anal Toxicol* 2014; online early: doi: 10.1093/jat/bku009:

Pesticides and cancer

Bailey H, Lightfoot T, Clavel J, Miligi L, Infante-Rivard C, Glass D, Fritsch L, Dockerty J, Schuz J. The association between parental occupational pesticide exposure and the risk of childhood leukaemia: analyses of CLIC data. *Eur J Epidemiol* 2013; 28: S168-S169.

da Rocha MS, Arnold LL, de Oliveira MLCS, Catalano SMI, Cardoso APF, Pontes MGN, Ferruccio B, Dodmane PR, Cohen SM, de Camargo JL. Diuron-induced rat urinary bladder carcinogenesis: mode of action and human relevance evaluations using the International Programme on Chemical Safety framework. *Crit Rev Toxicol* 2014; online early: doi: 10.3109/10408444.2013.877870:

Aluminium phosphide

Sharma A, Dishant, Gupta V, Kaushik JS, Mittal K. Aluminum phosphide (celphos) poisoning in children: a 5-year experience in a tertiary care hospital from northern India. *Indian J Crit Care Med* 2014; 18: 33-6.

Carbamate insecticides

General

Kim K-H, Kwon IH, Lee JY, Yeo WH, Park HY, Park KH, Cho J, Kim H, Kim GB, Park DH, Yoon YS, Kim YW. Clinical significance of national patients sample analysis: factors affecting mortality and length of stay of organophosphate and carbamate poisoned patients. *Healthc Inform Res* 2013; 19: 278-85.

Chloropicrin

Pesonen M, Häkkinen M, Rilla K, Juvonen R, Kuitunen T, Pasanen M, Vähäkangas K. Chloropicrin-induced toxic responses in human lung epithelial cells. *Toxicol Lett* 2014; online early: doi: 10.1016/j.toxlet.2014.02.006:

Fungicides

Chlorothalonil

Fernández-García JC, Arrebola JP, González-Romero S, Soriguer F, Olea N, Tinahones FJ. Diabetic ketoacidosis following chlorothalonil poisoning. *Occup Environ Med* 2014; online early: doi: 10.1136/oemed-2013-101795:

Herbicides

Diuron

da Rocha MS, Arnold LL, de Oliveira MLCS, Catalano SMI, Cardoso APF, Pontes MGN, Ferruccio B, Dodmane PR, Cohen SM, de Camargo JL. Diuron-induced rat urinary bladder carcinogenesis: mode of action and human relevance evaluations using the International Programme on Chemical Safety framework. *Crit Rev Toxicol* 2014; online early: doi: 10.3109/10408444.2013.877870:

Clomazone

Van Scoy AR, Tjeerdema RS. Environmental fate and toxicology of clomazone. *Rev Environ Contam Toxicol* 2014; 229: 35-49.

Ioxynil

Otsuka S, Ishihara A, Yamauchi K. Ioxynil and tetrabromobisphenol A suppress thyroid-hormone-induced activation of transcriptional elongation mediated by histone modifications and rna polymerase II phosphorylation. *Toxicol Sci* 2014; online early: doi: 10.1093/toxsci/kfu012:

Insecticides (general)

George T, Shaikh A, Thomas L, Kundavaram A. Severe methemoglobinemia due to insecticide poisoning. *Indian J Crit Care Med* 2014; 18: 113-4.

Amitraz

Guo H, Zhang P, Wang J, Zheng J.
Determination of amitraz and its metabolites in whole blood using solid-phase extraction and liquid chromatography-tandem mass spectrometry.
J Chromatogr B Analyt Technol Biomed Life Sci 2014; 951-952: 89-95.

Avermectin

Liu C, Li M, Cao Y, Qu J-P, Zhang ZW, Xu S-W, Li S.
Effects of avermectin on immune function and oxidative stress in the pigeon spleen.
Chem Biol Interact 2014; 210: 43-50.

Neonicotinoids

Forrester MB.
Neonicotinoid insecticide exposures reported to six poison centers in Texas.
Hum Exp Toxicol 2014; online early:
doi: 10.1177/0960327114522500:

Taira K, Fujioka K, Aoyama Y.
Qualitative profiling and quantification of neonicotinoid metabolites in human urine by liquid chromatography coupled with mass spectrometry.
PLoS ONE 2013; 8: e80332.

Organochlorine pesticides

General

Ali U, Syed JH, Malik RN, Katsoyiannis A, Li J, Zhang G, Jones KC.
Organochlorine pesticides (OCPs) in South Asian region: a review.
Sci Total Environ 2014; 476-477: 705-17.

Endosulfan

Wang D-G, Alaee M, Guo M-X, Pei W, Wu Q.
Concentration, distribution, and human health risk assessment of endosulfan from a manufacturing facility in Huai'an, China.
Sci Total Environ 2014; online early:
doi: 10.1016/j.scitotenv.2014.01.050:

Methoxychlor

Ye L, Chen X, Li X, Zhu Q, Yu L, Guo J, Chen B, Akingbemi BT, Ge R-S, Li H.
Effects of methoxychlor and its metabolite 2,2-bis(p-hydroxyphenyl)-1,1,1-trichloroethane on human and rat 17 α -hydroxylase/17,20-lyase activity.
Toxicol Lett 2014; 225: 407-12.

Organophosphorus insecticides

General

Chowdhary S, Bhattacharyya R, Banerjee D.
Acute organophosphorus poisoning.
Clin Chim Acta 2014; 431: 66-76.

Çolak S, Erdogan MÖ, Baydin A, Afacan MA, Kati C, Duran L.
Epidemiology of organophosphate intoxication and predictors of intermediate syndrome.
Turk J Med Sci 2014; 44: 279-82.

Kim K-H, Kwon IH, Lee JY, Yeo WH, Park HY, Park KH, Cho J, Kim H, Kim GB, Park DH, Yoon YS, Kim YW.
Clinical significance of national patients sample analysis: factors affecting mortality and length of stay of organophosphate and carbamate poisoned patients.
Healthc Inform Res 2013; 19: 278-85.

Meijer M, Hamers T, Westerink RHS.
Acute disturbance of calcium homeostasis in pc12 cells as a novel mechanism of action for (sub)micromolar concentrations of organophosphate insecticides.
Neurotoxicology 2014; online early:
doi: 10.1016/j.neuro.2014.01.008:

Padmanabha TS, Gumma K, Kulkarni GP.
Study of profile of organophosphorus poisoning cases in a tertiary care hospital, North Karnataka, Bidar, India.
Int J Pharma Bio Sci 2014; 5: 332-9.

Shetye J, Surkar S, Karnik N, Mehta A.
Delayed onset neuropathy along with recurrent laryngeal nerve palsy due to organophosphate poisoning and the role of physiotherapy rehabilitation.
Indian J Crit Care Med 2014; 18: 102-4.

Chlorpyrifos

Trunnelle KJ, Bennett DH, Tulve NS, Clifton MS, Davis MD, Calafat AM, Moran R, Tancredi DJ, Hertz-Picciotto I.
Urinary pyrethroid and chlorpyrifos metabolite concentrations in northern California families and their relationship to indoor residential insecticide levels, part of the Study of Use of Products and Exposure Related Behavior (SUPERB).
Environ Sci Technol 2014; 48: 1931-9.

Diazinon

Moshiri M, Vahabzadeh M, Etemad L, Hosseinzadeh H.
Failure of intravenous lipid emulsion to reduce diazinon-induced acute toxicity: a pilot study in rats.
Iran J Pharm Res 2013; 12: 897-902.

Pizzurro DM, Dao K, Costa LG.

Astrocytes protect against diazinon- and diazoxon-induced inhibition of neurite outgrowth by regulating neuronal glutathione.
Toxicology 2014; online early:
doi: 10.1016/j.tox.2014.01.010:

Dichlorvos

Güvenç D, Aksoy A, Das YK, Atmaca E, Yavuz O.
3-nitrotyrosine levels in dichlorvos-induced neurotoxicity.
Arh Hig Rada Toksikol 2014; 19-22.

Paraoxon

Prins JM, Chao CK, Jacobson SM, Thompson CM, George KM.
Oxidative stress resulting from exposure of a human salivary gland cells to paraoxon: an *in vitro* model for organophosphate oral exposure.
Toxicol In Vitro 2014; online early:
doi: 10.1016/j.tiv.2014.01.009:

Rosenberg YJ, Gearhart J, Mao L, Jiang X, Hernandez-Abanto S.
Protection against paraoxon toxicity by an intravenous pretreatment with polyethylene-glycol-conjugated recombinant butyrylcholinesterase in macaques.
Chem Biol Interact 2014; 210: 20-5.

Paraquat and diquat

Choi S-C, Oh S, Min Y-G, Cha JY, Gil H-W, Hong S-Y.
Evaluation of exhaled nitric oxide in acute paraquat poisoning: a pilot study.
Med Sci Monit 2014; 20: 167-72.

Paraquat and diquat

Kan B, Jian X, Zhou Q, Wang J, Yu G, Sun J, Gao Y.

Effect of transforming growth factor-beta1 on acute lung injury caused by paraquat.

Mol Med Rep 2014; 9: 1232-6.

von Tobel JS, Zoia D, Althaus J, Antinori P, Mermoud J, Pak HS, Scherl A, Monnet-Tschudi F.

Immediate and delayed effects of subchronic Paraquat exposure during an early differentiation stage in 3D-rat brain cell cultures.

Toxicol Lett 2014; online early:

doi: 10.1016/j.toxlet.2014.02.001:

Wu W-P, Lai M-N, Lin C-H, Li Y-F, Lin C-Y, Wu M-J.

Addition of immunosuppressive treatment to hemoperfusion is associated with improved survival after paraquat poisoning: a nationwide study.

PLoS ONE 2014; 9: e87568.

Zhang N, Xie Y-P, Pang L, Zang X-X, Wang J, Shi D, Wu Y, Liu X-L, Wang G-H.

Paraquat increases connective tissue growth factor expression and impairs lung fibroblast proliferation and viscoelasticity.

Hum Exp Toxicol 2014; online early:

doi: 10.1177/0960327114524239:

Pyrethroid insecticides

General

Trunelle KJ, Bennett DH, Tulve NS, Clifton MS, Davis MD, Calafat AM, Moran R, Tancredi DJ, Hertz-Picciotto I.

Urinary pyrethroid and chlorpyrifos metabolite concentrations in northern California families and their relationship to indoor residential insecticide levels, part of the Study of Use of Products and Exposure Related Behavior (SUPERB).

Environ Sci Technol 2014; 48: 1931-9.

Permethrin

Lavado R, Li J, Schlenk D.

Evaluation of the stereoselective biotransformation of permethrin in human liver microsomes: contributions of cytochrome p450 monooxygenases to the formation of estrogenic metabolites.

Toxicol Lett 2014; online early:

doi: 10.1016/j.toxlet.2014.02.005:

Thallium

Li JM, Wang W, Lei S, Zhao LL, Zhou D, Xiong H.

Misdiagnosis and long-term outcome of 13 patients with acute thallium poisoning in China.

Clin Toxicol 2014; 52: 181-6.

Zinc phosphide

Hassanian-Moghaddam H, Shahnazi M, Zamani N, Bahrami-Motlagh H.

Abdominal imaging in zinc phosphide poisoning.

Emerg Radiol 2014; online early:

doi: 10.1007/s10140-014-1195-3:

CHEMICAL WARFARE, BIOLOGICAL WARFARE AND RIOT CONTROL AGENTS

Biological warfare

Ramage JG, Prentice KW, Morse SA, Carter AJ, Datta S, Drumgoole R, Gargis SR, Griffin-Thomas L, Hastings R, Masri HP, Reed MS, Sharma SK, Singh AK, Swaney E, Swanson T, Gauthier C, Toney D, Pohl J, Shakamuri P, Stuchlik O, Elder IA, Estacio PL, Garber EA, Hojvat S, Kellogg RB, Kovacs G, Stanker L, Weigel L, Hodge DR, Pillai SP.

Comprehensive laboratory evaluation of a specific lateral flow assay for the presumptive identification of abrin in suspicious white powders and environmental samples.

Biosecur Bioterror 2014; 12: 49-62.

Anthrax

Gutting B.

Deterministic models of inhalational anthrax in New Zealand white rabbits.

Biosecur Bioterror 2014; 12: 29-41.

Ricin

Thornton SL, Darracq M, Lo J, Cantrell FL.

Castor bean seed ingestions: a state-wide poison control system's experience.

Clin Toxicol 2014; online early:

doi: 10.3109/15563650.2014.892124:

Chemical warfare

Agent orange

Manh HD, Kido T, Naganuma R, Xian LS, Supratman S, Anh LT, Maruzeni S, Nishijo M, Nakagawa H, Honma S, Nakano T, Takasuga T, Nhu DD, Hung NN, Son LK.

Serum dioxin levels in Vietnamese men more than 40 years after herbicide spraying.

Environ Sci Technol 2014; online early:

doi: 10.1021/es404853h:

Nerve agents

Bailey AM, Baker SN, Baum RA, Chandler HE, Weant KA.

Being prepared: emergency treatment following a nerve agent release.

Adv Emerg Nurs J 2014; 36: 22-33.

Lee JY, Lee YH.

Development of a new method for the identification of degradation products of V-type nerve agents by liquid chromatography-tandem mass spectrometry.

J Chromatogr Sci 2014; online early:

doi: 10.1093/chromsci/bmt206:

Sarin

Hulet SW, Sommerville DR, Miller DB, Scotto JA, Muse WT, Burnett DC.

Comparison of sarin and cyclosarin toxicity by subcutaneous, intravenous and inhalation exposure in Gottingen minipigs.

Inhal Toxicol 2014; 26: 175-84.

VX

Elias S, Saphier S, Columbus I, Zafrani Y.
Polysaccharide-thickened aqueous fluoride solutions for rapid destruction of the nerve agent VX. Introducing the opportunity for extensive decontamination scenarios. *Environ Sci Technol* 2014; online early: doi: 10.1021/es4056388:

PLANTS

Abrus precatorius (Jequirity bean)

Ramage JG, Prentice KW, Morse SA, Carter AJ, Datta S, Drumgoole R, Gargis SR, Griffin-Thomas L, Hastings R, Masri HP, Reed MS, Sharma SK, Singh AK, Swaney E, Swanson T, Gauthier C, Toney D, Pohl J, Shakamuri P, Stuchlik O, Elder IA, Estacio PL, Garber EA, Hojvat S, Kellogg RB, Kovacs G, Stanker L, Weigel L, Hodge DR, Pillai SP.
Comprehensive laboratory evaluation of a specific lateral flow assay for the presumptive identification of abrin in suspicious white powders and environmental samples. *Biosecur Bioterror* 2014; 12: 49-62.

Wooten JV, Pittman CT, Blake TA, Thomas JD, Devlin JJ, Higginson RA, Johnson RC.
A case of abrin toxin poisoning, confirmed via quantitation of L-abrine (*N*-methyl-L-tryptophan) biomarker. *J Med Toxicol* 2014; online early: doi: 10.1007/s13181-013-0377-9:

Elephantopus scaber

Hiradeve SM, Rangari VD.
A review on pharmacology and toxicology of *Elephantopus scaber* Linn. *Nat Prod Res* 2014; online early: doi: 10.1080/14786419.2014.883394:

Mushrooms and other fungi

Aflatoxin

Aydin S, Sabuncuoglu S, Erkekoglu P, Sahin G, Giray BK.
Serum aflatoxin levels of the healthy adult population living in the north and south regions of Turkey. *Public Health Nutr* 2013; online early: doi: 10.1017/S1368980013002802:

Jafarian-Dehkordi A, Pourradi N.
Aflatoxin M1 contamination of human breast milk in Isfahan, Iran. *Adv Biomed Res* 2013; 2: 86.

Amanita mushrooms

Helfer AG, Meyer MR, Michely JA, Maurer HH.
Direct analysis of the mushroom poisons alpha- and beta-amanitin in human urine using a novel on-line turbulent flow chromatography mode coupled to liquid chromatography-high resolution-mass spectrometry/mass spectrometry. *J Chromatogr A* 2014; 1325: 92-8.

Ricinus communis (Castor oil plant)

Thornton SL, Darracq M, Lo J, Cantrell FL.
Castor bean seed ingestions: a state-wide poison control system's experience. *Clin Toxicol* 2014; online early: doi: 10.3109/15563650.2014.892124:

Rhododendron spp.

Harissis HV, Mavrofridis G.
"Mad honey" in medicine from antiquity to the present day. *Arch Hell Med* 2013; 30: 730-3.

Thevetia peruviana (Yellow oleander)

Pirasath S, Arulnithy K.
Yellow oleander poisoning in eastern province: an analysis of admission and outcome. *Indian J Med Sci* 2013; 67: 178-83.

ANIMALS

Fish/marine poisoning

Asakawa M, Noguchi T.
Food poisonings by ingestion of cyprinid fish. *Toxins (Basel)* 2014; 6: 539-55.

Jellyfish

Chaousis S, Smout M, Wilson D, Loukas A, Mulvenna J, Seymour J.
Rapid short term and gradual permanent cardiotoxic effects of vertebrate toxins from *Chironex fleckeri* (Australian box jellyfish) venom. *Toxicon* 2014; 80: 17-26.

Tetrodotoxin

McGeoch AT, Wilkinson I, Fry AC.
Poison arrows and pufferfish. *QJM* 2014; online early: doi: 10.1093/qjmed/hcu041:

Micro-organisms

Botulism

Leth PM.
Botulism in Greenland. *Forensic Sci Int* 2014; online early: doi: 10.1016/j.forsciint.2014.02.004:

Patel K, Cai S, Singh BR.
Current strategies for designing antidotes against botulinum neurotoxins. *Expert Opin Drug Discov* 2014; 9: 319-33.

Pifko E, Price A, Sterner S.
Infant botulism and indications for administration of botulism immune globulin. *Pediatr Emerg Care* 2014; 30: 120-4.

Scorpions

Horta CCR, de Freitas Magalhães B, Oliveira-Mendes BBR, do Carmo AO, Duarte CG, Felicori LF, Machado-de-Ávila RA, Chávez-Olortegui C, Kalapothakis E.
Molecular, immunological, and biological characterization of *Tityus serrulatus* venom hyaluronidase: new insights into its role in envenomation. *PLoS Negl Trop Dis* 2014; 8: e2693.

Pandi K, Krishnamurthy S, Srinivasaraghavan R, Mahadevan S.
Efficacy of scorpion antivenom plus prazosin versus prazosin alone for *Mesobuthus tamulus* scorpion sting envenomation in children: a randomised controlled trial. *Arch Dis Child* 2014; online early: doi: 10.1136/archdischild-2013-305483:

Pardal PPO, Ishikawa EAY, Vieira JLF, Coelho JS, Dórea RCC, Abati PAM, Quiroga MMM, Chalkidis HM.
Clinical aspects of envenomation caused by *Tityus obscurus* (Gervais, 1843) in two distinct regions of Pará state, Brazilian Amazon basin: a prospective case series. *J Venom Anim Toxins Incl Trop Dis* 2014; 20: 3.

Snake bites

General

De Oliveira EC, Fernandes CP, Sanchez EF, Rocha L, Fuly AL. Inhibitory effect of plant *Manilkara subsericea* against biological activities of *Lachesis muta* snake venom. *BioMed Res Int* 2014; 2014: 408068.

Goya K, Shimada K, Kokubu E, Yoshizawa N, Sugamata A. A case report of Mamushi bite in the hand. *Wound Repair Regen* 2014; 22: A16.

Lim H, Kang HG, Kim KH. Antivenom for snake bite in Korea. *J Korea Med Ass* 2013; 56: 1091-103.

Ramos-Cerrillo B, Balde MC, Massougbdji A, Chippaux JP, Stock RP. Detection and semiquantitation of venom and antivenom in the blood of twenty patients with evident neurotoxic envenomation in Guinea. *Am J Trop Med Hyg* 2013; 89: 441.

Elapidae

Bawaskar H, Bawaskar P, Bawaskar PH. Premonitory signs and symptoms of envenoming by common krait (*Bungarus caeruleus*). *Trop Doct* 2014; online early: doi: 10.1177/0049475514521802:

de Carvalho ND, Garcia RC, Kleber FA, Rodrigo BD, Carlos CA, Maria D, Lebrun I, Mendes CS, Castro AS, Marcourakis T, Sandoval MR. Neurotoxicity of coral snake phospholipases A2 in cultured rat hippocampal neurons. *Brain Res* 2014; 1552: 1-16.

Hung DZ, Lin JH, Mo JF, Huang CF, Liao MY. Rapid diagnosis of *Naja atra* snakebites. *Clin Toxicol* 2014; 52: 187-91.

Ramos-Cerrillo B, Balde MC, Massougbdji A, Chippaux JP, Stock RP. Detection and semiquantitation of venom and antivenom in the blood of twenty patients with evident neurotoxic envenomation in Guinea. *Am J Trop Med Hyg* 2013; 89: 441.

Yap MK, Fung SY, Tan KY, Tan NH. Proteomic characterization of venom of the medically important Southeast Asian *Naja sumatrana* (Equatorial spitting cobra). *Acta Trop* 2014; 133: 15-25.

Crotalinae (Pit vipers)

Bush SP, Seifert SA, Oakes J, Smith SD, Phan TH, Pearl SR, Reibling ET. Continuous IV Crotalidae Polyvalent Immune Fab (Ovine) (FabAV) for selected North American rattlesnake bite patients. *Toxicon* 2013; 69: 29-37.

Fernández Culma M, Andrés Pereañez J, Núñez R, V, Lomonte B. Snake venomomics of *Bothrops punctatus*, a semi-arboreal pitviper species from Antioquia, Colombia. *PeerJ* 2014; 2: e246.

Goya K, Shimada K, Kokubu E, Yoshizawa N, Sugamata A. A case report of Mamushi bite in the hand. *Wound Repair Regen* 2014; 22: A16.

Gutiérrez JM, Herrera C. The analgesics morphine and tramadol do not alter the acute toxicity induced by *Bothrops asper* snake venom in mice. *Toxicon* 2014; 81: 54-7.

Sieber M, Bosch B, Hanke W, de Lima VM. Membrane-modifying properties of Crostamine, a small peptide-toxin from *Crotalus durissus terrificus* venom. *Biochim Biophys Acta* 2013; 1840: 945-50.

Spano SJ, Vohra R, Macias F. Long-term complications of rattlesnake bites: a telephone survey from Central California. *Wilderness Environ Med* 2014; online early: doi: 10.1016/j.wem.2013.11.004:

Sunagar K, Undheim EA, Scheib H, Gren EC, Cochran C, Person CE, Koludarov I, Kelln W, Hayes WK, King GF, Antunes A, Fry BG. Intraspecific venom variation in the medically significant Southern Pacific Rattlesnake (*Crotalus oreganus helleri*): Biodiscovery, clinical and evolutionary implications. *J Proteomics* 2014; 99: 68-83.

Viperinae (True vipers)

Babaie M, Salmanizadeh H, Zolfagharian H. Blood coagulation induced by Iranian saw-scaled viper (*Echis carinatus*) venom: identification, purification and characterization of a prothrombin activator. *Iran J Basic Med Sci* 2013; 16: 1145-50.

Niraj M, Jayaweera JL, Kumara IWGD, Tissera NWAJ. Acute myocardial infarction following a Russell's viper bite: a case report. *Int Arch Med* 2013; 6: 7.

Savanur A, Ali SA, Munir I, Abbasi A, Alam M, Shaikh HA. Pharmacological and biochemical studies on the venom of a clinically important viper snake (*Echis carinatus*) of Pakistan. *Toxicon* 2014; 80: 47-57.

Spiders

Levin C, Bonstein L, Lauterbach R, Mader R, Rozemman D, Koren A. Immune-mediated mechanism for thrombocytopenia after *Loxosceles* spider bite. *Pediatr Blood Cancer* 2014; online early: doi: 10.1002/pbc.24959:

INDEX

Abrus precatorius.....	41
Acetaminophen.....	29
Acetylcysteine.....	20
Acetylene.....	31
Aflatoxin.....	41

Agent orange.....	40
Air pollution.....	30
Alcohol.....	32
Alpha methyltryptamine.....	22
Alprazolam.....	25

Aluminium	36	Cyanide	32
Aluminium phosphide	38	Cyclosporine.....	27
Amanita mushrooms	41	Dabigatran	23
Amfetamines	22	Dermal toxicity	12
Amiodarone	22	Designer drugs	26
Amitraz	39	Detergents	32
Amitriptyline	30	Developmental toxicology	12
Amlodipine	25	Dexpanthenol.....	33
Anaesthetics	22	Dextromethorphan	24
Analytical toxicology	10	Diacetylmorphine.....	27
Animals, general	41	Diazinon	39
Anthrax	40	Dichlorvos.....	39
Antiarrhythmics.....	22	Dietary supplements	27
Anticholinergic drugs.....	22	Dioxin	33
Anticoagulants	22	Diquat	39
Anticonvulsants.....	23	Disinfectants	33
Antidepressants	23	Disopyramide	22
Antidotes	19	Disulfiram	20
Antiemetics.....	23	Diuron	38
Antifungal drugs	23	Driving under the influence	12
Antimalarial drugs	23	Drugs, general	21
Antineoplastics.....	24	Ecstasy	22
Antipsychotics.....	24	Elapidae.....	42
Antithyroid drugs	24	Elephantopus scaber.....	41
Antituberculous drugs	24	Endosulfan	39
Antitussives	24	Epidemiology.....	13
Antivenom	20	Escitalopram	29
Antiviral drugs	25	Essential oils	33
Aristolochic acid	25	Ethanol	32
Arsenic	36	Ethnic remedies.....	27
Atropine	25	Ethylene glycol	33
Avermectin	39	Exhaust fumes	31
Baclofen	20, 25	Fish/marine poisoning.....	41
Barbiturates.....	25	Fluorouracil	24
Benzene	32	Folic acid	20
Benzodiazepines	25	Food additives.....	33
Biological warfare.....	40	Forensic toxicology	13
Biomarkers	10	Formaldehyde	33
Bisphenol A	32	Fungi	41
Body packers	11	Fungicides.....	38
Botulism	41	Gabapentin	21
Buprenorphine	28	Gamma hydroxybutyrate.....	26
Cadmium.....	36	Gasoline.....	34
Caffeine.....	25	Gliptin.....	27
Calciferol	30	Haemoperfusion	21
Calcium channel blockers.....	25	Haloperidol	24
Calcium dobesilate	25	Hemodiafiltration	21
Cannabis	25	Hepatotoxicity	14
Carbamate insecticides	38	Herbal medicines.....	27
Carbon dioxide.....	32	Herbicides.....	38
Carbon monoxide.....	32	Heroin	27
Carcinogenicity	11	Honey	33
Cardiotoxicity	11	Hydroxychloroquine.....	23
Carrageenan	33	Hydroxyurea	24
Castor oil plant	41	Hypnotics	27
Chelating agents	20	Hypoglycaemics.....	27
Chemical warfare, general	40	Ibuprofen.....	28
Chemicals, general	31	Imidazole decongestants.....	27
Chloral hydrate	27	Immunosuppressants	27
Chloropicrin	38	Inhalation toxicity.....	14
Chlorothalonil	38	Insecticides (general)	38
Chlorpyrifos	39	Insulin	27
Cholinesterase inhibitors.....	26	Iodine.....	33
Citalopram.....	29	Ioxynil	38
Clomazone	38	Iron	37
Clonazepam.....	25	Isocyanates.....	33
Cobalt	36	Isoniazid	24
Cocaine	26	Jellyfish.....	41
Codeine	28	Jequirity bean	41
Corrosives	32	Kaletra	25
Cosmetics	32	Kinetics	14
Crotalinae.....	42	Lead	37

Levamisole	27	Phthalate esters	34
Linezolid	28	Pit vipers.....	42
Lipid emulsion therapy	20	Plants, general	41
Liraglutide	27	Plasticisers	34
Lithium.....	27, 37	Poison information centres	18
Management, general	19	Poisons information	18
Manganese.....	37	Polonium.....	38
Marijuana	25	Polychlorinated biphenyls	34
MDMA	22	Polycyclic aromatic hydrocarbons	34
Medication errors	15	Polymorphisms	18
Mefloquine	23	Pregabalin.....	23
Melamine.....	33	Propofol	27
Mercury.....	37	Psychiatric aspects	18
Metals, general	36	Pyrethroid insecticides, general	40
Metformin.....	27	Pyrimethamine	23
Methadone	28	Radiation	35
Methanol	33	Reprotoxicity	18
Methotrexate	24	Rhododendron spp.	41
Methoxetamine	27	Ricin	40
Methoxychlor	39	Ricinus communis.....	41
Methylene blue	20	Risk assessment	19
Methylphenidate	28	Risperidone	24
Methylthioninium chloride.....	20	Rivaroxaban	23
Metoclopramide	23	Rivastigmine	26
Metyrapone	21	Salicylate	29
Mianserin.....	23	Sarin.....	40
Micro-organisms	41	Scopolamine	22
Milrinone	30	Scorpions	41
Monoamine oxidase inhibitors	28	Selenium.....	38
Monoclonal antibodies	21	Sevoflurane.....	22
Mushrooms.....	41	Sildenafil.....	29
Naloxone.....	21	Smoke	35
Nanoparticles.....	33	Snake bites	42
Neem oil.....	34	Sodium thiosulfate.....	29
Neonicotinoids	39	Spiders	42
Nephrotoxicity	15	SSRIs.....	29
Nerve agents	40	Steroids	29
Neurotoxicity	15	Styrene.....	35
Nicotine.....	28	Substance abuse	29
Nilotinib.....	21	Suicide.....	19
Nitrates	34	Talc	35
NSAIDs	28	Tertiary butyl acetate.....	35
Occupational toxicology	16	Testosterone	29
Ocular toxicity.....	17	Tetrabromobisphenol A.....	35
Opioid maintenance therapy	21	Tetrachloroethylene.....	35
Opioids.....	28	Tetrodotoxin	41
Organochlorine pesticides, general.....	39	Thallium.....	38, 40
Organophosphorus insecticides, general	39	Thevetia peruviana	41
Ornidazole.....	29	Thiopurine	30
Oxazepam	21	Tobacco.....	35
Oximes.....	20	Toxicology, general	10
Oxycodone	28	Tramadol	29
Paediatric toxicology	17	Tricyclic antidepressants	30
Paliperidone.....	24	True vipers.....	42
Palmitic acid	34	Valproate	23
Paracetamol	29	Vasodilators	30
Paraoxon.....	39	Viperinae	42
Paraphenylenediamine	34	Vitamins.....	30
Paraquat	39	VX	41
Perfluorinated compounds	34	Warfarin	23
Permethrin	40	Water pollution.....	31
Pesticides and cancer	38	Welding fumes	35
Pesticides, general	38	Wollastonite	35
Petrol	34	Yellow oleander.....	41
Phenobarbital	25	Zinc phosphide.....	40
Phosphorus	34		