Current Awareness in Clinical Toxicology

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CURRENT AWARENESS PAPERS OF THE MONTH

Efficiency of acidemia correction on intermittent versus continuous hemodialysis in acute methanol poisoning

Zakharov S, Pelclova D, Navratil T, Belacek J, Latta J, Pisar M, Rulisek J, Leps J, Zidek P, Kucera C, Bocek R, Mazur M, Belik Z, Chalupa J, Talafa V, Kodras K, Nalos D, Sedlak C, Senkyrik M, Smid J, Salek T, Roberts DM, Hovda KE. Clin Toxicol 2016; online early:

doi: 10.1080/15563650.2016.1250901:

Context

Acidemia is a marker of prognosis in methanol poisoning, as well as compounding formate-induced cytotoxicity. Prompt correction of acidemia is a key treatment of methanol toxicity and methods to optimize this are poorly defined.

Objective

We studied the efficiency of acidemia correction by intermittent hemodialysis (IHD) and continuous renal replacement therapy (CRRT) in a mass outbreak of methanol poisoning.

Methods

The study was designed as observational cohort study. The mean time for an increase of 1 mmol/L HCO_3^-, 0.01 unit arterial blood pH, and the total time for correction of HCO_3^- were determined in IHD- and CRRT-treated patients.

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Results

Data were obtained from 18 patients treated with IHD and 13 patients treated with CRRT. At baseline, CRRT group was more acidemic than IHD group (mean arterial pH 6.79 ± 0.10 versus 7.05 ± 0.10; p = 0.001). No association was found between the rate of acidemia correction and age, weight, serum methanol, lactate, formate, and glucose on admission. The time to HCO_3^- correction correlated with arterial blood pH (r= –0.511; p = 0.003) and creatinine (r = 0.415; p = 0.020). There was association between the time to HCO_3^- correction and dialysate/effluent and blood flow rates (r= –0.738; p < 0.001 and r= –0.602; p < 0.001, correspondingly).

The mean time for HCO_3^- to increase by 1 mmol/L was 12 ± 2 min for IHD versus 34 ± 8 min for CRRT (p < 0.001), and the mean time for arterial blood pH to increase 0.01 was 7 ± 1 mins for IHD versus 11 ± 4 min for CRRT (p = 0.024). The mean increase in HCO_3^- was 5.67 ± 0.90 mmol/L/h for IHD versus 2.17 ± 0.74 mmol/L/h for CRRT (p < 0.001).

Conclusions

Our study supports the superiority of IHD over CRRT in terms of the rate of acidemia correction.

Full text available from: http://dx.doi.org/10.1080/15563650.2016.1250901

Adverse events associated with pediatric exposures to dextromethorphan

Paul IM, Reynolds KM, Kauffman RE, Banner W, Bond GR, Palmer RB, Burnham RI, Green JL. Clin Toxicol 2016; online early:

doi: 10.1080/15563650.2016.1240803:

Study objective

Dextromethorphan is the most common over-the-counter (OTC) antitussive medication. We sought to characterize adverse events associated with dextromethorphan in children <12 years old from a surveillance program of OTC cough/cold medication exposures.

Methods

This is a retrospective case series of oral exposures to dextromethorphan with ≥1 adverse event from multiple U.S. sources (National Poison Data System, FDA Adverse Event Reporting System, manufacturer safety reports, news/media, medical literature) reported between 2008 and 2014. An expert panel determined the relationship between exposure and adverse events, estimated dose ingested, intent of exposure, and identified contributing factors to exposure.

Results

1716 cases contained ≥1 adverse event deemed at least potentially related to dextromethorphan; 1417 were single product exposures. 773/1417 (55%) involved only one single-ingredient dextromethorphan product (dextromethorphan-only). Among dextromethorphan-only cases, 3% followed ingestion of a therapeutic dose; 78% followed an overdose. 69% involved unsupervised self-administration and 60% occurred in children <4 years old. No deaths or pathologic dysrhythmias occurred. Central nervous system [e.g., ataxia (N = 420)] and autonomic symptoms [e.g., tachycardia (N = 224)] were the most common adverse events. Flushing and/or urticarial rash occurred in 18.1% of patients. Dystonia occurred in 5.4%.

Conclusions

No fatalities were identified in this multifaceted surveillance program following a dextromethorphan-only ingestion. Adverse events were predominantly associated with overdose, most commonly affecting the central nervous and autonomic systems.

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Clinical effects of unintentional pediatric buprenorphine exposures: experience at a single tertiary care center

Toce MS, Burns MM, O'Donnell KA. Clin Toxicol 2016; online early: doi: 10.1080/15563650.2016.1244337:

Context

Exploratory buprenorphine ingestions in young children have been associated with clinically significant toxicity. However, detailed data on the clinical presentation and management of these patients are lacking. In an attempt to obtain more comprehensive data, we sought to examine a single center cohort of patients with report of buprenorphine exposure and provide descriptive analysis of rates of respiratory depression, time to respiratory depression, interventions, disposition, and outcomes.

Study design

We performed a retrospective cohort study at a single pediatric tertiary care center of children between the age of 6 months and 7 years of age hospitalized between 1 January 2006 and 1 September 2014 with report of buprenorphine or buprenorphine/naloxone exposure. Patients with possible exposure to more than one agent were excluded. We extracted clinical findings, including time to respiratory depression, interventions, and disposition from the medical record.

Results

Eighty-eight patients met the inclusion criteria. Seven patients were excluded. The median age was 24 months [IQR 18–30]. 20 patients (23%) received activated charcoal while 48 (55%) were treated with naloxone. 36 (41%) patients were admitted to the ICU. Observed clinical effects included respiratory depression (83%), oxygen saturation by pulse oximetry (SpO_2) < 93% (28%), depressed mental status (80%), miosis (77%), and emesis (45%). Median time from exposure to respiratory depression was 263 min [IQR 105–486]. The median hospital length of stay was 22 h [IQR 20–26] and was positively associated with estimated exposure dose (p = 0.002).

Conclusion

Pediatric patients exposed to buprenorphine are likely to exhibit signs and symptoms of opioid toxicity, including respiratory depression, altered mental status and miosis. Although the majority of patients developed signs of clinical toxicity within 8 h of reported exposure, the optimum duration of monitoring remains unclear.

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Coagulation parameters in copperhead compared to other *Crotalinae* envenomation: secondary analysis of the $F(ab')_2$ versus Fab antivenom trial

Gerardo CJ, Vissoci JRN, Brown MWJ, Bush SP. Clin Toxicol 2016; online early: doi: 10.1080/15563650.2016.1250275:

Context

Coagulation derangements in copperhead envenomation are considered less severe than other crotaline envenomations, resulting in recommendations to limit both coagulation testing and antivenom treatment. A prospective, blinded, multicenter, randomized clinical trial comparing the effectiveness of $F(ab')_2$ versus Fab antivenom in crotaline envenomation patients was completed in 2011. We determined the difference between coagulation parameters in copperhead compared to other crotaline envenomations.

Methods

We performed a post hoc analysis comparing the coagulation parameters (platelets and

fibrinogen) prospectively obtained in the aforementioned trial. All the patients received antivenom in one of three treatment arms [$F(ab')_2$ with maintenance, $F(ab')_2$ with placebo maintenance, or Fab with maintenance]. Coagulation parameters were measured at pretreatment baseline, during acute hospitalization, day 5, day 8, and day 15 post-envenomation. Mean platelet count and fibrinogen levels for the copperhead and other crotaline groups were compared. The platelet and fibrinogen point estimates with distribution are presented graphically over time.

Results

122 patients were enrolled in the study. There were 22 patients with copperhead envenomation, 93 with other crotaline envenomations, and 7 that could not be definitively determined. The mean age was 42 (SD 20) years. There was a minor pretreatment difference in mean baseline platelet count between the copperhead group (246 × 109/L 95% CI 215, 277) compared to other crotaline envenomation patients (184 × 109/L 95% CI 167, 202). There was a modest pretreatment difference in mean fibrinogen level between copperhead patients (345 mg/dL 95% CI 277, 415) and other crotaline patients (261mg/dL 95% CI 241, 281). Pretreatment coagulation parameter means were normal and converged post treatment.

Conclusion

On average, copperhead envenomations have less severe initial coagulation derangements. However, in mild envenomations, differences in laboratory values are minimal and there is substantial variation in individual patients regardless of species. Species alone should not be used to determine the need for laboratory testing or treatment in crotaline snakebite.

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Can a serum acetaminophen concentration obtained less than 4 hours post-ingestion determine which patients do not require treatment with acetylcysteine?

Yarema MC, Green JP, Sivilotti ML, Johnson DW, Nettel-Aguirre A, Victorino C, Spyker DA, Rumack BH. Clin Toxicol 2016; online early: doi: 10.1080/15563650.2016.1247959:

Context

The interpretation of acetaminophen concentrations obtained prior to 4 hours after an acute, single overdose remains unclear. Patient care decisions in the Emergency Department could be accelerated if such concentrations could reliably exclude the need for treatment.

Objective

To determine the agreement between a serum acetaminophen concentration obtained less than 4 hours after an acute ingestion and the subsequent 4 + hour concentration, and the predictive accuracy of early concentrations for identifying patients with potentially toxic exposures.

Methods

A secondary analysis of patients admitted for acetaminophen poisoning at one of the 34 hospitals in eight Canadian cities from 1980 to 2005. We examined serum acetaminophen concentrations obtained less than 4 hours post-ingestion, and again 4 or more hours post-ingestion. For the diagnostic accuracy analysis, we specified a cutpoint of 100 μg/mL (662μmol/L) obtained between 2 and 4 hours and a subsequent 4 to 20 hour acetaminophen concentration above the nomogram treatment line of 150 μg/mL (993 μmol/L).

Results

Of 2454 patients identified, 879 (36%) had a subsequent acetaminophen concentration

above the nomogram treatment line. The 2-4 hour concentration demonstrated a sensitivity of 0.96 [95% CI; 0.94, 0.97] and a negative likelihood ratio of 0.070 [0.048, 0.10]. Coingested opioids reduced this sensitivity to 0.91 [0.83, 0.95], and antimuscarinics to 0.86 [0.72, 0.94]. Only very low to undetectable acetaminophen concentrations prior to 4 hours reliably excluded a subsequent concentration over the treatment line.

Conclusions

Applying an acetaminophen concentration cutpoint of 100 μg/mL (662 μmol/L) at 2–4 hours after an acute ingestion as a threshold for repeat testing and/or treatment would occasionally miss potentially toxic exposures. Absorption of acetaminophen is only slightly delayed by coingested opioids or antimuscarinics. Our analysis validates the practice of not retesting when the first post-ingestion acetaminophen concentration is below the lower limit of quantification.

Full text available from: http://dx.doi.org/10.1080/15563650.2016.1247959

Circulating acetaminophen metabolites are toxicokinetic biomarkers of acute liver injury

Vliegenthart ADB, Kimmitt RA, Seymour JH, Homer NZ, Clarke JI, Eddleston M, Gray A, Wood DM, Dargan PI, Cooper JG, Antoine DJ, Webb DJ, Lewis SC, Bateman DN, Dear JW. Clin Pharmacol Ther 2016; online early: doi: 10.1002/cpt.541:

Abstract and full text available from: http://dx.doi.org/10.1002/cpt.541

Incidence and clinical course of left ventricular systolic dysfunction in patients with carbon monoxide poisoning

Lee J-H, Kim H-S, Park J-H, Kim MS, Sun BJ, Ryu S, Kim SS, Jin SA, Kim JH, Choi SW, Jeong J-O, Kwon I-S, Seong I-W. Korean Circ J 2016; 46: 665-71.

Abstract and full text available from: http://dx.doi.org/10.4070/kcj.2016.46.5.665

Effects of acute carbon monoxide poisoning on ECG and echocardiographic parameters in children

Ozyurt A, Karpuz D, Yucel A, Tosun MD, Kibar AE, Hallioglu O. Cardiovasc Toxicol 2016; online early: doi: 10.1007/s12012-016-9389-4:

Abstract and full text available from: http://dx.doi.org/10.1007/s12012-016-9389-4

Central nervous system toxicity of mefenamic acid overdose compared to other NSAIDs: an analysis of cases reported to the United Kingdom National Poisons Information Service

Kamour A, Crichton S, Cooper G, Lupton DJ, Eddleston M, Vale JA, Thompson JP, Thomas SHL. Br J Clin Pharmacol 2016; online early: doi: 10.1111/bcp.13169:

Abstract and full text available from: http://dx.doi.org/10.1111/bcp.13169

Acute occupational pesticide-related illness and injury – United States, 2007–2011

Calvert GM, Beckman J, Prado JB, Bojes H, Schwartz A, Mulay P, Leinenkugel K, Higgins S, Lackovic M, Waltz J, Stover D, Moraga-McHaley S. MMWR Morb Mortal Wkly Rep 2016; 63: 11-6.

Abstract and full text available from: http://dx.doi.org/10.15585/mmwr.mm6355a3

Glyphosate rodent carcinogenicity bioassay expert panel review

Williams GM, Berry C, Burns M, de Camargo JLV, Greim H. Crit Rev Toxicol 2016; 46 Supplement 1: 44-55.

Abstract and full text available from: http://dx.doi.org/10.1080/10408444.2016.1214679

A review of the carcinogenic potential of glyphosate by four independent expert panels and comparison to the IARC assessment

Williams GM, Aardema M, Acquavella J, Berry C, Brusick D, Burns MM, de Camargo JL, Garabrant D, Greim HA, Kier LD, Kirkland DJ, Marsh G, Solomon KR, Sorahan T, Roberts A, Weed DL. Crit Rev Toxicol 2016; 46 Supplement 1: 3-20.

Abstract and full text available from: http://dx.doi.org/10.1080/10408444.2016.1214677

Sarin (GB, O-isopropyl methylphosphonofluoridate) neurotoxicity: critical review

Abou-Donia MB, Siracuse B, Gupta N, Sobel Sokol A. Crit Rev Toxicol 2016; online early: doi: 10.1080/10408444.2016.1220916:

Abstract and full text available from: http://dx.doi.org/10.1080/10408444.2016.1220916

A Swedish population-based study of adverse birth outcomes among pregnant women treated with buprenorphine or methadone: preliminary findings

Wurst KE, Zedler BK, Joyce AR, Sasinowski M, Murrelle EL. Subst Abus 2016; 10: 89-97.

Abstract and full text available from: http://dx.doi.org/10.4137/SART.S38887

Prenatal selective serotonin reuptake inhibitor use and the risk of autism spectrum disorder in children: a systematic review and meta-analysis

Kaplan YC, Keskin-Arslan E, Acar S, Sozmen K. Reprod Toxicol 2016; 66: 31-43.

Abstract and full text available from: http://dx.doi.org/10.1016/j.reprotox.2016.09.013

TOXICOLOGY

General

Anadón A.
Perspectives in veterinary pharmacology and toxicology.
Front Vet Sci 2016; 3: 82.

Bhatia M.
Understanding toxicology: mechanisms and applications.
Cell Biol Toxicol 2016; online early: doi: 10.1007/s10565-016-9363-8:

Brøsen K, Andersen SE, Borregaard J, Christensen HR, Christensen PM, Dalhoff KP, Damkier P, Hallas J, Heisterberg J, Jessen N, Jürgens G, Kampmann JP, Laursen BE, Laursen T, Nielsen LP, Poulsen BK, Poulsen HE, Andersen LV, Senderovitz T, Sonne J.
Clinical pharmacology in Denmark in 2016 – 40 years with the Danish society of clinical pharmacology and 20 years as a medical speciality.
Basic Clin Pharmacol Toxicol 2016; online early: doi: 10.1111/bcpt.12681:

Wong A, Stolbach A, Dawson AH, Vohra R.
The impact of online toxicology training on Fijian emergency doctors' knowledge: the Global Educational Toxicology Uniting Project (GETUP).
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1253848:

Analytical toxicology

Alves A, Koppen G, Vanermen G, Covaci A, Voorspoels S.
Long-term exposure assessment to phthalates: how do nail analyses compare to commonly used measurements in urine.
J Chromatogr B Biomed Sci Appl 2016; 1036-1037: 124-35.

Alves V, Conceição C, Gonçalves J, Teixeira HM, Câmara JS.
Improved analytical approach based on QuECHERS/UHPLC-PDA for quantification of fluoxetine, clomipramine and their active metabolites in human urine samples.
J Anal Toxicol 2016; online early:
doi: 10.1093/jat/bkw077:

Baz-Lomba JA, Salvatore S, Gracia-Lor E, Bade R, Castiglioni S, Castrignanò E, Causanilles A, Hernandez F, Kasprzyk-Hordern B, Kinyua J, McCall A-K, van Nuijs A, Ort C, Plósz BG, Ramin P, Reid M, Rousis NI, Ryu Y, de Voogt P, Bramness J, Thomas K.
Comparison of pharmaceutical, illicit drug, alcohol, nicotine and caffeine levels in wastewater with sale, seizure and consumption data for 8 European cities.
BMC Public Health 2016; 16: 1035.

Borg D, Tverdovsky A, Stripp R.
A fast and comprehensive analysis of 32 synthetic cannabinoids using agilent triple quadrupole LC-MS-MS.
J Anal Toxicol 2016; online early:
doi: 10.1093/jat/bkw104:

Boumba VA, Rallis G, Petrikis P, Vougiouklakis T, Mavreas V.
Determination of clozapine, and five antidepressants in human plasma, serum and whole blood by gas chromatography-mass spectrometry: a simple tool for clinical and postmortem toxicological analysis.
J Chromatogr B Biomed Sci Appl 2016; 1038: 43-8.

Brown AK, Wong CS.
Simultaneous quantification of propranolol and sulfamethoxazole and major human metabolite conjugates 4-hydroxy-propranolol sulfate and sulfamethoxazole-beta-glucuronide in municipal wastewater-A framework for multiple classes of drugs and conjugates.
J Chromatogr A 2016; 1471: 34-44.

Cannaert A, Storme J, Franz F, Auwärter V, Stove CP.
Detection and activity profiling of synthetic cannabinoids and metabolites with a newly developed bio-assay.
Anal Chem 2016; online early:
doi: 10.1021/acs.analchem.6b02600:

Cohier C, Mégarbane B, Roussel O.
Illicit drugs in oral fluid: evaluation of two collection devices.
J Anal Toxicol 2016; online early: doi: 10.1093/jat/bkw100:

Cummings OT, Enders J, McIntire GL.
Response to: Fentanyl-norfentanyl concentrations during transdermal patch application: LC-MS-MS urine analysis.
J Anal Toxicol 2016; online early: doi: 10.1093/jat/bkw117:

Domingos LC, Moreira MV, Keller KM, Viana FA, Melo MM, Soto-Blanco B.
Simultaneous quantification of gatifloxacin, moxifloxacin, and besifloxacin concentrations in cornea and aqueous humor by LC-QTOF/MS after topical ocular dosing.
J Pharmacol Toxicol Methods 2016; 83: 87-93.

Glicksberg L, Bryand K, Kerrigan S.
Identification and quantification of synthetic cathinones in blood and urine using liquid chromatography-quadrupole/-time of flight (LC-Q/TOF) mass spectrometry.
J Chromatogr B Biomed Sci Appl 2016; 1035: 91-103.

Hosseini SE, Saeidian H, Amozadeh A, Naseri MT, Babri M.
Fragmentation pathways and structural characterization of organophosphorus compounds related to CWC by electron ionization and electrospray ionization tandem mass spectrometry.
Rapid Commun Mass Spectrom 2016; online early: doi: 10.1002/rcm.7757:

Kintz P, Richeval C, Jamey C, Ameline A, Allorge D, Gaulier J-M, Raul J-S.
Detection of the designer benzodiazepine metizolam, in urine and preliminary data on its metabolism.
Drug Test Anal 2016; online early: doi: 10.1002/dta.2099:

Kintz P.
Evidence of 2 populations of mephedrone abusers by hair testing. application to 4 forensic expertises.
Curr Neuropharmacol 2016; online early: PMID:27784226:

Kulig K.
Interpretation of workplace tests for cannabinoids.
J Med Toxicol 2016; online early: doi: 10.1007/s13181-016-0587-z:

Lee D, Chronister CW, Broussard WA, Utley-Bobak SR, Schultz DL, Vega RS, Goldberger BA.
Illicit fentanyl-related fatalities in Florida: toxicological findings.
J Anal Toxicol 2016; 40: 588-94.

Michely JA, Manier SK, Caspar AT, Brandt SD, Wallach J, Maurer HH.
New psychoactive substances 3-methoxyphencyclidine (3-MeO-PCP) and 3-methoxyrolicyclidine (3-MeO-PCPy): metabolic fate elucidated with rat urine and human liver preparations and their detectability in urine by GC-MS, LC-(high resolution)-MSn, and LC-high resolution-MS/MS.

Curr Neuropharmacol 2016; online early: PMID:27758707:

Ottaviani G, Cameriere R, Cippitelli M, Froldi R, Tassoni G, Zampi M, Cingolani M.
Determination of drugs of abuse in a single sample of human teeth by a gas chromatography-mass spectrometry method.
J Anal Toxicol 2016; online early: doi: 10.1093/jat/bkw105:

Ruan X, Chiravuri S, Kaye AD.
Fentanyl-norfentanyl concentrations during transdermal patch application: LC-MS-MS urine analysis.
J Anal Toxicol 2016; online early: doi: 10.1093/jat/bkw115:

Sitasuwan P, Melendez C, Marinova M, Mastrianni KR, Darragh A, Ryan E, Lee LA.
Degradation of opioids and opiates during acid hydrolysis leads to reduced recovery compared to enzymatic hydrolysis.
J Anal Toxicol 2016; 40: 601-7.

Steuer AE, Williner E, Staeheli S, Kraemer T.
Studies on the metabolism of the fentanyl-derived designer drug butyrfentanyl in human in vitro liver preparations and authentic human samples using liquid chromatography-high resolution mass spectrometry (LC-HRMS).
Drug Test Anal 2016; online early: doi: 10.1002/dta.2111:

Tré-Hardy M, Capron A, Antunes MV, Linden R, Wallemacq P.
Fast method for simultaneous quantification of tamoxifen and metabolites in dried blood spots using an entry level LC-MS/MS system.
Clin Biochem 2016; 49: 1295-8.

Biomarkers

Hemström P, Larsson A, Elfsmark L, Åstot C.
L-α-phosphatidylglycerol chlorohydrins as potential biomarkers for chlorine gas exposure.
Anal Chem 2016; 88: 9972-9.

Lynch HN, Loftus CT, Cohen JM, Kerper LE, Kennedy EM, Goodman JE.
Weight-of-evidence evaluation of associations between particulate matter exposure and biomarkers of lung cancer.
Regul Toxicol Pharmacol 2016; online early:
doi: 10.1016/j.yrtph.2016.10.006:

Vliegenthart ADB, Kimmitt RA, Seymour JH, Homer NZ, Clarke JI, Eddleston M, Gray A, Wood DM, Dargan PI, Cooper JG, Antoine DJ, Webb DJ, Lewis SC, Bateman DN, Dear JW.
Circulating acetaminophen metabolites are toxicokinetic biomarkers of acute liver injury.
Clin Pharmacol Ther 2016; online early:
doi: 10.1002/cpt.541:

Zhang A, Li H, Xiao Y, Chen L, Zhu X, Li J, Ma L, Pan X, Chen W, He Z.
Aberrant methylation of nucleotide excision repair genes is associated with chronic arsenic poisoning.
Biomarkers 2016; online early:
doi: 10.1080/1354750X.2016.1217933:

Carcinogenicity

Albertini RJ, Kaden DA.
Do chromosome changes in blood cells implicate formaldehyde as a leukemogen?
Crit Rev Toxicol 2016; online early:
doi: 10.1080/10408444.2016.1211987:

Andujar P, Lacourt A, Brochard P, Pairon J-C, Jaurand M-C, Jean D.
Five years update on relationships between malignant pleural mesothelioma and exposure to asbestos and other elongated mineral particles.
J Toxicol Environ Health B Crit Rev 2016; 19: 151-72.

Baumann F, Carbone M.
Environmental risk of mesothelioma in the United States: an emerging concern—epidemiological issues.
J Toxicol Environ Health B Crit Rev 2016; 19: 231-49.

Giulivo M, Lopez de Alda M, Capri E, Barceló D.
Human exposure to endocrine disrupting compounds: their role in reproductive systems, metabolic syndrome and breast cancer. a review.
Environ Res 2016; 151: 251-64.

Lemen RA.
Mesothelioma from asbestos exposures: epidemiologic patterns and impact in the United States.
J Toxicol Environ Health B Crit Rev 2016; 19: 250-65.

McClellan RO.
Evaluating the potential carcinogenic hazard of glyphosate.
Crit Rev Toxicol 2016; 46 Supplement 1: 1-2.

Mérida-Ortega Á, Hernández-Alcaraz C, Hernández-Ramírez RU, García-Martínez A, Trejo-Valdivia B, Salinas-Rodríguez A, Svensson K, Cebrián ME, Franco-Marina F, López-Carrillo L.
Phthalate exposure, flavonoid consumption and breast cancer risk among Mexican women.
Environ Int 2016; 96: 167-72.

Soeberg MJ, Leigh J, van Zandwijk N.
Malignant mesothelioma in Australia 2015: current incidence and asbestos exposure trends.
J Toxicol Environ Health B Crit Rev 2016; 19: 173-89.

Solomon KR.
Glyphosate in the general population and in applicators: a critical review of studies on exposures.
Crit Rev Toxicol 2016; 46 Supplement 1: 21-7.

Stammler L, Uhl A, Mayer B, Keller F.
Renal effects and carcinogenicity of occupational exposure to uranium: a meta-analysis.
Nephron Extra 2016; 6: 1-11.

Williams GM, Aardema M, Acquavella J, Berry C, Brusick D, Burns MM, de Camargo JL, Garabrant D, Greim HA, Kier LD, Kirkland DJ, Marsh G, Solomon KR, Sorahan T, Roberts A, Weed DL.
A review of the carcinogenic potential of glyphosate by four independent expert panels and comparison to the IARC assessment.
Crit Rev Toxicol 2016; 46 Supplement 1: 3-20.

Williams GM, Berry C, Burns M, de Camargo JLV, Greim H.
Glyphosate rodent carcinogenicity bioassay expert panel review.
Crit Rev Toxicol 2016; 46 Supplement 1: 44-55.

Cardiotoxicity

Altheeb Z, Alziadat M, Shamoon F.
Phenytoin in treatment of methadone-induced Torsades de Pointes: a case report.
Am J Ther 2016; online early:
doi: 10.1097/MJT.0000000000000523:

Anderson RJ, Corbett B, Ly BT.
A case of acute pericarditis following intravenous injection of crushed morphine tablets.

J Psychoactive Drugs 2016; online early:
doi: 10.1080/02791072.2016.1242028:

Bazoukis G, Spiliopoulou A, Mourouzis K, Grigoropoulou P, Yalouris A.
Non-cardiogenic pulmonary edema, rhabdomyolysis and myocardial injury following heroin inhalation: a case report.
Hippokratia 2016; 20: 84-7.

Izumi-Nakaseko H, Nakamura Y, Cao X, Wada T, Ando K, Sugiyama A.
Assessment of safety margin of an antipsychotic drug haloperidol for Torsade de Pointes using the chronic atrioventricular block dogs.
Cardiovasc Toxicol 2016; online early:
doi: 10.1007/s12012-016-9388-5:

Kang KS, Kim HI, Kim OH, Cha KC, Kim H, Lee KH, Hwang SO, Cha YS.
Clinical outcomes of adverse cardiovascular events in patients with acute dapsone poisoning.
Clin Exp Emerg Med 2016; 3: 41-5.

Lee J-H, Kim H-S, Park J-H, Kim MS, Sun BJ, Ryu S, Kim SS, Jin SA, Kim JH, Choi SW, Jeong J-O, Kwon I-S, Seong I-W.
Incidence and clinical course of left ventricular systolic dysfunction in patients with carbon monoxide poisoning.
Korean Circ J 2016; 46: 665-71.

Ozyurt A, Karpuz D, Yucel A, Tosun MD, Kibar AE, Hallioglu O.
Effects of acute carbon monoxide poisoning on ECG and echocardiographic parameters in children.
Cardiovasc Toxicol 2016; online early:
doi: 10.1007/s12012-016-9389-4:

Rivers ZT, Oostra DR, Westholder JS, Vercellotti GM.
Romidepsin-associated cardiac toxicity and ECG changes: a case report and review of the literature.
J Oncol Pharm Pract 2016; online early:
doi: 10.1177/1078155216673229:

Runowski D, Brzezinska M, Kowalczyk M, Grenda R.
Severe acute cardiotoxicity following two intravenous doses of cyclophosphamide in an adolescent treated for rapidly progressive glomerulonephritis.
Kardiol Pol 2016; 74: 1027.

Tak S, Lakhotia M, Gupta A, Sagar A, Bohra G, Bajari R.
Aconite poisoning with arrhythmia and shock.
Indian Heart J 2016; 68 Supplement 2: S207-S209.

Vyas A, Bachani N, Thakur H, Lokhandwala Y.
Digitalis toxicity: ECG vignette.
Indian Heart J 2016; 68 Supplement 2: S223-S225.

Dermal toxicity

Huerth KA, Hawkes JE, Meyer LJ, Powell DL.
The scourge of the spurge family-An imitator of Rhus dermatitis: a case report and literature review.
Dermatitis 2016; online early:
doi: 10.1097/DER.0000000000000237:

Reynoso-von Drateln C, Gómez-Hernández N, Rodríguez-Martínez N, Torres-Lozano C.
Recurrent toxic epidermal necrolysis syndrome: a report of two cases.
Drug Saf Case Rep 2016; 3: 9.

Zahir A, Kindred C, Blömeke B, Goebel C, Gaspari AA.
Tolerance to a hair dye product containing 2-methoxy-methyl-p-phenylenediamine in an ethnically diverse population of p-phenylenediamine-allergic individuals.
Dermatitis 2016; online early:
doi: 10.1097/DER.0000000000000230:

Developmental toxicology

Alexander PG, Clark KL, Tuan RS.
Prenatal exposure to environmental factors and congenital limb defects.
Birth Defects Res C Embryo Today Rev 2016; 108: 243-73.

Foster WG, Evans JA, Little J, Arbour L, Moore A, Sauve R, Andrés León J, Luo W.
Human exposure to environmental contaminants and congenital anomalies: a critical review.
Crit Rev Toxicol 2016; online early:
doi: 10.1080/10408444.2016.1211090:

Kaplan YC, Keskin-Arslan E, Acar S, Sozmen K.
Prenatal selective serotonin reuptake inhibitor use and the risk of autism spectrum disorder in children: a systematic review and meta-analysis.
Reprod Toxicol 2016; 66: 31-43.

McCarthy JJ, Leamon MH, Finnegan LP, Fassbender C.
Opioid dependence and pregnancy: minimizing stress on the fetal brain.
Am J Obstet Gynecol 2016; online early:
doi: 10.1016/j.ajog.2016.10.003:

Nie Q, Su B, Wei J.
Neurological teratogenic effects of antiepileptic drugs during pregnancy.
Exp Ther Med 2016; 12: 2400-4.

Pagé-Larivière F, Tremblay A, Campagna C, Rodriguez MJ, Sirard M-A.
Low concentrations of bromodichloromethane induce a toxicogenomic response in porcine embryos in vitro.
Reprod Toxicol 2016; 66: 44-55.

Tsubokura Y, Hasegawa R, Aso S, Kobayashi T, Koga T, Hoshuyama S, Oshima Y, Miyata K, Kusune Y, Muroi T, Hashizume N, Inoue Y, Ajimi S, Furukawa K.
Combined repeated-dose and reproductive/developmental toxicity screening test of 1-*tert*-butoxy-4-chlorobenzene in rats.
Drug Chem Toxicol 2016; online early:
doi: 10.1080/01480545.2016.1236265:

Ueker ME, Silva VM, Moi GP, Pignati WA, Mattos IE, Silva AMC.
Parenteral exposure to pesticides and occurence of congenital malformations: hospital-based case-control study.
BMC Pediatr 2016; 16: 125.

Wurst KE, Zedler BK, Joyce AR, Sasinowski M, Murrelle EL.
A Swedish population-based study of adverse birth outcomes among pregnant women treated with buprenorphine or methadone: preliminary findings.
Subst Abus 2016; 10: 89-97.

Driving under the influence of alcohol and other drugs

Bondallaz P, Favrat B, Chtioui H, Fornari E, Maeder P, Giroud C.
Cannabis and its effects on driving skills.
Forensic Sci Int 2016; 268: 92-102.

Mitra B, Charters KE, Spencer JC, Fitzgerald MC, Cameron PA.

Alcohol intoxication in non-motorised road trauma.
Emerg Med Australas 2016; online early:
doi: 10.1111/1742-6723.12682:

Epidemiology

Baumann F, Carbone M.
Environmental risk of mesothelioma in the United States: an emerging concern—epidemiological issues.
J Toxicol Environ Health B Crit Rev 2016; 19: 231-49.

Budnitz DS, Lovegrove MC, Sapiano MR, Mathew J, Kegler SR, Geller AI, Hampp C.
Notes from the field: Pediatric emergency department visits for buprenorphine/naloxone ingestion – United States, 2008–2015.
MMWR Morb Mortal Wkly Rep 2016; 65: 1148-9.

Calvert GM, Beckman J, Prado JB, Bojes H, Schwartz A, Mulay P, Leinenkugel K, Higgins S, Lackovic M, Waltz J, Stover D, Moraga-McHaley S.
Acute occupational pesticide-related illness and injury - United States, 2007-2011.
MMWR Morb Mortal Wkly Rep 2016; 63: 11-6.

Ganem VJ, Mora AG, Nnamani N, Bebarta VS.
A 3-year comparison of overdoses treated in a military emergency department- Complications, admission rates, and health care resources consumed.
Mil Med 2016; 181: 1281-6.

Ghane T, Behmanesh Y, Khazei F.
Annual report of drug and poison information in Iran from March 2012 to March 2013.
Acta Med Iran 2016; 54: 525-9.

Indu TH, Raja D, Ponnusankar S.
Toxicoepidemiology of acute poisoning cases in a secondary care hospital in rural South India: a 5-year analysis.
J Postgrad Med 2016; 62: 48-9.

Kamour A, Crichton S, Cooper G, Lupton DJ, Eddleston M, Vale JA, Thompson JP, Thomas SHL.
Central nervous system toxicity of mefenamic acid overdose compared to other NSAIDs: an analysis of cases reported to the United Kingdom National Poisons Information Service.
Br J Clin Pharmacol 2016; online early:
doi: 10.1111/bcp.13169:

Keller B, Faciano A, Tsega A, Ehrlich J.
Epidemiologic characteristics of children with blood lead levels ≥45 μg/dL.
J Pediatr 2016; online early:
doi: 10.1016/j.jpeds.2016.09.017:

Menon JC, Joseph JK, Jose MP, Dhananjaya BL, Oommen OV.
Clinical profile and laboratory parameters in 1051 victims of snakebite from a single centre in Kerala, south India.
J Assoc Physicians India 2016; 64: 22-9.

Middleton J, McGrail S, Stringer K.
Drug related deaths in England and Wales.
Br Med J 2016; 355: i5259.

Moradi M, Ghaemi K, Mehrpour O.
A hospital base epidemiology and pattern of acute adult poisoning across Iran: a systematic review.
Electron Physician 2016; 8: 2860-70.

Pilgrim JL, Jenkins EL, Baber Y, Caldicott D, Drummer OH.
Fatal acute poisonings in Australian children (2003–2013).
Addiction 2016; online early: doi: 10.1111/add.13669:

Sobhonslidsuk A, Poovorawan K, Soonthornworasiri N, Pan-Ngum W, Phaosawasdi K.
The incidence, presentation, outcomes, risk of mortality and economic data of drug-induced liver injury from a national database in Thailand: a population-base study.
BMC Gastroenterol 2016; 16: 135.

Tsoi M-F, Cheung C-L, Cheung TT, Cheung BM.
Continual decrease in blood lead level in Americans: United States National Health Nutrition and Examination Survey 1999-2014.
Am J Med 2016; 129: 1213-8.

Forensic toxicology

Busardò FP, Vaiano F, Mannocchi G, Bertol E, Zaami S, Marinelli E.
Twelve months monitoring of hair GHB decay following a single dose administration in a case of facilitated sexual assault.
Drug Test Anal 2016; online early: doi: 10.1002/dta.2100:

Han E, Kwon NJ, Feng L-Y, Li J-H, Chung H.
Illegal use patterns, side effects, and analytical methods of ketamine.
Forensic Sci Int 2016; 268: 25-34.

Høiseth G, Tuv SS, Karinen R.
Blood concentrations of new designer benzodiazepines in forensic cases.
Forensic Sci Int 2016; 268: 35-8.

Kintz P.
Evidence of 2 populations of mephedrone abusers by hair testing. application to 4 forensic expertises.
Curr Neuropharmacol 2016; online early: PMID:27784226:

Koelzer SC, Held H, Toennes SW, Verhoff MA, Wunder C.
Self-induced illegal abortion with Rivanol®: a medicolegal-toxicological case report.
Forensic Sci Int 2016; 268: e18-e22.

Lemaire E, Schmidt C, Denooz R, Charlier C, Boxho P.
Postmortem concentration and redistribution of diazepam, methadone, and morphine with subclavian and femoral vein dissection/clamping.
J Forensic Sci 2016; online early:
doi: 10.1111/1556-4029.13213:

McIntyre IM, Valdez JE, Lucas JR.
An acute fatality and post-mortem concentration distribution reveals a low potential for naproxen redistribution.
J Can Soc Forensic Sci 2016; 49: 203-10.

Skov L, Holm KM, Linnet K.
Nitrobenzodiazepines: postmortem brain and blood reference concentrations.
Forensic Sci Int 2016; 268: 39-45.

Walz L, Jönsson AK, Zilg B, Östgren CJ, Druid H.
Risk factors for fatal hyperglycaemia confirmed by forensic postmortem examination - A nationwide cohort in Sweden.
PLoS ONE 2016; 11: e0164950.

Genotoxicity

Brusick D, Aardema M, Kier L, Kirkland D, Williams G.
Genotoxicity expert panel review: weight of evidence evaluation of the genotoxicity of glyphosate, glyphosate-based formulations, and aminomethylphosphonic acid.
Crit Rev Toxicol 2016; 46 Supplement 1: 56-74.

Hobbs CA, Taylor SV, Beevers C, Lloyd M, Bowen R, Lillford L, Maronpot R, Hayashi S.
Genotoxicity assessment of the flavouring agent, perillaldehyde.
Food Chem Toxicol 2016; 97: 232-42.

Rekhadevi PV, Rahman MF, Mahboob M, Kumari SI, Chinde S, Bhanuramya M, Naresh D, Grover P.
Assessment of genotoxicity in female agricultural workers exposed to pesticides.
Biomarkers 2016; online early:
doi: 10.1080/1354750X.2016.1252954:

Hepatotoxicity

Atienzar FA, Blomme EA, Chen M, Hewitt P, Kenna JG, Labbe G, Moulin F, Pognan F, Roth AB, Suter-Dick L, Ukairo O, Weaver RJ, Will Y, Dambach DM.
Key challenges and opportunities associated with the use of in vitro models to detect human DILI: integrated risk assessment and mitigation plans.
BioMed Res Int 2016; 2016: 9737920.

Chogtu B, Surendra VU, Magazine R, Acharya PR, Yerrapragada DB.
Rifampicin-induced concomitant renal injury and hepatitis.
J Clin Diagn Res 2016; 10: OD18-OD19.

Choy KW, Wijeratne N, Doery JC.
Eltrombopag: liver toxicity, kidney injury or assay interference?
Pathology 2016; 48 Suppl 1: S59.

Dash A, Figler RA, Sanyal AJ, Wamhoff BR.
Drug-induced steatohepatitis.
Expert Opin Drug Metab Toxicol 2016; online early: doi: 10.1080/17425255.2017.1246534:

Du K, Ramachandran A, Jaeschke H.
Oxidative stress during acetaminophen hepatotoxicity: sources, pathophysiological role and therapeutic potential.
Redox Biol 2016; 10: 148-56.

Funk C, Roth A.
Current limitations and future opportunities for prediction of DILI from in vitro.
Arch Toxicol 2016; online early: doi: 10.1007/s00204-016-1874-9:

Jayaweera D, Islam S, Gunja N, Cowie C, Broska J, Poojara L, Roberts MS, Isbister GK.
Chloroform ingestion causing severe gastrointestinal injury, hepatotoxicity and dermatitis confirmed with plasma chloroform concentrations.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1249795:

Lu R-J, Zhang Y, Tang F-L, Zheng Z-W, Fan Z-D, Zhu S-M, Qian X-F, Liu N-N.
Clinical characteristics of drug-induced liver injury and related risk factors.
Exp Ther Med 2016; 12: 2606-16.

Mirlohi MS, Ekrami A, Shirali S, Ghobeishavi M, Pourmotahari F.
Hematological and liver toxicity of anti-tuberculosis drugs.
Electron Physician 2016; 8: 3005-10.

Navarro V, Khan I, Björnsson E, Seeff LB, Serrano J, Hoofnagle JH.
Liver injury from herbal and dietary supplements.
Hepatology 2016; online early: doi: 10.1002/hep.28813:

Paudel R, Dogra P, Suman S, Acharya S, Matta J.
Acute liver and renal failure: a rare adverse effect exclusive to intravenous form of amiodarone.
Case Rep Crit Care 2016; 2016: 5232804.

Serper M, Wolf MS, Parikh NA, Tillman H, Lee WM, Ganger DR.
Risk factors, clinical presentation, and outcomes in overdose with acetaminophen alone or with combination products: results from the Acute Liver Failure Study Group.
J Clin Gastroenterol 2016; 50: 85-91.

Sobhonslidsuk A, Poovorawan K, Soonthornworasiri N, Pan-Ngum W, Phaosawasdi K.
The incidence, presentation, outcomes, risk of mortality and economic data of drug-induced liver injury from a national database in Thailand: a population-base study.
BMC Gastroenterol 2016; 16: 135.

Vatsalya V, Pandey A, Schwandt ML, Cave MC, Barve SS, Ramchandani VA, McClain CJ.
Safety assessment of liver injury with quetiapine fumarate XR management in very heavy drinking alcohol-dependent patients.
Clin Drug Investig 2016; 36: 935-44.

Vliegenthart ADB, Kimmitt RA, Seymour JH, Homer NZ, Clarke JI, Eddleston M, Gray A, Wood DM, Dargan PI, Cooper JG, Antoine DJ, Webb DJ, Lewis SC, Bateman DN, Dear JW.
Circulating acetaminophen metabolites are toxicokinetic biomarkers of acute liver injury.
Clin Pharmacol Ther 2016; online early:
doi: 10.1002/cpt.541:

Wijdicks EFM.
Hepatic encephalopathy.
N Engl J Med 2016; 375: 1660-70.

Yan S, Wang Z-H, Yen H, Lee Y-J, Yin M.
Reversal of ethanol-induced hepatotoxicity by cinnamic and syringic acids in mice.
Food Chem Toxicol 2016; 98 Part B: 119-26.

Zhang P, Ye Y, Yang X, Jiao Y.
Systematic review on Chinese herbal medicine induced liver injury.
Evid Based Complement Altern Med 2016; 2016: 3560812.

Inhalation toxicity

Bazoukis G, Spiliopoulou A, Mourouzis K, Grigoropoulou P, Yalouris A.
Non-cardiogenic pulmonary edema, rhabdomyolysis and myocardial injury following heroin inhalation: a case report.
Hippokratia 2016; 20: 84-7.

Hess IMR, Lachireddy K, Capon A.
A systematic review of the health risks from passive exposure to electronic cigarette vapour.
Public Health Res Pract 2016; 26: e2621617.

Rajendran N, Seagrave JC, Plunkett LM, MacGregor JA.
A comparative assessment of the acute inhalation toxicity of vanadium compounds.
Inhal Toxicol 2016; online early:
doi: 10.1080/08958378.2016.1233309:

Sweeney LM, Gargas ML.
Route-to-route extrapolation of 1,2-dichloroethane studies from the oral route to inhalation using physiologically based pharmacokinetic models.

Regul Toxicol Pharmacol 2016; 81: 468-79.

Kinetics

Kamel B, Graham GG, Williams KM, Pile KD, Day RO.
Clinical pharmacokinetics and pharmacodynamics of febuxostat.
Clin Pharmacokinet 2016; online early:
doi: 10.1007/s40262-016-0466-4:

Kumar V, Kalita J, Bora HK, Misra UK.
Temporal kinetics of organ damage in copper toxicity: a histopathological correlation in rat model.
Regul Toxicol Pharmacol 2016; 81: 372-80.

Sweeney LM, Gargas ML.
Route-to-route extrapolation of 1,2-dichloroethane studies from the oral route to inhalation using physiologically based pharmacokinetic models.
Regul Toxicol Pharmacol 2016; 81: 468-79.

Wang Q, Chen X, Ren Y, Chen Q, Meng Z, Cheng J, Zheng Y, Zeng W, Zhao Q, Zhang Y.
Toxicokinetics and internal exposure of acrylamide: new insight into comprehensively profiling mercapturic acid metabolites as short-term biomarkers in rats and Chinese adolescents.
Arch Toxicol 2016; online early: doi: 10.1007/s00204-016-1869-6:

Mechanisms of toxicity

Bosnjak ZJ, Logan S, Liu Y, Bai X.
Recent insights into molecular mechanisms of propofol-induced developmental neurotoxicity: implications for the protective strategies.
Anesth Analg 2016; 123: 1286-96.

Medication errors

Niedrig DF, Hoppe L, Mächler S, Russmann H, Russmann S.
Benzodiazepine use during hospitalization: automated identification of potential medication errors and systematic assessment of preventable adverse events.
PLoS ONE 2016; 11: e0163224.

Robinson J, McKenzie C, MacLeod D.
Paediatric dosing errors with oral prednisolone mixture.
Aust Prescrib 2016; 39: 176.

Wani M, Wani I, Banday K, Ashraf M.
The other side of vitamin D therapy: a case series of acute kidney injury due to malpractice-related vitamin D intoxication.
Clin Nephrol 2016; 86: 236-41.

Nephrotoxicity

Chogtu B, Surendra VU, Magazine R, Acharya PR, Yerrapragada DB.
Rifampicin-induced concomitant renal injury and hepatitis.
J Clin Diagn Res 2016; 10: OD18-OD19.

Choy KW, Wijeratne N, Doery JC.
Eltrombopag: liver toxicity, kidney injury or assay interference?
Pathology 2016; 48 Suppl 1: S59.

Paudel R, Dogra P, Suman S, Acharya S, Matta J.
Acute liver and renal failure: a rare adverse effect exclusive to intravenous form of amiodarone.
Case Rep Crit Care 2016; 2016: 5232804.

Safaei Asl A, Dadashzadeh P.
Acute kidney injury in patients with paraquat intoxication; a case report and review of the literature.
J Renal Inj Prev 2016; 5: 203-6.

Stammler L, Uhl A, Mayer B, Keller F.
Renal effects and carcinogenicity of occupational exposure to uranium: a meta-analysis.
Nephron Extra 2016; 6: 1-11.

Su X, Xie X, Liu L, Lv J, Song F, Perkovic V, Zhang H.
Comparative effectiveness of 12 treatment strategies for preventing contrast-induced acute kidney injury: a systematic review and Bayesian network meta-analysis.
Am J Kidney Dis 2016; online early:
doi: 10.1053/j.ajkd.2016.07.033:

Vora S.
Acute renal failure due to vancomycin toxicity in the setting of unmonitored vancomycin infusion.
Proc (Bayl Univ Med Cent) 2016; 29: 412-3.

Wani M, Wani I, Banday K, Ashraf M.
The other side of vitamin D therapy: a case series of acute kidney injury due to malpractice-related vitamin D intoxication.
Clin Nephrol 2016; 86: 236-41.

Neurotoxicity

Abou-Donia MB, Siracuse B, Gupta N, Sobel Sokol A.
Sarin (GB, O-isopropyl methylphosphonofluoridate) neurotoxicity: critical review.
Crit Rev Toxicol 2016; online early:
doi: 10.1080/10408444.2016.1220916:

Ait-Bali Y, Ba-M'hamed S, Bennis M.
Prenatal paraquat exposure induces neurobehavioral and cognitive changes in mice offspring.
Environ Toxicol Pharmacol 2016; 48: 53-62.

Angoa-Pérez M, Anneken JH, Kuhn DM.
Neurotoxicology of synthetic cathinone analogs.
Curr Top Behav Neurosci 2016; online early:
doi: 10.1007/7854_2016_21:

Bosnjak ZJ, Logan S, Liu Y, Bai X.
Recent insights into molecular mechanisms of propofol-induced developmental neurotoxicity: implications for the protective strategies.
Anesth Analg 2016; 123: 1286-96.

Gulec H, Babayigit M, Kurtay A, Sahap M, Ulus F, Tutal Z, Horasanli E.
Seizure due to multiple drugs intoxication: a case report.
Braz J Anesthesiol 2016; 66: 651-3.

Kamour A, Crichton S, Cooper G, Lupton DJ, Eddleston M, Vale JA, Thompson JP, Thomas SHL.
Central nervous system toxicity of mefenamic acid overdose compared to other NSAIDs: an analysis of cases reported to the United Kingdom National Poisons Information Service.
Br J Clin Pharmacol 2016; online early:
doi: 10.1111/bcp.13169:

Lefaucheur R, Lebas A, Gérardin E, Grangeon L, Ozkul-Wermester O, Aubier-Girard C, Martinaud O, Maltête D.
Leucoencephalopathy following abuse of sniffed heroin.
J Clin Neurosci 2016; online early:
doi: 10.1016/j.jocn.2016.09.023:

Mugundhan K, Iyer RS.
Myelopathy following cypermethrin poisoning.

J Assoc Physicians India 2016; 64: 85-6.

Sánchez-Sellero I, Soto-Varela A.
Instability due to drug-induced vestibulotoxicity.
J Int Adv Otol 2016; 12: 202-7.

Shanmugarajah PD, Hoggard N, Currie S, Aeschlimann DP, Aeschlimann PC, Gleeson DC, Karajeh M, Woodroofe N, Grunewald RA, Hadjivassiliou M.
Alcohol-related cerebellar degeneration: not all down to toxicity?
Cerebellum Ataxias 2016; 3: 17.

Silva A, Hodgson WC, Isbister GK.
Cross-neutralisation of in vitro neurotoxicity of Asian and Australian snake neurotoxins and venoms by different antivenoms.
Toxins (Basel) 2016; 8: 302.

van Wendel de Joode B, Mora AM, Lindh CH, Hernández-Bonilla D, Córdoba L, Wesseling C, Hoppin JA, Mergler D.
Pesticide exposure and neurodevelopment in children aged 6-9 years from Talamanca, Costa Rica.
Cortex 2016; online early:
doi: 10.1016/j.cortex.2016.09.003:

Wijdicks EFM.
Hepatic encephalopathy.
N Engl J Med 2016; 375: 1660-70.

Occupational toxicology

Alicandro G, Rota M, Boffetta P, La Vecchia C.
Occupational exposure to polycyclic aromatic hydrocarbons and lymphatic and hematopoietic neoplasms: a systematic review and meta-analysis of cohort studies.
Arch Toxicol 2016; 90: 2643-56.

Calvert GM, Beckman J, Prado JB, Bojes H, Schwartz A, Mulay P, Leinenkugel K, Higgins S, Lackovic M, Waltz J, Stover D, Moraga-McHaley S.
Acute occupational pesticide-related illness and injury - United States, 2007-2011.
MMWR Morb Mortal Wkly Rep 2016; 63: 11-6.

Gangemi S, Miozzi E, Teodoro M, Briguglio G, De Luca A, Alibrando C, Polito I, Libra M.
Occupational exposure to pesticides as a possible risk factor for the development of chronic diseases in humans (Review).
Mol Med Rep 2016; 14: 4475-88.

Graeve CU, McGovern PM, Alexander B, Church T, Ryan A, Polovich M.
Occupational exposure to antineoplastic agents: an analysis of health care workers and their environments.
Workplace Health Saf 2016; online early:
doi: 10.1177/2165079916662660:

Huang H, Yi Q, Tang S, An R.
Occupational exposure among Chinese nursing students: current status, risking factors and preventive interventions.
Int J Clin Exp Med 2016; 9: 16578-86.

Lee E, Park JE, Iida M, Fujie T, Kaji T, Ichihara G, Weon YC, Kim Y.
Magnetic resonance imaging of leukoencephalopathy in amnestic workers exposed to organotin.
Neurotoxicology 2016; 57: 128-35.

Levin JL, Rouk A, Shepherd S, Hurst GA, McLarty JW.
Tyler asbestos workers: a mortality update in a cohort exposed to amosite.
J Toxicol Environ Health B Crit Rev 2016; 19: 190-200.

Ling SLY, Mcd Taylor D, Robinson J.
Workplace chemical and toxin exposures reported to a Poisons Information Centre: a diverse range causing variable morbidity.
Eur J Emerg Med 2016; online early:
doi: 10.1097/MEJ.0000000000000430:

Rekhadevi PV, Rahman MF, Mahboob M, Kumari SI, Chinde S, Bhanuramya M, Naresh D, Grover P.
Assessment of genotoxicity in female agricultural workers exposed to pesticides.
Biomarkers 2016; online early:
doi: 10.1080/1354750X.2016.1252954:

Walker DI, Uppal K, Zhang L, Vermeulen R, Smith M, Hu W, Purdue MP, Tang X, Reiss B, Kim S, Li L, Huang H, Pennell KD, Jones DP, Rothman N, Lan Q.
High-resolution metabolomics of occupational exposure to trichloroethylene.
Int J Epidemiol 2016; online early: doi: 10.1093/ije/dyw218:

Yasmeen H, Qadir A, Mumtaz M, Eqani SA, Syed JH, Mahmood A, Jamil N, Nazar F, Ali H, Ahmad MS, Tanveer ZI, Zhang G.
Risks profile and health vulnerability of cotton picker's women by organanochlorine phosphates (OCPs) from Southern Punjab, Pakistan.
Environ Toxicol Chem 2016; online early:
doi: 10.1002/etc.3633:

Ziqubu-Page T, Forrester MB.
Adolescent workplace exposures reported to Texas poison centers.
Int J Adolesc Med Health 2016; online early:
doi: 10.1515/ijamh-2016-0057:

Ocular toxicity

Farooq AV, Gibbons AG, Council MD, Harocopos GJ, Holland S, Judelson J, Shoss BL, Schmidt EJ, Md Noh UK, D'Angelo A, Chundury RV, Judelson R, Perez VL, Huang AJW.
Corneal toxicity associated with aquarium coral palytoxin.
Am J Ophthalmol 2016; online early:
doi: 10.1016/j.ajo.2016.10.007:

Liu D-M, Zhou S, Chen J-M, Peng S-Y, Xia W-T.
The intoxication effects of methanol and formic acid on rat retina function.
J Ophthalmol 2016; 2016: 4087096.

Nagaraja H, Kugar T, Shivanna Y, Agrawal A, Shetty R.
Ocular toxicity by seeds of *Annona squamosa* (custard apple).
Indian J Ophthalmol 2016; 64: 611-3.

Paediatric toxicology

Ali K, Rosser T, Bhat R, Wolff K, Hannam S, Rafferty GF, Greenough A.
Antenatal smoking and substance-misuse, infant and new-born response to hypoxia.
Pediatr Pulmonol 2016; online early:
doi: 10.1002/ppul.23620:

Beauchamp GA, Hendrickson RG.
Delayed salicylate toxicity in a 17-year-old girl with initially undetectable salicylate concentration 3.9 hours after ingestion.
Pediatr Emerg Care 2016; online early:
doi: 10.1097/PEC.0000000000000859:

Bicilioglu Y, Anil M, Yilmaz I, Bal A, Gokalp G, Kamit Can F, Zengin N, Durak F, Anil AB.
Clinical and laboratory characteristics of unintentional carbon monoxide poisoning due to coal stove in children.
Toxin Rev 2016; online early:
doi: 10.1080/15569543.2016.1241277:

Budnitz DS, Lovegrove MC, Sapiano MR, Mathew J, Kegler SR, Geller AI, Hampp C.
Notes from the field: Pediatric emergency department visits for buprenorphine/naloxone ingestion – United States, 2008–2015.
MMWR Morb Mortal Wkly Rep 2016; 65: 1148-9.

Caffarelli M, Kimia AA, Torres AR.
Acute ataxia in children: a review of the differential diagnosis and evaluation in the emergency department.
Pediatr Neurol 2016; online early:
doi: 10.1016/j.pediatrneurol.2016.08.025:

Cantrell FL, Sherrard J, Andrade M, Schaber B, McIntyre IM.
A pediatric fatality due to accidental hydromorphone ingestion.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1247958:

Chisamore B, Labana S, Blitz S, Ordean A.
A comparison of morphine delivery in neonatal opioid withdrawal.
Subst Abus 2016; 10 Supplement 1: 49-54.

Corbett BM, O'Connell C, Boutin MA, Fatayerji NI, Sauer CW.
Inadvertent methylergonovine administration to a neonate.
Am J Case Rep 2016; 17: 770-3.

Crippa JAS, Crippa ACS, Hallak JE, Martín-Santos R, Zuardi AW.
Δ9-THC intoxication by cannabidiol-enriched cannabis extract in two children with refractory epilepsy: full remission after switching to purified cannabidiol.
Front Pharmacol 2016; 7: 359.

Davidson A.
The effect of anaesthesia on the infant brain.
Early Hum Dev 2016; 102: 37-40.

Direk MÇ, Yildirim V, Günes S, Bozlu G, Okuyaz Ç.
Serotonin syndrome after clomipramine overdose in a child.
Clin Psychopharmacol Neurosci 2016; 14: 388-90.

Dodington J, Violano P, Baum CR, Bechtel K.
Drugs, guns and cars: how far we have come to improve safety in the United States; yet we still have far to go.
Pediatr Res 2016; online early: doi: 10.1038/pr.2016.193:

Glorennec P, Lucas J-P, Mercat A-C, Roudot A-C, Le Bot B.
Environmental and dietary exposure of young children to inorganic trace elements.
Environ Int 2016; 97: 28-36.

Gregory S, Iles-Caven Y, Hibbeln JR, Taylor CM, Golding J.
Are prenatal mercury levels associated with subsequent blood pressure in childhood and adolescence? the Avon prebirth cohort study.
BMJ Open 2016; 6: e012425.

Hiremath M, Craig S, Graudins A.
Adolescent deliberate self-poisoning in South-East Melbourne.
Emerg Med Australas 2016; online early:
doi: 10.1111/1742-6723.12681:

Hon KL, Chan MH, James Ng MH, Ho CC, Tsang YC, Tam WH, Ho CS.
Positive neonatal urine comprehensive drug screen, low birth weight and withdrawal symptoms in a neonatal unit: a case control study.
Curr Clin Pharmacol 2016; online early: PMID:27748174:

Karwowski MP, Morman SA, Plumlee GS, Law T, Kellogg M, Woolf AD.
Toxicants in folk remedies: implications of elevated blood lead in an American-born infant due to imported diaper powder.
Environ Geochem Health 2016; online early:
doi: 10.1007/s10653-016-9881-6:

Keller B, Faciano A, Tsega A, Ehrlich J.
Epidemiologic characteristics of children with blood lead levels $\geq$45 μg/dL.
J Pediatr 2016; online early:
doi: 10.1016/j.jpeds.2016.09.017:

McStay C, Pierce R, Riley C.
Complete recovery after acute zonisamide overdose in an adolescent female.
Pediatr Emerg Care 2016; online early:
doi: 10.1097/PEC.0000000000000854:

Mike TB, Shaw DS, Forbes EE, Sitnick SL, Hasler BP.
The hazards of bad sleep-sleep duration and quality as predictors of adolescent alcohol and cannabis use.
Drug Alcohol Depend 2016; 168: 335-9.

Mohamed NN, Loy SL, Man CN, Al-Mamun A, Jan Mohamed HJ.
Higher hair nicotine level in children compared to mother living with smoking father in Malaysia.
Environ Health Prev Med 2016; online early:
doi: 10.1007/s12199-016-0584-5:

Murray D, Olson J, Lopez AS.
When the grass isn't greener: a case series of young children with accidental marijuana ingestion.
CJEM 2016; 18: 480-3.

Mücke S, Nagel M, Siedentopf JP, Bührer C, Hüseman D.
Neonatal abstinence syndrome: twelve years of experience at a regional referral center.
Klin Padiatr 2016; online early: doi: 10.1055/s-0042-115300:

Nakaoka S, Kawasaki Y, Inomata S, Makimoto M, Yoshida T.
Caffeine toxicity in a preterm neonate.
Pediatr Neonatol 2016; online early:
doi: 10.1016/j.pedneo.2016.08.001:

Nussbaumer-Streit B, Yeoh B, Griebler U, Pfadenhauer LM, Busert LK, Lhachimi SK, Lohner S, Gartlehner G.
Household interventions for preventing domestic lead exposure in children.
Cochrane Database Syst Rev 2016; 10: CD006047.

Oconnor AB, O'Brien L, Alto WA, Wong J.
Does concurrent *in utero* exposure to buprenorphine and antidepressant medications influence the course of neonatal abstinence syndrome?
J Matern Fetal Neonatal Med 2016; 29: 112-4.

Ozyurt A, Karpuz D, Yucel A, Tosun MD, Kibar AE, Hallioglu O.
Effects of acute carbon monoxide poisoning on ECG and echocardiographic parameters in children.
Cardiovasc Toxicol 2016; online early:
doi: 10.1007/s12012-016-9389-4:

Paul IM, Reynolds KM, Kauffman RE, Banner W, Bond GR, Palmer RB, Burnham RI, Green JL.
Adverse events associated with pediatric exposures to dextromethorphan.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1240803:

Pilgrim JL, Jenkins EL, Baber Y, Caldicott D, Drummer OH.
Fatal acute poisonings in Australian children (2003–2013).
Addiction 2016; online early: doi: 10.1111/add.13669:

Robinson J, McKenzie C, MacLeod D.
Paediatric dosing errors with oral prednisolone mixture.
Aust Prescrib 2016; 39: 176.

Shapiro S, Bhatnagar N, Khan A, Beavis J, Keeling D.
Idarucizumab for dabigatran overdose in a child.
Br J Haematol 2016; online early:
doi: 10.1111/bjh.14371:

Sheridan DC, Hendrickson RG, Beauchamp G, Laurie A, Fu R, Horowitz BZ.
Adolescent intentional abuse ingestions: overall 10-year trends and regional variation.
Pediatr Emerg Care 2016; online early:
doi: 10.1097/PEC.0000000000000866:

Sinha M, Quan D, McDonald FW, Valdez A.
Cost minimization analysis of different strategies of management of clinically significant scorpion envenomation among pediatric patients.
Pediatr Emerg Care 2016; online early:
doi: 10.1097/PEC.0000000000000904:

Theobald JL, Spoelhof R, Pallasch EM, Mycyk MB.
The beef jerky blues: methemoglobinemia from home cured meat.
Pediatr Emerg Care 2016; online early:
doi: 10.1097/PEC.0000000000000917:

Toce MS, Burns MM, O'Donnell KA.
Clinical effects of unintentional pediatric buprenorphine exposures: experience at a single tertiary care center.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1244337:

van Wendel de Joode B, Mora AM, Lindh CH, Hernández-Bonilla D, Córdoba L, Wesseling C, Hoppin JA, Mergler D.
Pesticide exposure and neurodevelopment in children aged 6-9 years from Talamanca, Costa Rica.
Cortex 2016; online early:
doi: 10.1016/j.cortex.2016.09.003:

Wang B, Chen Q, Shen L, Zhao S, Pang W, Zhang J.
Perfluoroalkyl and polyfluoroalkyl substances in cord blood of newborns in Shanghai, China: implications for risk assessment.
Environ Int 2016; 97: 7-14.

Wen JG, Liu XJ, Wang ZM, Li TF, Wahlqvist ML.
Melamine-contaminated milk formula and its impact on children.
Asia Pac J Clin Nutr 2016; 25: 697-705.

Poisons information and poison information centres

Ghane T, Behmanesh Y, Khazei F.
Annual report of drug and poison information in Iran from March 2012 to March 2013.
Acta Med Iran 2016; 54: 525-9.

Levine M, Flores J, Seabury SA, Sanko S, Eckstein M.
Impact of the use of regional poison control centers in an urban EMS dispatch system.
J Med Toxicol 2016; online early: doi: 10.1007/s13181-016-0586-0:

Ling SLY, Mcd Taylor D, Robinson J.
Workplace chemical and toxin exposures reported to a Poisons Information Centre: a diverse range causing variable morbidity.
Eur J Emerg Med 2016; online early:
doi: 10.1097/MEJ.0000000000000430:

Ziqubu-Page T, Forrester MB.
Adolescent workplace exposures reported to Texas poison centers.
Int J Adolesc Med Health 2016; online early:
doi: 10.1515/ijamh-2016-0057:

Psychiatric aspects

Livezey J, Oliver T, Cantilena L.
Prolonged neuropsychiatric symptoms in a military service member exposed to mefloquine.
Drug Saf Case Rep 2016; 3: 7.

Lu DL, Lin XL.
Development of psychotic symptoms following ingestion of small quantities of alcohol.
Neuropsychiatr Dis Treat 2016; 12: 2449-54.

Mancke F, Kaklauskaite G, Kollmer J, Weiler M.
Psychiatric comorbidities in a young man with subacute myelopathy induced by abusive nitrous oxide consumption: a case report.
Subst Abuse Rehabil 2016; 7: 155-9.

Mash DC.
Excited delirium and sudden death: a syndromal disorder at the extreme end of the neuropsychiatric continuum.
Front Physiol 2016; 7: 435.

Scott N, Carrotte ER, Higgs P, Cogger S, Stoové MA, Aitken CK, Dietze PM.
Longitudinal changes in psychological distress in a cohort of people who inject drugs in Melbourne, Australia.
Drug Alcohol Depend 2016; 168: 140-6.

Reprotoxicity

Alaa-Eldin EA, El-Shafei DA, Abouhashem NS.
Individual and combined effect of chlorpyrifos and cypermethrin on reproductive system of adult male albino rats.
Environ Sci Pollut Res 2016; online early:
doi: 10.1007/s11356-016-7912-6:

Bergamo P, Volpe MG, Lorenzetti S, Mantovani A, Notari T, Cocca E, Cerullo S, Di Stasio M, Cerino P, Montano L.
Human semen as an early, sensitive biomarker of highly polluted living environment in healthy men: a pilot biomonitoring study on trace elements in blood and semen and their relationship with sperm quality and RedOx status.
Reprod Toxicol 2016; 66: 1-9.

Chen Q, Zhang X, Zhao J-Y, Lu X-N, Zheng P-S, Xue X.
Oxidative damage of the male reproductive system induced by paraquat.
J Biochem Mol Toxicol 2016; online early:
doi: 10.1002/jbt.21870:

Giulivo M, Lopez de Alda M, Capri E, Barceló D.

Human exposure to endocrine disrupting compounds: their role in reproductive systems, metabolic syndrome and breast cancer. a review.
Environ Res 2016; 151: 251-64.

Vallverdú-Coll N, Mougeot F, Ortiz-Santaliestra ME, Castaño C, Santiago-Moreno J, Mateo R.
Effects of lead exposure on sperm quality and reproductive success in an avian model.
Environ Sci Technol 2016; online early:
doi: 10.1021/acs.est.6b04231:

Risk assessment

Atienzar FA, Blomme EA, Chen M, Hewitt P, Kenna JG, Labbe G, Moulin F, Pognan F, Roth AB, Suter-Dick L, Ukairo O, Weaver RJ, Will Y, Dambach DM.
Key challenges and opportunities associated with the use of in vitro models to detect human DILI: integrated risk assessment and mitigation plans.
BioMed Res Int 2016; 2016: 9737920.

Broschard TH, Glowienke S, Bruen US, Nagao LM, Teasdale A, Stults CLM, Li KL, Iciek LA, Erexson G, Martin EA, Ball DJ.
Assessing safety of extractables from materials and leachables in pharmaceuticals and biologics - Current challenges and approaches.
Regul Toxicol Pharmacol 2016; 81: 201-11.

Tweedale AC.
The inadequacies of pre-market chemical risk assessment's toxicity studies-the implications.
J Appl Toxicol 2016; online early: doi:10.1002/jat.3396:

Wang B, Chen Q, Shen L, Zhao S, Pang W, Zhang J.
Perfluoroalkyl and polyfluoroalkyl substances in cord blood of newborns in Shanghai, China: implications for risk assessment.
Environ Int 2016; 97: 7-14.

Suicide

Jamison EC, Bol KA.
Previous suicide attempt and its association with method used in a suicide death.
Am J Prev Med 2016; 51: S226-S233.

Mehta PK, Bachhuber MA, Hoffman R, Srinivas SK.
Deaths from unintentional injury, homicide, and suicide during or within 1 year of pregnancy in Philadelphia.
Am J Public Health 2016; online early:
doi: 10.2105/AJPH.2016.303473:

MANAGEMENT

General

Ayanga D, Shorter D, Kosten TR.
Update on pharmacotherapy for treatment of opioid use disorder.
Expert Opin Pharmacother 2016; online early:
doi: 10.1080/14656566.2016.1244529:

Castells X, Cunill R, Pérez-Mañá C, Vidal X, Capellà D.
Psychostimulant drugs for cocaine dependence.
Cochrane Database Syst Rev 2016; 9: CD007380.

Dhakal P, Rayamajhi S, Verma V, Gundabolu K, Bhatt VR.
Reversal of anticoagulation and management of bleeding in patients on anticoagulants.
Clin Appl Thromb Hemost 2016; online early:
doi: 10.1177/1076029616675970:

Hashemi-Domeneh B, Zamani N, Hassanian-Moghaddam H, Rahimi M, Shadnia S, Erfantalab P, Ostadi A.
A review of aluminium phosphide poisoning and a flowchart to treat it.
Arh Hig Rada Toksikol 2016; 67: 183-93.

Hua A, Haight S, Hoffman RS, Manini AF.
Endotracheal intubation after acute drug overdoses: incidence, complications, and risk factors.
J Emerg Med 2016; online early:
doi: 10.1016/j.jemermed.2016.07.114:

Koh C, Minns A, Rosen P.
A practical approach to the ethanol-intoxicated patient in the emergency department.
J Emerg Med 2016; 51: 463-4.

Lindson-Hawley N, Hartmann-Boyce J, Fanshawe TR, Begh R, Farley A, Lancaster T.
Interventions to reduce harm from continued tobacco use.
Cochrane Database Syst Rev 2016; 10: CD005231.

Little M, Fitzpatrick R, Seymour J.
Successful use of heat as first aid for tropical Australian jellyfish stings.
Toxicon 2016; 122: 142-4.

Mohammad Alizadeh A, Hassanian-Moghaddam H, Zamani N, Rahimi M, Mashayekhian M, Hashemi Domeneh B, Erfantalab P, Ostadi A.
The protocol of choice for treatment of snake bite.
Adv Med 2016; 2016: 7579069.

Morotti A, Goldstein JN.
New oral anticoagulants and their reversal agents.
Curr Treat Options Neurol 2016; 18: 47.

Myhrer T, Aas P.
Pretreatment and prophylaxis against nerve agent poisoning: are undesirable behavioral side effects unavoidable?
Neurosci Biobehav Rev 2016; 71: 657-70.

Oh B-J, Im Y-G, Park E, Min Y-G, Choi S-C.
Treatment of acute carbon monoxide poisoning with induced hypothermia.
Clin Exp Emerg Med 2016; 3: 100-4.

Ramalho J, Ramalho M, Jay M, Burke L, Semelka RC.
Gadolinium toxicity and treatment.
Magn Reson Imaging 2016; online early:
doi: 10.1016/j.mri.2016.09.005:

Rose JJ, Wang L, Xu Q, McTiernan CF, Shiva S, Tejero J, Gladwin MT.
Carbon monoxide poisoning: pathogenesis, management and future directions of therapy.
Am J Respir Crit Care Med 2016; online early:
doi: 10.1164/rccm.201606-1275CI:

Sinha M, Quan D, McDonald FW, Valdez A.
Cost minimization analysis of different strategies of management of clinically significant scorpion envenomation among pediatric patients.
Pediatr Emerg Care 2016; online early:
doi: 10.1097/PEC.0000000000000904:

St-Onge M, Anseeuw K, Cantrell FL, Gilchrist IC, Hantson P, Bailey B, Lavergne V, Gosselin S, Kerns W, II, Laliberté M, Lavonas EJ, Juurlink DN, Muscedere J, Yang CC, Sinuff T, Rieder M, Mégarbane B.
Experts consensus recommendations for the management of calcium channel blocker poisoning in adults.

Crit Care Med 2016; online early:
doi: 10.1097/CCM.0000000000002087:

Su X, Xie X, Liu L, Lv J, Song F, Perkovic V, Zhang H.
Comparative effectiveness of 12 treatment strategies for preventing contrast-induced acute kidney injury: a systematic review and Bayesian network meta-analysis.
Am J Kidney Dis 2016; online early:
doi: 10.1053/j.ajkd.2016.07.033:

Tomita T, Goto H, Sumiya K, Yoshida T, Tanaka K, Kohda Y.
Efficacy of adenine in the treatment of leukopenia and neutropenia associated with an overdose of antipsychotics or discontinuation of lithium carbonate administration: three case studies.
Clin Psychopharmacol Neurosci 2016; 14: 391-5.

Yan S, Wang Z-H, Yen H, Lee Y-J, Yin M.
Reversal of ethanol-induced hepatotoxicity by cinnamic and syringic acids in mice.
Food Chem Toxicol 2016; 98 Part B: 119-26.

Zona LC, Grecco GG, Sprague JE.
Cooling down the bath salts: carvedilol attenuation of methylone and mephedrone mediated hyperthermia.
Toxicol Lett 2016; online early:
doi: 10.1016/j.toxlet.2016.10.012:

Antidotes

Acetylcysteine

Paridaens A, Raevens S, Colle I, Bogaerts E, Vandewynckel Y-P, Verhelst X, Hoorens A, van Grunsven LA, Van Vlierberghe H, Geerts A, Devisscher L.
Combination of tauroursodeoxycholic acid and N-acetyl-cysteine exceeds standard treatment for acetaminophen intoxication.
Liver Int 2016; online early: doi: 10.1111/liv.13261:

Wojciechowski J, Desrochers J, Klein-Schwartz W, Doyon S, Gobburu JV, Gopalakrishnan M.
To antidote or not? web-based antidote recommendation tool for acute acetaminophen overdose.
Clin Pharmacol Drug Dev 2016; 5 Suppl 1: 45.

Yarema MC, Green JP, Sivilotti ML, Johnson DW, Nettel-Aguirre A, Victorino C, Spyker DA, Rumack BH.
Can a serum acetaminophen concentration obtained less than 4 hours post-ingestion determine which patients do not require treatment with acetylcysteine?
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1247959:

Antivenom

Gerardo CJ, Vissoci JRN, Brown MWJ, Bush SP.
Coagulation parameters in copperhead compared to other *Crotalinae* envenomation: secondary analysis of the $F(ab')_2$ versus Fab antivenom trial.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1250275:

Silva A, Hodgson WC, Isbister GK.
Cross-neutralisation of in vitro neurotoxicity of Asian and Australian snake neurotoxins and venoms by different antivenoms.
Toxins (Basel) 2016; 8: 302.

Villalta M, Sánchez A, Herrera M, Vargas M, Segura A, Cerdas M, Estrada R, Gawarammana I, Keyler DE, McWhorter K, Malleappah R, Alape-Girón A, León G, Gutiérrez JM.
Development of a new polyspecific antivenom for snakebite envenoming in Sri Lanka: analysis of its preclinical efficacy as compared to a currently available antivenom.
Toxicon 2016; 122: 152-9.

Atropine

Jatav OP, Tiwari D, Lahariya D, Varghese J, Kumar S, Jacob J.
Amitraz poisoning treated successfully with atropine.
J Assoc Physicians India 2016; 64: 82.

Desferrioxamine

Hamilton JL, Ul-Haq MI, Creagh AL, Haynes CA, Kizhakkedathu JN.
Iron binding and iron removal efficiency of desferrioxamine based polymeric iron chelators: influence of molecular size and chelator density.
Macromol Biosci 2016; online early:
doi: 10.1002/mabi.201600244:

Flumazenil

Jordahn Z, Andersen C, Roust Aaberg AM, Pott FC.
Reversal of a suspected paradoxical reaction to zopiclone with flumazenil.
Case Rep Crit Care 2016; 2016: 3185873.

Hyperbaric oxygen therapy

Croll LS, Wightman RS, Hoffman RS.
In response to: "Single versus multiple hyperbaric sessions for carbon monoxide poisoning in a murine model".
J Med Toxicol 2016; online early: doi: 10.1007/s13181-016-0589-x:

Özgök-Kangal MK, Karatop-Cesur I, Akcali G, Yildiz S, Uzun G.
Requests for emergency hyperbaric oxygen treatment for carbon monoxide poisoning in Ankara, Turkey.
Diving Hyperb Med 2016; 46: 176-80.

Rose JJ, Wang L, Xu Q, McTiernan CF, Shiva S, Tejero J, Gladwin MT.
Carbon monoxide poisoning: pathogenesis, management and future directions of therapy.
Am J Respir Crit Care Med 2016; online early: doi: 10.1164/rccm.201606-1275CI:

Idarucizumab

Miller L, Ferreira JA, Tucker C.
Idarucizumab for reversal of dabigatran-associated bleeding: misnomer or miracle?
J Emerg Med 2016; online early:
doi: 10.1016/j.jemermed.2016.08.023:

Peetermans M, Verhamme P.
Answer by the authors to the letter of Dr. Wang and colleagues, concerning our case report entitled "Idarucizumab for dabigatran overdose".
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1240805:

Shapiro S, Bhatnagar N, Khan A, Beavis J, Keeling D.
Idarucizumab for dabigatran overdose in a child.
Br J Haematol 2016; online early: doi: 10.1111/bjh.14371:

Monoclonal antibodies

Wetzel HN, Tsibulsky VL, Norman AB.
The effects of a repeated dose of a recombinant humanized anti-cocaine monoclonal antibody on cocaine self-administration in rats.
Drug Alcohol Depend 2016; 168: 287-92.

Naloxone

Gabay M.
Increasing access to naloxone and legal issues.
Hosp Pharm 2016; 51: 633-4.

Jones JD, Nolan ML, Daver R, Comer SD, Paone D.
Can naloxone be used to treat synthetic cannabinoid overdose?
Biol Psychiatry 2016; online early:
doi: 10.1016/j.biopsych.2016.08.013:

Parmar MKB, Strang J, Choo L, Meade AM, Bird SM.
Randomized controlled pilot trial of naloxone-on-release to prevent post-prison opioid overdose deaths.
Addiction 2016; online early: doi: 10.1111/add.13668:

Sammon M, Dawood A, Beaudoin S, Harrigan RA.
An unusual case of alternating ventricular morphology on the 12-lead electrocardiogram.
J Emerg Med 2016; online early:
doi: 10.1016/j.jemermed.2016.08.027:

Oximes

Bušic V, Katalinic M, Šinko G, Kovarik Z, Gašo-Sokac D.
Pyridoxal oxime derivative potency to reactivate cholinesterases inhibited by organophosphorus compounds.
Toxicol Lett 2016; 262: 114-22.

Aripiprazole

Moran LM, Phillips KA, Kowalczyk WJ, Ghitza UE, Agage DA, Epstein DH, Preston KL.
Aripiprazole for cocaine abstinence: a randomized-controlled trial with ecological momentary assessment.
Behav Pharmacol 2016; online early:
doi: 10.1097/FBP.0000000000000268:

Baclofen

Lingford-Hughes A, Patel Y, Bowden-Jones O, Crawford MJ, Dargan PI, Gordon F, Parrott S, Weaver T, Wood DM.
Improving GHB withdrawal with baclofen: study protocol for a feasibility study for a randomised controlled trial.
Trials 2016; 17: 472.

Extracorporeal treatments

Park S, Lee S, Park S, Gil H, Lee E, Yang J, Hong S.
Concurrent hemoperfusion and hemodialysis in patients with acute pesticide intoxication.
Blood Purif 2016; 42: 329-36.

Villeneuve E, Wang JJ, Grunbaum AM, Gosselin S.
Letter in response to "Lithium poisoning in the intensive care unit: predictive factors of severity and indications for extracorporeal toxin removal to improve outcome".
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1244338:

Vodovar D, Mégarbane B.
Defining predictive factors of severity and indications for extracorporeal toxin removal in lithium poisoning: not an easy objective!
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1244339:

Haemodialysis

Zakharov S, Pelclova D, Navratil T, Belacek J, Latta J, Pisar M, Rulisek J, Leps J, Zidek P, Kucera C, Bocek R, Mazur M, Belik Z, Chalupa J, Talafa V, Kodras K, Nalos D, Sedlak C, Senkyrik M, Smid J, Salek T, Roberts DM, Hovda KE.
Efficiency of acidemia correction on intermittent versus continuous hemodialysis in acute methanol poisoning.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1250901:

Haemoperfusion

Steinmetz M, Nickenig G, Sauerbruch T, Eyer F, Rabe C.
Effect of hemoperfusion on flecainide serum concentration - a case report.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1241400:

Labetalol

Richards JR, Laurin EG, Tabish N, Lange RA.
Acute toxicity from topical cocaine for epistaxis: treatment with labetalol.
J Emerg Med 2016; online early:
doi: 10.1016/j.jemermed.2016.08.006:

Richards JR, Lange RA, Arnold TC, Horowitz BZ.
Dual cocaine and methamphetamine cardiovascular toxicity: rapid resolution with labetalol.
Am J Emerg Med 2016; online early:
doi: 10.1016/j.ajem.2016.09.040:

Lipid emulsion therapy

Tang W, Wang Q, Shi K, Dong J, Lin S, Zhao S, Wu C, Xia Y, Papadimos TJ, Xu X.
The effect of lipid emulsion on pharmacokinetics of bupivacaine in rats: long-chain triglyceride versus long- and medium-chain triglyceride.
Anesth Analg 2016; 123: 1116-22.

Opioid mainetnance therapy

Socias ME, Wood E, Small W, Dong H, Shoveller J, Kerr T, Montaner J, Milloy M-J.
Methadone maintenance therapy and viral suppression among HIV-infected opioid users: the impacts of crack and injection cocaine use.
Drug Alcohol Depend 2016; 168: 211-8.

Buprenorphine

Bastian JR, Chen H, Zhang H, Rothenberger S, Tarter R, English D, Venkataramanan R, Caritis SN.
Dose-adjusted plasma concentrations of sublingual buprenorphine are lower during than after pregnancy.
Am J Obstet Gynecol 2016; online early:
doi: 10.1016/j.ajog.2016.09.095:

Morphine

Chisamore B, Labana S, Blitz S, Ordean A.
A comparison of morphine delivery in neonatal opioid withdrawal.
Subst Abus 2016; 10 Supplement 1: 49-54.

Phenytoin

Altheeb Z, Alziadat M, Shamoon F.
Phenytoin in treatment of methadone-induced Torsades de Pointes: a case report.
Am J Ther 2016; online early:
doi: 10.1097/MJT.0000000000000523:

Salicylate

Wu R-C, Chou P-T, Chen L-K.
Aspirin plus tirofiban inhibit the thrombosis induced by Russell's viper venom.
Thromb J 2016; 14 Supplement 1: 38.

Tauroursodeoxycholic acid

Paridaens A, Raevens S, Colle I, Bogaerts E, Vandewynckel Y-P, Verhelst X, Hoorens A, van Grunsven LA, Van Vlierberghe H, Geerts A, Devisscher L.
Combination of tauroursodeoxycholic acid and N-acetyl-cysteine exceeds standard treatment for acetaminophen intoxication.
Liver Int 2016; online early: doi: 10.1111/liv.13261:

DRUGS

General

Alexander PG, Clark KL, Tuan RS.
Prenatal exposure to environmental factors and congenital limb defects.
Birth Defects Res C Embryo Today Rev 2016; 108: 243-73.

Angelis MV, Giacomo RD, Muzio AD, Onofrj M, Bonanni L.
A subtle mimicker in emergency department: illustrated case reports of acute drug-induced dystonia.
Medicine (Baltimore) 2016; 95: e5137.

Atienzar FA, Blomme EA, Chen M, Hewitt P, Kenna JG, Labbe G, Moulin F, Pognan F, Roth AB, Suter-Dick L, Ukairo O, Weaver RJ, Will Y, Dambach DM.
Key challenges and opportunities associated with the use of in vitro models to detect human DILI: integrated risk assessment and mitigation plans.
BioMed Res Int 2016; 2016: 9737920.

Baz-Lomba JA, Salvatore S, Gracia-Lor E, Bade R, Castiglioni S, Castrignanò E, Causanilles A, Hernandez F, Kasprzyk-Hordern B, Kinyua J, McCall A-K, van Nuijs A, Ort C, Plósz BG, Ramin P, Reid M, Rousis NI, Ryu Y, de Voogt P, Bramness J, Thomas K.
Comparison of pharmaceutical, illicit drug, alcohol, nicotine and caffeine levels in wastewater with sale, seizure and consumption data for 8 European cities.
BMC Public Health 2016; 16: 1035.

Broschard TH, Glowienke S, Bruen US, Nagao LM, Teasdale A, Stults CLM, Li KL, Iciek LA, Erexson G, Martin EA, Ball DJ.
Assessing safety of extractables from materials and leachables in pharmaceuticals and biologics - Current challenges and approaches.
Regul Toxicol Pharmacol 2016; 81: 201-11.

Brown AK, Wong CS.
Simultaneous quantification of propranolol and sulfamethoxazole and major human metabolite conjugates 4-hydroxy-propranolol sulfate and sulfamethoxazole-beta-glucuronide in municipal wastewater-A framework for multiple classes of drugs and conjugates.
J Chromatogr A 2016; 1471: 34-44.

Cohier C, Mégarbane B, Roussel O.
Illicit drugs in oral fluid: evaluation of two collection devices.
J Anal Toxicol 2016; online early: doi: 10.1093/jat/bkw100:

Dash A, Figler RA, Sanyal AJ, Wamhoff BR.
Drug-induced steatohepatitis.
Expert Opin Drug Metab Toxicol 2016; online early: doi: 10.1080/17425255.2017.1246534:

Domingos LC, Moreira MV, Keller KM, Viana FA, Melo MM, Soto-Blanco B.
Simultaneous quantification of gatifloxacin, moxifloxacin, and besifloxacin concentrations in cornea and aqueous humor by LC-QTOF/MS after topical ocular dosing.
J Pharmacol Toxicol Methods 2016; 83: 87-93.

Funk C, Roth A.
Current limitations and future opportunities for prediction of DILI from in vitro.
Arch Toxicol 2016; online early: doi: 10.1007/s00204-016-1874-9:

Ganem VJ, Mora AG, Nnamani N, Bebarta VS.
A 3-year comparison of overdoses treated in a military emergency department- Complications, admission rates, and health care resources consumed.
Mil Med 2016; 181: 1281-6.

Gulec H, Babayigit M, Kurtay A, Sahap M, Ulus F, Tutal Z, Horasanli E.
Seizure due to multiple drugs intoxication: a case report.
Braz J Anesthesiol 2016; 66: 651-3.

Hiremath M, Craig S, Graudins A.
Adolescent deliberate self-poisoning in South-East Melbourne.
Emerg Med Australas 2016; online early:
doi: 10.1111/1742-6723.12681:

Hon KL, Chan MH, James Ng MH, Ho CC, Tsang YC, Tam WH, Ho CS.
Positive neonatal urine comprehensive drug screen, low birth weight and withdrawal symptoms in a neonatal unit: a case control study.
Curr Clin Pharmacol 2016; online early: PMID:27748174:

Hua A, Haight S, Hoffman RS, Manini AF.
Endotracheal intubation after acute drug overdoses: incidence, complications, and risk factors.
J Emerg Med 2016; online early:
doi: 10.1016/j.jemermed.2016.07.114:

Leece P, Gassanov M, Hopkins S, Marshall C, Millson P, Shahin R.
Process evaluation of the prevent overdose in Toronto (POINT) program.
Can J Public Health 2016; 107: e224-e230.

Lemaire E, Schmidt C, Denooz R, Charlier C, Boxho P.
Postmortem concentration and redistribution of diazepam, methadone, and morphine with subclavian and femoral vein dissection/clamping.
J Forensic Sci 2016; online early: doi: 10.1111/1556-4029.13213:

Lu R-J, Zhang Y, Tang F-L, Zheng Z-W, Fan Z-D, Zhu S-M, Qian X-F, Liu N-N.
Clinical characteristics of drug-induced liver injury and related risk factors.
Exp Ther Med 2016; 12: 2606-16.

Mehta PK, Bachhuber MA, Hoffman R, Srinivas SK.
Deaths from unintentional injury, homicide, and suicide during or within 1 year of pregnancy in Philadelphia.
Am J Public Health 2016; online early:
doi: 10.2105/AJPH.2016.303473:

Pandiri AR, Kerlin RL, Mann PC, Everds NE, Sharma AK, Myers LP, Steinbach TJ.
Is it adverse, nonadverse, adaptive, or artifact?
Toxicol Pathol 2016; online early:
doi: 10.1177/0192623316672352:

Reynoso-von Drateln C, Gómez-Hernández N, Rodríguez-Martínez N, Torres-Lozano C.
Recurrent toxic epidermal necrolysis syndrome: a report of two cases.

Drug Saf Case Rep 2016; 3: 9.

Sánchez-Sellero I, Soto-Varela A.
Instability due to drug-induced vestibulotoxicity.
J Int Adv Otol 2016; 12: 202-7.

Sobhonslidsuk A, Poovorawan K, Soonthornworasiri N, Pan-Ngum W, Phaosawasdi K.
The incidence, presentation, outcomes, risk of mortality and economic data of drug-induced liver injury from a national database in Thailand: a population-base study.
BMC Gastroenterol 2016; 16: 135.

Walz L, Jönsson AK, Zilg B, Östgren CJ, Druid H.
Risk factors for fatal hyperglycaemia confirmed by forensic postmortem examination - A nationwide cohort in Sweden.
PLoS ONE 2016; 11: e0164950.

7-hydroxymitragynine

Lydecker AG, Sharma A, McCurdy CR, Avery BA, Babu KM, Boyer EW.
Suspected adulteration of commercial Kratom products with 7-hydroxymitragynine.
J Med Toxicol 2016; online early: doi: 10.1007/s13181-016-0588-y:

Acetaminophen (see paracetamol)

Amfetamines and MDMA (ecstasy)

Richards JR, Lange RA, Arnold TC, Horowitz BZ.
Dual cocaine and methamphetamine cardiovascular toxicity: rapid resolution with labetalol.
Am J Emerg Med 2016; online early:
doi: 10.1016/j.ajem.2016.09.040:

Roohbakhsh A, Shirani K, Karimi G.
Methamphetamine-induced toxicity: the role of autophagy?
Chem Biol Interact 2016; online early:
doi: 10.1016/j.cbi.2016.10.012:

Anaesthetics

Davidson A.
The effect of anaesthesia on the infant brain.
Early Hum Dev 2016; 102: 37-40.

Benzocaine

Hieger MA, Afeld JL, Cumpston KL, Wills BK.
Topical benzocaine and methemoglobinemia.
Am J Ther 2016; online early:
doi: 10.1097/MJT.0000000000000521:

Bupivacaine

Tang W, Wang Q, Shi K, Dong J, Lin S, Zhao S, Wu C, Xia Y, Papadimos TJ, Xu X.
The effect of lipid emulsion on pharmacokinetics of bupivacaine in rats: long-chain triglyceride versus long- and medium-chain triglyceride.
Anesth Analg 2016; 123: 1116-22.

Lidocaine

Moellentin DL, Stewart D, Barbour J.
Case study of fatal stroke following intranasal lidocaine.
Hosp Pharm 2016; 51: 662-4.

Antiarrhythmic drugs

Amiodarone

Paudel R, Dogra P, Suman S, Acharya S, Matta J.
Acute liver and renal failure: a rare adverse effect exclusive to intravenous form of amiodarone.
Case Rep Crit Care 2016; 2016: 5232804.

Sweidan AJ, Singh NK, Dang N, Lam V, Datta J.
Amiodarone-induced pulmonary toxicity – A frequently missed complication.
Clin Med Insights Case Rep 2016; 9: 91-4.

Flecainide

Steinmetz M, Nickenig G, Sauerbruch T, Eyer F, Rabe C.
Effect of hemoperfusion on flecainide serum concentration - a case report.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1241400:

Antibiotics

Dapsone

Kang KS, Kim HI, Kim OH, Cha KC, Kim H, Lee KH, Hwang SO, Cha YS.
Clinical outcomes of adverse cardiovascular events in patients with acute dapsone poisoning.
Clin Exp Emerg Med 2016; 3: 41-5.

Vancomycin

Vora S.
Acute renal failure due to vancomycin toxicity in the setting of unmonitored vancomycin infusion.
Proc (Bayl Univ Med Cent) 2016; 29: 412-3.

Anticoagulants

Deville L, Konan M, Hij A, Goldwirt L, Peyrony O, Fieux F, Faure P, Madelaine I, Villiers S, Farge-Bancel D, Frère C.
Major bleeding complications in patients treated with direct oral anticoagulants: one-year observational study in a Paris Hospital.
Curr Res Transl Med 2016; 64: 129-33.

Dhakal P, Rayamajhi S, Verma V, Gundabolu K, Bhatt VR.
Reversal of anticoagulation and management of bleeding in patients on anticoagulants.
Clin Appl Thromb Hemost 2016; online early: doi: 10.1177/1076029616675970:

Lee LH.
DOACs – advances and limitations in real world.
Thromb J 2016; 14 Supplement 1: 17.

Morotti A, Goldstein JN.
New oral anticoagulants and their reversal agents.
Curr Treat Options Neurol 2016; 18: 47.

Dabigatran

Miller L, Ferreira JA, Tucker C.
Idarucizumab for reversal of dabigatran-associated bleeding: misnomer or miracle?
J Emerg Med 2016; online early:
doi: 10.1016/j.jemermed.2016.08.023:

Peetermans M, Verhamme P.
Answer by the authors to the letter of Dr. Wang and colleagues, concerning our case report entitled "Idarucizumab for dabigatran overdose".
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1240805:

Shapiro S, Bhatnagar N, Khan A, Beavis J, Keeling D.
Idarucizumab for dabigatran overdose in a child.
Br J Haematol 2016; online early: doi: 10.1111/bjh.14371:

Anticonvulsants

Nie Q, Su B, Wei J.
Neurological teratogenic effects of antiepileptic drugs during pregnancy.
Exp Ther Med 2016; 12: 2400-4.

Gabapentin

Sadones N, Van Bever E, Van Bortel L, Lambert WE, Stove CP.
Dried blood spot analysis of gabapentin as a valid alternative for serum: a bridging study.
J Pharm Biomed Anal 2016; 132: 72-6.

Zonisamide

McStay C, Pierce R, Riley C.
Complete recovery after acute zonisamide overdose in an adolescent female.
Pediatr Emerg Care 2016; online early:
doi: 10.1097/PEC.0000000000000854:

Antidepressants

Boumba VA, Rallis G, Petrikis P, Vougiouklakis T, Mavreas V.
Determination of clozapine, and five antidepressants in human plasma, serum and whole blood by gas chromatography-mass spectrometry: a simple tool for clinical and postmortem toxicological analysis.
J Chromatogr B Biomed Sci Appl 2016; 1038: 43-8.

Oconnor AB, O'Brien L, Alto WA, Wong J.
Does concurrent *in utero* exposure to buprenorphine and antidepressant medications influence the course of neonatal abstinence syndrome?
J Matern Fetal Neonatal Med 2016; 29: 112-4.

Antimalarial drugs

Mefloquine

Livezey J, Oliver T, Cantilena L.
Prolonged neuropsychiatric symptoms in a military service member exposed to mefloquine.
Drug Saf Case Rep 2016; 3: 7.

Quinine

Just JM, Weckbecker K, Just KS.
Quinine induced simvastatin toxicity through cytochrome inhibition - a case report.
BMC Geriatr 2016; 16: 168.

Antineoplastic drugs

Graeve CU, McGovern PM, Alexander B, Church T, Ryan A, Polovich M.
Occupational exposure to antineoplastic agents: an analysis of health care workers and their environments.
Workplace Health Saf 2016; online early:
doi: 10.1177/2165079916662660:

Cyclophosphamide

Runowski D, Brzezinska M, Kowalczyk M, Grenda R.
Severe acute cardiotoxicity following two intravenous doses of cyclophosphamide in an adolescent treated for rapidly progressive glomerulonephritis.
Kardiol Pol 2016; 74: 1027.

Fluoropyrimidine

Danesi R, Del Re M, Ciccolini J, Schellens JHM, Schwab M, van Schaik RHN, van Kuilenburg AB.
Prevention of fluoropyrimidine toxicity: do we still have to try our patient's luck?
Ann Oncol 2016; online early: doi: 10.1093/annonc/mdw448:

Romidepsin

Rivers ZT, Oostra DR, Westholder JS, Vercellotti GM.
Romidepsin-associated cardiac toxicity and ECG changes: a case report and review of the literature.
J Oncol Pharm Pract 2016; online early:
doi: 10.1177/1078155216673229:

Antipsychotics

Chen P-H, Lane H-Y, Lin C-H.
Venous thromboembolism following dantrolene treatment for neuroleptic malignant syndrome.
Clin Psychopharmacol Neurosci 2016; 14: 399-401.

Tomita T, Goto H, Sumiya K, Yoshida T, Tanaka K, Kohda Y.
Efficacy of adenine in the treatment of leukopenia and neutropenia associated with an overdose of antipsychotics or discontinuation of lithium carbonate administration: three case studies.
Clin Psychopharmacol Neurosci 2016; 14: 391-5.

Clozapine

Boumba VA, Rallis G, Petrikis P, Vougiouklakis T, Mavreas V.
Determination of clozapine, and five antidepressants in human plasma, serum and whole blood by gas chromatography-mass spectrometry: a simple tool for clinical and postmortem toxicological analysis.
J Chromatogr B Biomed Sci Appl 2016; 1038: 43-8.

Quetiapine

Vatsalya V, Pandey A, Schwandt ML, Cave MC, Barve SS, Ramchandani VA, McClain CJ.
Safety assessment of liver injury with quetiapine fumarate XR management in very heavy drinking alcohol-dependent patients.
Clin Drug Investig 2016; 36: 935-44.

Haloperidol

Izumi-Nakaseko H, Nakamura Y, Cao X, Wada T, Ando K, Sugiyama A.
Assessment of safety margin of an antipsychotic drug haloperidol for Torsade de Pointes using the chronic atrioventricular block dogs.
Cardiovasc Toxicol 2016; online early:
doi: 10.1007/s12012-016-9388-5:

Antituberculous drugs

Chogtu B, Surendra VU, Magazine R, Acharya PR, Yerrapragada DB.
Rifampicin-induced concomitant renal injury and hepatitis.
J Clin Diagn Res 2016; 10: OD18-OD19.

Mirlohi MS, Ekrami A, Shirali S, Ghobeishavi M, Pourmotahari F.
Hematological and liver toxicity of anti-tuberculosis drugs.
Electron Physician 2016; 8: 3005-10.

Baclofen

Porter LM, Merrick SS, Katz KD.
Baclofen toxicity in a patient with hemodialysis-dependent end-stage renal disease.
J Emerg Med 2016; online early:
doi: 10.1016/j.jemermed.2016.09.025:

Benzodiazepines

Niedrig DF, Hoppe L, Mächler S, Russmann H, Russmann S.
Benzodiazepine use during hospitalization: automated identification of potential medication errors and systematic assessment of preventable adverse events.
PLoS ONE 2016; 11: e0163224.

Sakshaug S, Handal M, Hjellvik V, Berg C, Ripel Å, Gustavsen I, Mørland J, Skurtveit S.
Long-term use of Z-hypnotics and co-medication with benzodiazepines and opioids.
Basic Clin Pharmacol Toxicol 2016; online early:
doi: 10.1111/bcpt.12684:

Skov L, Holm KM, Linnet K.
Nitrobenzodiazepines: postmortem brain and blood reference concentrations.
Forensic Sci Int 2016; 268: 39-45.

Phenazepam

van Wijk XM, Wu AH, Lynch KL, Vo KT, Ho RY.
Synthetic agents off the darknet: a case of U-47700 and phenazepam abuse.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1240806:

Caffeine

Nakaoka S, Kawasaki Y, Inomata S, Makimoto M, Yoshida T.
Caffeine toxicity in a preterm neonate.
Pediatr Neonatol 2016; online early:
doi: 10.1016/j.pedneo.2016.08.001:

Calcium channel blockers

St-Onge M, Anseeuw K, Cantrell FL, Gilchrist IC, Hantson P, Bailey B, Lavergne V, Gosselin S, Kerns W, II, Laliberté M, Lavonas EJ, Juurlink DN, Muscedere J, Yang CC, Sinuff T, Rieder M, Mégarbane B.
Experts consensus recommendations for the management of calcium channel blocker poisoning in adults.
Crit Care Med 2016; online early:
doi: 10.1097/CCM.0000000000002087:

Cannabis (marijuana)

Bondallaz P, Favrat B, Chtioui H, Fornari E, Maeder P, Giroud C.
Cannabis and its effects on driving skills.
Forensic Sci Int 2016; 268: 92-102.

Cadman PE.
Hypophosphatemia in users of cannabis.
Am J Kidney Dis 2016; online early:
doi: 10.1053/j.ajkd.2016.06.028:

Crippa JAS, Crippa ACS, Hallak JE, Martín-Santos R, Zuardi AW.
Δ9-THC intoxication by cannabidiol-enriched cannabis extract in two children with refractory epilepsy: full remission after switching to purified cannabidiol.
Front Pharmacol 2016; 7: 359.

Kulig K.
Interpretation of workplace tests for cannabinoids.
J Med Toxicol 2016; online early: doi: 10.1007/s13181-016-0587-z:

Mike TB, Shaw DS, Forbes EE, Sitnick SL, Hasler BP.
The hazards of bad sleep-sleep duration and quality as predictors of adolescent alcohol and cannabis use.
Drug Alcohol Depend 2016; 168: 335-9.

Moosmann B, Auwärter V.
Reply to Restolho *et al.* 'Contactless decontamination of hair samples: cannabinoids'.
Drug Test Anal 2016; online early: doi: 10.1002/dta.2125:

Murray D, Olson J, Lopez AS.
When the grass isn't greener: a case series of young children with accidental marijuana ingestion.
CJEM 2016; 18: 480-3.

Cocaine

Castells X, Cunill R, Pérez-Mañá C, Vidal X, Capellà D.
Psychostimulant drugs for cocaine dependence.
Cochrane Database Syst Rev 2016; 9: CD007380.

Moran LM, Phillips KA, Kowalczyk WJ, Ghitza UE, Agage DA, Epstein DH, Preston KL.
Aripiprazole for cocaine abstinence: a randomized-controlled trial with ecological momentary assessment.
Behav Pharmacol 2016; online early:
doi: 10.1097/FBP.0000000000000268:

Richards JR, Laurin EG, Tabish N, Lange RA.
Acute toxicity from topical cocaine for epistaxis: treatment with labetalol.
J Emerg Med 2016; online early:
doi: 10.1016/j.jemermed.2016.08.006:

Richards JR, Lange RA, Arnold TC, Horowitz BZ.
Dual cocaine and methamphetamine cardiovascular toxicity: rapid resolution with labetalol.
Am J Emerg Med 2016; online early:
doi: 10.1016/j.ajem.2016.09.040:

Wetzel HN, Tsibulsky VL, Norman AB.
The effects of a repeated dose of a recombinant humanized anti-cocaine monoclonal antibody on cocaine self-administration in rats.
Drug Alcohol Depend 2016; 168: 287-92.

Colchicine

Polat E, Tuygun N, Akca H, Karacan CD.
Evaluation of the colchicine poisoning cases in a pediatric intensive care unit: five year study.
J Emerg Med 2016; online early:
doi: 10.1016/j.jemermed.2016.08.019:

Dextromethorphan

Paul IM, Reynolds KM, Kauffman RE, Banner W, Bond GR, Palmer RB, Burnham RI, Green JL.
Adverse events associated with pediatric exposures to dextromethorphan.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1240803:

Ethacridine lactate

Koelzer SC, Held H, Toennes SW, Verhoff MA, Wunder C.
Self-induced illegal abortion with Rivanol®: a medicolegal-toxicological case report.
Forensic Sci Int 2016; 268: e18-e22.

Febuxostat

Kamel B, Graham GG, Williams KM, Pile KD, Day RO.
Clinical pharmacokinetics and pharmacodynamics of febuxostat.
Clin Pharmacokinet 2016; online early:
doi: 10.1007/s40262-016-0466-4:

Fowler's solution

Ho D, Lowenstein EJ.
Fowler's solution and the evolution of the use of arsenic in modern medicine.
Skinmed 2016; 14: 287-9.

Gamma hydroxybutyrate

Brailsford AD, Bartlett C, Kicman AT, Cowan DA.
Increases in serum growth hormone concentrations associated with GHB administration.
J Anal Toxicol 2016; online early: doi: 10.1093/jat/bkw107:

Busardò FP, Vaiano F, Mannocchi G, Bertol E, Zaami S, Marinelli E.
Twelve months monitoring of hair GHB decay following a single dose administration in a case of facilitated sexual assault.
Drug Test Anal 2016; online early: doi: 10.1002/dta.2100:

Lingford-Hughes A, Patel Y, Bowden-Jones O, Crawford MJ, Dargan PI, Gordon F, Parrott S, Weaver T, Wood DM.
Improving GHB withdrawal with baclofen: study protocol for a feasibility study for a randomised controlled trial.
Trials 2016; 17: 472.

Herbal medicines, ethnic remedies and dietary supplements

Bonhomme A, Poreaux C, Jouen F, Schmutz J-L, Gillet P, Barbaud A.
Bullous drug eruption to *Nigella sativa* oil: consideration of the use of an herbal medicine – clinical report and review of the literature.
J Eur Acad Dermatol Venereol 2016; online early: doi: 10.1111/jdv.13982:

Kioukia-Fougia N, Georgiadis N, Tsarouhas K, Vasilaki F, Fragiadaki P, Meimeti E, Tsitsimpikou C.
Synthetic and natural nutritional supplements: health "allies" or risk to public health?
Recent Pat Inflamm Allergy Drug Discov 2016; online early: PMID:27670346:

Navarro V, Khan I, Björnsson E, Seeff LB, Serrano J, Hoofnagle JH.
Liver injury from herbal and dietary supplements.
Hepatology 2016; online early: doi: 10.1002/hep.28813:

Sallon S, Dory Y, Barghouti Y, Tamdin T, Sangmo R, Tashi J, Yangdon S, Yeshi T, Sadutshang T, Rotenberg M, Cohen E, Harlavan Y, Sharabi G, Bdolah-Abram T.
Is mercury in Tibetan medicine toxic? Clinical, neuro-cognitive and biochemical results of an initial cross-sectional study.
Exp Biol Med 2016; online early:
doi: 10.1177/1535370216672748:

Zhang P, Ye Y, Yang X, Jiao Y.
Systematic review on Chinese herbal medicine induced liver injury.
Evid Based Complement Altern Med 2016; 2016: 3560812.

Heroin (diacetylmorphine)

Bazoukis G, Spiliopoulou A, Mourouzis K, Grigoropoulou P, Yalouris A.
Non-cardiogenic pulmonary edema, rhabdomyolysis and myocardial injury following heroin inhalation: a case report.
Hippokratia 2016; 20: 84-7.

Lefaucheur R, Lebas A, Gérardin E, Grangeon L, Ozkul-Wermester O, Aubier-Girard C, Martinaud O, Maltête D.
Leucoencephalopathy following abuse of sniffed heroin.
J Clin Neurosci 2016; online early:
doi: 10.1016/j.jocn.2016.09.023:

Hypnotics

Sakshaug S, Handal M, Hjellvik V, Berg C, Ripel Å, Gustavsen I, Mørland J, Skurtveit S.
Long-term use of Z-hypnotics and co-medication with benzodiazepines and opioids.
Basic Clin Pharmacol Toxicol 2016; online early:
doi: 10.1111/bcpt.12684:

Peetermans M, Verhamme P.
Answer by the authors to the letter of Dr. Wang and colleagues, concerning our case report entitled "Idarucizumab for dabigatran overdose".
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1240805:

Shapiro S, Bhatnagar N, Khan A, Beavis J, Keeling D.
Idarucizumab for dabigatran overdose in a child.
Br J Haematol 2016; online early: doi: 10.1111/bjh.14371:

Hypoglycaemic drugs

Metformin

Visconti L, Cernaro V, Ferrara D, Costantino G, Aloisi C, Amico L, Chirico V, Santoro D, Noto A, David A, Buemi M, Lacquaniti A.
Metformin-related lactic acidosis: is it a myth or an underestimated reality?
Ren Fail 2016; online early:
doi: 10.1080/0886022X.2016.1216723:

Ketamine

Han E, Kwon NJ, Feng L-Y, Li J-H, Chung H.
Illegal use patterns, side effects, and analytical methods of ketamine.
Forensic Sci Int 2016; 268: 25-34.

Kratom

Lydecker AG, Sharma A, McCurdy CR, Avery BA, Babu KM, Boyer EW.
Suspected adulteration of commercial Kratom products with 7-hydroxymitragynine.
J Med Toxicol 2016; online early: doi: 10.1007/s13181-016-0588-y:

Lithium

Shahzad B, Mughal MN, Tanveer M, Gupta D, Abbas G.
Is lithium biologically an important or toxic element to living organisms? an overview.
Environ Sci Pollut Res 2016; online early:
doi: 10.1007/s11356-016-7898-0:

Villeneuve E, Wang JJ, Grunbaum AM, Gosselin S.
Letter in response to "Lithium poisoning in the intensive care unit: predictive factors of severity and indications for extracorporeal toxin removal to improve outcome".
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1244338:

Vodovar D, Mégarbane B.
Defining predictive factors of severity and indications for extracorporeal toxin removal in lithium poisoning: not an easy objective!
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1244339:

Mephedrone

Kintz P.
Evidence of 2 populations of mephedrone abusers by hair testing. application to 4 forensic expertises.
Curr Neuropharmacol 2016; online early: PMID:27784226:

Methylergonovine

Corbett BM, O'Connell C, Boutin MA, Fatayerji NI, Sauer CW.
Inadvertent methylergonovine administration to a neonate.
Am J Case Rep 2016; 17: 770-3.

Chisamore B, Labana S, Blitz S, Ordean A.
A comparison of morphine delivery in neonatal opioid withdrawal.
Subst Abus 2016; 10 Supplement 1: 49-54.

Muscle relaxants

Dantrolene

Chen P-H, Lane H-Y, Lin C-H.
Venous thromboembolism following dantrolene treatment for neuroleptic malignant syndrome.
Clin Psychopharmacol Neurosci 2016; 14: 399-401.

Naloxone

Budnitz DS, Lovegrove MC, Sapiano MR, Mathew J, Kegler SR, Geller AI, Hampp C.
Notes from the field: Pediatric emergency department visits for buprenorphine/naloxone ingestion – United States, 2008–2015.
MMWR Morb Mortal Wkly Rep 2016; 65: 1148-9.

Sammon M, Dawood A, Beaudoin S, Harrigan RA.
An unusual case of alternating ventricular morphology on the 12-lead electrocardiogram.
J Emerg Med 2016; online early:
doi: 10.1016/j.jemermed.2016.08.027:

Nicotine

Cravo AS, Bush J, Sharma G, Savioz R, Martin C, Craige S, Walele T.
A randomised, parallel group study to evaluate the safety profile of an electronic vapour product over 12 weeks.
Regul Toxicol Pharmacol 2016; online early:
doi: 10.1016/j.yrtph.2016.10.003:

Khan S, Blanton MP, Chavez M.
Nicotine toxicity in a nursing home resident with dementia secondary to nicotine replacement treatment.
Prim Care Companion CNS Disord 2016; 18:
doi: 10.4088/PCC.15l01882.

Lee PN, Fariss MW.
A systematic review of possible serious adverse health effects of nicotine replacement therapy.
Arch Toxicol 2016; online early: doi: 10.1007/s00204-016-1856-y:

Mohamed NN, Loy SL, Man CN, Al-Mamun A, Jan Mohamed HJ.
Higher hair nicotine level in children compared to mother living with smoking father in Malaysia.
Environ Health Prev Med 2016; online early:
doi: 10.1007/s12199-016-0584-5:

Wigginton B, Gartner C, Rowlands IJ.
Is it safe to vape? analyzing online forums discussing e-cigarette use during pregnancy.
Womens Health Issues 2016; online early:
doi: 10.1016/j.whi.2016.09.008:

Novel psychoactive substances

Alexandrescu L.
NPS and the methadone queue: spillages of space and time.
Int J Drug Policy 2016; online early:
doi: 10.1016/j.drugpo.2016.09.009:

Berning M, Hardon A.
Educated guesses and other ways to address the pharmacological uncertainty of designer drugs: an exploratory study of experimentation through an online drug forum.
Contemp Drug Probl 2016; 43: 277-92.

Lau NK, Chong YK, Tang MHY, Ching CK, Mak TWL.
Desoxy-D2PM: a novel psychoactive substance in convenience stores.
Hong Kong Med J 2016; 22: 515.

Michely JA, Manier SK, Caspar AT, Brandt SD, Wallach J, Maurer HH.
New psychoactive substances 3-methoxyphencyclidine (3-MeO-PCP) and 3-methoxyrolicyclidine (3-MeO-PCPy): metabolic fate elucidated with rat urine and human liver preparations and their detectability in urine by GC-MS, LC-(high resolution)-MSn, and LC-high resolution-MS/MS.
Curr Neuropharmacol 2016; online early: PMID:27758707:

Negus SS, Banks ML.
Decoding the structure of abuse potential for new psychoactive substances: structure-activity relationships for abuse-related effects of 4-substituted methcathinone analogs.
Curr Top Behav Neurosci 2016; online early:
doi: 10.1007/7854_2016_18:

Steuer AE, Williner E, Staeheli S, Kraemer T.
Studies on the metabolism of the fentanyl-derived designer drug butyrfentanyl in human in vitro liver preparations and authentic human samples using liquid chromatography-high resolution mass spectrometry (LC-HRMS).
Drug Test Anal 2016; online early:
doi: 10.1002/dta.2111:

Designer benzodiazepines

Høiseth G, Tuv SS, Karinen R.
Blood concentrations of new designer benzodiazepines in forensic cases.
Forensic Sci Int 2016; 268: 35-8.

Kintz P, Richeval C, Jamey C, Ameline A, Allorge D, Gaulier J-M, Raul J-S.
Detection of the designer benzodiazepine metizolam, in urine and preliminary data on its metabolism.
Drug Test Anal 2016; online early:
doi: 10.1002/dta.2099:

Synthetic cannabinoids

Anon.
Synthetic cannabinoid poisoning: a growing health concern.
Nursing 2016; 46: 41-2.

Borg D, Tverdovsky A, Stripp R.
A fast and comprehensive analysis of 32 synthetic cannabinoids using agilent triple quadrupole LC-MS-MS.
J Anal Toxicol 2016; online early:
doi: 10.1093/jat/bkw104:

Cannaert A, Storme J, Franz F, Auwärter V, Stove CP.
Detection and activity profiling of synthetic cannabinoids and metabolites with a newly developed bio-assay.
Anal Chem 2016; online early:
doi: 10.1021/acs.analchem.6b02600:

Fitzpatrick D, O'Meara P, Cunningham A.
Pre-hospital identification and post-recovery challenges of intoxication with synthetic cannabinoid containing legal high products such as 'Exodus Damnation'.
Scott Med J 2016; online early:
doi: 10.1177/0036933016659177:

Haden M, Archer JRH, Dargan PI, Wood DM.
MDMB-CHMICA: availability, patterns of use, and toxicity associated with this novel psychoactive substance.
Subst Use Misuse 2016; online early:
doi: 10.1080/10826084.2016.1223692:

Järbe TUC, Raghav JG.
Tripping with synthetic cannabinoids ("Spice"): anecdotal and experimental observations in animals and man.
Curr Top Behav Neurosci 2016; online early:
doi: 10.1007/7854_2016_16:

Jones JD, Nolan ML, Daver R, Comer SD, Paone D.
Can naloxone be used to treat synthetic cannabinoid overdose?
Biol Psychiatry 2016; online early:
doi: 10.1016/j.biopsych.2016.08.013:

Phillips J, Lim F, Hsu R.
Synthetic cannabinoid poisoning: a growing health concern.
Nursing 2016; 46: 34-41.

Samaan J, Ferrer GF, Akinyemi B, Junquera P, Oms J, Dumenigo R.
Synthetic cannabis overdose and withdrawal in a young adult: a case report, commentary on regulation, and review of the literature.
Case Rep Psychiatry 2016; 2016: 3640549.

Tournebize J, Gibaja V, Kahn J-P.
Acute effects of synthetic cannabinoids: update 2015.
Subst Abus 2016; online early:
doi: 10.1080/08897077.2016.1219438:

Wiley JL, Marusich JA, Thomas BF.
Combination chemistry: structure-activity relationships of novel psychoactive cannabinoids.
Curr Top Behav Neurosci 2016; online early:
doi: 10.1007/7854_2016_17:

Synthetic cathinones

Angoa-Pérez M, Anneken JH, Kuhn DM.
Neurotoxicology of synthetic cathinone analogs.
Curr Top Behav Neurosci 2016; online early:
doi: 10.1007/7854_2016_21:

Botanas CJ, Yoon SS, de la Peña JB, dela Peña IJ, Kim M, Woo T, Seo J-W, Jang C-G, Park K-T, Lee YH, Lee YS, Kim HJ, Cheong JH.
A novel synthetic cathinone, 2-(methylamino)-1-(naphthalene-2-yl) propan-1-one (BMAPN), produced rewarding effects and altered striatal dopamine-related gene expression in mice.
Behav Brain Res 2016; 317: 494-501.

Glicksberg L, Bryand K, Kerrigan S.
Identification and quantification of synthetic cathinones in blood and urine using liquid chromatography-quadrupole/time of flight (LC-Q/TOF) mass spectrometry.
J Chromatogr B Biomed Sci Appl 2016; 1035: 91-103.

Patel N, Ford L, Jones R, Bradberry SM, Vale JA.
Poisoning to α-pyrrolidinovalerophenone (α–PVP), a synthetic cathinone.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1248291:

Zona LC, Grecco GG, Sprague JE.
Cooling down the bath salts: carvedilol attenuation of methylone and mephedrone mediated hyperthermia.
Toxicol Lett 2016; online early:
doi: 10.1016/j.toxlet.2016.10.012:

Synthetic opioids

Lucyk SN, Nelson LS.
Novel synthetic opioids: an opioid epidemic within an opioid epidemic.
Ann Emerg Med 2016; online early:
doi: 10.1016/j.annemergmed.2016.08.445:

Schneir A, Metushi IG, Fitzgerald RL.
U-47700 reply.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1239108:

van Wijk XM, Wu AH, Lynch KL, Vo KT, Ho RY.
Synthetic agents off the darknet: a case of U-47700 and phenazepam abuse.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1240806:

NSAIDs

Diclofenac

Lonappan L, Brar SK, Das RK, Verma M, Surampalli RY.
Diclofenac and its transformation products: environmental occurrence and toxicity - A review.
Environ Int 2016; 96: 127-38.

Mefenamic acid

Kamour A, Crichton S, Cooper G, Lupton DJ, Eddleston M, Vale JA, Thompson JP, Thomas SHL.
Central nervous system toxicity of mefenamic acid overdose compared to other NSAIDs: an analysis of cases reported to the United Kingdom National Poisons Information Service.
Br J Clin Pharmacol 2016; online early:
doi: 10.1111/bcp.13169:

Naproxen

McIntyre IM, Valdez JE, Lucas JR.
An acute fatality and post-mortem concentration distribution reveals a low potential for naproxen redistribution.
J Can Soc Forensic Sci 2016; 49: 203-10.

Opioids

Ayanga D, Shorter D, Kosten TR.
Update on pharmacotherapy for treatment of opioid use disorder.
Expert Opin Pharmacother 2016; online early:
doi: 10.1080/14656566.2016.1244529:

Boscarino JA, Kirchner HL, Pitcavage JM, Nadipelli VR, Ronquest NA, Fitzpatrick MH, Han JJ.
Factors associated with opioid overdose: a 10-year retrospective study of patients in a large integrated health care system.
Subst Abuse Rehabil 2016; 7: 131-41.

Brindley PG, Douma MJ.
Opioids and overdoses: time to get serious; time to get sensible.
J Crit Care 2016; online early:
doi: 10.1016/j.jcrc.2016.09.015:

Chisamore B, Labana S, Blitz S, Ordean A.
A comparison of morphine delivery in neonatal opioid withdrawal.
Subst Abus 2016; 10 Supplement 1: 49-54.

Dodington J, Violano P, Baum CR, Bechtel K.
Drugs, guns and cars: how far we have come to improve safety in the United States; yet we still have far to go.

Pediatr Res 2016; online early: doi: 10.1038/pr.2016.193:

Dowell D, Zhang K, Noonan RK, Hockenberry JM.
Mandatory provider review and pain clinic laws reduce the amounts of opioids prescribed and overdose death rates.
Health Aff 2016; 35: 1876-83.

Kolinsky D, Keim SM, Cohn BG, Schwarz ES, Yealy DM.
Is a prehospital treat and release protocol for opioid overdose safe?
J Emerg Med 2016; online early:
doi: 10.1016/j.jemermed.2016.09.015:

Li W, Wang Z, Liu Z.
Factors associated with illicit opioid use in methadone maintenance treatment clients in 5 Provinces, China.
Environ Health Prev Med 2016; online early:
doi: 10.1007/s12199-016-0570-y:

McCarthy JJ, Leamon MH, Finnegan LP, Fassbender C.
Opioid dependence and pregnancy: minimizing stress on the fetal brain.
Am J Obstet Gynecol 2016; online early:
doi: 10.1016/j.ajog.2016.10.003:

Mücke S, Nagel M, Siedentopf JP, Bührer C, Hüseman D.
Neonatal abstinence syndrome: twelve years of experience at a regional referral center.
Klin Padiatr 2016; online early: doi: 10.1055/s-0042-115300:

Parmar MKB, Strang J, Choo L, Meade AM, Bird SM.
Randomized controlled pilot trial of naloxone-on-release to prevent post-prison opioid overdose deaths.
Addiction 2016; online early: doi: 10.1111/add.13668:

Rowe C, Vittinghoff E, Santos G-M, Behar E, Turner C, Coffin P.
Performance measures of diagnostic codes for detecting opioid overdose in the emergency department.
Acad Emerg Med 2016; online early:
doi: 10.1111/acem.13121:

Sakshaug S, Handal M, Hjellvik V, Berg C, Ripel Å, Gustavsen I, Mørland J, Skurtveit S.
Long-term use of Z-hypnotics and co-medication with benzodiazepines and opioids.
Basic Clin Pharmacol Toxicol 2016; online early:
doi: 10.1111/bcpt.12684:

Sammon M, Dawood A, Beaudoin S, Harrigan RA.
An unusual case of alternating ventricular morphology on the 12-lead electrocardiogram.
J Emerg Med 2016; online early:
doi: 10.1016/j.jemermed.2016.08.027:

Sitasuwan P, Melendez C, Marinova M, Mastrianni KR, Darragh A, Ryan E, Lee LA.
Degradation of opioids and opiates during acid hydrolysis leads to reduced recovery compared to enzymatic hydrolysis.
J Anal Toxicol 2016; 40: 601-7.

Socias ME, Wood E, Small W, Dong H, Shoveller J, Kerr T, Montaner J, Milloy M-J.
Methadone maintenance therapy and viral suppression among HIV-infected opioid users: the impacts of crack and injection cocaine use.
Drug Alcohol Depend 2016; 168: 211-8.

Buprenorphine

Budnitz DS, Lovegrove MC, Sapiano MR, Mathew J, Kegler SR, Geller AI, Hampp C.
Notes from the field: Pediatric emergency department visits for buprenorphine/naloxone ingestion – United States, 2008–2015.
MMWR Morb Mortal Wkly Rep 2016; 65: 1148-9.

Oconnor AB, O'Brien L, Alto WA, Wong J.
Does concurrent *in utero* exposure to buprenorphine and antidepressant medications influence the course of neonatal abstinence syndrome?
J Matern Fetal Neonatal Med 2016; 29: 112-4.

Toce MS, Burns MM, O'Donnell KA.
Clinical effects of unintentional pediatric buprenorphine exposures: experience at a single tertiary care center.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1244337:

Wurst KE, Zedler BK, Joyce AR, Sasinowski M, Murrelle EL.
A Swedish population-based study of adverse birth outcomes among pregnant women treated with buprenorphine or methadone: preliminary findings.
Subst Abus 2016; 10: 89-97.

Fentanyl

Cummings OT, Enders J, McIntire GL.
Response to: Fentanyl-norfentanyl concentrations during transdermal patch application: LC-MS-MS urine analysis.
J Anal Toxicol 2016; online early: doi: 10.1093/jat/bkw117:

Heikkinen EM, Kokki H, Heikkinen A, Ranta V-P, Räsänen J, Voipio H-M, Kokki M.
Foetal fentanyl exposure and ion trapping after intravenous and transdermal administration to the ewe.
Basic Clin Pharmacol Toxicol 2016; online early:
doi: 10.1111/bcpt.12665:

Kitamura S, Kawano T, Kaminaga S, Yamanaka D, Tateiwa H, Locatelli FM, Yokoyama M.
Effects of fentanyl on serotonin syndrome-like behaviors in rats.
J Anesth 2016; 30: 178-82.

Latimer J, Ling S, Flaherty I, Jauncey M, Salmon AM.
Risk of fentanyl overdose among clients of the Sydney medically supervised injecting centre.
Int J Drug Policy 2016; 37: 111-4.

Lee D, Chronister CW, Broussard WA, Utley-Bobak SR, Schultz DL, Vega RS, Goldberger BA.
Illicit fentanyl-related fatalities in Florida: toxicological findings.
J Anal Toxicol 2016; 40: 588-94.

Ruan X, Chiravuri S, Kaye AD.
Fentanyl-norfentanyl concentrations during transdermal patch application: LC-MS-MS urine analysis.
J Anal Toxicol 2016; online early:
doi: 10.1093/jat/bkw115:

Steuer AE, Williner E, Staeheli S, Kraemer T.
Studies on the metabolism of the fentanyl-derived designer drug butyrfentanyl in human in vitro liver preparations and authentic human samples using liquid chromatography-high resolution mass spectrometry (LC-HRMS).
Drug Test Anal 2016; online early:
doi: 10.1002/dta.2111:

Hydromorphone

Cantrell FL, Sherrard J, Andrade M, Schaber B, McIntyre IM.
A pediatric fatality due to accidental hydromorphone inges-tion.

Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1247958:

Methadone

Altheeb Z, Alziadat M, Shamoon F.
Phenytoin in treatment of methadone-induced Torsades de Pointes: a case report.
Am J Ther 2016; online early:
doi: 10.1097/MJT.0000000000000523:

Wurst KE, Zedler BK, Joyce AR, Sasinowski M, Murrelle EL.
A Swedish population-based study of adverse birth outcomes among pregnant women treated with buprenorphine or methadone: preliminary findings.
Subst Abus 2016; 10: 89-97.

Morphine

Anderson RJ, Corbett B, Ly BT.
A case of acute pericarditis following intravenous injection of crushed morphine tablets.
J Psychoactive Drugs 2016; online early:
doi: 10.1080/02791072.2016.1242028:

Tramadol

Marashi SM.
How much tramadol should be considered lethal in overdose?
Arh Hig Rada Toksikol 2016; 67: 259.

Paracetamol (acetaminophen)

Du K, Ramachandran A, Jaeschke H.
Oxidative stress during acetaminophen hepatotoxicity: sources, pathophysiological role and therapeutic potential.
Redox Biol 2016; 10: 148-56.

Gaber M, Wong A, Koutsogiannis Z, Greene SL.
Massive paracetamol overdose associated with mitochondrial dysfunction and pancytopenia, without hepatotoxicity.
Eur J Emerg Med 2016; 23: 460-2.

Paridaens A, Raevens S, Colle I, Bogaerts E, Vandewynckel Y-P, Verhelst X, Hoorens A, van Grunsven LA, Van Vlierberghe H, Geerts A, Devisscher L.
Combination of tauroursodeoxycholic acid and N-acetyl-cysteine exceeds standard treatment for acetaminophen intoxication.
Liver Int 2016; online early: doi: 10.1111/liv.13261:

Serper M, Wolf MS, Parikh NA, Tillman H, Lee WM, Ganger DR.
Risk factors, clinical presentation, and outcomes in overdose with acetaminophen alone or with combination products: results from the Acute Liver Failure Study Group.
J Clin Gastroenterol 2016; 50: 85-91.

Tan CJY, Sklar GE.
Characterisation and outcomes of adult patients with paracetamol overdose presenting to a tertiary hospital in Singapore.
Singapore Med J 2016; online early:
doi: 10.11622/smedj.2016170:

Vliegenthart ADB, Kimmitt RA, Seymour JH, Homer NZ, Clarke JI, Eddleston M, Gray A, Wood DM, Dargan PI, Cooper JG, Antoine DJ, Webb DJ, Lewis SC, Bateman DN, Dear JW.
Circulating acetaminophen metabolites are toxicokinetic biomarkers of acute liver injury.
Clin Pharmacol Ther 2016; online early:
doi: 10.1002/cpt.541:

Wojciechowski J, Desrochers J, Klein-Schwartz W, Doyon S, Gobburu JV, Gopalakrishnan M.
To antidote or not? web-based antidote recommendation tool for acute acetaminophen overdose.
Clin Pharmacol Drug Dev 2016; 5 Suppl 1: 45.

Yarema MC, Green JP, Sivilotti ML, Johnson DW, Nettel-Aguirre A, Victorino C, Spyker DA, Rumack BH.
Can a serum acetaminophen concentration obtained less than 4 hours post-ingestion determine which patients do not require treatment with acetylcysteine?
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1247959:

Prednisolone

Robinson J, McKenzie C, MacLeod D.
Paediatric dosing errors with oral prednisolone mixture.
Aust Prescrib 2016; 39: 176.

Psychotropic drugs

Trawinski J, Skibinski R.
Studies on photodegradation process of psychotropic drugs: a review.
Environ Sci Pollut Res 2016; online early:
doi: 10.1007/s11356-016-7727-5:

Salicylate

Beauchamp GA, Hendrickson RG.
Delayed salicylate toxicity in a 17-year-old girl with initially undetectable salicylate concentration 3.9 hours after ingestion.
Pediatr Emerg Care 2016; online early:
doi: 10.1097/PEC.0000000000000859:

Watanabe T.
Normal anion gap metabolic acidosis in salicylate overdose.
Am J Emerg Med 2016; online early:
doi: 10.1016/j.ajem.2016.09.034:

Sedatives

Propofol

Bosnjak ZJ, Logan S, Liu Y, Bai X.
Recent insights into molecular mechanisms of propofol-induced developmental neurotoxicity: implications for the protective strategies.
Anesth Analg 2016; 123: 1286-96.

Eziefule AA, Elshatanoufy S, Thakur M, Rocha FG.
Propofol-related infusion syndrome in the peripartum period.
Am J Perinatol 2016; 6: e368-e371.

Zopiclone

Jordahn Z, Andersen C, Roust Aaberg AM, Pott FC.
Reversal of a suspected paradoxical reaction to zopiclone with flumazenil.
Case Rep Crit Care 2016; 2016: 3185873.

SSRIs and SNRIs

Juurlink D.
Revisiting the drug interaction between tamoxifen and SSRI antidepressants.
Br Med J 2016; 354: i5309.

Kaplan YC, Keskin-Arslan E, Acar S, Sozmen K.
Prenatal selective serotonin reuptake inhibitor use and the risk of autism spectrum disorder in children: a systematic review and meta-analysis.

Reprod Toxicol 2016; 66: 31-43.

Fluoxetine

Alves V, Conceição C, Gonçalves J, Teixeira HM, Câmara JS.
Improved analytical approach based on QuECHERS/UHPLC-PDA for quantification of fluoxetine, clomipramine and their active metabolites in human urine samples.
J Anal Toxicol 2016; online early:
doi: 10.1093/jat/bkw077:

Substance abuse

Ali K, Rosser T, Bhat R, Wolff K, Hannam S, Rafferty GF, Greenough A.
Antenatal smoking and substance-misuse, infant and newborn response to hypoxia.
Pediatr Pulmonol 2016; online early:
doi: 10.1002/ppul.23620:

Cheng V, Inaba K, Johnson M, Byerly S, Jiang Y, Matsushima K, Haltmeier T, Benjamin E, Lam L, Demetriades D.
The impact of pre-injury controlled substance use on clinical outcomes after trauma.
J Trauma Acute Care Surg 2016; 81: 913-20.

Cohier C, Mégarbane B, Roussel O.
Illicit drugs in oral fluid: evaluation of two collection devices.
J Anal Toxicol 2016; online early:
doi: 10.1093/jat/bkw100:

Han E, Kwon NJ, Feng L-Y, Li J-H, Chung H.
Illegal use patterns, side effects, and analytical methods of ketamine.
Forensic Sci Int 2016; 268: 25-34.

Kintz P.
Evidence of 2 populations of mephedrone abusers by hair testing. application to 4 forensic expertises.
Curr Neuropharmacol 2016; online early: PMID:27784226:

Kiyatkin EA, Ren SE.
MDMA, methylone, and MDPV: drug-induced brain hyperthermia and its modulation by activity state and environment.
Curr Top Behav Neurosci 2016; online early:
doi: 10.1007/7854_2016_35:

Latimer J, Ling S, Flaherty I, Jauncey M, Salmon AM.
Risk of fentanyl overdose among clients of the Sydney medically supervised injecting centre.
Int J Drug Policy 2016; 37: 111-4.

Lee D, Chronister CW, Broussard WA, Utley-Bobak SR, Schultz DL, Vega RS, Goldberger BA.
Illicit fentanyl-related fatalities in Florida: toxicological findings.
J Anal Toxicol 2016; 40: 588-94.

Lefaucheur R, Lebas A, Gérardin E, Grangeon L, Ozkul-Wermester O, Aubier-Girard C, Martinaud O, Maltête D.
Leucoencephalopathy following abuse of sniffed heroin.
J Clin Neurosci 2016; online early:
doi: 10.1016/j.jocn.2016.09.023:

Li W, Wang Z, Liu Z.
Factors associated with illicit opioid use in methadone maintenance treatment clients in 5 Provinces, China.
Environ Health Prev Med 2016; online early: doi: 10.1007/s12199-016-0570-y:

Mancke F, Kaklauskaite G, Kollmer J, Weiler M.
Psychiatric comorbidities in a young man with subacute myelopathy induced by abusive nitrous oxide consumption: a case report.
Subst Abuse Rehabil 2016; 7: 155-9.

Margolis A, Rosca P, Kurs R, Sznitman SR, Grinshpoon A.
Routine drug screening for patients in the emergency department of a state psychiatric hospital: a naturalistic cohort study.
J Dual Diagn 2016; online early:
doi: 10.1080/15504263.2016.1252075:

Mash DC.
Excited delirium and sudden death: a syndromal disorder at the extreme end of the neuropsychiatric continuum.
Front Physiol 2016; 7: 435.

Middleton J, McGrail S, Stringer K.
Drug related deaths in England and Wales.
Br Med J 2016; 355: i5259.

Ottaviani G, Cameriere R, Cippitelli M, Froldi R, Tassoni G, Zampi M, Cingolani M.
Determination of drugs of abuse in a single sample of human teeth by a gas chromatography-mass spectrometry method.
J Anal Toxicol 2016; online early:
doi: 10.1093/jat/bkw105:

Scott N, Carrotte ER, Higgs P, Cogger S, Stoové MA, Aitken CK, Dietze PM.
Longitudinal changes in psychological distress in a cohort of people who inject drugs in Melbourne, Australia.
Drug Alcohol Depend 2016; 168: 140-6.

Sheridan DC, Hendrickson RG, Beauchamp G, Laurie A, Fu R, Horowitz BZ.
Adolescent intentional abuse ingestions: overall 10-year trends and regional variation.
Pediatr Emerg Care 2016; online early:
doi: 10.1097/PEC.0000000000000866:

Wolfson-Stofko B, Bennett AS, Elliott L, Curtis R.
Drug use in business bathrooms: an exploratory study of manager encounters in New York city.
Int J Drug Policy 2016; 39: 69-77.

Tamoxifen

Juurlink D.
Revisiting the drug interaction between tamoxifen and SSRI antidepressants.
Br Med J 2016; 354: i5309.

Tré-Hardy M, Capron A, Antunes MV, Linden R, Wallemacq P.
Fast method for simultaneous quantification of tamoxifen and metabolites in dried blood spots using an entry level LC-MS/MS system.
Clin Biochem 2016; 49: 1295-8.

Tricyclic antidepressants

Clomipramine

Alves V, Conceição C, Gonçalves J, Teixeira HM, Câmara JS.
Improved analytical approach based on QuECHERS/UHPLC-PDA for quantification of fluoxetine, clomipramine and their active metabolites in human urine samples.
J Anal Toxicol 2016; online early:
doi: 10.1093/jat/bkw077:

Direk MÇ, Yildirim V, Günes S, Bozlu G, Okuyaz Ç.
Serotonin syndrome after clomipramine overdose in a child.
Clin Psychopharmacol Neurosci 2016; 14: 388-90.

Veterinary products

Florfenicol

Hu D, Han Z, Li C, Lv L, Cheng Z, Liu S.
Florfenicol induces more severe hemotoxicity and immunotoxicity than equal doses of chloramphenicol and thiamphenicol in Kunming mice.
Immunopharmacol Immunotoxicol 2016; online early:
doi: 10.1080/08923973.2016.1247853:

Vitamins

Calciferol

Wani M, Wani I, Banday K, Ashraf M.
The other side of vitamin D therapy: a case series of acute kidney injury due to malpractice-related vitamin D intoxication.
Clin Nephrol 2016; 86: 236-41.

CHEMICAL INCIDENTS AND POLLUTION

Air pollution

Li Z, Commodore A, Hartinger S, Lewin M, Sjödin A, Pittman E, Trinidad D, Hubbard K, Lanata CF, Gil AI, Mäusezahl D, Naeher LP.
Biomonitoring human exposure to household air pollution and association with self-reported health symptoms - a stove intervention study in Peru.
Environ Int 2016; online early:
doi: 10.1016/j.envint.2016.09.011:

Lynch HN, Loftus CT, Cohen JM, Kerper LE, Kennedy EM, Goodman JE.
Weight-of-evidence evaluation of associations between particulate matter exposure and biomarkers of lung cancer.
Regul Toxicol Pharmacol 2016; online early:
doi: 10.1016/j.yrtph.2016.10.006:

Mandal P, Sarkar R, Mandal A, Patel P, Kamal N.
Study on airborne heavy metals in industrialized urban area of Delhi, India.
Bull Environ Contam Toxicol 2016; online early:
doi: 10.1007/s00128-016-1944-y:

Exhaust fumes

Manzetti S, Andersen O.
Biochemical and physiological effects from exhaust emissions. a review of the relevant literature.
Pathophysiology 2016; online early:
doi: 10.1016/j.pathophys.2016.10.002:

Pollution and hazardous waste

Bergamo P, Volpe MG, Lorenzetti S, Mantovani A, Notari T, Cocca E, Cerullo S, Di Stasio M, Cerino P, Montano L.
Human semen as an early, sensitive biomarker of highly polluted living environment in healthy men: a pilot biomonitoring study on trace elements in blood and semen and their relationship with sperm quality and RedOx status.
Reprod Toxicol 2016; 66: 1-9.

Foster WG, Evans JA, Little J, Arbour L, Moore A, Sauve R, Andrés León J, Luo W.
Human exposure to environmental contaminants and congenital anomalies: a critical review.
Crit Rev Toxicol 2016; online early:
doi: 10.1080/10408444.2016.1211090:

Hennebert P, Samaali I, Molina P.
A proposal for a test method for assessment of hazard property HP 12 ("Release of an acute toxic gas") in hazardous waste classification - experience from 49 waste.
Waste Manag 2016; online early:
doi: 10.1016/j.wasman.2016.09.022:

Kim H-M, Youn C-H, Ko HJ, Lee S-H, Lee Y-M.
The relationship between the blood level of persistent organic pollutants and common gastrointestinal symptoms.
Korean J Fam Med 2016; 37: 267-72.

Water pollution

Brown AK, Wong CS.
Simultaneous quantification of propranolol and sulfamethoxazole and major human metabolite conjugates 4-hydroxy-propranolol sulfate and sulfamethoxazole-beta-glucuronide in municipal wastewater-A framework for multiple classes of drugs and conjugates.
J Chromatogr A 2016; 1471: 34-44.

Olaniyan LWB, Mkwetshana N, Okoh AI.
Triclosan in water, implications for human and environmental health.
Springerplus 2016; 5: 1639.

CHEMICALS

General

Haby MM, Soares A, Chapman E, Clark R, Korc M, Galvão LAC.
Interventions that facilitate sustainable development by preventing toxic exposure to chemicals: an overview of systematic reviews.
Rev Panam Salud Publica 2016; 39: 378-86.

Kim S, Im S, Choi Y, Park S, Hyun J, Lee KS, Lee S, Lee S, Seo J, Kim JH, Na H, Kim M.
A call for action from workers, local residents, and consumers: a safe society from toxic chemicals.
Environ Health Toxicol 2016; 31: e2016020.

Ling SLY, Mcd Taylor D, Robinson J.
Workplace chemical and toxin exposures reported to a Poisons Information Centre: a diverse range causing variable morbidity.
Eur J Emerg Med 2016; online early:
doi: 10.1097/MEJ.0000000000000430:

Abrin

Liu X, Zhao Y, Sun C, Wang X, Wang X, Zhang P, Qiu J, Yang R, Zhou L.
Rapid detection of abrin in foods with an up-converting phosphor technology-based lateral flow assay.
Sci Rep 2016; 6: 34926.

Acrylamide

Wang Q, Chen X, Ren Y, Chen Q, Meng Z, Cheng J, Zheng Y, Zeng W, Zhao Q, Zhang Y.
Toxicokinetics and internal exposure of acrylamide: new insight into comprehensively profiling mercapturic acid metabolites as short-term biomarkers in rats and Chinese adolescents.
Arch Toxicol 2016; online early: doi: 10.1007/s00204-016-1869-6:

Alcohol (ethanol)

Gerrity RS, Pizon AF, King AM, Katz KD, Menke NB.
A patient with alcoholic ketoacidosis and profound lactemia.
J Emerg Med 2016; 51: 447-9.

Koh C, Minns A, Rosen P.
A practical approach to the ethanol-intoxicated patient in the emergency department.
J Emerg Med 2016; 51: 463-4.

Lu DL, Lin XL.
Development of psychotic symptoms following ingestion of small quantities of alcohol.
Neuropsychiatr Dis Treat 2016; 12: 2449-54.

Mike TB, Shaw DS, Forbes EE, Sitnick SL, Hasler BP.
The hazards of bad sleep-sleep duration and quality as predictors of adolescent alcohol and cannabis use.
Drug Alcohol Depend 2016; 168: 335-9.

Mitra B, Charters KE, Spencer JC, Fitzgerald MC, Cameron PA.
Alcohol intoxication in non-motorised road trauma.
Emerg Med Australas 2016; online early:
doi: 10.1111/1742-6723.12682:

Shanmugarajah PD, Hoggard N, Currie S, Aeschlimann DP, Aeschlimann PC, Gleeson DC, Karajeh M, Woodroofe N, Grunewald RA, Hadjivassiliou M.
Alcohol-related cerebellar degeneration: not all down to toxicity?
Cerebellum Ataxias 2016; 3: 17.

Yan S, Wang Z-H, Yen H, Lee Y-J, Yin M.
Reversal of ethanol-induced hepatotoxicity by cinnamic and syringic acids in mice.
Food Chem Toxicol 2016; 98 Part B: 119-26.

Asbestos

Andujar P, Lacourt A, Brochard P, Pairon J-C, Jaurand M-C, Jean D.
Five years update on relationships between malignant pleural mesothelioma and exposure to asbestos and other elongated mineral particles.
J Toxicol Environ Health B Crit Rev 2016; 19: 151-72.

Baumann F, Carbone M.
Environmental risk of mesothelioma in the United States: an emerging concern—epidemiological issues.
J Toxicol Environ Health B Crit Rev 2016; 19: 231-49.

Lemen RA.
Mesothelioma from asbestos exposures: epidemiologic patterns and impact in the United States.
J Toxicol Environ Health B Crit Rev 2016; 19: 250-65.

Levin JL, Rouk A, Shepherd S, Hurst GA, McLarty JW.
Tyler asbestos workers: a mortality update in a cohort exposed to amosite.
J Toxicol Environ Health B Crit Rev 2016; 19: 190-200.

Soeberg MJ, Leigh J, van Zandwijk N.
Malignant mesothelioma in Australia 2015: current incidence and asbestos exposure trends.
J Toxicol Environ Health B Crit Rev 2016; 19: 173-89.

Batteries

Bates N, Blackett T, Edwards N.
Battery ingestion in dogs.
Vet Rec 2016; 179: 335.

Bromodichloromethane

Pagé-Larivière F, Tremblay A, Campagna C, Rodriguez MJ, Sirard M-A.
Low concentrations of bromodichloromethane induce a toxicogenomic response in porcine embryos in vitro.
Reprod Toxicol 2016; 66: 44-55.

Carbon monoxide

Bicilioglu Y, Anil M, Yilmaz I, Bal A, Gokalp G, Kamit Can F, Zengin N, Durak F, Anil AB.
Clinical and laboratory characteristics of unintentional carbon monoxide poisoning due to coal stove in children.
Toxin Rev 2016; online early:
doi: 10.1080/15569543.2016.1241277:

Croll LS, Wightman RS, Hoffman RS.
In response to: "Single versus multiple hyperbaric sessions for carbon monoxide poisoning in a murine model".
J Med Toxicol 2016; online early: doi: 10.1007/s13181-016-0589-x:

Lee J-H, Kim H-S, Park J-H, Kim MS, Sun BJ, Ryu S, Kim SS, Jin SA, Kim JH, Choi SW, Jeong J-O, Kwon I-S, Seong I-W.
Incidence and clinical course of left ventricular systolic dysfunction in patients with carbon monoxide poisoning.
Korean Circ J 2016; 46: 665-71.

Oh B-J, Im Y-G, Park E, Min Y-G, Choi S-C.
Treatment of acute carbon monoxide poisoning with induced hypothermia.
Clin Exp Emerg Med 2016; 3: 100-4.

Ozyurt A, Karpuz D, Yucel A, Tosun MD, Kibar AE, Hallioglu O.
Effects of acute carbon monoxide poisoning on ECG and echocardiographic parameters in children.
Cardiovasc Toxicol 2016; online early:
doi: 10.1007/s12012-016-9389-4:

Özgök-Kangal MK, Karatop-Cesur I, Akcali G, Yildiz S, Uzun G.
Requests for emergency hyperbaric oxygen treatment for carbon monoxide poisoning in Ankara, Turkey.
Diving Hyperb Med 2016; 46: 176-80.

Rose JJ, Wang L, Xu Q, McTiernan CF, Shiva S, Tejero J, Gladwin MT.
Carbon monoxide poisoning: pathogenesis, management and future directions of therapy.
Am J Respir Crit Care Med 2016; online early:
doi: 10.1164/rccm.201606-1275CI:

Chlorine

Hemström P, Larsson A, Elfsmark L, Åstot C.
L-α-phosphatidylglycerol chlorohydrins as potential bio-markers for chlorine gas exposure.
Anal Chem 2016; 88: 9972-9.

Chlorobenzenes

Tsubokura Y, Hasegawa R, Aso S, Kobayashi T, Koga T, Hoshuyama S, Oshima Y, Miyata K, Kusune Y, Muroi T, Hashizume N, Inoue Y, Ajimi S, Furukawa K.
Combined repeated-dose and reproductive/developmental toxicity screening test of 1-*tert*-butoxy-4-chlorobenzene in rats.
Drug Chem Toxicol 2016; online early:
doi: 10.1080/01480545.2016.1236265:

Chloroform

Jayaweera D, Islam S, Gunja N, Cowie C, Broska J, Poojara L, Roberts MS, Isbister GK.
Chloroform ingestion causing severe gastrointestinal injury, hepatotoxicity and dermatitis confirmed with plasma chloroform concentrations.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1249795:

Contrast media

Su X, Xie X, Liu L, Lv J, Song F, Perkovic V, Zhang H.
Comparative effectiveness of 12 treatment strategies for preventing contrast-induced acute kidney injury: a systematic review and Bayesian network meta-analysis.
Am J Kidney Dis 2016; online early:
doi: 10.1053/j.ajkd.2016.07.033:

Dichloroethane

Sweeney LM, Gargas ML.
Route-to-route extrapolation of 1,2-dichloroethane studies from the oral route to inhalation using physiologically based pharmacokinetic models.
Regul Toxicol Pharmacol 2016; 81: 468-79.

Disinfectants

Kim S, Im S, Choi Y, Park S, Hyun J, Lee KS, Lee S, Lee S, Seo J, Kim JH, Na H, Kim M.
A call for action from workers, local residents, and consumers: a safe society from toxic chemicals.
Environ Health Toxicol 2016; 31: e2016020.

E-cigarettes and e-liquids

Azzopardi D, Patel K, Jaunky T, Santopietro S, Camacho OM, McAughey J, Gaça M.
Electronic cigarette aerosol induces significantly less cytotoxicity than tobacco smoke.
Toxicol Mech Methods 2016; 26: 477-91.

Cravo AS, Bush J, Sharma G, Savioz R, Martin C, Craige S, Walele T.
A randomised, parallel group study to evaluate the safety profile of an electronic vapour product over 12 weeks.
Regul Toxicol Pharmacol 2016; online early:
doi: 10.1016/j.yrtph.2016.10.003:

Dixit R.
Special issue on electronic cigarettes.
Toxicol Mech Methods 2016; 26: 389-91.

Hess IMR, Lachireddy K, Capon A.
A systematic review of the health risks from passive exposure to electronic cigarette vapour.
Public Health Res Pract 2016; 26: e2621617.

Hiemstra PS, Bals R.
Basic science of electronic cigarettes: assessment in cell culture and *in vivo* models.
Respir Res 2016; 17: 127.

Taylor M, Carr T, Oke O, Jaunky T, Breheny D, Lowe F, Gaça M.
E-cigarette aerosols induce lower oxidative stress in vitro when compared to tobacco smoke.
Toxicol Mech Methods 2016; 26: 465-76.

Wigginton B, Gartner C, Rowlands IJ.
Is it safe to vape? analyzing online forums discussing e-cigarette use during pregnancy.
Womens Health Issues 2016; online early:
doi: 10.1016/j.whi.2016.09.008:

Endocrine disrupting chemicals

Giulivo M, Lopez de Alda M, Capri E, Barceló D.
Human exposure to endocrine disrupting compounds: their role in reproductive systems, metabolic syndrome and breast cancer. a review.
Environ Res 2016; 151: 251-64.

Ethylene glycol

Erickson HL.
Case report of a fatal antifreeze ingestion with a record high level and impressive renal crystal deposition.
Case Rep Crit Care 2016; 2016: 3101476.

Sankaralingam A, Thomas A, James D, Wierzbicki AS.
ANNALS EXPRESS: assessment of a semi-quantitative screening method for diagnosis of ethylene glycol poisoning.
Ann Clin Biochem 2016; online early:
doi: 10.1177/0004563216672892:

Explosives

2,4-dinitroanisole

Lent EM, Crouse LCB, Wallace SM.
Oral toxicity of 2,4-dinitroanisole in rats.
Int J Toxicol 2016; online early:
doi: 10.1177/1091581816670321:

Flame retardants

Knudsen GA, Hughes MF, Sanders JM, Hall SM, Birnbaum LS.
Estimation of human percutaneous bioavailability for two novel brominated flame retardants, 2-ethylhexyl 2,3,4,5-tetrabromobenzoate (EH-TBB) and bis(2-ethylhexyl) tetrabromophthalate (BEH-TEBP).
Toxicol Appl Pharmacol 2016; online early:
doi: 10.1016/j.taap.2016.10.005:

Knudsen GA, Sanders JM, Hughes MF, Hull EP, Birnbaum LS.
The biological fate of decabromodiphenyl ethane following oral, dermal or intravenous administration.
Xenobiotica 2016; online early:
doi: 10.1080/00498254.2016.1250180:

Flavonoids

Mérida-Ortega Á, Hernández-Alcaraz C, Hernández-Ramírez RU, García-Martínez A, Trejo-Valdivia B, Salinas-Rodríguez A, Svensson K, Cebrián ME, Franco-Marina F, López-Carrillo L.
Phthalate exposure, flavonoid consumption and breast cancer risk among Mexican women.
Environ Int 2016; 96: 167-72.

Fluorine

Dec K, Lukomska A, Maciejewska D, Jakubczyk K, Baranowska-Bosiacka I, Chlubek D, Wasik A, Gutowska I.
The influence of fluorine on the disturbances of homeostasis in the central nervous system.
Biol Trace Elem Res 2016; online early:
doi: 10.1007/s12011-016-0871-4:

Formaldehyde

Albertini RJ, Kaden DA.
Do chromosome changes in blood cells implicate formaldehyde as a leukemogen?
Crit Rev Toxicol 2016; online early:
doi: 10.1080/10408444.2016.1211987:

Formic acid

Liu D-M, Zhou S, Chen J-M, Peng S-Y, Xia W-T.
The intoxication effects of methanol and formic acid on rat retina function.
J Ophthalmol 2016; 2016: 4087096.

Fragrance compounds

Api AM, Belsito D, Bhatia S, Bruze M, Calow P, Dagli ML, Dekant W, Fryer AD, Kromidas L, Cava SL, Lalko JF, Lapczynski A, Liebler DC, Politano VT, Ritacco G, Salvito D, Schultz TW, Shen J, Sipes IG, Wall B, Wilcox DK.
RIFM fragrance ingredient safety assessment, ethylene brassylate, CAS Registry Number 105-95-3.
Food Chem Toxicol 2016; online early:
doi: 10.1016/j.fct.2016.09.032:

Api AM, Belsito D, Bhatia S, Bruze M, Calow P, Dagli ML, Dkant W, Fryer AD, Kromidas L, La CS, Lalko JF, Lapczynski A, Liebler DC, Penning TM, Politano VT, Ritacco G, Salvito D, Schultz TW, Shen J, Sipes IG, Wall B, Wilcox DK.
RIFM fragrance ingredient safety assessment, linalyl benzoate, CAS registry number 126-64-7.
Food Chem Toxicol 2016; online early:
doi: 10.1016/j.fct.2016.09.023:

Api AM, Belsito D, Bhatia S, Bruze M, Calow P, Dagli ML, Dekant W, Fryer AD, Kromidas L, Cava SL, Lalko JF, Lapczynski A, Liebler DC, Miyachi Y, Politano VT, Ritacco G, Salvito D, Shen J, Schultz TW, Sipes IG, Wall B, Wilcox DK.
RIFM fragrance ingredient safety assessment, 1,3,3-trimethyl-2-norbornanyl acetate, CAS registry number 13851-11-1.
Food Chem Toxicol 2016; online early:
doi: 10.1016/j.fct.2016.09.031:

Api AM, Belsito D, Bhatia S, Bruze M, Burton GA, Jr., Buschmann J, Calow P, Dagli ML, Dekant W, Fryer AD, Kromidas L, La Cava S, Lapczynski A, Liebler DC, O'Brien D, Parakhia R, Penning TM, Politano VT, Ritacco G, Salvito D, Schultz TW, Shen J, Sipes IG, Wall B, Wilcox DK.
RIFM fragrance ingredient safety assessment, 2-hydroxy-α,α,4-trimethylcyclohexanemethanol, CAS registry number 42822-86-6.
Food Chem Toxicol 2016; online early:
doi: 10.1016/j.fct.2016.10.009:

Api AM, Belsito D, Bhatia S, Bruze M, Calow P, Dagli ML, Dekant W, Fryer AD, Kromidas L, La Cava S, Lalko JF, Lapczynski A, Liebler DC, Politano VT, Ritacco G, Salvito D, Schultz TW, Shen J, Sipes IG, Wall B, Wilcox DK.
RIFM fragrance ingredient safety assessment, isopropyl-phenylbutanal, CAS registry number 125109-85-5.
Food Chem Toxicol 2016; online early:
doi: 10.1016/j.fct.2016.10.018:

Api AM, Belsito D, Bhatia S, Bruze M, Calow P, Dagli ML, Dekant W, Fryer AD, Kromidas L, La Cava S, Lalko JF, Lapczynski A, Liebler DC, Miyachi Y, Politano VT, Ritacco G, Salvito D, Schultz TW, Shen J, Sipes IG, Wall B, Wilcox DK.
RIFM fragrance ingredient safety assessment, isobornyl propionate, CAS registry number 2756-56-1.
Food Chem Toxicol 2016; online early:
doi: 10.1016/j.fct.2016.10.008:

Api AM, Belsito D, Bhatia S, Bruze M, Calow P, Dagli ML, Dekant W, Fryer AD, Kromidas L, La Cava S, Lalko JF, Lapczynski A, Liebler DC, Miyachi Y, Politano VT, Ritacco G, Salvito D, Schultz TW, Shen J, Sipes IG, Wall B, Wilcox DK.
RIFM fragrance ingredient safety assessment, 1-(3,3-dimethylcyclohexyl)pent-4-en-1-one, CAS registry number 56973-87-6.
Food Chem Toxicol 2016; online early:
doi: 10.1016/j.fct.2016.10.007:

Halogenated hydrocarbons

Rusch GM.
An approach for the development of emergency response levels for halogenated hydrocarbons.
Regul Toxicol Pharmacol 2016; 81: 33-8.

Melamine

Wen JG, Liu XJ, Wang ZM, Li TF, Wahlqvist ML.
Melamine-contaminated milk formula and its impact on children.
Asia Pac J Clin Nutr 2016; 25: 697-705.

Methanol

Liu D-M, Zhou S, Chen J-M, Peng S-Y, Xia W-T.
The intoxication effects of methanol and formic acid on rat retina function.
J Ophthalmol 2016; 2016: 4087096.

Zakharov S, Pelclova D, Navratil T, Belacek J, Latta J, Pisar M, Rulisek J, Leps J, Zidek P, Kucera C, Bocek R, Mazur M, Belik Z, Chalupa J, Talafa V, Kodras K, Nalos D, Sedlak C, Senkyrik M, Smid J, Salek T, Roberts DM, Hovda KE.
Efficiency of acidemia correction on intermittent versus continuous hemodialysis in acute methanol poisoning.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1250901:

Nanoparticles

Heringa MB, Geraets L, van Eijkeren JCH, Vandebriel RJ, de Jong WH, Oomen AG.
Risk assessment of titanium dioxide nanoparticles via oral exposure, including toxicokinetic considerations.
Nanotoxicology 2016; online early:
doi: 10.1080/17435390.2016.1238113:

Organotin compounds

Lee E, Park JE, Iida M, Fujie T, Kaji T, Ichihara G, Weon YC, Kim Y.
Magnetic resonance imaging of leukoencephalopathy in amnestic workers exposed to organotin.
Neurotoxicology 2016; 57: 128-35.

Paraphenylenediamine

Zahir A, Kindred C, Blömeke B, Goebel C, Gaspari AA.
Tolerance to a hair dye product containing 2-methoxy-methyl-p-phenylenediamine in an ethnically diverse population of p-phenylenediamine-allergic individuals.
Dermatitis 2016; online early:
doi: 10.1097/DER.0000000000000230:

Perfluorinated compounds

Bjerregaard-Olesen C, Ghisari M, Bonefeld-Jørgensen EC.
Activation of the estrogen receptor by human serum extracts containing mixtures of perfluorinated alkyl acids from pregnant women.
Environ Res 2016; 151: 71-9.

Wang B, Chen Q, Shen L, Zhao S, Pang W, Zhang J.
Perfluoroalkyl and polyfluoroalkyl substances in cord blood of newborns in Shanghai, China: implications for risk assessment.
Environ Int 2016; 97: 7-14.

Perillaldehyde

Hobbs CA, Taylor SV, Beevers C, Lloyd M, Bowen R, Lillford L, Maronpot R, Hayashi S.
Genotoxicity assessment of the flavouring agent, perillaldehyde.
Food Chem Toxicol 2016; 97: 232-42.

Personal care products

Torres T, Cunha I, Martins R, Santos MM.
Screening the toxicity of selected personal care products using embryo bioassays: 4-MBC, propylparaben and triclocarban.
Int J Mol Sci 2016; 17: 1762.

Petrol (gasoline) and petroleum oils

Petroleum coke

Dourson ML, Chinkin LR, MacIntosh DL, Finn JA, Brown KW, Reid SB, Martinez JM.
A case study of potential human health impacts from petroleum coke transfer facilities.
J Air Waste Manag Assoc 2016; 66: 1061-76.

Phthalate esters

Alves A, Koppen G, Vanermen G, Covaci A, Voorspoels S.
Long-term exposure assessment to phthalates: how do nail analyses compare to commonly used measurements in urine.
J Chromatogr B Biomed Sci Appl 2016; 1036-1037: 124-35.

Mérida-Ortega Á, Hernández-Alcaraz C, Hernández-Ramírez RU, García-Martínez A, Trejo-Valdivia B, Salinas-Rodríguez A, Svensson K, Cebrián ME, Franco-Marina F, López-Carrillo L.
Phthalate exposure, flavonoid consumption and breast cancer risk among Mexican women.
Environ Int 2016; 96: 167-72.

Polychlorinated biphenyls

Rahbar MH, Samms-Vaughan M, Hessabi M, Dickerson AS, Lee MJ, Bressler J, Tomechko SE, Moreno EK, Loveland KA, Desai CC, Shakespeare-Pellington S, Reece J-A, Morgan R, Geiger MJ, O'Keefe ME, Grove ML, Boerwinkle E.
Concentrations of polychlorinated biphenyls and organo-chlorine pesticides in umbilical cord blood serum of newborns in Kingston, Jamaica.
Int J Environ Res Public Health 2016; 13: 1032.

Polycyclic aromatic hydrocarbons

Alicandro G, Rota M, Boffetta P, La Vecchia C.
Occupational exposure to polycyclic aromatic hydrocarbons and lymphatic and hematopoietic neoplasms: a systematic review and meta-analysis of cohort studies.
Arch Toxicol 2016; 90: 2643-56.

Rodríguez-Seijo A, Cachada A, Gavina A, Duarte AC, Vega FA, Andrade ML, Pereira R.
Lead and PAHs contamination of an old shooting range: a case study with a holistic approach.
Sci Total Environ 2016; 575: 367-77.

Pyrrolizidine alkaloids

Dalefield RR, Gosse MA, Mueller U.
A 28-day oral toxicity study of echimidine and lasiocarpine in Wistar rats.
Regul Toxicol Pharmacol 2016; 81: 146-54.

Sodium nitrate

Theobald JL, Spoelhof R, Pallasch EM, Mycyk MB.
The beef jerky blues: methemoglobinemia from home cured meat.
Pediatr Emerg Care 2016; online early:
doi: 10.1097/PEC.0000000000000917:

Solvents

Pyrrolidone

Saillenfait AM, Marquet F, Sabaté JP, Ndiaye D, Lambert-Xolin AM.
4-Week repeated dose oral toxicity study of N-ethyl-2-pyrrolidone in Sprague Dawley rats.
Regul Toxicol Pharmacol 2016; 81: 275-83.

Titanium dioxide

Heringa MB, Geraets L, van Eijkeren JCH, Vandebriel RJ, de Jong WH, Oomen AG.
Risk assessment of titanium dioxide nanoparticles via oral exposure, including toxicokinetic considerations.
Nanotoxicology 2016; online early:
doi: 10.1080/17435390.2016.1238113:

Tobacco

Ali K, Rosser T, Bhat R, Wolff K, Hannam S, Rafferty GF, Greenough A.
Antenatal smoking and substance-misuse, infant and newborn response to hypoxia.
Pediatr Pulmonol 2016; online early:
doi: 10.1002/ppul.23620:

Azzopardi D, Patel K, Jaunky T, Santopietro S, Camacho OM, McAughey J, Gaça M.
Electronic cigarette aerosol induces significantly less cytotoxicity than tobacco smoke.
Toxicol Mech Methods 2016; 26: 477-91.

Barupal DK, Pinkerton KE, Hood C, Kind T, Fiehn O.
Environmental tobacco smoke alters metabolic systems in adult rats.
Chem Res Toxicol 2016; online early:
doi: 10.1021/acs.chemrestox.6b00187:

Lindson-Hawley N, Hartmann-Boyce J, Fanshawe TR, Begh R, Farley A, Lancaster T.
Interventions to reduce harm from continued tobacco use.
Cochrane Database Syst Rev 2016; 10: CD005231.

Schaller J-P, Pijnenburg JPM, Ajithkumar A, Tricker AR.
Evaluation of the tobacco heating system 2.2. Part 3: influence of the tobacco blend on the formation of harmful and potentially harmful constituents of the tobacco heating system 2.2 aerosol.
Regul Toxicol Pharmacol 2016; online early:
doi: 10.1016/j.yrtph.2016.10.016:

Taylor M, Carr T, Oke O, Jaunky T, Breheny D, Lowe F, Gaça M.
E-cigarette aerosols induce lower oxidative stress in vitro when compared to tobacco smoke.
Toxicol Mech Methods 2016; 26: 465-76.

Wong ET, Kogel U, Veljkovic E, Martin F, Xiang Y, Boue S, Vuillaume G, Leroyb P, Guedj E, Rodrigo G, Ivanov NV, Hoeng J, Peitsch MC, Vanscheeuwijck P.
Evaluation of the tobacco heating system 2.2. part 4: 90-day OECD 413 rat inhalation study with systems toxicology endpoints demonstrates reduced exposure effects compared with cigarette smoke.
Regul Toxicol Pharmacol 2016; online early:
doi: 10.1016/j.yrtph.2016.10.015:

Trichloroethylene

Walker DI, Uppal K, Zhang L, Vermeulen R, Smith M, Hu W, Purdue MP, Tang X, Reiss B, Kim S, Li L, Huang H, Pennell KD, Jones DP, Rothman N, Lan Q.

High-resolution metabolomics of occupational exposure to trichloroethylene.
Int J Epidemiol 2016; online early:
doi: 10.1093/ije/dyw218:

Triclosan

Olaniyan LWB, Mkwetshana N, Okoh AI.
Triclosan in water, implications for human and environmental health.
Springerplus 2016; 5: 1639.

METALS

General

Glorennec P, Lucas J-P, Mercat A-C, Roudot A-C, Le Bot B.
Environmental and dietary exposure of young children to inorganic trace elements.
Environ Int 2016; 97: 28-36.

Mandal P, Sarkar R, Mandal A, Patel P, Kamal N.
Study on airborne heavy metals in industrialized urban area of Delhi, India.
Bull Environ Contam Toxicol 2016; online early:
doi: 10.1007/s00128-016-1944-y:

Škrbic B, Živancev J, Jovanovic G, Farre M.
Essential and toxic elements in commercial baby food on the Spanish and Serbian market.
Food Addit Contam Part B Surveill 2016; online early: doi: 10.1080/19393210.2016.1242661:

Zhou T, Li Z, Zhang F, Jiang X, Shi W, Wu L, Christie P.
Concentrations of arsenic, cadmium and lead in human hair and typical foods in eleven Chinese cities.
Environ Toxicol Pharmacol 2016; 48: 150-6.

Arsenic

Cubadda F, D'Amato M, Aureli F, Raggi A, Mantovani A.
Dietary exposure of the Italian population to inorganic arsenic: the 2012–2014 Total Diet Study.
Food Chem Toxicol 2016; online early:
doi: 10.1016/j.fct.2016.10.015:

Ho D, Lowenstein EJ.
Fowler's solution and the evolution of the use of arsenic in modern medicine.
Skinmed 2016; 14: 287-9.

Zhang A, Li H, Xiao Y, Chen L, Zhu X, Li J, Ma L, Pan X, Chen W, He Z.
Aberrant methylation of nucleotide excision repair genes is associated with chronic arsenic poisoning.
Biomarkers 2016; online early:
doi: 10.1080/1354750X.2016.1217933:

Copper

Kumar V, Kalita J, Bora HK, Misra UK.
Temporal kinetics of organ damage in copper toxicity: a histopathological correlation in rat model.
Regul Toxicol Pharmacol 2016; 81: 372-80.

Gadolinium

Ramalho J, Ramalho M, Jay M, Burke L, Semelka RC.
Gadolinium toxicity and treatment.
Magn Reson Imaging 2016; online early:
doi: 10.1016/j.mri.2016.09.005:

Iron

Hamilton JL, Ul-Haq MI, Creagh AL, Haynes CA, Kizhakkedathu JN.
Iron binding and iron removal efficiency of desferrioxamine based polymeric iron chelators: influence of molecular size and chelator density.
Macromol Biosci 2016; online early:
doi: 10.1002/mabi.201600244:

Lead

Fralick M, Thomspson A, Mourad O.
Lead toxicity from glazed ceramic cookware.
Can Med Assoc J 2016; online early:
doi: 10.1503/cmaj.160182:

Karwowski MP, Morman SA, Plumlee GS, Law T, Kellogg M, Woolf AD.
Toxicants in folk remedies: implications of elevated blood lead in an American-born infant due to imported diaper powder.
Environ Geochem Health 2016; online early:
doi: 10.1007/s10653-016-9881-6:

Keller B, Faciano A, Tsega A, Ehrlich J.
Epidemiologic characteristics of children with blood lead levels ≥45 μg/dL.
J Pediatr 2016; online early:
doi: 10.1016/j.jpeds.2016.09.017:

Nally E, Jelinek J, Bunning RD.
Quadriparesis due to lead poisoning nine years after a gunshot wound with retained bullet fragments: a case report.
PM R 2016; online early: doi: 10.1016/j.pmrj.2016.09.012:

Nussbaumer-Streit B, Yeoh B, Griebler U, Pfadenhauer LM, Busert LK, Lhachimi SK, Lohner S, Gartlehner G.
Household interventions for preventing domestic lead exposure in children.
Cochrane Database Syst Rev 2016; 10: CD006047.

Rodríguez-Seijo A, Cachada A, Gavina A, Duarte AC, Vega FA, Andrade ML, Pereira R.
Lead and PAHs contamination of an old shooting range: a case study with a holistic approach.
Sci Total Environ 2016; 575: 367-77.

Tsoi M-F, Cheung C-L, Cheung TT, Cheung BM.
Continual decrease in blood lead level in Americans: United States National Health Nutrition and Examination Survey 1999-2014.
Am J Med 2016; 129: 1213-8.

Vallverdú-Coll N, Mougeot F, Ortiz-Santaliestra ME, Castaño C, Santiago-Moreno J, Mateo R.
Effects of lead exposure on sperm quality and reproductive success in an avian model.
Environ Sci Technol 2016; online early:
doi: 10.1021/acs.est.6b04231:

Lithium

Shahzad B, Mughal MN, Tanveer M, Gupta D, Abbas G.
Is lithium biologically an important or toxic element to living organisms? an overview.
Environ Sci Pollut Res 2016; online early:
doi: 10.1007/s11356-016-7898-0:

Villeneuve E, Wang JJ, Grunbaum AM, Gosselin S.
Letter in response to "Lithium poisoning in the intensive care unit: predictive factors of severity and indications for extracorporeal toxin removal to improve outcome".
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1244338:

Vodovar D, Mégarbane B.

Defining predictive factors of severity and indications for extracorporeal toxin removal in lithium poisoning: not an easy objective!
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1244339:

Mercury

Colvin NE, Mahan PL, Harris J.
Methylmercury exposure in women of childbearing age and children.
Workplace Health Saf 2016; online early:
doi: 10.1177/2165079916664102:

Gregory S, Iles-Caven Y, Hibbeln JR, Taylor CM, Golding J.
Are prenatal mercury levels associated with subsequent blood pressure in childhood and adolescence? the Avon prebirth cohort study.
BMJ Open 2016; 6: e012425.

Mahvi AH, Shalbafan M, Nabizadeh R, Nasseri S, Jorfi S, Ramavandi B, Ahmadi M.
Estimation of anthropogenic mercury emission from various sources in Iran.
Toxin Rev 2016; online early:
doi: 10.1080/15569543.2016.1245199:

Manceau A, Enescu M, Simionovici A, Lanson M, Gonzalez-Rey M, Rovezzi M, Tucoulou R, Glatzel P, Nagy KL, Bourdineaud J-P.
Chemical forms of mercury in human hair reveal sources of exposure.
Environ Sci Technol 2016; 50: 10721-9.

Selenium

Agarwal P, Sharma S, Agarwal US.
Selenium toxicity: a rare diagnosis.
Indian J Dermatol Venereol Leprol 2016; 82: 690-3.

Thallium

Karbowska B.
Presence of thallium in the environment: sources of contaminations, distribution and monitoring methods.
Environ Monit Assess 2016; 188: 640.

Kuroda H, Mukai Y, Nishiyama S, Takeshita T, Tateyama M, Takeda A, Aoki M.
Tardily accelerated neurologic deterioration in two-step thallium intoxication.
J Clin Neurosci 2016; online early:
doi: 10.1016/j.jocn.2016.09.003:

Tin

Lee E, Park JE, Iida M, Fujie T, Kaji T, Ichihara G, Weon YC, Kim Y.
Magnetic resonance imaging of leukoencephalopathy in amnestic workers exposed to organotin.
Neurotoxicology 2016; 57: 128-35.

Titanium

Heringa MB, Geraets L, van Eijkeren JCH, Vandebriel RJ, de Jong WH, Oomen AG.
Risk assessment of titanium dioxide nanoparticles via oral exposure, including toxicokinetic considerations.
Nanotoxicology 2016; online early:
doi: 10.1080/17435390.2016.1238113:

Tungsten

Bolt AM, Mann KK.
Tungsten: an emerging toxicant, alone or in combination.
Curr Environ Health Rep 2016; online early: doi: 10.1007/s40572-016-0106-z:

Uranium

Stammler L, Uhl A, Mayer B, Keller F.
Renal effects and carcinogenicity of occupational exposure to uranium: a meta-analysis.
Nephron Extra 2016; 6: 1-11.

Vanadium

Rajendran N, Seagrave JC, Plunkett LM, MacGregor JA.
A comparative assessment of the acute inhalation toxicity of vanadium compounds.
Inhal Toxicol 2016; online early:
doi: 10.1080/08958378.2016.1233309:

PESTICIDES

General

Calvert GM, Beckman J, Prado JB, Bojes H, Schwartz A, Mulay P, Leinenkugel K, Higgins S, Lackovic M, Waltz J, Stover D, Moraga-McHaley S.
Acute occupational pesticide-related illness and injury - United States, 2007-2011.
MMWR Morb Mortal Wkly Rep 2016; 63: 11-6.

Casida JE, Durkin KA.
Pesticide chemical research in toxicology: lessons from nature.
Chem Res Toxicol 2016; online early:
doi: 10.1021/acs.chemrestox.6b00303:

Gangemi S, Miozzi E, Teodoro M, Briguglio G, De Luca A, Alibrando C, Polito I, Libra M.
Occupational exposure to pesticides as a possible risk factor for the development of chronic diseases in humans (Review).
Mol Med Rep 2016; 14: 4475-88.

Mostafalou S, Abdollahi M.
Pesticides: an update of human exposure and toxicity.
Arch Toxicol 2016; online early: doi: 10.1007/s00204-016-1849-x:

Park S, Lee S, Park S, Gil H, Lee E, Yang J, Hong S.
Concurrent hemoperfusion and hemodialysis in patients with acute pesticide intoxication.
Blood Purif 2016; 42: 329-36.

Rekhadevi PV, Rahman MF, Mahboob M, Kumari SI, Chinde S, Bhanuramya M, Naresh D, Grover P.
Assessment of genotoxicity in female agricultural workers exposed to pesticides.
Biomarkers 2016; online early:
doi: 10.1080/1354750X.2016.1252954:

Ueker ME, Silva VM, Moi GP, Pignati WA, Mattos IE, Silva AMC.
Parenteral exposure to pesticides and occurence of congenital malformations: hospital-based case-control study.
BMC Pediatr 2016; 16: 125.

van Wendel de Joode B, Mora AM, Lindh CH, Hernández-Bonilla D, Córdoba L, Wesseling C, Hoppin JA, Mergler D.
Pesticide exposure and neurodevelopment in children aged 6-9 years from Talamanca, Costa Rica.
Cortex 2016; online early: doi: 10.1016/j.cortex.2016.09.003:

Pesticides and cancer

Brusick D, Aardema M, Kier L, Kirkland D, Williams G.

Genotoxicity expert panel review: weight of evidence evaluation of the genotoxicity of glyphosate, glyphosate-based formulations, and aminomethylphosphonic acid.
Crit Rev Toxicol 2016; 46 Supplement 1: 56-74.

McClellan RO.
Evaluating the potential carcinogenic hazard of glyphosate.
Crit Rev Toxicol 2016; 46 Supplement 1: 1-2.

Solomon KR.
Glyphosate in the general population and in applicators: a critical review of studies on exposures.
Crit Rev Toxicol 2016; 46 Supplement 1: 21-7.

Williams GM, Aardema M, Acquavella J, Berry C, Brusick D, Burns MM, de Camargo JL, Garabrant D, Greim HA, Kier LD, Kirkland DJ, Marsh G, Solomon KR, Sorahan T, Roberts A, Weed DL.
A review of the carcinogenic potential of glyphosate by four independent expert panels and comparison to the IARC assessment.
Crit Rev Toxicol 2016; 46 Supplement 1: 3-20.

Williams GM, Berry C, Burns M, de Camargo JLV, Greim H.
Glyphosate rodent carcinogenicity bioassay expert panel review.
Crit Rev Toxicol 2016; 46 Supplement 1: 44-55.

Aluminium phosphide

Hashemi-Domeneh B, Zamani N, Hassanian-Moghaddam H, Rahimi M, Shadnia S, Erfantalab P, Ostadi A.
A review of aluminium phosphide poisoning and a flowchart to treat it.
Arh Hig Rada Toksikol 2016; 67: 183-93.

Nik Muhamad NA, Hawari R, Shafie H.
A case report of aluminium phosphide poisoning.
Med J Malaysia 2016; 71: 213-4.

Amitraz

Jatav OP, Tiwari D, Lahariya D, Varghese J, Kumar S, Jacob J.
Amitraz poisoning treated successfully with atropine.
J Assoc Physicians India 2016; 64: 82.

Carbamate insecticides

General

Chuang C-S, Su H-L, Lin C-L, Kao C-H.
Risk of Parkinson disease after organophosphate or carbamate poisoning.
Acta Neurol Scand 2016; online early:
doi: 10.1111/ane.12707:

Cartap

Kalyaniwala K, Abhilash K, Victor PJ.
Cartap hydrochloride poisoning.
J Assoc Physicians India 2016; 64: 91-2.

Herbicides

Glyphosate

Brusick D, Aardema M, Kier L, Kirkland D, Williams G.
Genotoxicity expert panel review: weight of evidence evaluation of the genotoxicity of glyphosate, glyphosate-based formulations, and aminomethylphosphonic acid.
Crit Rev Toxicol 2016; 46 Supplement 1: 56-74.

McClellan RO.
Evaluating the potential carcinogenic hazard of glyphosate.
Crit Rev Toxicol 2016; 46 Supplement 1: 1-2.

Solomon KR.
Glyphosate in the general population and in applicators: a critical review of studies on exposures.
Crit Rev Toxicol 2016; 46 Supplement 1: 21-7.

Williams GM, Aardema M, Acquavella J, Berry C, Brusick D, Burns MM, de Camargo JL, Garabrant D, Greim HA, Kier LD, Kirkland DJ, Marsh G, Solomon KR, Sorahan T, Roberts A, Weed DL.
A review of the carcinogenic potential of glyphosate by four independent expert panels and comparison to the IARC assessment.
Crit Rev Toxicol 2016; 46 Supplement 1: 3-20.

Williams GM, Berry C, Burns M, de Camargo JLV, Greim H.
Glyphosate rodent carcinogenicity bioassay expert panel review.
Crit Rev Toxicol 2016; 46 Supplement 1: 44-55.

Neonicotinoid insecticides

Acetamiprid

Chakroun S, Ezzi L, Grissa I, Kerkeni E, Neffati F, Bhouri R, Sallem A, Najjar MF, Hassine M, Mehdi M, Haouas Z, Cheikh HB.
Hematological, biochemical, and toxicopathic effects of subchronic acetamiprid toxicity in Wistar rats.
Environ Sci Pollut Res Int 2016; online early:
doi: 10.1007/s11356-016-7650-9:

Organochlorine pesticides

General

Rahbar MH, Samms-Vaughan M, Hessabi M, Dickerson AS, Lee MJ, Bressler J, Tomechko SE, Moreno EK, Loveland KA, Desai CC, Shakespeare-Pellington S, Reece J-A, Morgan R, Geiger MJ, O'Keefe ME, Grove ML, Boerwinkle E.
Concentrations of polychlorinated biphenyls and organo-chlorine pesticides in umbilical cord blood serum of newborns in Kingston, Jamaica.
Int J Environ Res Public Health 2016; 13: 1032.

Yasmeen H, Qadir A, Mumtaz M, Eqani SA, Syed JH, Mahmood A, Jamil N, Nazar F, Ali H, Ahmad MS, Tanveer ZI, Zhang G.
Risks profile and health vulnerability of cotton picker's women by organanochlorine phosphates (OCPs) from Southern Punjab, Pakistan.
Environ Toxicol Chem 2016; online early:
doi: 10.1002/etc.3633:

Organophosphorus insecticides

General

Chuang C-S, Su H-L, Lin C-L, Kao C-H.
Risk of Parkinson disease after organophosphate or carbamate poisoning.
Acta Neurol Scand 2016; online early:
doi: 10.1111/ane.12707:

Chlorpyrifos

Alaa-Eldin EA, El-Shafei DA, Abouhashem NS.
Individual and combined effect of chlorpyrifos and cypermethrin on reproductive system of adult male albino rats.
Environ Sci Pollut Res 2016; online early:
doi: 10.1007/s11356-016-7912-6:

Profenofos

Kushwaha M, Verma S, Chatterjee S.

Profenofos, an acetylcholinesterase-inhibiting organophosphorus pesticide: a short review of its usage, toxicity, and biodegradation.
J Environ Qual 2016; 45: 1478-89.

Paraquat and diquat

Ait-Bali Y, Ba-M'hamed S, Bennis M.
Prenatal paraquat exposure induces neurobehavioral and cognitive changes in mice offspring.
Environ Toxicol Pharmacol 2016; 48: 53-62.

Chen Q, Zhang X, Zhao J-Y, Lu X-N, Zheng P-S, Xue X.
Oxidative damage of the male reproductive system induced by paraquat.
J Biochem Mol Toxicol 2016; online early:
doi: 10.1002/jbt.21870:

Safaei Asl A, Dadashzadeh P.
Acute kidney injury in patients with paraquat intoxication; a case report and review of the literature.
J Renal Inj Prev 2016; 5: 203-6.

Pyrethroid insecticides

Cypermethrin

Mugundhan K, Iyer RS.
Myelopathy following cypermethrin poisoning.
J Assoc Physicians India 2016; 64: 85-6.

Permethrin

Nasuti C, Brunori G, Eusepi P, Marinelli L, Ciccocioppo R, Gabbianelli R.
Early life exposure to permethrin: a progressive animal model of Parkinson's disease.
J Pharmacol Toxicol Methods 2016; 83: 80-6.

Rodenticides

Wang R, Zhuo L, Wang Y, Ren L, Liu Q, Liu L.
Lessons learned from poisoning cases caused by 2 illegal rodenticides: tetramine and fluoroacetamide.
Medicine (Baltimore) 2016; 95: e5103.

Thallium

Karbowska B.
Presence of thallium in the environment: sources of contaminations, distribution and monitoring methods.
Environ Monit Assess 2016; 188: 640.

Kuroda H, Mukai Y, Nishiyama S, Takeshita T, Tateyama M, Takeda A, Aoki M.
Tardily accelerated neurologic deterioration in two-step thallium intoxication.
J Clin Neurosci 2016; online early:
doi: 10.1016/j.jocn.2016.09.003:

CHEMICAL WARFARE, BIOLOGICAL WARFARE AND RIOT CONTROL AGENTS

Chemical warfare

General

Hemström P, Larsson A, Elfsmark L, Åstot C.
L-α-phosphatidylglycerol chlorohydrins as potential biomarkers for chlorine gas exposure.
Anal Chem 2016; 88: 9972-9.

Hosseini SE, Saeidian H, Amozadeh A, Naseri MT, Babri M.
Fragmentation pathways and structural characterization of organophosphorus compounds related to CWC by electron ionization and electrospray ionization tandem mass spectrometry.
Rapid Commun Mass Spectrom 2016; online early: doi: 10.1002/rcm.7757:

Nerve agents

Bušic V, Katalinic M, Šinko G, Kovarik Z, Gašo-Sokac D.
Pyridoxal oxime derivative potency to reactivate cholinesterases inhibited by organophosphorus compounds.
Toxicol Lett 2016; 262: 114-22.

Myhrer T, Aas P.
Pretreatment and prophylaxis against nerve agent poisoning: are undesirable behavioral side effects unavoidable?
Neurosci Biobehav Rev 2016; 71: 657-70.

Sarin

Abou-Donia MB, Siracuse B, Gupta N, Sobel Sokol A.
Sarin (GB, O-isopropyl methylphosphonofluoridate) neurotoxicity: critical review.
Crit Rev Toxicol 2016; online early:
doi: 10.1080/10408444.2016.1220916:

VX

Langston JL, Myers TM.
VX toxicity in the Göttingen minipig.
Toxicol Lett 2016; online early:
doi: 10.1016/j.toxlet.2016.10.011:

PLANTS

General

Dalefield RR, Gosse MA, Mueller U.
A 28-day oral toxicity study of echimidine and lasiocarpine in Wistar rats.
Regul Toxicol Pharmacol 2016; 81: 146-54.

Momtazi-Borojeni AA, Esmaeili SA, Abdollahi E, Sahebkar A.
A review on the pharmacology and toxicology of steviol glycosides extracted from Stevia rebaudiana.
Curr Pharm Des 2016; online early: PMID:27784241:

Volpato GT, Moraes-Souza RQ, Soares TS, Leal-Silva T, Damasceno DC.
Medicinal plants for diabetes treatment during pregnancy.
Curr Med Chem 2016; online early: PMID:27697077:

Abrus precatorius

Liu X, Zhao Y, Sun C, Wang X, Wang X, Zhang P, Qiu J, Yang R, Zhou L.
Rapid detection of abrin in foods with an up-converting phosphor technology-based lateral flow assay.
Sci Rep 2016; 6: 34926.

Aconitum spp. (Aconite)

Tak S, Lakhotia M, Gupta A, Sagar A, Bohra G, Bajari R.
Aconite poisoning with arrhythmia and shock.
Indian Heart J 2016; 68 Supplement 2: S207-S209.

Annona squamosa (Custard apple)

Nagaraja H, Kugar T, Shivanna Y, Agrawal A, Shetty R.
Ocular toxicity by seeds of *Annona squamosa* (custard apple).
Indian J Ophthalmol 2016; 64: 611-3.

Cleistanthus collinus (Karra)

Mohan A, Naik GS, Harikrishna J, Kumar DP, Rao MH, Sarma KVS, Guntupalli KK.
Cleistanthus collinus poisoning: experience at a medical intensive care unit in a tertiary care hospital in south India.
Indian J Med Res 2016; 143: 793-7.

Conium maculatum (Hemlock)

Chen H-Y, Horng H, Rowley F, Smollin C.
Rapid respiratory arrest after ingestion of poison hemlock mistaken for wild celery.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1248843:

Digitalis spp.

Vyas A, Bachani N, Thakur H, Lokhandwala Y.
Digitalis toxicity: ECG vignette.
Indian Heart J 2016; 68 Supplement 2: S223-S225.

Euphorbiaceae (spurges)

Huerth KA, Hawkes JE, Meyer LJ, Powell DL.
The scourge of the spurge family-An imitator of Rhus dermatitis: a case report and literature review.
Dermatitis 2016; online early:
doi: 10.1097/DER.0000000000000237:

Mushrooms and other fungi

Kim HN, Do HH, Seo JS, Kim HY.
Two cases of incidental *Podostroma cornu-damae* poisoning.
Clin Exp Emerg Med 2016; 3: 186-9.

Lagenaria Siceraria (Bottle gourd)

Rathi PM, Patel PS.
Bottle Gourd (Lagenaria Siceraria) Juice Poisoning.
J Assoc Physicians India 2016; 64: 87-8.

Nigella sativa (Black cumin)

Bonhomme A, Poreaux C, Jouen F, Schmutz J-L, Gillet P, Barbaud A.
Bullous drug eruption to *Nigella sativa* oil: consideration of the use of an herbal medicine – clinical report and review of the literature.
J Eur Acad Dermatol Venereol 2016; online early: doi: 10.1111/jdv.13982:

Nerium oleander

Bavunoglu I, Balta M, Türkmen Z.
Oleander poisoning as an example of self-medication attempt.
Balkan Med J 2016; 33: 559-62.

Butler J, Khan S, Scarzella G.
Fatal oleander toxicosis in two miniature horses.
J Am Anim Hosp Assoc 2016; online early:
doi: 10.5326/JAAHA-MS-6433:

ANIMALS

Ants

Chen J, Cantrell CL, Oi D, Grodowitz MJ.
Update on the defensive chemicals of the little black ant, *Monomorium minimum* (Hymenoptera: Formicidae).
Toxicon 2016; 122: 127-32.

Fish/marine poisoning

Farooq AV, Gibbons AG, Council MD, Harocopos GJ, Holland S, Judelson J, Shoss BL, Schmidt EJ, Md Noh UK, D'Angelo A, Chundury RV, Judelson R, Perez VL, Huang AJW.
Corneal toxicity associated with aquarium coral palytoxin.
Am J Ophthalmol 2016; online early:
doi: 10.1016/j.ajo.2016.10.007:

Memar B, Jamili S, Shahbazzadeh D, Pooshang Bagheri K.
Description of histopathological changes induced by the venom of the Persian Gulf Lionfish (*Pterois russelli*) in a mouse model of multiorgan toxicity.
Toxicon 2016; 122: 94-102.

Jellyfish

Little M, Fitzpatrick R, Seymour J.
Successful use of heat as first aid for tropical Australian jellyfish stings.
Toxicon 2016; 122: 142-4.

Scombroid

Colombo FM, Cattaneo P, Confalonieri E, Bernardi C.
Histamine food poisonings: a systematic review and meta-analysis.
Crit Rev Food Sci Nutr 2016; online early:
doi: 10.1080/10408398.2016.1242476:

Frogs

Mendes VA, Barbaro KC, Sciani JM, Vassão RC, Pimenta DC, Jared C, Antoniazzi MM.
The cutaneous secretion of the casque-headed tree frog *Corythomantis greeningi*: biochemical characterization and some biological effects.
Toxicon 2016; 122: 133-41.

Scorpions

Bawaskar HS.
Should we share the management of acute life-threatening medical emergencies on the telephone?
Indian J Med Ethics 2016; 1: 263-4.

Osnaya-Romero N, Acosta-Saavedra LC, Goytia-Acevedo R, Lares-Asseff I, Basurto-Celaya G, Perez-Guille G, Possani LD, Calderón-Aranda ES.
Serum level of scorpion toxins, electrolytes and electro-cardiogram alterations in Mexican children envenomed by scorpion sting.
Toxicon 2016; 122: 103-8.

Santhosh KN, Pavana D, Thippeswamy NB.
Impact of scorpion venom as an acute stressor on the neuroendocrine-immunological network.
Toxicon 2016; 122: 113-8.

Sinha M, Quan D, McDonald FW, Valdez A.
Cost minimization analysis of different strategies of management of clinically significant scorpion envenomation among pediatric patients.
Pediatr Emerg Care 2016; online early:
doi: 10.1097/PEC.0000000000000904:

Snake bites

Bawaskar HS.
Should we share the management of acute life-threatening medical emergencies on the telephone?
Indian J Med Ethics 2016; 1: 263-4.

Kang S, Moon J, Chun B.
Does the traditional snakebite severity score correctly classify envenomated patients?

Clin Exp Emerg Med 2016; 3: 34-40.

Menon JC, Joseph JK, Jose MP, Dhananjaya BL, Oommen OV.
Clinical profile and laboratory parameters in 1051 victims of snakebite from a single centre in Kerala, south India.
J Assoc Physicians India 2016; 64: 22-9.

Mohammad Alizadeh A, Hassanian-Moghaddam H, Zamani N, Rahimi M, Mashayekhian M, Hashemi Domeneh B, Erfantalab P, Ostadi A.
The protocol of choice for treatment of snake bite.
Adv Med 2016; 2016: 7579069.

Silva A, Hodgson WC, Isbister GK.
Cross-neutralisation of in vitro neurotoxicity of Asian and Australian snake neurotoxins and venoms by different antivenoms.
Toxins (Basel) 2016; 8: 302.

Villalta M, Sánchez A, Herrera M, Vargas M, Segura A, Cerdas M, Estrada R, Gawarammana I, Keyler DE, McWhorter K, Malleappah R, Alape-Girón A, León G, Gutiérrez JM.
Development of a new polyspecific antivenom for snakebite envenoming in Sri Lanka: analysis of its preclinical efficacy as compared to a currently available antivenom.
Toxicon 2016; 122: 152-9.

Crotalinae (Pit vipers)

Dias L, Rodrigues MAP, Inoue BR, Rodrigues RL, Rennó AL, de Souza VB, Torres-Huaco FD, Sousa NC, Stroka A, Melgarejo AR, Hyslop S.
Pharmacological analysis of hemodynamic responses to *Lachesis muta* (South American bushmaster) snake venom in anesthetized rats.
Toxicon 2016; 123: 25-44.

Dias L, Rodrigues MA, Rennó AL, Stroka A, Inoue BR, Panunto PC, Melgarejo AR, Hyslop S.
Hemodynamic responses to *Lachesis muta* (South American bushmaster) snake venom in anesthetized rats.
Toxicon 2016; 123: 1-14.

Garcia Denegri ME, Teibler GP, Maruñak SL, Hernández DR, Acosta OC, Leiva LC.
Efficient muscle regeneration after highly haemorrhagic *bothrops alternatus* venom injection.
Toxicon 2016; 122: 167-75.

Gerardo CJ, Vissoci JRN, Brown MWJ, Bush SP.
Coagulation parameters in copperhead compared to other *Crotalinae* envenomation: secondary analysis of the $F(ab')_2$ versus Fab antivenom trial.
Clin Toxicol 2016; online early:
doi: 10.1080/15563650.2016.1250275:

More de Oliveira SA, Magalhães MR, de Oliveira LP, Carlos da Cunha L.
Identification of antinociceptive fraction of snake venom from *Crotalus durissus collilineatus* crotamine-negative and its acute toxicity evaluation.
Toxicon 2016; 122: 145-51.

Elapidae

Yang DC, Deuis JR, Dashevsky D, Dobson J, Jackson TN, Brust A, Xie B, Koludarov I, Debono J, Hendrikx I, Hodgson WC, Josh P, Nouwens A, Baillie GJ, Bruxner TJ, Alewood PF, Lim KK, Frank N, Vetter I, Fry BG.
The snake with the scorpion's sting: novel three-finger toxin sodium channel activators from the venom of the long-glanded Blue Coral Snake (*Calliophis bivirgatus)*.
Toxins (Basel) 2016; 8: 303.

Viperinae (True vipers)

Collaço RdÇO, Randazzo-Moura P, Tamascia ML, da Silva IRF, Rocha T, Cogo JC, Hyslop S, Sanny CG, Rodrigues-Simioni L.
Bothrops fonsecai snake venom activities and cross-reactivity with commercial bothropic venom.
Comp Biochem Physiol C Toxicol Pharmacol 2016; 191: 86-100.

Wu R-C, Chou P-T, Chen L-K.
Aspirin plus tirofiban inhibit the thrombosis induced by Russell's viper venom.
Thromb J 2016; 14 Supplement 1: 38.

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