

Current Awareness in Clinical Toxicology

Editors: Sarah Cage MSc and Allister Vale MD

December 2010

CURRENT AWARENESS PAPERS OF THE MONTH

Evaluation of a QT nomogram for risk assessment after antidepressant overdose

Waring WS, Graham A, Gray J, Wilson AD, Howell C, Bateman DN. *Br J Clin Pharmacol* 2010; 70: 881-5.

What is already known about this subject

Overdose with citalopram is associated with QT prolongation and torsades de pointes, whereas this arrhythmia has not been reported after venlafaxine or mirtazapine overdose. Uncertainty exists concerning the best means of identifying poisoned patients at greatest risk of arrhythmia, and a nomogram comparing QT and heart rate has recently been proposed based on published cases of torsades de pointes. Few data are available concerning the performance of the nomogram in patients that present to hospital after antidepressant overdose.

What this study adds

After antidepressant overdose patients had a broad range of heart rate and QT values, which were below the nomogram in 98% of cases (95% confidence interval 96, 99%). Citalopram overdose was associated with a higher proportion of patients with QT values above the nomogram than venlafaxine and mirtazapine overdose, especially in those who had low heart rates. The nomogram allowed discrimination between the different antidepressant agents and may have a role in predicting arrhythmia in clinical practice.

Aims

A QT-heart rate nomogram has recently been proposed as a means of identifying patients at risk of torsades de pointes after antidepressant overdose, based on published cases of drug-induced torsades de pointes. The present study sought to examine the performance of the nomogram in patients who ingest an antidepressant overdose but do not develop arrhythmia.

Methods

A retrospective case control study of patients presenting to hospital after overdose of citalopram, mirtazapine and venlafaxine was carried out. The primary outcome variable was QT higher than the nomogram, and was compared with occurrence of QTc (QT corrected by Bazett's formula) greater than ≥ 440 ms and $QTc \geq 500$ ms, with comparison between drugs. Data are expressed as proportions in each group with 95% confidence intervals.

Results

There were 858 electrocardiograms from 541 patients. QT was higher than the nomogram in 2.4%

Current Awareness in Clinical Toxicology is produced monthly for the EAPCCT
by the Birmingham Unit of the UK National Poisons Information Service.
The NPIS is commissioned by the Health Protection Agency.



(1.4, 4.1%), whereas QTc was ≥ 440 ms in 23.1% (95% CI 19.8, 26.8%), and QTc was ≥ 500 ms in 1.1% (0.5, 2.5%). Citalopram overdose was more likely to be associated with QT higher than the nomogram compared with the other agents (difference 7.0%, 95% CI 2.9, 11.9%, $P = 0.001$) and more likely to be associated with $QTc \geq 440$ ms (difference = 11.0%, 95% CI 2.6, 19.0%, $P = 0.013$).

Conclusions

The QT nomogram was associated with a lower false positive rate than widely accepted QTc criteria, and allowed detection of different effects of individual drugs. The nomogram offers potential advantages over QTc criteria and merits further investigation in a clinical setting.

Inaccuracy of ECG interpretations reported to the poison center

Prosser JM, Smith SW, Rhim ES, Olsen D, Nelson LS, Hoffman RS. Ann Emerg Med 2010; online early: doi:10.1016/j.annemergmed.2010.09.019:

Study objective

The ECG is an essential tool in the care of poisoned patients. This study is designed to investigate the accuracy of ECG interpretation reported to a poison center.

Methods

In this prospective study, all cases in which both an electronically faxed copy of the ECG and the caller's interpretation of the ECG were available were eligible for inclusion. ECG interpretation of callers was compared with that of a blinded electrophysiologist. In cases of disagreement, a Delphi panel of toxicologists decided whether the differences were clinically significant or would have changed recommendations.

Results:

Two hundred cases were included, with complete agreement in 78. In 23 cases, the sole difference was nonspecific ST-T-wave changes, which were believed insignificant and classified as agreement for a total of 101. The Delphi panel reviewed the remaining 99. In 42 cases, the differences in ECG interpretations were thought to be clinically significant; 37 of these would have resulted in a change in management recommendations. Forty-five cases were thought not likely to be clinically significant and would not have resulted in a recommendation change. Twelve cases were thought not clinically significant but would still have resulted in a change in recommendations.

Conclusion

Initial interpretation of the ECG reported by callers to the poison center is frequently inaccurate. In this study, the misinterpretation was clinically significant or would have resulted in a change in management recommendations in approximately one quarter of all calls.

Understanding lactic acidosis in paracetamol (acetaminophen) poisoning

Shah AD, Wood DM, Dargan PI. Br J Clin Pharmacol 2011; 71: 20-8.

Abstract

Paracetamol (acetaminophen) is one of the most commonly taken drugs in overdose in many areas of the world, and the most common cause of acute liver failure in both the UK and USA.

Paracetamol poisoning can result in lactic acidosis in two different scenarios. First, early in the course of poisoning and before the onset of hepatotoxicity in patients with massive ingestion; a lactic acidosis is usually associated with coma. Experimental evidence from studies in whole animals, perfused liver slices and cell cultures has shown that the toxic metabolite of paracetamol, N-acetyl-p-benzo-quinone imine, inhibits electron transfer in the mitochondrial respiratory chain and thus inhibits aerobic respiration. This occurs only at very high concentrations of paracetamol, and precedes cellular injury by several hours. The second scenario in which lactic acidosis can occur is later in the course of paracetamol poisoning as a consequence of established liver failure. In these patients lactate is elevated primarily because of reduced hepatic clearance, but in

shocked patients there may also be a contribution of peripheral anaerobic respiration because of tissue hypoperfusion.

In patients admitted to a liver unit with paracetamol hepatotoxicity, the post-resuscitation arterial lactate concentration has been shown to be a strong predictor of mortality, and is included in the modified King's College criteria for consideration of liver transplantation. We would therefore recommend that post-resuscitation lactate is measured in all patients with a severe paracetamol overdose resulting in either reduced conscious level or hepatic failure.

Therapeutic acetaminophen is not associated with liver injury in children: a systematic review

Lavonas EJ, Reynolds KM, Dart RC. *Pediatrics* 2010; online early: doi: 10.1542/peds.2009-3352:

Background

Concern exists about the potential for liver injury with therapeutic dosing of acetaminophen in children. Objective: We systematically reviewed the medical literature to determine the rate at which liver injury has been reported for children prescribed therapeutic doses of acetaminophen (≤ 75 mg/kg per day orally or intravenously or ≤ 100 mg/kg per day rectally).

Methods

We searched Medline, Embase, and the Cochrane Central Register of Controlled Trials to locate all studies in which acetaminophen was administered to a defined pediatric population for ≥ 24 hours and for all case reports of liver injury after therapeutic acetaminophen dosing. Trained reviewers extracted data from each report. Major and minor hepatic adverse events (AEs) were defined prospectively. Causality was assessed by using the Naranjo algorithm.

Results

A total of 62 studies that enrolled 32 414 children were included. No child (0% [95% confidence interval: 0.000-0.009]) was reported to have exhibited signs or symptoms of liver disease, to have received an antidote or transplantation, or to have died. Major or minor hepatic AEs were reported for 10 children (0.031% [95% confidence interval: 0.015-0.057]). The highest transaminase value reported was 600 IU/L. Naranjo scores (2-3) suggested "possible" causation. Twenty-two case reports were identified. In 9 cases, the Naranjo score suggested "probable" causation (5-6).

Conclusions

Hepatotoxicity after therapeutic dosing of acetaminophen in children is rarely reported in defined-population studies. Case reports suggest that this phenomenon may occur, but few reports contain sufficient data to support a probable causal relationship.

Blood concentrations are better predictors of chloroquine poisoning severity than plasma concentrations: a prospective study with modeling of the concentration/effect relationships

Mégarbane B, Bloch V, Hirt D, Debray M, Résière D, Deye N, Baud FJ. *Clin Toxicol* 2010; 48: 904-5.

Introduction

Chloroquine causes rare but life-threatening toxicity. The prognostic value of plasma chloroquine concentrations in acute poisonings remains poorly investigated. We investigated the hypothesis that blood chloroquine concentrations better predicted chloroquine poisoning severity than plasma concentrations.

Methods

A prospective study of consecutive chloroquine poisonings admitted to an intensive care unit from 2003 to 2007 was performed with simultaneous measurements of blood and plasma chloroquine (chloroquine and desethylchloroquine) concentrations. A population pharmacokinetic-pharmacodynamic model described epinephrine infusion rate, our surrogate marker of cardiovascular

toxicity, as function of blood or plasma chloroquine concentrations.

Results

Forty-four patients [29F/15M, 33 y (25-41), median (25-75th percentile), 34% with cardiac arrest] were included. Management included mechanical ventilation (80%), 8.4% sodium bicarbonate (66%), epinephrine [73%, maximal rate: 2.8 mg/h (0.8-5.0)], and extracorporeal life support (16%). Seven patients died. Blood [6.7 mg/L (4.0-13.0)] and plasma [1.5 mg/L (1.2-2.9)] chloroquine concentrations were weakly, although significantly correlated ($r = 0.66$, $p < 0.0001$, Spearman test). Admission chloroquine concentrations correlated with the reported ingested dose ($r = 0.70$ for blood vs. 0.48 for plasma), QRS duration ($r = 0.82$ vs. 0.64), lactate concentrations ($r = 0.63$ vs. 0.47), and epinephrine infusion rates ($r = 0.70$ vs. 0.62). Chloroquine concentrations differed significantly between patients with and without cardiac arrest ($p = 0.0002$ for blood vs. 0.02 for plasma). A one-compartment pharmacokinetic (PK) model adequately described blood chloroquine concentrations. An effect compartment linked to the blood compartment adequately described plasma chloroquine concentrations. Using a sigmoidal E_{\max} pharmacodynamic (PD) model, epinephrine infusion rate was better predicted with blood than plasma concentrations ($p < 0.01$), suggesting that time-course of blood concentrations is a better prognostic value than plasma concentrations.

Conclusion

Immediate and serial measurements of blood chloroquine concentrations are better than plasma for predicting cardiovascular severity of chloroquine poisonings.

Treatment of chronically digoxin-poisoned patients with a newer digoxin immune Fab - a retrospective study

Schaeffer TH, Mlynarchek SL, Stanford CF, Delgado J, Holstege CP, Olsen D, Bogdan GM. *J Am Osteopath Assoc* 2010; 110: 587-92.

Context

Digoxin is used in the treatment of patients with cardiac dysfunction, though toxicity sometimes results from the use of this medication. In 1986, the US Food and Drug Administration (FDA) approved a digoxin immune Fab for the treatment of such patients. In 2001, the FDA approved a newer digoxin immune Fab, a digoxin-specific antibody (DSAb) known as DigiFab (Protherics Inc, Brentwood, Tennessee), though minimal literature exists on the clinical effects of this DSAb.

Objectives

To characterize a cohort of patients presenting with chronic digoxin toxicity and to describe the clinical course of these patients with the use of DSAb.

Methods

A retrospective study included patients with life-threatening cardiotoxicity and serum digoxin level greater than 2 ng/mL who were treated at two US hospitals from 2003 to 2006. Trained investigators abstracted data from patients' medical records and assessed changes in clinical and laboratory parameters at regular intervals (0-4, >4-12, >12-24, and >24-72 h) after treatment with DSAb. An expert panel reviewed electrocardiogram results to identify life-threatening manifestations of digoxin toxicity before and after DSAb treatment. Efficacy of treatment was assessed as rates of improvement in clinical parameters and cardiotoxic effects. Rates of adverse drug reactions were used to characterize safety. All data were analyzed with descriptive statistics.

Results

Fourteen patients (mean [SD] age, 71.3 [10.4] y) were treated for chronic digoxin toxicity. At presentation, 12 patients had a heart rate of less than 45 beats per minute, 1 had third-degree heart block, and 1 had asystole. Mean serum digoxin level was 3.6 ng/mL. Eleven patients had abnormal renal function. After administration of DSAb, clinical parameters improved in all patients. Within 24 hours, cardiotoxicity resolved in 7 of 9 evaluable patients. Two adverse drug reactions possibly related to DigiFab occurred, both of which resolved with conventional measures. Two patients died from conditions unrelated to treatment.

Conclusion

The newer DSAb appears to be a safe and effective treatment for resolving digoxin toxicity in adults, as indicated by electrocardiogram and clinical assessments. Because patients with multiple comorbidities may be at greater risk for digoxin toxicity, they should be closely monitored during treatment with digoxin.

Case series of individuals with analytically confirmed acute mephedrone toxicity

Wood DM, Davies S, Greene SL, Button J, Holt DW, Ramsey J, Dargan PI. Clin Toxicol 2010; 48: 924-7.

Context

Previous reports of acute toxicity/harm associated with mephedrone use have been based on self-reported mephedrone use; toxicological screening has not been undertaken in these cases to determine whether mephedrone has been used.

Objective

To report the first case series of analytically confirmed mephedrone-related acute toxicity.

Materials and methods

Serum samples were collected from individuals presenting to an emergency department (ED) with acute toxicity related to self-reported mephedrone use. Toxicological analysis, by gas-chromatography coupled with mass-spectrometry and liquid chromatography with tandem mass-spectrometry was performed to qualitatively confirm mephedrone use. Symptoms/signs of acute mephedrone toxicity and basic physiological parameters were extracted from the routine ED records.

Results

Acute mephedrone-related toxicity was analytically confirmed in seven male patients; the mean±SD age was 24.6±6.5 years (range 16-36 years). Agitation (four patients) was the most common symptom/sign reported; other common symptoms/signs included: palpitations (two patients); chest pain (two patients); self-limiting pre-hospital seizures (one patient) and headaches (one patient). The mean heart rate was 109.1±21.8 (range 80-140) beats per minute; one patient had a "severe" tachycardia (heart rate of ≥140 bpm). The mean systolic blood pressure was 153.0±39.6 (range 110-210) mmHg; three patients had clinically significant hypertension (systolic blood pressure ≥160 mmHg).

Discussion

These analytically confirmed acute mephedrone toxicity presentations had clinical features of toxicity consistent with an acute sympathomimetic toxidrome (e.g. hypertension, tachycardia and agitation). These findings are similar to the pattern of toxicity seen with other sympathomimetic recreational drugs such as 3,4-methylenedioxymethamphetamine (MDMA) and cocaine.

Conclusion

The process for determining whether a novel psychoactive substance should be controlled often relies on demonstrated/proven acute harm associated with its use. It is important that clinical toxicologists undertake appropriate biological sampling and toxicological analyses in suspected cases of "novel psychoactive drug" toxicity. This will ensure that both clinicians and legislative authorities are informed of the confirmed pattern of toxicity associated with these drugs.

Establishment of a definitive protocol for the diagnosis and management of body packers (drug mules)

Mandava N, Chang RS, Wang JH, Bertocchi M, Yrad J, Allamaneni S, Aboian E, Lall MH, Mariano R, Richards N. Emerg Med J 2010; online early: doi: 10.1136/emj.2008.059717:

Background

'Mules' or body packers are people who transport illegal drugs by packet ingestion into the

gastrointestinal tract. These people are otherwise healthy and their management should maintain minimal morbidity. In this study, experience with body packers is presented and an algorithm for conservative and surgical management is provided.

Methods

The clinical patient database for all body packer admissions at Mary Immaculate Hospital of the Caritas Health Care Inc. from 1993 to 2005 was interrogated. 56 patients (4.5%) required admission out of a total of 1250 subjects confirmed to be body packers and apprehended by United State Customs officials at JFK International Airport, New York. The retrieved patient data were analysed retrospectively.

Results

70% of the body packers were men, with a male to female ratio of 2.8 to 1. The mean age was 33±14 y and 52% were from Columbia. Heroin was the most common illegally transported substance (73%). 25 patients (45%) required surgical intervention, whereas 31 patients (55%) were successfully managed conservatively. Indications for intervention included: bowel obstruction, packet rupture/toxicity, and delayed progression of packet transit on conservative management. Multiple intraoperative manoeuvres were used to remove the foreign bodies: gastrotomy, enterotomy and colotomy. Wound infection was the most common complication and is associated with distal enterotomy and colotomy.

Conclusions

Men were more likely to present as body packers than women. Proximal enterotomies are preferred and multiple enterotomies should be avoided. A confirmatory radiological study is needed to demonstrate complete clearance of packets. A systematic protocol for the management of body packers results in minimal morbidity and no mortality.

Neuropsychiatric disorders and risk factors in carbon monoxide intoxication

Katirci Y, Kandis H, Aslan S, Kirpinar I. Toxicol Ind Health 2010; online early: doi: 10.1177/0748233710387632:

Abstract

Neuropsychiatric sequelae may be observed in the late phases of carbon monoxide (CO) intoxication. Establishing a link between CO-related neuropsychiatric disorders and associated risk factors may decrease morbidity and mortality by means of appropriate treatment and counseling. The aim of the present study was to determine the relationship between neuropsychiatric outcomes of CO intoxication and demographic and clinical variables.

Thirty patients who presented with CO intoxication and had no known neuropsychiatric disease, and 30 healthy controls were included. Physical examinations and laboratory tests were performed. Following the 1st therapy, they underwent mental and psychiatric tests 5 times (the time of discharge, during the 1st week, and during the 1st, 3rd, and 6th months). They underwent cerebral magnetic resonance imaging (MRI) at the end of the 1st month. They were evaluated by cognitive function tests at the 6th month.

Lesions relevant to CO intoxication were detected in 46.7% of the patients via cranial computed tomography and in 13.3% via MRI. Evaluation of psychiatric tests revealed a clear decrease in cognitive functions, such as immediate memory, learning, reaching the criterion, spontaneous recall, attention, visual memory, and logical memory. It was found that the patients had anxiety within the 1st month, and the frequency of anxiety reached to the value of the control group by the end of the 6th month.

In conclusion, we suggested that CO intoxication might lead to neuropsychiatric disorders. Our results emphasized that in addition to standard treatment, neuropsychiatric evaluation should also be performed in patients with CO intoxication.

Blood and urine cadmium, blood pressure, and hypertension: a systematic review and meta-analysis

Gallagher CM, Meliker JR. *Environ Health Perspect* 2010; 118: 1676-84.

Background

Cadmium exposure has been inconsistently related to blood pressure.

Objectives

We updated and reevaluated the evidence regarding the relationships of blood cadmium (BCd) and urine cadmium (UCd) with blood pressure (BP) and hypertension (HTN) in nonoccupationally exposed populations.

Data sources and extraction

We searched PubMed and Web of Science for articles on BCd or UCd and BP or HTN in nonoccupationally exposed populations and extracted information from studies that provided sufficient data on population, smoking status, exposure, outcomes, and design.

Data synthesis

Twelve articles met inclusion criteria: eight provided data adequate for comparison, and five reported enough data for meta-analysis. Individual studies reported significant positive associations between BCd and systolic BP (SBP) among nonsmoking women [$\beta = 3.14$ mmHg per 1 $\mu\text{g/L}$ untransformed BCd; 95% confidence interval (CI), 0.14–6.14] and among premenopausal women ($\beta = 4.83$ mmHg per 1 nmol/L log-transformed BCd; 95% CI, 0.17–9.49), and between BCd and diastolic BP (DBP) among women ($\beta = 1.78$ mmHg comparing BCd in the 90th and 10th percentiles; 95% CI, 0.64–2.92) and among premenopausal women ($\beta = 3.84$ mmHg per 1 nmol/L log-transformed BCd; 95% CI, 0.86–6.82). Three meta-analyses, each of three studies, showed positive associations between BCd and SBP ($p = 0.006$) and DBP ($p = 0.001$) among women, with minimal heterogeneity ($I^2 = 3\%$), and a significant inverse association between UCd and HTN among men and women, with substantial heterogeneity ($I^2 = 80\%$).

Conclusion

Our results suggest a positive association between BCd and BP among women; the results, however, are inconclusive because of the limited number of representative population-based studies of never-smokers. Associations between UCd and HTN suggest inverse relationships, but inconsistent outcome definitions limit interpretation. We believe a longitudinal study is merited.

Clinical profile and outcome of patients hospitalized with dimethyl and diethyl organophosphate poisoning

Peter JV, Jerobin J, Nair A, Bennett A, Samuel P, Chrispal A, Abraham OC, Mathews KP, Fleming JJ, Oommen A. *Clin Toxicol* 2010; 48: 916-23.

Abstract

The two major classes of organophosphate compounds, dimethyl and diethyl organophosphates, have different toxicokinetic properties. This study evaluated the clinical profile and outcomes in patients admitted with poisoning with these two classes of organophosphates.

Methods

This retrospective study spanned 6 years (2002-2007). Patients were treated with atropine and supportive care including ventilation, as required, and followed up until death or hospital discharge. Oximes were not administered. Of the 422 charts retrieved, 396 fulfilled inclusion criteria. Data on the clinical profile, ventilation, length of hospital stay, incidence of intermediate syndrome and mortality were extracted.

Results

The mean (\pm standard deviation) age was 31.4 \pm 12.7 y with a male preponderance (2.6:1). The median (interquartile range (IQR)) admission pseudocholinesterase level of 317 (222-635) U/L indicated significant inhibition of cholinesterase activity. The median lag-time to presentation to our hospital was 5 (IQR 3-8.5) h. Oximes were administered at a primary center in 33 patients

(8.3%). Dimethyl organophosphate was ingested by 141 patients, diethyl organophosphate by 108, S-alkyl organophosphate by 2, and an un-identified organophosphate by 145 patients. Ventilation was required in 260 patients (65.7%); the median duration of ventilation being 7.5 (IQR 3-12) days. Overall mortality was 13.1%. There was a significant difference between dimethyl and diethyl organophosphate compounds in ventilatory requirement (76% vs. 56%, adjusted odds ratio (OR) 2.37, 95% CI 1.01-5.57, $p = 0.047$), duration of ventilation (11 (4-15) vs. 5 (2-9) days, adjusted OR 1.12, 95% CI 1.04-1.21, $p = 0.002$) and incidence of intermediate syndrome (72/125 (58%) vs. 24/92 (26%), adjusted OR 2.84, 95%CI 1.38-5.86, $p = 0.004$). Mortality was similar in the two groups (20/141 (14%) vs. 7/108 (6%), dimethyl vs. diethyl organophosphate, adjusted OR 1.29, 95%CI 0.43-3.94, $p = 0.65$).

Conclusions

Patients admitted with dimethyl organophosphate poisoning have a worse outcome compared with diethyl organophosphate poisoning for clinically relevant patient outcomes.

Chronic and delayed mustard gas keratopathy: a histopathologic and immunohistochemical study

Kanavi MR, Javadi A, Javadi MA. Eur J Ophthalmol 2010; 20: 839-43.

Purpose

To specify histopathologic and immunohistochemical features of chronic and delayed mustard gas keratopathy.

Methods

Corneal buttons from patients with chronic and delayed mustard gas keratopathy were examined for routine histopathology, special histologic stainings, and immunohistochemistry for CD31 and CD68.

Results

Twenty-five corneal buttons from 25 patients with chronic and delayed mustard gas keratopathy were evaluated. Irregular epithelial thickness (100%), degenerative changes (24) (96%), thickened epithelial basement membrane (23) (92%), keratocytes loss (18) (72%), and destroyed Bowman layer (18) (72%) were predominant histopathologic features. Amyloid degeneration was the most commonly observed degenerative change in the specimens (83%). Immunoreactivity for CD68 and CD31 was detected in 88% and 56%, respectively.

Conclusions

In this observational case series, although all corneal layers from epithelium to the endothelium were involved from mild to severe degrees, the anterior corneal layers were more affected on histopathology than the posterior parts in chronic and delayed mustard gas keratopathy.

Delayed toxic effects of sulfur mustard on respiratory tract of Iranian veterans

Balali Mood M, Afshari R, Zojaji R, Kahrom H, Kamrani M, Attaran D, Mousavi SR, Zare GA. Hum Exp Toxicol 2010; online early: doi: 10.1177/0960327110389501:

Abstract

To investigate late toxic effects of sulfur mustard (SM) on the upper and lower respiratory tracts of Iranian veterans, 43 male veterans with more than 25% disability due to SM poisoning in 20-25 years after exposure, were studied.

Direct laryngoscopy, pulmonary function tests, arterial blood gasses and pH, computed tomography of sinuses and lungs were investigated. The patients were aged 50.6 (8.9 SD) y with body mass index (BMI) of 26.6 (4.0) and disability of 53.2 (17.0%).

The common findings of the upper respiratory tract were dysphonia (79.1%), post-nasal discharge (PND; 41.9%), lower larynx position (30.2%), limitation of vocal cords (25.6%) and mucosal

inflammation of larynx (14.8%). The common lower respiratory diseases were diagnosed as chronic obstructive respiratory disease (84%), bronchiectasis (44.1%) and lung fibrosis (7.7%). Severity of disability was negatively correlated with BMI ($p = 0.032$), spirometric parameters ($p < 0.001$) and oxygen saturation ($p < 0.001$), but positively correlated with low-density lipoproteins (LDL < 0.010), blood pressure ($p = 0.008$), diabetes mellitus ($p < 0.001$), wheezing ($p = 0.0043$) and bronchiectasis ($p < 0.001$).

Delayed toxic effects of SM in upper and lower respiratory tracts were mostly inflammatory and infectious complications, SM-induced disabilities were significantly correlated with risk factors such as diabetes mellitus, hypertension, LDL and lower-respiratory complications.

Efficacy of anti-scorpion venom serum over prazosin in the management of severe scorpion envenomation

Natu VS. J Postgrad Med 2010; 56: 275-80.

Background

Scorpion venoms cause a massive release of neurotransmitters. Either anti-scorpion venom serum (AScVS) or prazosin has been used in the management of severe scorpion envenomation.

Aims

To compare the time taken for clinical recovery by patients with severe scorpion envenomation after AScVS therapy with that following prazosin therapy.

Settings and design

A prospective, open-labeled clinical trial was undertaken to compare the effects of the AScVS and/or prazosin on clinical recovery in scorpion-stung patients.

Materials and methods

Eighty-one patients from rural districts of Maharashtra presenting with severe scorpion envenomation were assigned to three treatment groups (AScVS: $n = 28$; prazosin: $n = 25$; AScVS + prazosin: $n = 28$). Severity of scorpion envenomation was graded using a proposed composite clinical scoring system to assess the therapeutic efficacy. AScVS was administered as an intravenous slow bolus, ranging from 40 to 100 ml, depending on the severity of envenomation. Prazosin was given as 1 mg every 3 h.

Statistical analysis used

The non-parametric "Kruskal-Wallis" test was used in the statistical analysis and a P-value of 0.05 was considered significant. Results : Mean composite scores of patients from the three groups at the time of admission were comparable. Complete clinical recovery was noted in 4.14 1.6 h and 19.28 5.03 h in the subjects who were administered AScVS and prazosin, respectively ($P < 0.001$). There was no incidence of anaphylactic reaction to AScVS.

Conclusions

Intravenous slow bolus of AScVS given based on the clinical severity of envenomation leads to early recovery than prazosin alone and is well tolerated.

Changes in serial laboratory test results in snakebite patients: when can we safely exclude envenoming?

Ireland G, Brown SGA, Buckley NA, Stormer J, Currie BJ, White J, Spain D, Isbister GK. Med J Aust 2010; 193: 285-90.

Objectives

To determine which laboratory tests are first associated with severe envenoming after a snakebite, when (i.e., how long after the bite) the test results become abnormal, and whether this can determine a safe observation period after suspected snakebite.

Design, patients and setting

Prospective cohort study of 478 patients with suspected or confirmed snakebite recruited to the Australian Snakebite Project from January 2002 to April 2009, who had at least three sets of

laboratory test results and at least 12 h of observation in hospital after the bite. Severe envenoming was defined as venom-induced consumption coagulopathy (VICC), myotoxicity, neurotoxicity or thrombotic microangiopathy.

Main outcome measures

International normalised ratio (INR), activated partial thromboplastin time (aPTT), creatine kinase (CK) level, and neurological examination.

Results

There were 240 patients with severe envenoming, 75 with minor envenoming and 163 non-envenomed patients. Of 206 patients with VICC, 178 had an INR > 1.2 (abnormal) on admission, and the remaining 28 had an INR > 1.2 within 12 h of the bite. Of 33 patients with myotoxicity, a combination of CK > 250 U/L and an abnormal aPTT identified all but two cases by 12 h; one of these two was identified within 12 h by leukocytosis. Nine cases of isolated neurotoxicity had a median time of onset after the bite of 4 h (range, 35 min - 12 h). The combination of serial INR, aPTT and CK tests and repeated neurological examination identified 213 of 222 severe envenoming cases (96%) by 6 hours and 238 of 240 (99%) by 12 h.

Conclusion

Laboratory parameters (INR, aPTT and CK) and neurological reassessments identified nearly all severe envenoming cases within 12 hours of the bite, even in this conservative analysis that assumed normal test results if the test was not done.

Maternal methadone therapy increases QTc interval in newborn infants

Parikh R, Hussain T, Holder G, Bhojar A, Ewer AK. Arch Dis Child Fetal Neonatal 2010; online early: doi: 10.1136/adc.2009.181701:

Introduction

Prolongation of the QT interval is a risk factor for sudden death. Methadone treatment is a well-recognised cause of QT interval lengthening in adults. The effect of maternal methadone treatment on the QT interval of the newborn infant is not known. This is the first prospective study of corrected QT (QTc) interval in infants born to mothers receiving methadone.

Aim

To compare QTc interval in infants born to mothers receiving methadone therapy with healthy controls.

Method

Twenty-six term infants (median gestation 38 weeks, range 37-40) born to mothers on methadone therapy had ECG recordings on days 1, 2, 4 and 7. The QTc interval was calculated using the Bazett formula. Results for days 1 and 2 were compared with healthy matched control infants born to mothers who were not receiving methadone. Results for days 4 and 7 were compared with published normal values.

Results

In the methadone group, the QTc interval was significantly prolonged on days 1 and 2 of life. On days 4 and 7, this increase was no longer present. None of the infants in either group had any evidence of significant cardiac rhythm disturbance.

Conclusion

Maternal methadone therapy can cause transient prolongation of the QTc interval in newborn infants in the first 2 days of life. Newborns exposed to methadone are at risk of cardiac rhythm disturbances. Bradycardia, tachycardia or an irregular heart rate in an infant born to a mother on methadone treatment should prompt investigation with a 12-lead ECG.

Use of proton-pump inhibitors in early pregnancy and the risk of birth defects

Pasternak B, Hviid A. *N Engl J Med* 2010; 363: 2114-23.

Background

Symptoms of gastroesophageal reflux are common in pregnancy, but there are limited data on the risk of birth defects associated with exposure to proton-pump inhibitors (PPIs) in early pregnancy.

Methods

We conducted a cohort study to assess the association between exposure to PPIs during pregnancy and the risk of major birth defects among all infants born alive in Denmark between January 1996 and September 2008. We linked data from nationwide registries, including individual-level information on exposure to PPIs (prescriptions), birth defects, and potential confounders. Major birth defects, diagnosed within the first year of life, were categorized according to the standardized classification scheme of the European surveillance of congenital anomalies (EUROCAT). Our primary analyses assessed the use of PPIs from 4 weeks before conception through 12 weeks of gestation and from 0 through 12 weeks of gestation (first trimester).

Results

Among 840 968 live births, 5082 involved exposure to PPIs between 4 weeks before conception and the end of the first trimester of pregnancy. There were 174 major birth defects in infants whose mothers had been exposed to PPIs during this period (3.4%), as compared with 21 811 in the group whose mothers had not been exposed (2.6%) (adjusted prevalence odds ratio, 1.23; 95% confidence interval [CI], 1.05-1.44). In analyses limited to exposure during the first trimester, there were 118 major birth defects among 3651 infants exposed to PPIs (3.2%), and the adjusted prevalence odds ratio was 1.10 (95% CI, 0.91-1.34). The risk of birth defects was not significantly increased in secondary analyses of exposure to individual PPIs during the first trimester or in analyses limited to the offspring of women who had filled PPI prescriptions and received enough doses to have a theoretical chance of first-trimester exposure.

Conclusions

In this large cohort, exposure to PPIs during the first trimester of pregnancy was not associated with a significantly increased risk of major birth defects.

Critical windows of fetal lead exposure: adverse impacts on length of gestation and risk of premature delivery

Cantonwine D, Hu H, Sánchez BN, Lamadrid-Figueroa H, Smith D, Ettinger AS, Mercado-García A, Hernández-Avila M, Wright RO, Téllez-Rojo MM. *J Occup Environ Med* 2010; 52: 1106-11.

Objective

Research on the role of environmental lead exposure in the complex etiology of premature birth has yielded inconsistent results. We assessed the trimester-specific effect of prenatal lead exposure on gestational age and risk of premature delivery.

Methods

We used linear and logistic regression to identify critical windows of susceptibility to lead exposure on gestational length.

Results

In single-trimester models, decreases in gestational length were most strongly associated with first and second trimester blood lead. In adjusted logistic regression models, a one-standard deviation increase in second trimester blood lead was associated with an odds ratio of prematurity of 1.75 (95% CI: 1.02, 3.02).

Conclusions

Maternal whole blood lead levels measured during first and second trimesters yielded the most prominent inverse association with length of gestation and increased the risk of prematurity.

TOXICOLOGY

General

Bolon B, Bradley A, Garman R, Krinke G.
Useful toxicologic neuropathology references for pathologists and toxicologists.

Toxicol Pathol 2010; online early: doi
10.1177/0192623310385142:

Bolon B.

Perspectives on past practices and future trends in toxicologic neuropathology: notes from a keynote address by Dr. Peter S. Spencer.

Toxicol Pathol 2010; online early: doi
10.1177/0192623310385147:

Saeui C, Charlton N, Brady WJ.

Biochemical issues in emergency medicine: diagnostic and therapeutic considerations of selected toxic presentations.

Am J Emerg Med 2010; online early: doi:
10.1016/j.ajem.2010.09.032:

Seifert SA, Vilay AM, Wong CS, Schrader RM, Mercier RC.

Characterization of acute kidney injury in toxic exposures. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 615.

Analytical toxicology

Abbott R, Smeraglia J, White S, Luedtke S, Brunet L, Thomas E, Globig S, Timmerman P.

Conference report: Connecting strategies on dried blood spots. Bioanalysis 2010; 2: 1809-16.

Adams C.

Evidentiary blood alcohol draws by emergency nurses.

J Emerg Nurs 2010; 36: 350-4.

Amini-Shirazi N, Ahmadkhamha R, Shadma S, Ghahreman MH, Abdollahi M, Dadgar A, Kebriaeezadeh A.

Determination of VPA and its two important metabolites in Iranian overdosed patients.

Int J Pharmacol 2010; 6: 854-62.

Cabarcos P, Tabernero MJ, Alvarez I, Lopez P, Fernandez P, Bermejo AM.

Analysis of six benzodiazepines in vitreous humor by high-performance liquid chromatography-photodiode-array detection.

J Anal Toxicol 2010; 34: 539-42.

Cartiser N, Bevalot F, Fanton L, Gaillard Y, Guitton J.

State-of-the-art of bone marrow analysis in forensic toxicology: a review.

Int J Legal Med 2010; online early: doi 10.1007/s00414-010-0525-6:

Ceelen M, Dorn T, Buster M, Stomp J, Zweipfenning P, Das K.

Post-mortem toxicological urine screening in cause of death determination.

Hum Exp Toxicol 2010; online early: doi:

10.1177/0960327110390063:

Chousterman B, Payen D, Megarbane B, Laprevote O.

Elements de chromatographie et de spectrometrie de masse a l'usage des cliniciens. [Elements of chromatography and mass spectrometry for the clinician use]. In French with English abstract.

Reanimation 2010; 19: 593-6.

Cordero R, Lee S, Paterson S.

Distribution of concentrations of cocaine and its metabolites in hair collected postmortem from cases with diverse causes/circumstances of death.

J Anal Toxicol 2010; 34: 543-8.

De Backer B, Renardy F, Denooz R, Charlier C.

Quantification in postmortem blood and identification in urine of tramadol and its two main metabolites in two cases of lethal tramadol intoxication.

J Anal Toxicol 2010; 34: 599-604.

Gab J, John H, Blum MM.

Formation of pyrophosphate-like adducts from nerve agents sarin; soman and cyclosarin in phosphate buffer: implications for analytical and toxicological investigations.

Toxicol Lett 2010; online early: doi:

10.1016/j.toxlet.2010.10.011:

Genuis SJ, Birkholz D, Rodushkin I, Beesoon S.

Blood, urine, and sweat (BUS) study: monitoring and elimination of bioaccumulated toxic elements.

Arch Environ Contam Toxicol 2010; online early: doi:

10.1007/s00244-010-9611-5:

Gerostamoulos D, Beyer J.

Drug screening in clinical or forensic toxicology: are there differences?

J Law Med Ethics 2010; 18: 25-8.

Gerostamoulos D, Beyer J, Wong K, Wort C, Drummer OH.

Carbon monoxide concentrations in the 2009 Victorian bushfire disaster victims.

Forensic Sci Int 2010; online early: doi:

10.1016/j.forsciint.2010.08.029:

Gjerde H, Oiestad EL, Oiestad AM, Langodegard M, Gustavsen I, Hjelmeland K, Bernard JP, Christophersen AS.

Comparison of zopiclone concentrations in oral fluid sampled with Intercept® oral specimen collection device and StatSure saliva sampler and concentrations in blood.

J Anal Toxicol 2010; 34: 590-3.

Halbach S, Welzl G.

Levels of organic and inorganic mercury in human blood predicted from measurements of total mercury.

J Appl Toxicol 2010; 30: 674-9.

Hamelin E, Swaim L, Thomas J, Kobelski R, Johnson RC.

Quantitation of tetramethylene disulfotetramine in human urine using isotope dilution gas chromatography mass spectrometry (GC/MS and GC/MS/MS).

J Chromatogr B Analyt Technol Biomed Life Sci 2010; 878: 2541-7.

Holstege CP, Forrester JD, Borek HA, Lawrence DT.

A case of cyanide poisoning and the use of arterial blood gas analysis to direct therapy.

Hosp Pract 2010; 38: 69-74.

Kehagia K, Bratakos S, Kolovou M, Potiriadis C.

Hair analysis as an indicator of exposure to uranium.

Radiat Prot Dosimetry 2010; online early: doi:

10.1093/rpd/ncq324:

Kirschbaum KM, Musshoff F, Wilbert A, Röhrich J, Madea B.

Direct ELISA kits as a sensitive and selective screening method for abstinence control in urine.

Forensic Sci Int 2010; online early: doi:

10.1016/j.forsciint.2010.09.002:

Analytical toxicology

Kuepper U, Musshoff F, Madea B.

Applicability of succinylmonocholine as a marker for succinylcholine administration - comparative analysis of samples from a fatal succinylcholine-intoxication versus postmortem control specimens. *Forensic Sci Int* 2010; online early: doi: 10.1016/j.forsciint.2010.09.007:

Lugassy DM, Jang DH, Smith SW, Manini AF, Hoffman RS. Effect of glycolate on measured lactate using three analyzers. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. *Clin Toxicol* 2010; 48: 619.

McIlhenny EH, Riba J, Barbanoj MJ, Strassman R, Barker SA. Methodology for and the determination of the major constituents and metabolites of the Amazonian botanical medicine ayahuasca in human urine.

Biomed Chromatogr 2010; online early: PM:21058415:

Mercolini L, Mandrioli R, Gerra G, Raggi MA. Analysis of cocaine and two metabolites in dried blood spots by liquid chromatography with fluorescence detection: a novel test for cocaine and alcohol intake. *J Chromatogr A* 2010; 1217: 7242-8.

Meyer MR, Du P, Schuster F, Maurer HH. Studies on the metabolism of the alpha-pyrrolidinophenone designer drug methylenedioxy-pyrovalerone (MDPV) in rat and human urine and human liver microsomes using GC-MS and LC-high-resolution MS and its detectability in urine by GC-MS. *J Mass Spectrom* 2010; online early:PM:21053377:

Mégarbane B, Bloch V, Hirt D, Debray M, Résière D, Deye N, Baud FJ.

Blood concentrations are better predictors of chloroquine poisoning severity than plasma concentrations: a prospective study with modeling of the concentration/effect relationships. *Clin Toxicol* 2010; 48: 904-5.

Mostafazadeh B, Pajoumand A, Farzaneh E, Aghabiklooei A, Rasouli MR.

Blood levels of methemoglobin in patients with aluminum phosphide poisoning and its correlation with patient's outcome. *J Med Toxicol* 2010; online early: doi:10.1007/s13181-010-0121-7:

Musshoff F, Hess C, Madea B. Disorders of glucose metabolism: post mortem analyses in forensic cases-part II. *Int J Legal Med* 2010; online early: doi: 10.1007/s00414-010-0510-0:

Odetokun MS, Montesano MA, Weerasekera G, Whitehead RD, Needham LL, Barr DB.

Quantification of dialkylphosphate metabolites of organophosphorus insecticides in human urine using 96-well plate sample preparation and high-performance liquid chromatography-electrospray ionization-tandem mass spectrometry. *J Chromatogr B Analyt Technol Biomed Life Sci* 2010; 878: 2567-74.

Oertel R, Pietsch J, Arenz N, Goltz L, Kirch W. Investigations to distribution of metoprolol in human autopsy material. Abstract from 2010 Annual Meeting of the German Clinical Pharmacologists, Würzburg, Germany, 4-6 November 2010. *Br J Clin Pharmacol* 2010; 70: 25.

Perez JJ, Williams MK, Weerasekera G, Smith K, Whyatt RM, Needham LL, Barr DB.

Measurement of pyrethroid, organophosphorus, and carbamate insecticides in human plasma using isotope dilution gas chromatography-high resolution mass spectrometry. *J Chromatogr B Analyt Technol Biomed Life Sci* 2010; 878: 2554-62.

Shi Y, Shen B, Xiang P, Yan H, Shen M.

Determination of ethyl glucuronide in hair samples of Chinese people by protein precipitation (PPT) and large volume injection-gas chromatography-tandem mass spectrometry (LVI-GC/MS/MS). *J Chromatogr B Analyt Technol Biomed Life Sci* 2010; 878: 3161-6.

Wang H-J, Du X-M, Wang M, Wang T-C, Ou-Yang H, Wang B, Zhu M-T, Wang Y, Jia G, Feng W-Y.

Using ion-pair reversed-phase HPLC ICP-MS to simultaneously determine Cr(III) and Cr(VI) in urine of chromate workers. *Talanta* 2010; 81: 1856-60.

Whitehead RD, Montesano MA, Jayatilaka NK, Buckley B, Winnik B, Needham LL, Barr DB.

Method for measurement of the quaternary amine compounds paraquat and diquat in human urine using high-performance liquid chromatography-tandem mass spectrometry. *J Chromatogr B Analyt Technol Biomed Life Sci* 2010; 878: 2548-53.

Wikstrom M, Thelander G, Nystrom I, Kronstrand R.

Two fatal intoxications with the new designer drug methedrone (4-methoxymethcathinone). *J Anal Toxicol* 2010; 34: 594-8.

Wu C, Liu P, Zheng L, Chen J, Zhou Z.

GC-FPD measurement of urinary dialkylphosphate metabolites of organophosphorus pesticides as pentafluorobenzyl derivatives in occupationally exposed workers and in a general population in Shanghai (China). *J Chromatogr B Analyt Technol Biomed Life Sci* 2010; 878: 2575-81.

Youso SL, Rockwood GA, Lee JP, Logue BA.

Determination of cyanide exposure by gas chromatography-mass spectrometry analysis of cyanide-exposed plasma proteins. *Anal Chim Acta* 2010; 677: 24-8.

Body packing

Mandava N, Chang RS, Wang JH, Bertocchi M, Yrad J, Allamaneni S, Aboian E, Lall MH, Mariano R, Richards N.

Establishment of a definitive protocol for the diagnosis and management of body packers (drug mules). *Emerg Med J* 2010; online early: doi: 10.1136/emj.2008.059717:

Carcinogenicity

Anon.

Toxicology and carcinogenesis studies of androstenedione (CAS No. 63-05-8) in F344/N rats and B6C3F1 mice (gavage studies). *Natl Toxicol Program Tech Rep Ser* 2010; 560: 1-192.

Boice JDJ, Marano DE, Munro HM, Chadda BK, Signorello LB, Tarone RE, Blot WJ, McLaughlin JK.

Cancer mortality among US workers employed in semiconductor wafer fabrication. *J Occup Environ Med* 2010; 52: 1082-97.

Cole P, Adami HO, Trichopoulos D, Mandel JS.

Re: Mortality from lymphohematopoietic malignancies and brain cancer among embalmers exposed to formaldehyde. *J Natl Cancer Inst* 2010; 102: 1518-9.

Hauptmann M, Stewart PA, Lubin JH, Beane Freeman LE, Hornung RW, Herrick RF, Hoover RN, Fraumeni JF, Blair A, Hayes RB.

Re: Mortality from lymphohematopoietic malignancies and brain cancer among embalmers exposed to formaldehyde - response. *J Natl Cancer Inst* 2010; 102: 1519-20.

Carcinogenicity

Kane EV, Newton R.

Occupational exposure to gasoline and the risk of non-Hodgkin lymphoma: a review and meta-analysis of the literature. *Cancer Epidemiol* 2010; 34: 516-22.

Kirman CR, Albertini RA, Gargas ML.

1,3-Butadiene: III. Assessing carcinogenic modes of action. *Crit Rev Toxicol* 2010; 40: 74-92.

Kjaerheim K, Martinsen JI, Lyng E, Gunnarsdottir HK, Sparen P, Tryggvadottir L, Weiderpass E, Pukkala E.

Effects of occupation on risks of avoidable cancers in the Nordic countries. *Eur J Cancer* 2010; 46: 2545-54.

Koutros S, Alavanja MCR, Lubin JH, Sandler DP, Hoppin JA, Lynch CF, Knott C, Blair A, Freeman LEB.

An update of cancer incidence in the agricultural health study. *J Occup Environ Med* 2010; 52: 1098-105.

Melkonian S, Argos M, Pierce BL, Chen Y, Islam T, Ahmed A, Syed EH, Parvez F, Graziano J, Rathouz PJ, Ahsan H.

A prospective study of the synergistic effects of arsenic exposure and smoking, sun exposure, fertilizer use, and pesticide use on risk of premalignant skin lesions in Bangladeshi men. *Am J Epidemiol* 2010; online early: doi: 10.1093/aje/kwq357:

Olsson A, Kromhout H, Agostini M, Hansen J, Lassen CF, Johansen C, Kjaerheim K, Langard S, Stucker I, Ahrens W, Behrens T, Lindbohm M-L, Heikkila P, Heederik D, Portengen L, Shaham J, Ferro G, De Vocht F, Burstyn I, Boffetta P.

A case-control study of lung cancer nested in a cohort of European asphalt workers. *Environ Health Perspect* 2010; 118: 1418-24.

Quach T, Doan-Billing PA, Layefsky M, Nelson D, Nguyen KD, Okahara L, Tran AN, Von Behren J, Reynolds P.

Cancer incidence in female cosmetologists and manicurists in California, 1988-2005. *Am J Epidemiol* 2010; 172: 691-9.

Ragunathan N, Dairou J, Sanfins E, Busi F, Noll C, Janel N, Dupret JM, Rodrigues-Lima F.

Cadmium alters the biotransformation of carcinogenic aromatic amines by arylamine *N*-acetyltransferase xenobiotic-metabolizing enzymes: molecular, cellular, and *in vivo* studies. *Environ Health Perspect* 2010; 118: 1685-91.

Tokar EJ, Qu W, Waalkes MP.

Arsenic, stem cells and the developmental basis of adult cancer. *Toxicol Sci* 2010; online early: doi: 10.1093/toxsci/kfq342:

Verger P, Pardon C, Dumesnil H, Charrier D, De Labrusse B, Lehucher-Michel MP, Viau A, Arnaud S, Souville M.

Occupational physicians' attitudes and practices in relation to occupational cancer prevention: a qualitative study in south-eastern France. *Int J Occup Environ Health* 2010; 16: 320-9.

Villeneuve S, Cyr D, Lyng E, Orsi L, Sabroe S, Merletti F, Gorini G, Morales-Suarez-Varela M, Ahrens W, Baumgardt-Elms C, Kaerlev L, Eriksson M, Hardell L, Févotte J, Guénel P.

Occupation and occupational exposure to endocrine disrupting chemicals in male breast cancer: a case control study in Europe. *Occup Environ Med* 2010; 67: 837-44.

Chemical sensitivity

Conso F, Dargone M-A, Asselain D, Choudat D.

L'intolérance environnementale idiopathique (sensibilité chimique multiple). [Idiopathic environmental intolerance (multiple chemical sensitivity)]. In French with English abstract. *Envir Risques Sante* 2010; 9: 393-400.

Dermal toxicity

Chakera A, Lasserson D, Beck LH, Roberts ISD, Winearls CG.

Membranous nephropathy after use of UK-manufactured skin creams containing mercury. *QJM* 2010; online early: doi:10.1093/qjmed/hcq209:

Field S, O'Sullivan C, Bourke JF.

Allergic contact dermatitis from *N,N*-methylenbismorpholine in a cutting oil. *Dermatitis* 2010; 21: 292-3.

Giorgini S, Tognetti L, Zanieri F, Lotti T.

Occupational airborne allergic contact dermatitis caused by gold. *Dermatitis* 2010; 21: 284-7.

Kimber I, Basketter DA, Gerberick GF, Ryan CA, Dearman RJ.

Chemical allergy: translating biology into hazard characterization. *Toxicol Sci* 2010; online early: doi: 10.1093/toxsci/kfq346:

Ladizinski B, Mistry N, Kundu RV.

Widespread use of toxic skin lightening compounds: medical and psychosocial aspects. *Dermatol Clin* 2011; 29: 111-23.

Rehal B, Maibach H.

Percutaneous absorption of vapors in human skin. *Cutan Ocul Toxicol* 2010; online early: doi: 10.3109/15569527.2010.534522:

Salles JC, Deschamps FJ.

Allergic contact dermatitis due to a PVC table cover. *Occup Med (Oxf)* 2010; 60: 662-4.

Developmental toxicology

Abel EL.

Cerebral palsy and alcohol consumption during pregnancy: is there a connection? *Alcohol Alcohol* 2010; 45: 592-4.

Basha R, Reddy GR.

Developmental exposure to lead and late life abnormalities of nervous system. *Indian J Exp Biol* 2010; 48: 636-41.

Betts KS.

Do metals meddle with puberty in girls? Lead, cadmium, and altered hormone levels. *Environ Health Perspect* 2010; online early: doi: 10.1289/ehp.118-a542b:

Boyles AL, Deroo LA, Lie RT, Taylor JA, Jugessur A, Murray JC, Wilcox AJ.

Maternal alcohol consumption, alcohol metabolism genes, and the risk of oral clefts: a population-based case-control study in Norway, 1996-2001. *Am J Epidemiol* 2010; 172: 924-31.

Cantonwine D, Hu H, Sánchez BN, Lamadrid-Figueroa H, Smith D, Ettinger AS, Mercado-García A, Hernández-Avila M, Wright RO, Téllez-Rojo MM.

Critical windows of fetal lead exposure: adverse impacts on length of gestation and risk of premature delivery. *J Occup Environ Med* 2010; 52: 1106-11.

Chen A, Dietrich KN, Huo X, Ho SM.

Developmental neurotoxicants in E-waste: an emerging health concern. *Environ Health Perspect* 2010; online early: doi: 10.1289/ehp.1002452:

Developmental toxicology

Eskenazi B, Huen K, Marks A, Harley KG, Bradman A, Barr DB, Holland N.

PON1 and neurodevelopment in children from the CHAMACOS study exposed to organophosphate pesticides *in utero*. *Environ Health Perspect* 2010; 118: 1775-81.

Eubig PA, Aguiar A, Schantz SL.

Lead and PCBs as risk factors for attention deficit/hyperactivity disorder. *Environ Health Perspect* 2010; 118: 1654-67.

Ewence AE, Lawton EJ, Rumsby PC.

Possible developmental toxicity associated with landfill sites in the UK. Highlights of the 2010 Annual Congress of the British Toxicology Society. Includes the abstracts of the British Toxicology Society, Spring 2010. *Toxicology* 2010; 278: 376.

Finnegan L, Pacini M, Maremmani I.

Methadone treatment for pregnant heroin addicted women. *Heroin Addict Rel Clin Probl* 2010; 12: 29-36.

Gardner RM, Nermell B, Kippler M, Grandér M, Li L, Ekström EC, Rahman A, Lönnerdal B, Hoque AMW, Vahter M.

Arsenic methylation efficiency increases during the first trimester of pregnancy independent of folate status. *Reprod Toxicol* 2010; online early: doi: 10.1016/j.reprotox.2010.11.002:

Goodman JE, Kerper LE, Johnson GT, Harbison RD, Cordero R, Lee RV, Pulde MF, Hardy M, Stedeford T. PBDE flame retardants and thyroid hormones during pregnancy. *Environ Health Perspect* 2010; 118: a520.

Gundacker C, Frohlich S, Graf-Rohrmeister K, Eibenberger B, Jessenig V, Gicic D, Prinz S, Wittmann KJ, Zeisler H, Vallant B, Pollak A, Husslein P.

Perinatal lead and mercury exposure in Austria. *Sci Total Environ* 2010; 408: 5744-9.

Kim Y, Cho S-C, Kim B-N, Hong Y-C, Shin M-S, Yoo H-J, Kim J-W, Bhang S-Y.

Association between blood lead levels (<5 mug/dL) and inattention-hyperactivity and neurocognitive profiles in school-aged Korean children. *Sci Total Environ* 2010; 408: 5737-43.

Kurtz M, Black Golde P, Berlinger N.

Ethical considerations in CYP2D6 genotype testing for codeine-prescribed breastfeeding mothers. *Clin Pharmacol Ther* 2010; 88: 760-2.

Lepeule J, Caini F, Bottagis S, Galineau J, Hulin A, Marquis N, Bohet A, Siroux V, Kaminski M, Charles M-A, Slama R.

Maternal exposure to nitrogen dioxide during pregnancy and offspring birth weight: comparison of two exposure models. *Environ Health Perspect* 2010; 118: 1483-9.

Luo J.

Mechanisms of ethanol-induced death of cerebellar granule cells. *Cerebellum* 2010; online early: doi: 10.1007/s12311-010-0219-0:

Main KM, Skakkebaek NE, Virtanen HE, Toppari J.

Genital anomalies in boys and the environment. *Best Pract Res Clin Endocrinol Metab* 2010; 24: 279-89.

Marks AR, Harley K, Bradman A, Kogut K, Barr DB, Johnson C, Calderon N, Eskenazi B.

Organophosphate pesticide exposure and attention in young Mexican-American children: the CHAMACOS study. *Environ Health Perspect* 2010; 118: 1768-74.

Mitchell AA.

Proton-pump inhibitors and birth defects – some reassurance, but more needed. *N Engl J Med* 2010; 363: 2161-3.

Pasternak B, Hviid A.

Use of proton-pump inhibitors in early pregnancy and the risk of birth defects. *N Engl J Med* 2010; 363: 2114-23.

Roussotte F, Soderberg L, Sowell E.

Structural, metabolic, and functional brain abnormalities as a result of prenatal exposure to drugs of abuse: evidence from neuroimaging. *Neuropsychol Rev* 2010; 20: 376-97.

Sheng L, Ding X, Ferguson M, McCallister M, Rhoades R, Maguire M, Ramesh A, Aschner M, Campbell D, Levitt P, Hood DB.

Prenatal polycyclic aromatic hydrocarbon exposure leads to behavioral deficits and downregulation of receptor tyrosine kinase, MET. *Toxicol Sci* 2010; 118: 625-34.

Vajda FJE, Graham JE, Hitchcock AA, O'Brien TJ, Lander CM, Eadie MJ.

Is lamotrigine a significant human teratogen? Observations from the Australian pregnancy register. *Seizure* 2010; 19: 558-61.

Driving under the influence

Liu Y-C, Ho CH.

Effects of different blood alcohol concentrations and post-alcohol impairment on driving behavior and task performance. *Traffic Inj Prev* 2010; 11: 334-41.

Mravcik V, Zabransky T, Vorel F.

[Ethanol and other psychoactive substances in fatal road traffic accidents in the Czech Republic in 2008]. *Cas Lek Cesk* 2010; 149: 332-6.

Epidemiology

Anon.

Suicide-by-pesticides study ranks pesticide toxicity. *New Scientist* 2010; 208: 4-5.

Aggarwal KK, Kumar R, Tayal M.

Epidemiological trends in the fatal poisoning cases in the Malwa region of Punjab. *Med Leg Update* 2010; 10: 28-9.

Amigo Tadin M, Nogue Xarau S.

[Accidents in the home acute intoxication by household products]. In Spanish with English abstract. *Rev Enferm* 2010; 33: 29-7.

Arcury TA, Grzywacz JG, Talton JW, Chen H, Vallejos QM, Galván L, Barr DB, Quandt SA.

Repeated pesticide exposure among North Carolina migrant and seasonal farmworkers. *Am J Ind Med* 2010; 53: 802-13.

Aydin B, Kartal M.

Turkiye'de Karadeniz Bolgesi'ndeki bir ilde (Samsun) 1999-2003 yıllarındaki intihar olgulari. [Suicide cases in a province (Samsun) of Black Sea region of Turkey between 1999-2003 years] In Turkish with English abstract. *Turk Klinikleri J Med Sci* 2010; 30: 1067-72.

Balme KH, Roberts JC, Glasstone M, Curling L, Rother HA, London L, Zar H, Mann MD.

Pesticide poisonings at a tertiary children's hospital in South Africa: an increasing problem. *Clin Toxicol* 2010; 48: 928-34.

Epidemiology

Beasley MG, Slaughter RJ, Schep LJ.

Copper sulfate toxicity: young teenagers identified as a significant risk group. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. *Clin Toxicol* 2010; 48: 642.

Berny P, Velardo J, Pulce C, D'Amico A, Kammerer M, Lasseur R. Prevalence of anticoagulant rodenticide poisoning in humans and animals in France and substances involved. *Clin Toxicol* 2010; 48: 935-41.

Bosch de Basea M, Porta M, Alguacil J, Puigdomènech E, Gasull M, Garrido JA, López T. Relationships between occupational history and serum concentrations of organochlorine compounds in exocrine pancreatic cancer. *Occup Environ Med* 2010; online early: doi: 10.1136/oem.2009.054197:

Caballero Vallés PJ, Dorado Pombo S. Realidad de las intoxicaciones agudas: Sanidad progresada adecuadamente, Política Social necesita mejorar. [Reality of acute poisonings: health department progresses adequately, social policy department needs to improve]. In Spanish. *Med Clin (Barc)* 2010; online early: doi: 10.1016/j.medcli.2010.07.008:

Carstairs SD, Luk JY, Cantrell FL. A comprehensive review of anticholinergic plant exposures in California, 1997-2008. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. *Clin Toxicol* 2010; 48: 628.

Cave M, Appana S, Patel M, Falkner KC, McClain CJ, Brock G. Polychlorinated biphenyls, lead, and mercury are associated with liver disease in American adults: NHANES 2003-2004. *Environ Health Perspect* 2010; 118: 1735-42.

Cesaretli Y, Ozkan O. Picadas de escorpião na Turquia: aspectos epidemiológicos e clínicos entre os anos de 1995 e 2004. [Scorpion stings in Turkey: epidemiological and clinical aspects between the years 1995 and 2004]. In Portuguese with English abstract. *Rev Inst Med Trop Sao Paulo* 2010; 52: 215-20.

Ceschi A, Hofer KE, Rauber-Lüthy C, Kupferschmidt H. Paracetamol orodispersible tablets: a risk for severe poisoning in children? *Eur J Clin Pharmacol* 2010; online early: doi: 10.1007/s00228-010-0943-x:

Chowdhury AN, Banerjee S, Brahma A, Das S, Sarker P, Biswas MK, Sanyal D, Hazra A. A prospective study of suicidal behaviour in Sundarban delta, West Bengal, India. *Natl Med J India* 2010; 23: 201-5.

Cornish R, Macleod J, Strang J, Vickerman P, Hickman M. Risk of death during and after opiate substitution treatment in primary care: prospective observational study in UK General Practice Research Database. *Br Med J* 2010; 341: c5475.

Corriols M. Pesticide poisoning in Nicaragua - five decades of evidence. *Pestic News* 2010; 89: 3-6.

Coviello DM, Zanis DA, Wesnoski SA, Lynch KG, Drapkin M. Characteristics and 9-month outcomes of discharged methadone maintenance clients. *J Subst Abuse Treat* 2010; online early: doi: 10.1016/j.jsat.2010.09.007:

Dawson AH, Eddleston M, Senarathna L, Mohamed F, Gawarammana I, Bowe SJ, Manuweera G, Buckley NA. Acute human lethal toxicity of agricultural pesticides: a prospective cohort study. *PLoS Med* 2010; 7: e1000357.

de Oliveira MT, Pereira JR, Ghizoni JS, Bittencourt ST, Molina GO. Effects from exposure to dental amalgam on systemic mercury levels in patients and dental school students. *Photomed Laser Surg* 2010; 28 Suppl 2: S111-S114.

Degenhardt L, Bucello C, Mathers B, Briegleb C, Ali H, Hickman M, McLaren J. Mortality among regular or dependent users of heroin and other opioids: a systematic review and meta-analysis of cohort studies. *Addiction* 2010; online early: doi: 10.1111/j.1360-0443.2010.03140.x:

Deutsch CM, Bronstein AC, Banerji .S., Hesse CL, Spyker DA. Pediatric chewing tobacco & snuff exposures: 2000-2009. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. *Clin Toxicol* 2010; 48: 608-9.

Douglas I, Smeeth L, Irvine D. The use of antidepressants and the risk of haemorrhagic stroke: a nested case control study. *Br J Clin Pharmacol* 2011; 71: 116-20.

Eddleston M, Bateman DN. Major reductions in global suicide numbers can be made rapidly through pesticide regulation without the need for psychosocial interventions. *Soc Sci Med* 2010; online early: doi: 10.1016/j.socscimed.2010.10.013:

Farzaneh E, Mehrpour O, Alfred S, Moghaddam HH, Behnoush B, Seghatoleslam T. Self-poisoning suicide attempts among students in Tehran, Iran. *Psychiatr Danub* 2010; 22: 34-8.

Fass JA. Carisoprodol legal status and patterns of abuse. *Ann Pharmacother* 2010; online early: doi: 10.1345/aph.1P339:

Forrester MB, Aragon T, Sample-Ruiz M, Borys DJ. Poison center reporting of H1N1 vaccine exposures to a state department of health. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. *Clin Toxicol* 2010; 48: 640.

Frauger E, Pauly V, Pradel V, Rouby F, Arditti J, Thirion X, Lapeyre Mestre M, Micallef J. Evidence of clonazepam abuse liability: results of the tools developed by the French Centers for Evaluation and Information on Pharmacodependence (CEIP) network. *Fundam Clin Pharmacol* 2010; online early: doi: 10.1111/j.1472-8206.2010.00882.x:

Gollogly JG, Gascoigne AC, Holmes C, Kamp EM, Jenni K, Bon Vath S. Arsenic and amputations in Cambodia. *Asian Biomed* 2010; 4: 469-74.

Gonzalez-Andrade F, Lopez-Pulles R, Estevez E. Acute pesticide poisoning in Ecuador: a short epidemiological report. *J Public Health (UK)* 2010; 18: 437-42.

Gupta P, Gouda H, Honnangar R. Profile of poisoning cases in north Karnataka. *Med Leg Update* 2010; 10: 61-3.

Epidemiology

Henneberger PK, Mirabelli MC, Kogevinas M, Anto JM, Plana E, Dahlman-Hoglund A, Jarvis DL, Kromhout H, Lillienberg L, Norback D, Olivieri M, Radon K, Toren K, Urrutia I, Villani S, Zock JP. The occupational contribution to severe exacerbation of asthma. *Eur Respir J* 2010; 36: 743-50.

Hon KL, Leung AK. Childhood accidents: injuries and poisoning. *Adv Pediatr* 2010; 57: 33-62.

Hung HT, Hojer J, Du NT. Potentially hazardous environmental factors for poisoning in rural Vietnam: a community-based survey. *Southeast Asian J Trop Med Public Health* 2010; 41: 1021-7.

Jaiprakash H, Sarala N, Venkatarathnamma PN, Kumar TN. Analysis of different types of poisoning in a tertiary care hospital in rural south India. *Food Chem Toxicol* 2010; online early: doi: 10.1016/j.fct.2010.10.026:

Jayashree M, Singhi S. Changing trends and predictors of outcome in patients with acute poisoning admitted to the intensive care. *J Trop Pediatr* 2010; online early: doi: 10.1093/tropej/fmq099:

Kanny D, Liu Y, Brewer RD, Garvin W, Balluz L. Vital signs: binge drinking among high school students and adults - United States, 2009. *MMWR Morb Mortal Wkly Rep* 2010; 59: 1274-9.

Ladizinski B, Mistry N, Kundu RV. Widespread use of toxic skin lightening compounds: medical and psychosocial aspects. *Dermatol Clin* 2011; 29: 111-23.

Maarsingh OR, Dros J, Schellevis FG, van Weert HC, van der Windt DA, ter Riet G, van der Horst HE. Causes of persistent dizziness in elderly patients in primary care. *Ann Fam Med* 2010; 8: 196-205.

Madden ME, Shapiro SL. The methadone epidemic: methadone-related deaths on the rise in Vermont. *Am J Forensic Med Pathol* 2010; online early: doi: 10.1097/PAF.0b013e3181e8af3d:

Martin TC, Rocque MA. Accidental and non-accidental ingestion of methadone and buprenorphine in childhood: a single center experience, 1999-2009. *Curr Drug Saf* 2010; online early: PM:21047302:

McGoodwin L, Banner W, Dang K. Trends in healthcare utilization of PCC services. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. *Clin Toxicol* 2010; 48: 640.

Michael GC, Thacher TD, Shehu MI. The effect of pre-hospital care for venomous snake bite on outcome in Nigeria. *Trans R Soc Trop Med Hyg* 2010; online early: doi: 10.1016/j.trstmh.2010.09.005:

Miedinger D, Malo J-L, Ghezzi H, L'Archeveque J, Zunzunegui M-V. Factors influencing duration of exposure with symptoms and costs of occupational asthma. *Eur Respir J* 2010; 36: 728-34.

Mravcik V, Zabransky T, Vorel F. [Ethanol and other psychoactive substances in fatal road traffic accidents in the Czech Republic in 2008]. *Cas Lek Cesk* 2010; 149: 332-6.

Mrvos R, Pummer TL, Krenzelok EP.

Amoxicillin renal toxicity: how often does it occur? Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. *Clin Toxicol* 2010; 48: 609.

Mukamal KJ, Miller M.

Invited commentary: body mass index and suicide - untangling an unlikely association. *Am J Epidemiol* 2010; 172: 900-4.

Nicolle-Mir L.

Exposition aux pesticides et maladies de la thyroïde. [Exposure to pesticides and thyroid diseases]. In French with English abstract. *Envir Risques Sante* 2010; 9: 381-2.

Pérez Guitián P, Nogué Xarau S, Ríos Guillermo J, Navas Tejero I, Alonso Viladot JR.

Evaluacion de las intoxicaciones agudas por productos quimicos atendidas en un Servicio de Urgencias. [Evaluation of acute poisonings due to chemical agents treated in an emergency department]. In Spanish with English abstract. *Med Clin (Barc)* 2010; online early: doi: 10.1016/j.medcli.2010.04.033:

10.1016/j.medcli.2010.04.033:

Piasecki TM, Robertson BM, Epler AJ.

Hangover and risk for alcohol use disorders: existing evidence and potential mechanisms. *Curr Drug Abuse Rev* 2010; 3: 92-102.

Proue M, Jones-Webb R, Oberg C.

Blood lead screening among newly arrived refugees in Minnesota. *Minn Med* 2010; 93: 42-6.

Rastogi P, Kochar S.

A study of suicide in Jaipur, Rajasthan (2002-2007). *Med Leg Update* 2010; 10: 99-101.

Rockett IR, Hobbs GR, De Leo D, Stack S, Frost JL, Ducatman AM, Kapusta ND, Walker RL.

Suicide and unintentional poisoning mortality trends in the United States, 1987-2006: Two unrelated phenomena? *BMC Public Health* 2010; 10: 705.

Salmon AM, van Beek I, Amin J, Kaldor J, Maher L.

The impact of a supervised injecting facility on ambulance call-outs in Sydney, Australia. *Addiction* 2010; 105: 676-83.

Schier JG, Barr DB, Li Z, Wolkin AF, Baker SE, Lewis LS, McGeehin MA.

Diethylene glycol in health products sold over-the-counter and imported from Asian countries. *J Med Toxicol* 2010; online early: doi: 10.1007/s13181-010-0111-9:

Seifert SA, Vilay AM, Wong CS, Schrader RM, Mercier RC.

Characterization of acute kidney injury in toxic exposures. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. *Clin Toxicol* 2010; 48: 615.

Spyker DA, Bronstein AC.

A decade of national poison data system (NPDS) call data - baseline statistical models. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 664-5.

Epidemiology

Swaddiwudhipong W, Mahasakpan P, Funkhiew T, Limpatanachote P.

Changes in cadmium exposure among persons living in cadmium-contaminated areas in Northwestern Thailand: a five-year follow-up.

J Med Assoc Thai 2010; 93: 1217-22.

Tagliaferro ZA, Bracamonte G.

[Patients attended at a Venezuelan Toxicology Centre]. In Spanish with English abstract.

Rev Salud Publica (Bogota) 2010; 12: 220-7.

Todd LE, Caravati EM, Crouch BI, Roper WJ.

Epidemiology of ethylene glycol poisoning and treatment trends reported to US poison centers 2000-2007. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 659.

Yagmur F, Cavusoglu M, Karanfil R, Din H.

Determination of sociodemographic characteristics and etiological factors of suicide attempters.

Pak J Med Sci 2010; 26: 678-83.

Zajkowska J, Garkowski A, Panciewicz S.

[*Vipera berus* bite - epidemiology, clinical symptoms and review of treatment methods]. In Polish with English abstract.

Przegl Epidemiol 2010; 64: 387-93.

Zariwala RC, Mehta TJ, Bhise RS.

A retrospective study of aluminium phosphide poisoning cases in Ahmadabad region.

Med Leg Update 2010; 10: 80-1.

Forensic toxicology

Abbott R, Smeraglia J, White S, Luedtke S, Brunet L, Thomas E, Globig S, Timmerman P.

Conference report: Connecting strategies on dried blood spots.

Bioanalysis 2010; 2: 1809-16.

Adams C.

Evidentiary blood alcohol draws by emergency nurses.

J Emerg Nurs 2010; 36: 350-4.

Cabarcos P, Tabernero MJ, Alvarez I, Lopez P, Fernandez P, Bermejo AM.

Analysis of six benzodiazepines in vitreous humor by high-performance liquid chromatography-photodiode-array detection.

J Anal Toxicol 2010; 34: 539-42.

Cartiser N, Bevalot F, Fanton L, Gaillard Y, Guitton J.

State-of-the-art of bone marrow analysis in forensic toxicology: a review.

Int J Legal Med 2010; online early: doi 10.1007/s00414-010-0525-6:

Ceelen M, Dorn T, Buster M, Stomp J, Zweipfenning P, Das K.

Post-mortem toxicological urine screening in cause of death determination.

Hum Exp Toxicol 2010; online early: doi: 10.1177/0960327110390063:

Cordero R, Lee S, Paterson S.

Distribution of concentrations of cocaine and its metabolites in hair collected postmortem from cases with diverse causes/circumstances of death.

J Anal Toxicol 2010; 34: 543-8.

Forensic toxicology

De Backer B, Renardy F, Denooz R, Charlier C.

Quantification in postmortem blood and identification in urine of tramadol and its two main metabolites in two cases of lethal tramadol intoxication.

J Anal Toxicol 2010; 34: 599-604.

Garcia-Repetto R, Gimenez MP, Martinez MC, Soria ML.

A fatally mistaken fruit juice drink: an un-ordinary way of cocaine intoxication.

J Forensic Legal Med 2010; 17: 434-6.

Gerostamoulos D, Beyer J.

Drug screening in clinical or forensic toxicology: are there differences?

J Law Med Ethics 2010; 18: 25-8.

Gerostamoulos D, Beyer J, Wong K, Wort C, Drummer OH.

Carbon monoxide concentrations in the 2009 Victorian bushfire disaster victims.

Forensic Sci Int 2010; online early: doi: 10.1016/j.forsciint.2010.08.029:

Gupta P, Gouda H, Honnungar R.

Profile of poisoning cases in north Karnataka.

Med Leg Update 2010; 10: 61-3.

Kuepper U, Musshoff F, Madea B.

Applicability of succinylmonocholine as a marker for succinylcholine administration - comparative analysis of samples from a fatal succinylcholine-intoxication versus postmortem control specimens.

Forensic Sci Int 2010; online early: doi: 10.1016/j.forsciint.2010.09.007:

Meatherall R, Lee C, Phillips S.

Accidental death from hydromorphone ingestion.

J Forensic Sci 2010; online early: doi: 10.1111/j.1556-4029.2010.01618.x:

Musshoff F, Hess C, Madea B.

Disorders of glucose metabolism: post mortem analyses in forensic cases-part II.

Int J Legal Med 2010; online early: doi: 10.1007/s00414-010-0510-0:

Oertel R, Pietsch J, Arenz N, Goltz L, Kirch W.

Investigations to distribution of metoprolol in human autopsy material. Abstract from 2010 Annual Meeting of the German Clinical Pharmacologists, Würzburg, Germany, 4-6 November 2010.

Br J Clin Pharmacol 2010; 70: 25.

Palmiere C, Staub C, La Harpe R, Mangin P.

Parental substance abuse and accidental death in children.

J Forensic Sci 2010; 55: 819-21.

Genotoxicity

Albertini RJ, Carson ML, Kirman CR, Gargas ML.

1,3-Butadiene: II. Genotoxicity profile.

Crit Rev Toxicol 2010; 40: 12-73.

Inhalation toxicity

Anderson KT, Caravati EM, Crouch D, Dahl B.

Adverse effects associated with smoking *Damiana* incense product. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 618.

Li JJ, Muralikrishnan S, Ng C-T, Yung L-Y, Bay B-H.

Nanoparticle-induced pulmonary toxicity.

Exp Biol Med 2010; 235: 1025-33.

Inhalation toxicity

Melville AM, Pless-Mulloli T, Afolabi OA, Stenton SC.
COPD prevalence and its association with occupational exposures in a general population.
Eur Respir J 2010; 36: 488-93.

Kinetics

Bowens CD, Thompson JA, Thompson MT, Breitzka RL, Thompson DG, Sheeran PW.
A trial of methadone tapering schedules in pediatric intensive care unit patients exposed to prolonged sedative infusions.
Pediatr Crit Care Med 2010; online early: doi 10.1097/PCC.0b013e3181fe38f5:

Cartiser N, Bevalot F, Fanton L, Gaillard Y, Guitton J.
State-of-the-art of bone marrow analysis in forensic toxicology: a review.
Int J Legal Med 2010; online early: doi 10.1007/s00414-010-0525-6:

Collins BJ, Stout MD, Levine KE, Kissling GE, Melnick RL, Fennell TR, Walden R, Abdo K, Pritchard JB, Fernando RA, Burka LT, Hooth MJ.
Exposure to hexavalent chromium resulted in significantly higher tissue chromium burden compared with trivalent chromium following similar oral doses to male F344/N rats and female B6C3F1 mice.
Toxicol Sci 2010; 118: 368-79.

Cordero R, Lee S, Paterson S.
Distribution of concentrations of cocaine and its metabolites in hair collected postmortem from cases with diverse causes/circumstances of death.
J Anal Toxicol 2010; 34: 543-8.

Corley RA, Saghir SA, Bartels MJ, Hansen SC, Creim J, McMartin KE, Snellings WM.
Extension of a PBPK model for ethylene glycol and glycolic acid to include the competitive formation and clearance of metabolites associated with kidney toxicity in rats and humans.
Toxicol Appl Pharmacol 2010; online early: doi: 10.1016/j.taap.2010.10.011:

Genuis SJ, Birkholz D, Rodushkin I, Beesoon S.
Blood, urine, and sweat (BUS) study: monitoring and elimination of bioaccumulated toxic elements.
Arch Environ Contam Toxicol 2010; online early: doi: 10.1007/s00244-010-9611-5:

Hoyle GW, Chang W, Chen J, Schlueter CF, Rando RJ.
Deviations from Haber's Law for multiple measures of acute lung injury in chlorine-exposed mice.
Toxicol Sci 2010; 118: 696-703.

Isbister GK.
Pharmacokinetic-pharmacodynamic modeling in overdose patients - is it worth the trouble?
Clin Toxicol 2010; 48: 896-7.

Jacobson RM, Peery J, Thompson WO, Kanapka JA, Caswell M.
Serum electrolyte shifts following administration of sodium phosphates enema.
Gastroenterol Nurs 2010; 33: 191-201.

Joseph PD.
Genetic variations in human glutathione transferase enzymes: significance for pharmacology and toxicology.
Hum Genomics Proteomics 2010; 2010: 876940.

Kirman CR, Albertini RJ, Sweeney LM, Gargas ML.
1,3-Butadiene: I. Review of metabolism and the implications to human health risk assessment.
Crit Rev Toxicol 2010; 40: 1-11.

Lagas JS, Wagenaar JFP, Huitema ADR, Hillebrand MJX, Koks CHW, Gerdes VEA, Brandjes DPM, Beijnen JH.

Lethal morphine intoxication in a patient with a sickle cell crisis and renal impairment: case report and a review of the literature.

Hum Exp Toxicol 2010; online early: doi: 10.1177/0960327110388962:

Lagas JS, Wilhelm AJ, Vos RM, van den Dool E-J, van der Heide Y, Huissoon S, Beijnen JH, Brandjes DPM.

Toxicokinetics of a dipyridamole (Persantin) intoxication: case report.

Hum Exp Toxicol 2011; 30: 74-8.

Lin Z, Fisher JW, Ross MK, Filipov NM.

A physiologically based pharmacokinetic model for atrazine and its main metabolites in the adult male C57BL/6 mouse.

Toxicol Appl Pharmacol 2010; online early: doi: 10.1016/j.taap.2010.11.009:

Mahmood I.

Evaluation of a morphine maturation model for the prediction of morphine clearance in children: how accurate is the predictive performance of the model?

Br J Clin Pharmacol 2011; 71: 88-94.

Matar H, Price SC, Chilcott RP.

Temporal effects of disrobing on the skin absorption of chemical warfare agents and CW agent simulants. Highlights of the 2010 Annual Congress of the British Toxicology Society. Includes the abstracts of the British Toxicology Society, Spring 2010.

Toxicology 2010; 278: 344-5.

Meyer MR, Du P, Schuster F, Maurer HH.

Studies on the metabolism of the alpha-pyrrolidinophenone designer drug methylenedioxy-pyrovalerone (MDPV) in rat and human urine and human liver microsomes using GC-MS and LC-high-resolution MS and its detectability in urine by GC-MS.

J Mass Spectrom 2010; online early:PM:21053377:

Peter JV, Jerobin J, Nair A, Bennett A, Samuel P, Chrispal A, Abraham OC, Mathews KP, Fleming JJ, Oommen A.

Clinical profile and outcome of patients hospitalized with dimethyl and diethyl organophosphate poisoning.

Clin Toxicol 2010; 48: 916-23.

Preau JL, Wong LY, Silva MJ, Needham LL, Calafat AM.

Variability over 1 week in the urinary concentrations of metabolites of diethyl phthalate and di(2-ethylhexyl) phthalate among eight adults: an observational study.

Environ Health Perspect 2010; 118: 1748-54.

Medical errors

Kanwar M, Rosman H, Irvin C.

Pediatric and neonatal patients are particularly vulnerable to epinephrine dosing errors - in reply.

Ann Emerg Med 2010; 56: 705.

Rosenbluth G, Wilson SD.

Pediatric and neonatal patients are particularly vulnerable to epinephrine dosing errors.

Ann Emerg Med 2010; 56: 704-5.

Medical ethics

Kurtz M, Black Golde P, Berlinger N.

Ethical considerations in CYP2D6 genotype testing for codeine-prescribed breastfeeding mothers.

Clin Pharmacol Ther 2010; 88: 760-2.

Occupational toxicology

Arcury TA, Grzywacz JG, Talton JW, Chen H, Vallejos QM, Galván L, Barr DB, Quandt SA.

Repeated pesticide exposure among North Carolina migrant and seasonal farmworkers.

Am J Ind Med 2010; 53: 802-13.

Bagryantseva Y, Novotna B, Rossner P, Chvatalova I, Milcova A, Svecova V, Lnenickova Z, Solansky I, Sram RJ.

Oxidative damage to biological macromolecules in Prague bus drivers and garage men: impact of air pollution and genetic polymorphisms.

Toxicol Lett 2010; 199: 60-8.

Baldi I, Gruber A, Rondeau V, Lebaillly P, Brochard P, Fabrigoule C. Neurobehavioral effects of long-term exposure to pesticides: results from the 4-year follow-up of the PHYTONER study.

Occup Environ Med 2010; online early: doi:

10.1136/oem.2009.047811:

Belevitin AB, Grebeniuk AN, Musichuk II, Sidorov DA.

[Normative and legal aspects of medical support of the persons working with toxic chemicals relating to the chemical weapons]. In Russian.

Voen Med Zh 2010; 331: 4-8.

Boice JDJ, Marano DE, Munro HM, Chadda BK, Signorello LB, Tarone RE, Blot WJ, McLaughlin JK.

Cancer mortality among US workers employed in semiconductor wafer fabrication.

J Occup Environ Med 2010; 52: 1082-97.

Bosch de Basea M, Porta M, Alguacil J, Puigdomènech E, Gasull M, Garrido JA, López T.

Relationships between occupational history and serum concentrations of organochlorine compounds in exocrine pancreatic cancer.

Occup Environ Med 2010; online early: doi:

10.1136/oem.2009.054197:

Chang Y, Lee J-J, Seo J-H, Song H-J, Kim J-H, Bae S-J, Ahn J-H, Park S-J, Jeong KS, Kwon YJ, Kim SH, Kim Y.

Altered working memory process in the manganese-exposed brain.

Neuroimage 2010; 53: 1279-85.

Cole P, Adami HO, Trichopoulos D, Mandel JS.

Re: Mortality from lymphohematopoietic malignancies and brain cancer among embalmers exposed to formaldehyde.

J Natl Cancer Inst 2010; 102: 1518-9.

Flack SL, Ball LM, Nylander-French LA.

Occupational exposure to HDI: progress and challenges in biomarker analysis.

J Chromatogr B Analyt Technol Biomed Life Sci 2010; 878: 2635-42.

Freberg BI, Haug LS, Olsen R, Daae HL, Hersson M, Thomsen C, Thorud S, Becher G, Molander P, Ellingsen DG.

Occupational exposure to airborne perfluorinated compounds during professional ski waxing.

Environ Sci Technol 2010; 44: 7723-8.

Friesen MC, Demers PA, Spinelli JJ, Eisen EA, Lorenzi MF, Le ND.

Chronic and acute effects of coal tar pitch exposure and cardiopulmonary mortality among aluminum smelter workers.

Am J Epidemiol 2010; 172: 790-9.

Hanova M, Stetina R, Vodickova L, Vaclavikova R, Hlavac P, Smerhovsky Z, Naccarati A, Polakova V, Soucek P, Kuricova M, Manini P, Kumar R, Hemminki K, Vodicka P.

Modulation of DNA repair capacity and mRNA expression levels of XRCC1, hOGG1 and XPC genes in styrene-exposed workers.

Toxicol Appl Pharmacol 2010; 248: 194-200.

Hauptmann M, Stewart PA, Lubin JH, Beane Freeman LE, Hornung RW, Herrick RF, Hoover RN, Fraumeni JF, Blair A, Hayes RB.

Re: Mortality from lymphohematopoietic malignancies and brain cancer among embalmers exposed to formaldehyde - response. *J Natl Cancer Inst* 2010; 102: 1519-20.

Henneberger PK, Mirabelli MC, Kogevinas M, Anto JM, Plana E, Dahlman-Hoglund A, Jarvis DL, Kromhout H, Lillienberg L, Norback D, Olivieri M, Radon K, Toren K, Urrutia I, Villani S, Zock JP.

The occupational contribution to severe exacerbation of asthma.

Eur Respir J 2010; 36: 743-50.

Herrero Hernandez E, Davari A, Discalzi G.

Occupational manganese: from diagnosis to treatment. 14th Congress of the European Federation of Neurological Societies, EFNS Geneva Switzerland. 25-28 September 2010.

Eur J Neurol 2010; 17 Suppl 3: 633.

Ismail S.

Chemical dependency: an occupational hazard in the field of anaesthesia.

J Pak Med Assoc 2010; 76: 858-60.

Kagan VE, Shi J, Feng W, Shvedova AA, Fadeel B.

Fantastic voyage and opportunities of engineered nanomaterials: what are the potential risks of occupational exposures?

J Occup Environ Med 2010; 52: 943-6.

Kalahasthi R, Pradyuonna A, Narendran P, Rao RHR.

Evaluation of the relationship between pro-inflammatory cytokines and health hazards in workers involved in hazardous waste sites at Karnataka, India.

J Res Health Sci 2010; 10: 7-14.

Kane EV, Newton R.

Occupational exposure to gasoline and the risk of non-Hodgkin lymphoma: a review and meta-analysis of the literature.

Cancer Epidemiol 2010; 34: 516-22.

Kjaerheim K, Martinsen JI, Lyng E, Gunnarsdottir HK, Sparen P, Tryggvadottir L, Weiderpass E, Pukkala E.

Effects of occupation on risks of avoidable cancers in the Nordic countries.

Eur J Cancer 2010; 46: 2545-54.

Lison D, Delos M.

Pulmonary alveolar proteinosis in workers at an indium processing facility.

Am J Respir Crit Care Med 2010; 182: 578-9.

Liu F, Jian XD, Jiang J.

[Clinical analysis of occupational acute acrylonitrile poisoning]. In Chinese.

Zhonghua Lao Dong Wei Sheng Zhi Ye Bing Za Zhi 2010; 28: 470.

Lubick N.

Mercury alters immune system response in artisanal gold miners.

Environ Health Perspect 2010; 118: A243.

Ma CM, Lin LY, Chen HW, Huang LC, Li JF, Chuang KJ.

Volatile organic compounds exposure and cardiovascular effects in hair salons.

Occup Med (Oxf) 2010; 60: 624-30.

Marano DE, Boice JDJ, Munro HM, Chadda BK, Williams ME, McCarthy CM, Kivel PF, Blot WJ, McLaughlin JK.

Exposure assessment among US workers employed in semiconductor wafer fabrication.

J Occup Environ Med 2010; 52: 1075-81.

Melville AM, Pless-Mulloli T, Afolabi OA, Stenton SC.

COPD prevalence and its association with occupational exposures in a general population.

Eur Respir J 2010; 36: 488-93.

Occupational toxicology

Miedinger D, Malo J-L, Ghezzi H, L'Archeveque J, Zunzunegui M-V. Factors influencing duration of exposure with symptoms and costs of occupational asthma. *Eur Respir J* 2010; 36: 728-34.

Mohammadi S, Labbafinejad Y, Attarchi M. Combined effects of ototoxic solvents and noise on hearing in automobile plant workers in Iran. *Arh Hig Rada Toksikol* 2010; 61: 267-74.

Olsson A, Kromhout H, Agostini M, Hansen J, Lassen CF, Johansen C, Kjaerheim K, Langard S, Stucker I, Ahrens W, Behrens T, Lindbohm M-L, Heikkila P, Heederik D, Portengen L, Shaham J, Ferro G, De Vocht F, Burstyn I, Boffetta P. A case-control study of lung cancer nested in a cohort of European asphalt workers. *Environ Health Perspect* 2010; 118: 1418-24.

Paruchuri Y, Siuniak A, Johnson N, Levin E, Mitchell K, Goodrich JM, Renne EP, Basu N. Occupational and environmental mercury exposure among small-scale gold miners in the Talensi-Nabdam district of Ghana's upper east region. *Sci Total Environ* 2010; 408: 6079-85.

Quach T, Doan-Billing PA, Layefsky M, Nelson D, Nguyen KD, Okahara L, Tran AN, Von Behren J, Reynolds P. Cancer incidence in female cosmetologists and manicurists in California, 1988-2005. *Am J Epidemiol* 2010; 172: 691-9.

Salles JC, Deschamps FJ. Allergic contact dermatitis due to a PVC table cover. *Occup Med (Oxf)* 2010; 60: 662-4.

Schmeisser N, Kaerlev L, Bourdon-Raverdy N, Ganry O, Llopis-Gonzalez A, Guenel P, Hardell L, Merletti F, Zambon P, Morales-Suarez-Varela M, Olsen J, Olsson H, Vyberg M, Ahrens W. Occupational exposure to pesticides and bile tract carcinoma in men: results from a European multicenter case-control study. *Cancer Causes Control* 2010; 21: 1493-502.

Singh A. Strange cases of hydrogen sulphide poisoning: case report with review on effects of H₂S and precautions. *Med Leg Update* 2010; 10: 3-4.

Singh S, Kumar V, Thakur S, Banerjee BD, Chandna S, Rautela RS, Grover SS, Rawat DS, Pasha ST, Jain SK, Ichhpujani RL, Rai A. DNA damage and cholinesterase activity in occupational workers exposed to pesticides. *Environ Toxicol Pharmacol* 2010; online early: doi: 10.1016/j.etap.2010.11.005:

Skoczynska A, Jedrejko M, Martynowicz H, Poreba R, Affelska-Jercha A, Steinmetz-Beck A, Turczyn B, Wojakowska A, Jedrychowska I. Rzyzko sercowo-naczyniowe u narazonych na dzialanie par rteci pracownikow zakladow chemicznych. [The cardiovascular risk in chemical factory workers exposed to mercury vapor]. In Polish with English abstract. *Med Pr* 2010; 61: 381-91.

Sottani C, Porro B, Comelli M, Imbriani M, Minoia C. An analysis to study trends in occupational exposure to antineoplastic drugs among health care workers. *J Chromatogr B Analyt Technol Biomed Life Sci* 2010; 878: 2593-605.

Verger P, Pardon C, Dumesnil H, Charrier D, De Labrusse B, Lehucher-Michel MP, Viau A, Arnaud S, Souville M. Occupational physicians' attitudes and practices in relation to occupational cancer prevention: a qualitative study in south-eastern France. *Int J Occup Environ Health* 2010; 16: 320-9.

Villeneuve S, Cyr D, Lynge E, Orsi L, Sabroe S, Merletti F, Gorini G, Morales-Suarez-Varela M, Ahrens W, Baumgardt-Elms C, Kaerlev L, Eriksson M, Hardell L, Févotte J, Guénel P. Occupation and occupational exposure to endocrine disrupting chemicals in male breast cancer: a case control study in Europe. *Occup Environ Med* 2010; 67: 837-44.

Wang H-J, Du X-M, Wang M, Wang T-C, Ou-Yang H, Wang B, Zhu M-T, Wang Y, Jia G, Feng W-Y. Using ion-pair reversed-phase HPLC ICP-MS to simultaneously determine Cr(III) and Cr(VI) in urine of chromate workers. *Talanta* 2010; 81: 1856-60.

Wu C, Liu P, Zheng L, Chen J, Zhou Z. GC-FPD measurement of urinary dialkylphosphate metabolites of organophosphorus pesticides as pentafluorobenzyl derivatives in occupationally exposed workers and in a general population in Shanghai (China). *J Chromatogr B Analyt Technol Biomed Life Sci* 2010; 878: 2575-81.

Yasmin S, Afroz B, Hyat B, D'Souza D. Occupational health hazards in women beedi rollers in Bihar, India. *Bull Environ Contam Toxicol* 2010; 85: 87-91.

Paediatric toxicology

Anon. Toxic ingestion. *J Hosp Med* 2010; 5: 39-40.

Aguiar A, Eubig PA, Schantz SL. Attention deficit/hyperactivity disorder: a focused overview for children's environmental health researchers. *Environ Health Perspect* 2010; 118: 1646-53.

Aleguas A, Liu K-T, Quang LS. Pediatric poisoning from *Baptisia australis*. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. *Clin Toxicol* 2010; 48: 627.

Alkahtani S, Sammons H, Choonara I. Epidemics of acute renal failure in children (diethylene glycol toxicity). *Arch Dis Child* 2010; online early: doi: 0.1136/adc.2010.183392:

Balme KH, Roberts JC, Glasstone M, Curling L, Rother HA, London L, Zar H, Mann MD. Pesticide poisonings at a tertiary children's hospital in South Africa: an increasing problem. *Clin Toxicol* 2010; 48: 928-34.

Barrett JR. From roadways to wheeze: child asthma associated with traffic exposures at home and at school. *Environ Health Perspect* 2010; 118: A305.

Betts KS. Do metals meddle with puberty in girls? Lead, cadmium, and altered hormone levels. *Environ Health Perspect* 2010; online early: doi: 10.1289/ehp.118-a542b:

Paediatric toxicology

Bigard AX.

[Risks of energy drinks in youths.]. In French with English abstract. Arch Pediatr 2010; 17: 1625-31.

Bowens CD, Thompson JA, Thompson MT, Breitzka RL, Thompson DG, Sheeran PW.

A trial of methadone tapering schedules in pediatric intensive care unit patients exposed to prolonged sedative infusions. Pediatr Crit Care Med 2010; online early: doi 10.1097/PCC.0b013e3181fe38f5:

Carstairs SD, Luk JY, Tomaszewski CA, Cantrell FL.

Ingestion of *Lantana camara* is not associated with significant effects in children. Pediatrics 2010; online early: doi: 10.1542/peds.2010-1669:

Ceschi A, Hofer KE, Rauber-Lüthy C, Kupferschmidt H.

Paracetamol orodispersible tablets: a risk for severe poisoning in children? Eur J Clin Pharmacol 2010; online early: doi: 10.1007/s00228-010-0943-x:

Chen XH, Dai BT, Yu J, Xu YH, Xian Y, Su YC, Xiao JW, Wen XH, Guan XM.

[Analysis of thirteen cases with secondary coagulation disorder caused by raticide exposure]. In Chinese with English abstract. Zhonghua Er Ke Za Zhi 2010; 48: 629-32.

Deutsch CM, Bronstein AC, Banerji .S., Hesse CL, Spyker DA.

Pediatric chewing tobacco & snuff exposures: 2000-2009. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. Clin Toxicol 2010; 48: 608-9.

Eisenberg KW, van Wijngaarden E, Fisher SG, Korfmacher KS, Campbell JR, Fernandez ID, Cochran J, Geltman PL.

Blood lead levels of refugee children resettled in Massachusetts, 2000 to 2007. Am J Public Health 2010; online early: doi: 10.2105/AJPH.2009.184408:

Eubig PA, Aguiar A, Schantz SL.

Lead and PCBs as risk factors for attention deficit/hyperactivity disorder. Environ Health Perspect 2010; 118: 1654-67.

French LK, Hendrickson RG, Horowitz BZ.

Pink disease: fading but hopefully not forgotten. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. Clin Toxicol 2010; 48: 625.

Hon KL, Leung AK.

Childhood accidents: injuries and poisoning. Adv Pediatr 2010; 57: 33-62.

Hwang B-F, Lee YL.

Air pollution and prevalence of bronchitic symptoms among children in Taiwan. Chest 2010; 138: 956-64.

Jayashree M, Singhi S.

Changing trends and predictors of outcome in patients with acute poisoning admitted to the intensive care. J Trop Pediatr 2010; online early: doi: 10.1093/tropej/fmq099:

Kanwar M, Rosman H, Irvin C.

Pediatric and neonatal patients are particularly vulnerable to epinephrine dosing errors - in reply. Ann Emerg Med 2010; 56: 705.

Kanny D, Liu Y, Brewer RD, Garvin W, Balluz L.

Vital signs: binge drinking among high school students and adults - United States, 2009. MMWR Morb Mortal Wkly Rep 2010; 59: 1274-9.

Kim Y, Cho S-C, Kim B-N, Hong Y-C, Shin M-S, Yoo H-J, Kim J-W, Bhang S-Y.

Association between blood lead levels (<5 mug/dL) and inattention-hyperactivity and neurocognitive profiles in school-aged Korean children. Sci Total Environ 2010; 408: 5737-43.

Koyashiki GA, Paoliello MM, Tchounwou PB.

Lead levels in human milk and children's health risk: a systematic review. Rev Environ Health 2010; 25: 243-53.

Lavonas EJ, Reynolds KM, Dart RC.

Therapeutic acetaminophen is not associated with liver injury in children: a systematic review. Pediatrics 2010; online early: doi: 10.1542/peds.2009-3352:

Lin EP, Aronson LA.

Successful resuscitation of bupivacaine-induced cardiotoxicity in a neonate. Paediatr Anaesth 2010; 20: 955-7.

Mahmood I.

Evaluation of a morphine maturation model for the prediction of morphine clearance in children: how accurate is the predictive performance of the model? Br J Clin Pharmacol 2011; 71: 88-94.

Mann JK, Balmes JR, Bruckner TA, Mortimer KM, Margolis HG, Pratt B, Hammond SK, Lurmann FW, Tager IB.

Short-term effects of air pollution on wheeze in asthmatic children in Fresno, California. Environ Health Perspect 2010; 118: 1497-502.

Marks AR, Harley K, Bradman A, Kogut K, Barr DB, Johnson C, Calderon N, Eskenazi B.

Organophosphate pesticide exposure and attention in young Mexican-American children: the CHAMACOS study. Environ Health Perspect 2010; 118: 1768-74.

Martin TC, Rocque MA.

Accidental and non-accidental ingestion of methadone and buprenorphine in childhood: a single center experience, 1999-2009. Curr Drug Saf 2010; online early: PM:21047302:

Meier KH, Mamantov T, Armenian P, Gerona RR, Rutherford Y.

Pediatric methadone overdose with seizure. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. Clin Toxicol 2010; 48: 654-5.

Palmiere C, Staub C, La Harpe R, Mangin P.

Parental substance abuse and accidental death in children. J Forensic Sci 2010; 55: 819-21.

Proue M, Jones-Webb R, Oberg C.

Blood lead screening among newly arrived refugees in Minnesota. Minn Med 2010; 93: 42-6.

Rosenbluth G, Wilson SD.

Pediatric and neonatal patients are particularly vulnerable to epinephrine dosing errors. Ann Emerg Med 2010; 56: 704-5.

Rowden A, Fasano C, O'Malley G.

Pediatric ziprasidone ingestions. J Med Toxicol 2010; 6: 467.

Paediatric toxicology

Sadovnikova IV, Khaletskaya OV, Shilenok IG, Voevodkina IF, Rozhdenkin EA.

[Acute toxic hepatitis at mushroom poisoning of the young child]. In Russian.

Eksp Klin Gastroenterol 2010; 83-6.

Siddique S, Banerjee M, Ray MR, Lahiri T.

Air pollution and its impact on lung function of children in Delhi, the capital city of India.

Water Air Soil Pollut 2010; 212: 89-100.

Stoicescu RM.

Nitrate-contaminated groundwater. an important infant health problem in rural Constanta.

Arch Balk Med Union 2010; 45: 25-8.

Wang Z, Chai L, Yang Z, Wang Y, Wang H.

Identifying sources and assessing potential risk of heavy metals in soils from direct exposure to children in a mine-impacted city, Changsha, China.

J Environ Qual 2010; 39: 1616-23.

Poisons information and poison information centres

Bolon B, Bradley A, Garman R, Krinke G.

Useful toxicologic neuropathology references for pathologists and toxicologists.

Toxicol Pathol 2010; online early: doi: 10.1177/0192623310385142:

De Vries I, Meulenbelt J.

How to prepare for unusual toxic outbreaks. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 661.

Ellington L, Poynton M, Bennett H, Latimer S, Reblin M, Crouch BI, Caravati EM.

SPI perceived case severity impacts poison center communication. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 641.

Forrester MB, Aragon T, Sample-Ruiz M, Borys DJ.

Poison center reporting of H1N1 vaccine exposures to a state department of health. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 640.

Forrester MB, Villanacci JF, Valle N.

Use of interactive voice response technology by poison centers during the H1N1 outbreak.

Prehosp Disaster Med 2010; 25: 415-8.

Kalin L, Noble T.

A PCC phone system: who is abandoning who? Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 639.

Kostic MA, Oswald .J., Gummin DD, Kopp .B., Hargarten SW.

Poison center consultation decreases hospital length of stay and inpatient charges. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 605.

Latimer S, Ellington L, Poynton M, Reblin M, Bennett H, Crouch BI, Caravati EM.

Communication patterns at a poison control center during surge vs. non-surge periods. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 641.

McGoodwin L, Banner W, Dang K.

Trends in healthcare utilization of PCC services. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 640.

Pillay VV.

The utility of poison control centres in diagnosing and managing cases of poisoning and overdose.

J Indian Med Assoc 2010; 108: 162, 164, 166.

Prosser JM, Smith SW, Rhim ES, Olsen D, Nelson LS, Hoffman RS.

Inaccuracy of ECG interpretations reported to the poison center.

Ann Emerg Med 2010; online early: doi: 10.1016/j.annemergmed.2010.09.019:

Ragone SP, Geller RJ, Lopez GP.

A poison center's development of a media campaign to address trends of herbal incense abuse. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 649.

Schaper A, Desel H, Wyke S, Duart-Davidson R, Bronstein AC.

Development of a poison center based European Union alerting system for deliberate chemical release detection. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 637.

Spyker DA, Bronstein AC.

A decade of national poison data system (NPDS) call data - baseline statistical models. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 664-5.

Spyker DA, Bronstein AC, Marcus SM.

Health care facility use of poison centers: 2000-2009. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 643.

Wexler P, Gilbert SG, Thorp N, Faustman EM, Breskin DD.

The world library of toxicology, chemical safety, and environmental health (WLT).

Hum Exp Toxicol 2010; online early: doi: 10.1177/0960327110389500:

Risk assessment

Antignac E, Nohynek GJ, Re T, Clouzeau J, Toutain H.

Safety of botanical ingredients in personal care products/cosmetics.

Food Chem Toxicol 2010; online early: doi: 10.1016/j.fct.2010.11.022:

Bigard AX.

[Risks of energy drinks in youths.]. In French with English abstract.

Arch Pediatr 2010; 17: 1625-31.

Canady RA.

The uncertainty of nanotoxicology: report of a society for risk analysis workshop.

Risk Anal 2010; 30: 1663-70.

Risk assessment

Card JW, Jonaitis TS, Tafazoli S, Magnuson BA.
An appraisal of the published literature on the safety and toxicity of food-related nanomaterials.
Crit Rev Toxicol 2010; online early: doi: 10.3109/10408444.2010.524636:

Kimber I, Basketter DA, Gerberick GF, Ryan CA, Dearman RJ.
Chemical allergy: translating biology into hazard characterization.
Toxicol Sci 2010; online early: doi: 10.1093/toxsci/kfq346:

Waring WS, Graham A, Gray J, Wilson AD, Howell C, Bateman DN.
Evaluation of a QT nomogram for risk assessment after antidepressant overdose.
Br J Clin Pharmacol 2010; 70: 881-5.

Suicide

Aydin B, Kartal M.
Turkiye'de Karadeniz Bolgesi'ndeki bir ilde (Samsun) 1999-2003 yıllarındaki intihar olguları. [Suicide cases in a province (Samsun) of Black Sea region of Turkey between 1999-2003 years] In Turkish with English abstract.
Turk Klinikleri J Med Sci 2010; 30: 1067-72.

Chowdhury AN, Banerjee S, Brahma A, Das S, Sarker P, Biswas MK, Sanyal D, Hazra A.
A prospective study of suicidal behaviour in Sundarban delta, West Bengal, India.
Natl Med J India 2010; 23: 201-5.

Crocq MA, Naber D, Lader MH, Thibaut F, Drici M, Everitt B, Hall GC, Le Jeune C, Mittoux A, Peuskens J, Priori S, Sturkenboom M, Thomas SH, Tanghoj P, Toumi M, Mann R, Moore ND.
Suicide attempts in a prospective cohort of patients with schizophrenia treated with sertindole or risperidone.
Eur Neuropsychopharmacol 2010; 20: 829-38.

Eddleston M, Bateman DN.
Major reductions in global suicide numbers can be made rapidly through pesticide regulation without the need for psychosocial interventions.
Soc Sci Med 2010; online early: doi: 10.1016/j.socscimed.2010.10.013:

Farzaneh E, Mehrpour O, Alfred S, Moghaddam HH, Behnoush B, Seghatoleslam T.
Self-poisoning suicide attempts among students in Tehran, Iran.
Psychiatr Danub 2010; 22: 34-8.

Mukamal KJ, Miller M.
Invited commentary: body mass index and suicide - untangling an unlikely association.
Am J Epidemiol 2010; 172: 900-4.

Rastogi P, Kochar S.
A study of suicide in Jaipur, Rajasthan (2002-2007).
Med Leg Update 2010; 10: 99-101.

Rockett IR, Hobbs GR, De Leo D, Stack S, Frost JL, Ducatman AM, Kapusta ND, Walker RL.
Suicide and unintentional poisoning mortality trends in the United States, 1987-2006: Two unrelated phenomena?
BMC Public Health 2010; 10: 705.

Yagmur F, Cavusoglu M, Karanfil R, Din H.
Determination of sociodemographic characteristics and etiological factors of suicide attempters.
Pak J Med Sci 2010; 26: 678-83.

MANAGEMENT

General

Anon.
Toxic ingestion.
J Hosp Med 2010; 5: 39-40.

Adhi NS, Robert JH.
Toxin-related seizures.
Emerg Med Clin North Am 2011; 29: 125-39.

Bird SB, Dawson A, Ollis D.
Enzymes and bioscavengers for prophylaxis and treatment of organophosphate poisoning.
Front Biosci 2010; 2: 209-20.

Borlina LP, Silva ELC, Ghislandi C, Timi JRR.
Conhecimento sobre anticoagulantes orais e seu manejo por medicos de pronto atendimento. [Emergency-room doctors' knowledge about oral anticoagulants and its management]. In Portuguese with English abstract.
J Vasc Bras 2010; 9: 24-8.

Caballero Vallés PJ, Dorado Pombo S.
Realidad de las intoxicaciones agudas: Sanidad progresa adecuadamente, Política Social necesita mejorar. [Reality of acute poisonings: health department progresses adequately, social policy department needs to improve]. In Spanish.
Med Clin (Barc) 2010; online early: doi: 10.1016/j.medcli.2010.07.008:

Farren CK, McElroy S.
Predictive factors for relapse after an integrated inpatient treatment programme for unipolar depressed and bipolar alcoholics.
Alcohol Alcohol 2010; 45: 527-33.

Holstege CP, Forrester JD, Borek HA, Lawrence DT.
A case of cyanide poisoning and the use of arterial blood gas analysis to direct therapy.
Hosp Pract 2010; 38: 69-74.

Husain K, Ansari RA, Ferder L.
Pharmacological agents in the prophylaxis/treatment of organophosphorus pesticide intoxication.
Indian J Exp Biol 2010; 48: 642-50.

Ireland G, Brown SGA, Buckley NA, Stormer J, Currie BJ, White J, Spain D, Isbister GK.
Changes in serial laboratory test results in snakebite patients: when can we safely exclude envenoming?
Med J Aust 2010; 193: 285-90.

Jezequel J, Gauthier N, Alluin A, Desmaretz J-L, Guenault N, Desaintfusien E, Canevet C, Bonenfant C.
Intoxication grave à l'acide valproïque: place du traitement antidotique et de l'épuration extracorporelle. [Severe valproic acid poisoning: place of antidotal treatment and extracorporeal removal techniques]. In French with English abstract.
Reanimation 2010; 19: 587-92.

Jones DR, Larner J, Price SC, Chilcott RP.
Optimisation of mass casualty decontamination procedures in vitro. Highlights of the 2010 Annual Congress of the British Toxicology Society. Includes the abstracts of the British Toxicology Society, Spring 2010.
Toxicology 2010; 278: 363-4.

Kostic MA, Oswald J., Gummin DD, Kopp J.B., Hargarten SW.
Poison center consultation decreases hospital length of stay and inpatient charges. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 605.

Management, general

Larner J, Jones DR, Price SC, Chilcott RP.

Modified static diffusion cells for decontamination modelling. Highlights of the 2010 Annual Congress of the British Toxicology Society. Includes the abstracts of the British Toxicology Society, Spring 2010. *Toxicology* 2010; 278: 351-2.

Mandava N, Chang RS, Wang JH, Bertocchi M, Yrad J, Allamaneni S, Aboian E, Lall MH, Mariano R, Richards N. Establishment of a definitive protocol for the diagnosis and management of body packers (drug mules). *Emerg Med J* 2010; online early: doi: 10.1136/emj.2008.059717:

Matar H, Price SC, Chilcott RP.

Temporal effects of disrobing on the skin absorption of chemical warfare agents and CW agent simulants. Highlights of the 2010 Annual Congress of the British Toxicology Society. Includes the abstracts of the British Toxicology Society, Spring 2010. *Toxicology* 2010; 278: 344-5.

Matar H, Price SC, Chilcott RP.

Protective effects of clothing on the in vitro absorption of chemical warfare agents. Highlights of the 2010 Annual Congress of the British Toxicology Society. Includes the abstracts of the British Toxicology Society, Spring 2010. *Toxicology* 2010; 278: 344.

McMicken D, Liss JL.

Alcohol-related seizures. *Emerg Med Clin North Am* 2011; 29: 117-24.

Neighbor ML, Dance TR, Hawk M, Kohn MA.

Heightened pain perception in illicit substance-using patients in the ED: implications for management. *Am J Emerg Med* 2011; 29: 50-6.

Nordt SP, Tomaszewski C, Campbell C, Medak A, Clark R.

Ultrasound visualization of ingested tablets in human volunteers. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. *Clin Toxicol* 2010; 48: 635.

Patanwala AE, Keim SM, Erstad BL.

Intravenous opioids for severe acute pain in the emergency department. *Ann Pharmacother* 2010; 44: 1800-9.

Perryman K, Rose AK, Winfield H, Jenner J, Oyefeso A, Phillips TS, Deluca P, Heriot-Maitland C, Galea S, Cheeta S, Saunders V, Drummond C.

The perceived challenges facing alcohol treatment services in England: a qualitative study of service providers. *J Subst Use* 2010; online early: doi: 10.3109/14659891003706399:

Pickham D, Helfenbein E, Shinn JA, Chan G, Funk M, Drew BJ.

How many patients need QT interval monitoring in critical care units? Preliminary report of the QT in practice study. *J Electrocardiol* 2010; 43: 572-6.

Pillay VV.

The utility of poison control centres in diagnosing and managing cases of poisoning and overdose. *J Indian Med Assoc* 2010; 108: 162, 164, 166.

Prosser JM, Smith SW, Rhim ES, Olsen D, Nelson LS, Hoffman RS.

Inaccuracy of ECG interpretations reported to the poison center.

Ann Emerg Med 2010; online early: doi: 10.1016/j.annemergmed.2010.09.019:

Rose AK, Winfield H, Jenner JH, Oyefeso A, Phillips TS, Deluca P, Perryman KA, Heriot-Maitland C, Galea S, Cheeta S, Saunders V, Drummond C.

National survey of alcohol treatment agencies in England: characteristics of treatment agencies.

J Subst Use 2010; online early: doi: 10.3109/14659891003721125:

Saeui C, Charlton N, Brady WJ.

Biochemical issues in emergency medicine: diagnostic and therapeutic considerations of selected toxic presentations.

Am J Emerg Med 2010; online early: doi: 10.1016/j.ajem.2010.09.032:

Salmon AM, van Beek I, Amin J, Kaldor J, Maher L.

The impact of a supervised injecting facility on ambulance call-outs in Sydney, Australia.

Addiction 2010; 105: 676-83.

Spyker DA, Bronstein AC, Marcus SM.

Health care facility use of poison centers: 2000-2009. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 643.

Verster JC, Penning R.

Treatment and prevention of alcohol hangover.

Curr Drug Abuse Rev 2010; 3: 103-9.

Waring WS, Graham A, Gray J, Wilson AD, Howell C, Bateman DN.

Evaluation of a QT nomogram for risk assessment after antidepressant overdose.

Br J Clin Pharmacol 2010; 70: 881-5.

Antidotes

Acetylcysteine

Baniasadi S, Eftekhari P, Tabarsi P, Fahimi F, Raoufy MR, Masjedi MR, Velayati AA.

Protective effect of N-acetylcysteine on anti-tuberculosis drug-induced hepatotoxicity.

Eur J Gastroenterol Hepatol 2010; 22: 1235-8.

Bodmer M, Monte AA.

"Massive acetaminophen ingestion with early metabolic acidosis and coma: treatment with IV NAC and continuous venovenous hemodiafiltration" by Wiegand et al., *Clin Toxicol* 48:156-159.

Clin Toxicol 2010; 48: 961.

Wiegand TJ, Margaretten M, Olson KR.

Author's response to "Massive acetaminophen ingestion with early metabolic acidosis and coma: treatment with IV NAC and continuous venovenous hemodiafiltration".

Clin Toxicol 2010; 48: 961-2.

Antivenom

Casewell NR, Cook DA, Wagstaff SC, Nasidi A, Durfa N, Wuster W, Harrison RA.

Pre-clinical assays predict pan-African *Echis viper* efficacy for a species-specific antivenom.

PLoS Negl Trop Dis 2010; 4: e851.

Deshpande SB.

Antiscorpion venom scores over other strategies in the treatment of scorpion envenomation.

J Postgrad Med 2010; 56: 253-4.

Huang CY, Hung DZ, Chen WK.

Antivenin-related serum sickness.

J Chin Clin Med 2010; 73: 540-2.

Antivenom

Natu VS.

Efficacy of anti-scorpion venom serum over prazosin in the management of severe scorpion envenomation.

J Postgrad Med 2010; 56: 275-80.

Fab fragments

Schaeffer TH, Mlynarchek SL, Stanford CF, Delgado J, Holstege CP, Olsen D, Bogdan GM.

Treatment of chronically digoxin-poisoned patients with a newer digoxin immune Fab - a retrospective study.

J Am Osteopath Assoc 2010; 110: 587-92.

Hydroxocobalamin

Fortin J-L, Waroux S, Giocanti JP, Capellier G, Ruttimann M, Kowalski J-J.

Hydroxocobalamin for poisoning caused by ingestion of potassium cyanide: a case study.

J Emerg Med 2010; 39: 320-4.

Hyperbaric oxygen

Gunalp U, Mutluoglu M, Senol MG, Sen H, Sezai O, Senol Y, Guner D.

Karbonmonoksit zehirlenmesine bagli gelisen koma tablosunun tedavisi: Gec donemde uygulanen hiperbarik oksijenin rolu var midir? [Successful reversal of carbon monoxide induced coma: does delayed hyperbaric oxygen have a role?] In Turkish with English abstract.

Anatolian J Clin Invest 2010; 4: 121-4.

Lee SH, Ryu S, Lee JW, Kim SW, Yoo IS, You Y.

Hyperthermia occurred after hyperbaric oxygen therapy for carbon monoxide poisoning.

Am J Emerg Med 2010; online early: doi:

10.1016/j.ajem.2010.10.001:

Naloxone

Bazazi AR, Zaller ND, Fu JJ, Rich JD.

Preventing opiate overdose deaths: examining objections to take-home naloxone.

J Health Care Poor Underserved 2010; 21: 1108-13.

Lotsch J, Tegeder I.

Opioid-mediated drug actions cannot be concluded from naloxone induced reversal of anti-nociceptive effects in behavioural tests only.

Eur J Pain 2010; 14: 981-4.

Mayet S, Manning V, Williams A, Loaring J, Strang J.

Impact of training for healthcare professionals on how to manage an opioid overdose with naloxone: effective, but dissemination is challenging.

Int J Drug Policy 2010; online early: doi:

10.1016/j.drugpo.2010.09.008:

Saidi H, Ghadiri M, Abbasi S, Ahmadi SF.

Efficacy and safety of naloxone in the management of post-seizure complaints of tramadol intoxicated patients: a self-controlled study.

Emerg Med J 2010; 27: 928-30.

Oximes

Bajgar J, Hajek P, Zdarova JK, Kassa J, Paseka A, Slizova D, Krs O, Kuca K, Jun D, Fusek J, Capek L.

A comparison of tabun-inhibited rat brain acetylcholinesterase reactivation by three oximes (HI-6, obidoxime, and K048) in vivo detected by biochemical and histochemical techniques.

J Enzyme Inhib Med Chem 2010; 25: 790-7.

Jun D, Musilova L, Pohanka M, Jung Y-S, Bostik P, Kuca K.

Reactivation of human acetylcholinesterase and butyrylcholinesterase inhibited by leptophos-oxon with different oxime reactivators in vitro.

Int J Mol Sci 2010; 11: 2856-63.

Pralidoxime

Shih TM, Guarisco JA, Myers TM, Kan RK, McDonough JH.

The oxime pro-2-PAM provides minimal protection against the CNS effects of the nerve agents sarin, cyclosarin, and VX in guinea pigs.

Toxicol Mech Methods 2010; online early: doi:

10.3109/15376516.2010.529190:

Silibinin

Zilker TR, Eyer F, Wiese C, Kehe K, Thiermann H.

Influence of different antidotal treatments on amatoxin-induced hepatotoxicity in hepG2 cells. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 619.

Buprenorphine

Awgu E, Magura S, Rosenblum A.

Heroin-dependent inmates' experiences with buprenorphine or methadone maintenance.

J Psychoactive Drugs 2010; 42: 339-46.

Tanner GR, Bordon N, Conroy S, Best D.

Comparing methadone and suboxone in applied treatment settings: the experiences of maintenance patients in Lanarkshire.

J Subst Use 2010; online early: doi:

10.3109/14659891.2010.526480:

Tellioglu T.

Buprenorphine: a new alternative in the treatment of opioid addiction.

Klin Psikofarmakol Bul 2010; 20: 261-5.

Buprenorphine/naloxone

Tanner GR, Bordon N, Conroy S, Best D.

Comparing methadone and suboxone in applied treatment settings: the experiences of maintenance patients in Lanarkshire.

J Subst Use 2010; online early: doi:

10.3109/14659891.2010.526480:

Clomethiazole

De Millas W., Ganzer F, Kuhn S, Haasen C.

Oxazepam versus clomethiazole in alcohol withdrawal treatment.

Eur Addict Res 2010; 16: 179-84.

Dantrolene

Grunau BE, Wiens MO, Greidanus M.

Dantrolene for the treatment of MDMA toxicity.

CJEM 2010; 12: 457-9.

Detoxification under anaesthesia

Safari F, Mottaghi K, Malek S, Salimi A.

Effect of ultra-rapid opiate detoxification on withdrawal syndrome.

J Addict Dis 2010; 29: 449-54.

Haemodiafiltration

Bodmer M, Monte AA.

"Massive acetaminophen ingestion with early metabolic acidosis and coma: treatment with IV NAC and continuous venovenous hemodiafiltration" by Wiegand et al., Clin Toxicol 48:156-159.

Clin Toxicol 2010; 48: 961.

Haemodiafiltration

Wiegand TJ, Margaretten M, Olson KR.
Author's response to "Massive acetaminophen ingestion with early metabolic acidosis and coma: treatment with IV NAC and continuous venovenous hemodiafiltration".
Clin Toxicol 2010; 48: 961-2.

Haemoperfusion

Saulnier F, Onimus T, Lubret R, Ledoux S, Durocher A.
Hémo-perfusion en toxicologie. [Hemoperfusion in poisoning]. In French with English abstract.
Reanimation 2010; 19: 568-80.

Hyperinsulinaemia

Montiel V, Gougnard T, Hantson P.
Diltiazem poisoning treated with hyperinsulinemic euglycemia therapy and intravenous lipid emulsion.
Eur J Emerg Med 2010; online early: doi: 10.1097/MEJ.0b013e32834130ab:

L-carnitine

Aaronson PM, Sollee DR, Kunisaki TA, Schauben JL.
Utilization of intravenous levocarnitine: retrospective evaluation and comparison in acute valproic acid toxicity. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 646.

Lipid emulsion therapy

Benhamou D, Mazoit JX, Zetlaoui P.
[Early administration of lipid rescue after initial signs of local anesthetic-induced systemic toxicity]. In French.
Ann Fr Anesth Réanim 2010; online early: doi: 10.1016/j.annfar.2010.08.003:

Bern S, Kuo AI, Weinberg G.
Lipid resuscitation: a life-saving antidote for local anesthetic toxicity.
Curr Pharm Biotechnol 2010; online early: PM:21050161:

Bertrand N, Bouvet C, Moreau P, Leroux J-C.
Transmembrane pH-gradient liposomes to treat cardiovascular drug intoxication.
ACS Nano 2010; online early: doi: 10.1021/nn101924a:

Dagtekin O, Marcus H, Muller C, Bottiger BW, Spohr F.
Lipid therapy for serotonin syndrome after intoxication with venlafaxine, lamotrigine and diazepam.
Minerva Anestesiol 2010; online early: PM:21068706:

Lin EP, Aronson LA.
Successful resuscitation of bupivacaine-induced cardiotoxicity in a neonate.
Paediatr Anaesth 2010; 20: 955-7.

Manavi MV.
Lipid infusion as a treatment for local anesthetic toxicity: a literature review.
AANA J 2010; 78: 69-78.

Montiel V, Gougnard T, Hantson P.
Diltiazem poisoning treated with hyperinsulinemic euglycemia therapy and intravenous lipid emulsion.
Eur J Emerg Med 2010; online early: doi: 10.1097/MEJ.0b013e32834130ab:

Ter Horst MT, Tjiang GCH, Luitwieler RL, Van Velzen C, Stolker RJ, de Quelerij M.
Tegengif voor intoxicatie door lokale anestetica: Nieuwe toepassing van vetemulsie voor intraveneuze toediening. [Antidote for intoxication due to local anesthetics: new application of fat emulsion for intravenous administration]. In Dutch.
Ned Tijdschr Geneeskd 2010; 154: 1822-5.

MARS (molecular adsorbent recirculating system)

De Geus H, Mathot R, Van Der Hoven B, Tjoa M, Bakker J.
Enhanced paracetamol clearance with molecular adsorbents recirculating system (MARS) in severe auto-intoxication.
Blood Purif 2010; 30: 118-9.

Methadone

Awgu E, Magura S, Rosenblum A.
Heroin-dependent inmates' experiences with buprenorphine or methadone maintenance.
J Psychoactive Drugs 2010; 42: 339-46.

Coviello DM, Zanis DA, Wesnoski SA, Lynch KG, Drapkin M.
Characteristics and 9-month outcomes of discharged methadone maintenance clients.
J Subst Abuse Treat 2010; online early: doi: 10.1016/j.jsat.2010.09.007:

Rehm J.
Supervised injectable heroin better at reducing street heroin use than supervised injectable methadone or optimised oral methadone.
Evid Based Ment Health 2010; 13: 126.

Paraoxonase1

Duysen EG, Parikh K, Aleti V, Manne V, Lockridge O, Chilukuri N.
Adenovirus-mediated human paraoxonase1 gene transfer to provide protection against the toxicity of the organophosphorus pesticide toxicant diazoxon.
Gene Ther 2010; online early: doi: 10.1038/gt.2010.136:

Penicillin

Zilker TR, Eyer F, Wiese C, Kehe K, Thiermann H.
Influence of different antidotal treatments on amatoxin-induced hepatotoxicity in hepG2 cells. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 619.

Plasma exchange

Hiroshima Y, Nakae H, Gommori K.
Amanita ibotengutake intoxication treated with plasma exchange.
Ther Apheresis Dial 2010; 14: 483-4.

Prazosin

Natu VS.
Efficacy of anti-scorpion venom serum over prazosin in the management of severe scorpion envenomation.
J Postgrad Med 2010; 56: 275-80.

Thiamine

Imtiaz S, Muzaffar N.
Ifosfamide neurotoxicity in a young female with a remarkable response to thiamine.
J Pak Med Assoc 2010; 76: 867-9.

DRUGS

General

Abbott R, Smeraglia J, White S, Luedtke S, Brunet L, Thomas E, Globig S, Timmerman P.
Conference report: Connecting strategies on dried blood spots.
Bioanalysis 2010; 2: 1809-16.

Adhi NS, Robert JH.
Toxin-related seizures.
Emerg Med Clin North Am 2011; 29: 125-39.

Drugs, general

Ceelen M, Dorn T, Buster M, Stomp J, Zweipfenning P, Das K. Post-mortem toxicological urine screening in cause of death determination.

Hum Exp Toxicol 2010; online early: doi: 10.1177/0960327110390063:

Chousterman B, Payen D, Megarbane B, Laprevote O. Elements de chromatographie et de spectrometrie de masse a l'usage des cliniciens. [Elements of chromatography and mass spectrometry for the clinician use]. In French with English abstract. Reanimation 2010; 19: 593-6.

Gerostamoulos D, Beyer J. Drug screening in clinical or forensic toxicology: are there differences? J Law Med Ethics 2010; 18: 25-8.

Isbister GK. Pharmacokinetic-pharmacodynamic modeling in overdose patients - is it worth the trouble? Clin Toxicol 2010; 48: 896-7.

Maarsingh OR, Dros J, Schellevis FG, van Weert HC, van der Windt DA, ter Riet G, van der Horst HE. Causes of persistent dizziness in elderly patients in primary care. Ann Fam Med 2010; 8: 196-205.

Acetaminophen (paracetamol)

Bodmer M, Monte AA. "Massive acetaminophen ingestion with early metabolic acidosis and coma: treatment with IV NAC and continuous venovenous hemodiafiltration" by Wiegand et al., Clin Toxicol 48:156-159. Clin Toxicol 2010; 48: 961.

Ceschi A, Hofer KE, Rauber-Lüthy C, Kupferschmidt H. Paracetamol orodispersible tablets: a risk for severe poisoning in children? Eur J Clin Pharmacol 2010; online early: doi: 10.1007/s00228-010-0943-x:

Claridge LC, Eksteen B, Smith A, Shah T, Holt AP. Acute liver failure after administration of paracetamol at the maximum recommended daily dose in adults. Br Med J 2010; 341: 1269-70.

De Geus H, Mathot R, Van Der Hoven B, Tjoa M, Bakker J. Enhanced paracetamol clearance with molecular adsorbents recirculating system (MARS) in severe autointoxication. Blood Purif 2010; 30: 118-9.

Larocque A, Bailey B. Evaluation du risque d'hepatotoxicité après ingestion de paracétamol: où en sommes-nous en 2010 ? [Evaluation of the risk of hepatotoxicity after acetaminophen ingestion: where are we in 2010?] In French with English abstract. Reanimation 2010; 19: 545-51.

Lavonas EJ, Reynolds KM, Dart RC. Therapeutic acetaminophen is not associated with liver injury in children: a systematic review. Pediatrics 2010; online early: doi: 10.1542/peds.2009-3352:

Shah AD, Wood DM, Dargan PI. Understanding lactic acidosis in paracetamol (acetaminophen) poisoning. Br J Clin Pharmacol 2011; 71: 20-8.

Wiegand TJ, Margaretten M, Olson KR. Author's response to "Massive acetaminophen ingestion with early metabolic acidosis and coma: treatment with IV NAC and continuous venovenous hemodiafiltration". Clin Toxicol 2010; 48: 961-2.

Amfetamines and MDMA (ecstasy)

Grunau BE, Wiens MO, Greidanus M. Dantrolene for the treatment of MDMA toxicity. CJEM 2010; 12: 457-9.

Aminophenylbutyric acid

Magsalin RMM, Khan AY. Withdrawal symptoms after internet purchase of phenibut (beta-phenyl-aminobutyric acid HCl). J Clin Psychopharmacol 2010; 30: 648-9.

Amitriptyline

Palaniswamy C, Selvaraj DR, Chugh T, Singh T, Khaliq O, Tsai F, Sandhu R. Brugada electrocardiographic pattern induced by amitriptyline overdose. Am J Ther 2010; 17: 529-32.

Amoxicillin

Herrero-Herrero JJ, García-Aparicio J. Corticosteroid therapy in a case of severe cholestatic hepatitis associated with amoxicillin-clavulanate. J Med Toxicol 2010; 6: 420-3.

Mrvos R, Pummer TL, Krenzelok EP. Amoxicillin renal toxicity: how often does it occur? Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. Clin Toxicol 2010; 48: 609.

Anaesthetics

Ismail S. Chemical dependency: an occupational hazard in the field of anaesthesia. J Pak Med Assoc 2010; 76: 858-60.

Androstenedione

Anon. Toxicology and carcinogenesis studies of androstenedione (CAS No. 63-05-8) in F344/N rats and B6C3F1 mice (gavage studies). Natl Toxicol Program Tech Rep Ser 2010; 560: 1-192.

Antibiotics

Herrero-Herrero JJ, García-Aparicio J. Corticosteroid therapy in a case of severe cholestatic hepatitis associated with amoxicillin-clavulanate. J Med Toxicol 2010; 6: 420-3.

Antidepressants

Waring WS, Graham A, Gray J, Wilson AD, Howell C, Bateman DN. Evaluation of a QT nomogram for risk assessment after antidepressant overdose. Br J Clin Pharmacol 2010; 70: 881-5.

Antineoplastic drugs

Sottani C, Porro B, Comelli M, Imbriani M, Minoia C. An analysis to study trends in occupational exposure to antineoplastic drugs among health care workers. J Chromatogr B Analyt Technol Biomed Life Sci 2010; 878: 2593-605.

Barbexaclone

Darcin AE, Dilbaz N, Okay IT. Barbexaclone abuse in a cannabis ex-user. Subst Abuse 2010; 31: 270-2.

Benzodiazepines

Cabarcos P, Tabernero MJ, Alvarez I, Lopez P, Fernandez P, Bermejo AM.

Analysis of six benzodiazepines in vitreous humor by high-performance liquid chromatography-photodiode-array detection. *J Anal Toxicol* 2010; 34: 539-42.

Howland RH.

Potential adverse effects of discontinuing psychotropic drugs: part 4: benzodiazepine, glutamate, opioid, and stimulant drugs. *J Psychosoc Nurs Ment Health Serv* 2010; 48: 11-4.

Beta blockers

Canning J, Brooks DE, Gerkin RD.

Identifying patients with cocaine-related chest pain at true risk for β -blocker toxicity.

Arch Intern Med 2010; 170: 1859.

Bupivacaine

Lin EP, Aronson LA.

Successful resuscitation of bupivacaine-induced cardiotoxicity in a neonate.

Paediatr Anaesth 2010; 20: 955-7.

Buprenorphine

Awgu E, Magura S, Rosenblum A.

Heroin-dependent inmates' experiences with buprenorphine or methadone maintenance.

J Psychoactive Drugs 2010; 42: 339-46.

Jones JD, Sullivan MA, Manubay J, Vosburg SK, Comer SD.

The subjective, reinforcing, and analgesic effects of oxycodone in patients with chronic, non-malignant pain who are maintained on sublingual buprenorphine/naloxone.

Neuropsychopharmacology 2010; online early: doi: 10.1038/npp.2010.172:

Martin TC, Rocque MA.

Accidental and non-accidental ingestion of methadone and buprenorphine in childhood: a single center experience, 1999-2009.

Curr Drug Saf 2010; online early: PM:21047302:

Tanner GR, Bordon N, Conroy S, Best D.

Comparing methadone and suboxone in applied treatment settings: the experiences of maintenance patients in Lanarkshire.

J Subst Use 2010; online early: doi: 10.3109/14659891.2010.526480:

Tellioglu T.

Buprenorphine: a new alternative in the treatment of opioid addiction.

Klin Psikofarmakol Bul 2010; 20: 261-5.

Buspirone

Lane N, Maggs J, Park K, Williams D.

Investigation into the metabolism and toxicity of nefazodone and buspirone. Highlights of the 2010 Annual Congress of the British Toxicology Society. Includes the abstracts of the British Toxicology Society, Spring 2010.

Toxicology 2010; 278: 365-6.

Caffeine

Bigard AX.

[Risks of energy drinks in youths.]. In French with English abstract.

Arch Pediatr 2010; 17: 1625-31.

Cannabis (marijuana)

Ballard ME, De Wit H.

Combined effects of acute, very-low-dose ethanol and Δ^9 -tetrahydrocannabinol in healthy human volunteers.

Pharmacol Biochem Behav 2010; online early: doi: 10.1016/j.pbb.2010.11.013:

Belze O, Jr., Legras A, Ehrmann S, Garot D, Perrotin D.

Cannabis-induced acute pancreatitis.

Am J Emerg Med 2011; 29: 131.

Canning JC, Ruha A-M, Pierce R, Torrey M, Reinhart SJ.

Severe GI distress after smoking JWH-018. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 618.

Darcin AE, Dilbaz N, Okay IT.

Barbexaclone abuse in a cannabis ex-user.

Subst Abuse 2010; 31: 270-2.

Reid PT, Macleod J, Robertson JR.

Cannabis and the lung.

J R Coll Physicians Edinb 2010; 40: 328-34.

Carbamazepine

Nulman I.

Carbamazepine in pregnancy.

Br Med J 2010; 341: 1229.

Carisoprodol

Fass JA.

Carisoprodol legal status and patterns of abuse.

Ann Pharmacother 2010; online early: doi: 10.1345/aph.1P339:

Chloroquine

Mégarbane B, Bloch V, Hirt D, Debray M, Résière D, Deye N, Baud FJ.

Blood concentrations are better predictors of chloroquine poisoning severity than plasma concentrations: a prospective study with modeling of the concentration/effect relationships.

Clin Toxicol 2010; 48: 904-5.

Chlorphenamine

Monte AA, Chuang R, Bodmer M.

Dextromethorphan, chlorphenamine and serotonin toxicity: case report and systematic literature review.

Br J Clin Pharmacol 2010; 70: 794-8.

Clonazepam

Frauger E, Pauly V, Pradel V, Rouby F, Arditti J, Thirion X, Lapeyre Mestre M, Micallef J.

Evidence of clonazepam abuse liability: results of the tools developed by the French Centers for Evaluation and Information on Pharmacodependence (CEIP) network.

Fundam Clin Pharmacol 2010; online early: doi: 10.1111/j.1472-8206.2010.00882.x:

Cocaine

Canning J, Brooks DE, Gerkin RD.

Identifying patients with cocaine-related chest pain at true risk for β -blocker toxicity.

Arch Intern Med 2010; 170: 1859.

Cordero R, Lee S, Paterson S.

Distribution of concentrations of cocaine and its metabolites in hair collected postmortem from cases with diverse causes/circumstances of death.

J Anal Toxicol 2010; 34: 543-8.

Cocaine

Garcia-Repetto R, Gimenez MP, Martinez MC, Soria ML.
A fatally mistaken fruit juice drink: an un-ordinary way of cocaine intoxication.
J Forensic Legal Med 2010; 17: 434-6.

Mercolini L, Mandrioli R, Gerra G, Raggi MA.
Analysis of cocaine and two metabolites in dried blood spots by liquid chromatography with fluorescence detection: a novel test for cocaine and alcohol intake.
J Chromatogr A 2010; 1217: 7242-8.

Codeine

Kurtz M, Black Golde P, Berlinger N.
Ethical considerations in CYP2D6 genotype testing for codeine-prescribed breastfeeding mothers.
Clin Pharmacol Ther 2010; 88: 760-2.

Coumarin

Brenner C, Huber B, Becker A, Ostermann H, Becker C, Steinbeck G, Franz WM.
Thromboembolism and coumarin overdosage in a 19-year-old female: impact of pharmacogenetics.
Clin Genet 2010; 78: 499-501.

Designer drugs

Mephedrone

Wood DM, Davies S, Greene SL, Button J, Holt DW, Ramsey J, Dargan PI.
Case series of individuals with analytically confirmed acute mephedrone toxicity.
Clin Toxicol 2010; 48: 924-7.

Methodrone

Wikstrom M, Thelander G, Nystrom I, Kronstrand R.
Two fatal intoxications with the new designer drug methedrone (4-methoxymethcathinone).
J Anal Toxicol 2010; 34: 594-8.

Methylenedioxypropylvalerone

Meyer MR, Du P, Schuster F, Maurer HH.
Studies on the metabolism of the alpha-pyrrolidinophenone designer drug methylenedioxy-propylvalerone (MDPV) in rat and human urine and human liver microsomes using GC-MS and LC-high-resolution MS and its detectability in urine by GC-MS.
J Mass Spectrom 2010; online early:PM:21053377:

Dextromethorphan

Monte AA, Chuang R, Bodmer M.
Dextromethorphan, chlorphenamine and serotonin toxicity: case report and systematic literature review.
Br J Clin Pharmacol 2010; 70: 794-8.

Diazepam

Dagtekin O, Marcus H, Muller C, Bottiger BW, Spohr F.
Lipid therapy for serotonin syndrome after intoxication with venlafaxine, lamotrigine and diazepam.
Minerva Anestesiol 2010; online early: PM:21068706:

Digoxin

Schaeffer TH, Mlynarchek SL, Stanford CF, Delgado J, Holstege CP, Olsen D, Bogdan GM.
Treatment of chronically digoxin-poisoned patients with a newer digoxin immune Fab - a retrospective study.
J Am Osteopath Assoc 2010; 110: 587-92.

Diltiazem

Bertrand N, Bouvet C, Moreau P, Leroux J-C.
Transmembrane pH-gradient liposomes to treat cardiovascular drug intoxication.
ACS Nano 2010; online early: doi: 10.1021/nn101924a:

Montiel V, Gougnard T, Hantson P.
Diltiazem poisoning treated with hyperinsulinemic euglycemia therapy and intravenous lipid emulsion.
Eur J Emerg Med 2010; online early: doi: 10.1097/MEJ.0b013e32834130ab:

Diphenhydramine

Husain Z, Hussain K, Nair R, Steinman R.
Diphenhydramine induced QT prolongation and torsade de pointes: an uncommon effect of a common drug.
Cardiol J 2010; 17: 509-11.

Jang DH, Manini AF, Trueger NS, Duque D, Nestor NB, Nelson LS, Hoffman RS.
Status epilepticus and wide-complex tachycardia secondary to diphenhydramine overdose.
Clin Toxicol 2010; 48: 945-8.

Dipyridamole

Lagas JS, Wilhelm AJ, Vos RM, van den Dool E-J, van der Heide Y, Huissoon S, Beijnen JH, Brandjes DPM.
Toxicokinetics of a dipyridamole (Persantin) intoxication: case report.
Hum Exp Toxicol 2011; 30: 74-8.

Epinephrine

Kanwar M, Rosman H, Irvin C.
Pediatric and neonatal patients are particularly vulnerable to epinephrine dosing errors - in reply.
Ann Emerg Med 2010; 56: 705.

Rosenbluth G, Wilson SD.
Pediatric and neonatal patients are particularly vulnerable to epinephrine dosing errors.
Ann Emerg Med 2010; 56: 704-5.

Fentanyl

Jankowske M, Mailloux P, Przyborowski M.
A 58-year-old woman with an unusual cause of respiratory failure.
Internet J Pulm Med 2010; 12:

Furosemide

Webb H, Duckworth J, Turnpenney P, Gardner I, Smith D, Park K, Williams D.
Pharmacokinetic investigation into the mechanism of toxicity of furosemide and its thiophene analogue. Highlights of the 2010 Annual Congress of the British Toxicology Society. Includes the abstracts of the British Toxicology Society, Spring 2010.
Toxicology 2010; 278: 366.

Herbal medicines, ethnic remedies and dietary supplements

Anon.
Toxicology and carcinogenesis studies of androstenedione (CAS No. 63-05-8) in F344/N rats and B6C3F1 mice (gavage studies).
Natl Toxicol Program Tech Rep Ser 2010; 560: 1-192.

Chung I-S, Lee M-Y, Shin D-H, Jung H-R.
Three systemic argyria cases after ingestion of colloidal silver solution.
Int J Dermatol 2010; 49: 1175-7.

Cienki JJ, Zaret L.
An internet misadventure: bloodroot salve toxicity.
J Altern Complement Med 2010; 16: 1125-7.

Herbal medicines, ethnic remedies and dietary supplements

John SK, Rangan Y, Block CA, Koff MD.

Life-threatening hyperkalemia from nutritional supplements: uncommon or undiagnosed?

Am J Emerg Med 2010; online early: doi: 10.1016/j.ajem.2010.08.029:

Magsalin RMM, Khan AY.

Withdrawal symptoms after internet purchase of phenibut (beta-phenyl-aminobutyric acid HCl).

J Clin Psychopharmacol 2010; 30: 648-9.

Raviraja A, Vishal Babu GN, Sehgal A, Saper RB, Jayawardene I, Amarasiriwardena CJ, Venkatesh T.

Three cases of lead toxicity associated with consumption of Ayurvedic medicines.

Indian J Clin Biochem 2010; 25: 326-9.

Sharma T, Wong L, Tsai N, Wong RD.

Hydroxycut® (herbal weight loss supplement) induced hepatotoxicity: a case report and review of literature.

Hawaii Med J 2010; 69: 188-90.

Soni MG, Thurmond TS, Miller ER, III, Spriggs T, Bendich A, Omaye ST.

Safety of vitamins and minerals: controversies and perspective.

Toxicol Sci 2010; 118: 348-55.

Vannacci A, Gallo E, Lapi F, Pugi A, Lucenteforte E, Firenzuoli F, Mascherini V, Raschetti R, Menniti-Ippolito F, Mugelli A.

Adverse events and interactions due to Chinese herbal drugs in Italy. a three-year pharmacoepidemiology, pharmacogenomic and pharmacovigilance survey.

Eur J Integr Med 2010; 2: 211.

Heroin (diacetylmorphine)

Awgu E, Magura S, Rosenblum A.

Heroin-dependent inmates' experiences with buprenorphine or methadone maintenance.

J Psychoactive Drugs 2010; 42: 339-46.

Degenhardt L, Bucello C, Mathers B, Briegleb C, Ali H, Hickman M, McLaren J.

Mortality among regular or dependent users of heroin and other opioids: a systematic review and meta-analysis of cohort studies.

Addiction 2010; online early: doi: 10.1111/j.1360-0443.2010.03140.x:

Rehm J.

Supervised injectable heroin better at reducing street heroin use than supervised injectable methadone or optimised oral methadone.

Evid Based Ment Health 2010; 13: 126.

Tanner GR, Bordon N, Conroy S, Best D.

Comparing methadone and suboxone in applied treatment settings: the experiences of maintenance patients in Lanarkshire.

J Subst Use 2010; online early: doi: 10.3109/14659891.2010.526480:

Hydromorphone

Meatherall R, Lee C, Phillips S.

Accidental death from hydromorphone ingestion.

J Forensic Sci 2010; online early: doi: 10.1111/j.1556-4029.2010.01618.x:

Hypoglycaemics

Musshoff F, Hess C, Madea B.

Disorders of glucose metabolism: post mortem analyses in forensic cases-part II.

Int J Legal Med 2010; online early: doi: 10.1007/s00414-010-0510-0:

Isoniazid

Baniasadi S, Eftekhari P, Tabarsi P, Fahimi F, Raoufy MR, Masjedi MR, Velayati AA.

Protective effect of N-acetylcysteine on anti-tuberculosis drug-induced hepatotoxicity.

Eur J Gastroenterol Hepatol 2010; 22: 1235-8.

Lamotrigine

Dagtekin O, Marcus H, Muller C, Bottiger BW, Spohr F.

Lipid therapy for serotonin syndrome after intoxication with venlafaxine, lamotrigine and diazepam.

Minerva Anesthesiol 2010; online early: PM:21068706:

Madadi P, Ito S.

Perinatal exposure to maternal lamotrigine: clinical considerations for the mother and child.

Can Fam Physician 2010; 56: 1132-4.

Vajda FJE, Graham JE, Hitchcock AA, O'Brien TJ, Lander CM, Eadie MJ.

Is lamotrigine a significant human teratogen? Observations from the Australian pregnancy register.

Seizure 2010; 19: 558-61.

Lansoprazole

Mitchell AA.

Proton-pump inhibitors and birth defects – some reassurance, but more needed.

N Engl J Med 2010; 363: 2161-3.

Pasternak B, Hviid A.

Use of proton-pump inhibitors in early pregnancy and the risk of birth defects.

N Engl J Med 2010; 363: 2114-23.

Local anaesthetics

Benhamou D, Mazoit JX, Zetlaoui P.

[Early administration of lipid rescue after initial signs of local anesthetic-induced systemic toxicity]. In French.

Ann Fr Anesth Réanim 2010; online early: doi:

10.1016/j.annfar.2010.08.003:

Bern S, Kuo AI, Weinberg G.

Lipid resuscitation: a life-saving antidote for local anesthetic toxicity.

Curr Pharm Biotechnol 2010; online early: PM:21050161:

Manavi MV.

Lipid infusion as a treatment for local anesthetic toxicity: a literature review.

AANA J 2010; 78: 69-78.

Ter Horst MT, Tjiang GCH, Luitwieler RL, Van Velzen C, Stolker RJ, de Quelerij M.

Tegengif voor intoxicatie door lokale anesthetica: Nieuwe toepassing van vetemulsie voor intraveneuze toediening.

[Antidote for intoxication due to local anesthetics: new application of fat emulsion for intravenous administration]. In Dutch.

Ned Tijdschr Geneesk 2010; 154: 1822-5.

Lofexidine

Day E, Strang J.

Outpatient versus inpatient opioid detoxification: a randomized controlled trial.

J Subst Abuse Treat 2010; online early:

10.1016/j.jsat.2010.08.007:

Mepivacaine

Fornier W, Leclerc C, Digeon-Rouxel C.
[Probably late systemic toxicity induced by mepivacaine with severe symptoms. Pharmacologic imputability criterias or biological data?].
Ann Fr Anesth Réanim 2010; online early: doi:
10.1016/j.annfar.2010.10.002:

Meprobamate

Landy C, Nadaud J, Plancade D, Boulland P, Ruttimann M, Favier JC.
[Delayed circulatory failure after meprobamate poisoning in a patient carrying a gastric band]. In French.
Ann Fr Anesth Réanim 2010; online early: doi:
10.1016/j.annfar.2010.09.004:

Metformin

Fourrier F, Seidowsky A.
Intoxication par la metformine: mécanismes de toxicité et prise en charge. [Metformin poisoning: mechanisms of toxicity and management]. In French with English abstract.
Reanimation 2010; 19: 539-44.

Methadone

Awgu E, Magura S, Rosenblum A.
Heroin-dependent inmates' experiences with buprenorphine or methadone maintenance.
J Psychoactive Drugs 2010; 42: 339-46.

Bowens CD, Thompson JA, Thompson MT, Breitzka RL, Thompson DG, Sheeran PW.
A trial of methadone tapering schedules in pediatric intensive care unit patients exposed to prolonged sedative infusions.
Pediatr Crit Care Med 2010; online early: doi:
10.1097/PCC.0b013e3181fe38f5:

Coviello DM, Zanis DA, Wesnoski SA, Lynch KG, Drapkin M.
Characteristics and 9-month outcomes of discharged methadone maintenance clients.
J Subst Abuse Treat 2010; online early: doi:
10.1016/j.jsat.2010.09.007:

Finnegan L, Pacini M, Maremmi I.
Methadone treatment for pregnant heroin addicted women.
Heroin Addict Rel Clin Probl 2010; 12: 29-36.

Gramenz P, Roberts D, Schrag L.
Intra-arterial self-injection of methadone tablets into the femoral artery.
J Emerg Med 2010; 39: e125-e127.

Madden ME, Shapiro SL.
The methadone epidemic: methadone-related deaths on the rise in Vermont.
Am J Forensic Med Pathol 2010; online early: doi:
10.1097/PAF.0b013e3181e8af3d:

Martin TC, Rocque MA.
Accidental and non-accidental ingestion of methadone and buprenorphine in childhood: a single center experience, 1999-2009.
Curr Drug Saf 2010; online early: PM:21047302:

Meier KH, Mamantov T, Armenian P, Gerona RR, Rutherford Y.
Pediatric methadone overdose with seizure. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 654-5.

Palmieri C, Staub C, La Harpe R, Mangin P.
Parental substance abuse and accidental death in children.
J Forensic Sci 2010; 55: 819-21.

Parikh R, Hussain T, Holder G, Bhojar A, Ewer A.
Maternal methadone therapy increases QTc interval in newborn infants.
Arch Dis Child Fetal Neonatal 2010; online early: doi:
10.1136/adc.2009.181701:

Rehm J.
Supervised injectable heroin better at reducing street heroin use than supervised injectable methadone or optimised oral methadone.
Evid Based Ment Health 2010; 13: 126.

Metoprolol

Oertel R, Pietsch J, Arenz N, Goltz L, Kirch W.
Investigations to distribution of metoprolol in human autopsy material. Abstract from 2010 Annual Meeting of the German Clinical Pharmacologists, Würzburg, Germany, 4-6 November 2010.
Br J Clin Pharmacol 2010; 70: 25.

Metronidazole

Kalia V, Vibhuti, Saggur K.
Case report: MRI of the brain in metronidazole toxicity.
Indian J Radiol Imaging 2010; 20: 195-7.

Morphine

Lagas JS, Wagenaar JFP, Huitema ADR, Hillebrand MJX, Koks CHW, Gerdes VEA, Brandjes DPM, Beijnen JH.
Lethal morphine intoxication in a patient with a sickle cell crisis and renal impairment: case report and a review of the literature.
Hum Exp Toxicol 2010; online early: doi:
10.1177/0960327110388962:

Mahmood I.
Evaluation of a morphine maturation model for the prediction of morphine clearance in children: how accurate is the predictive performance of the model?
Br J Clin Pharmacol 2011; 71: 88-94.

Ruan X, Chen T, Gudim J, Couch JP, Chiravuri S.
Acute opioid withdrawal precipitated by ingestion of crushed Embeda (morphine extended release with sequestered naltrexone): case report and the focused review of the literature.
J Opioid Manage 2010; 6: 300-3.

Nefazodone

Lane N, Maggs J, Park K, Williams D.
Investigation into the metabolism and toxicity of nefazodone and buspirone. Highlights of the 2010 Annual Congress of the British Toxicology Society. Includes the abstracts of the British Toxicology Society, Spring 2010.
Toxicology 2010; 278: 365-6.

Omeprazole

Mitchell AA.
Proton-pump inhibitors and birth defects – some reassurance, but more needed.
N Engl J Med 2010; 363: 2161-3.

Pasternak B, Hviid A.
Use of proton-pump inhibitors in early pregnancy and the risk of birth defects.
N Engl J Med 2010; 363: 2114-23.

Opioids

Bazazi AR, Zaller ND, Fu JJ, Rich JD.
Preventing opiate overdose deaths: examining objections to take-home naloxone.
J Health Care Poor Underserved 2010; 21: 1108-13.

Opioids

Cornish R, Macleod J, Strang J, Vickerman P, Hickman M.
Risk of death during and after opiate substitution treatment in primary care: prospective observational study in UK General Practice Research Database.
Br Med J 2010; 341: c5475.

Day E, Strang J.
Outpatient versus inpatient opioid detoxification: a randomized controlled trial.
J Subst Abuse Treat 2010; online early: doi: 10.1016/j.jsat.2010.08.007:

Howland RH.
Potential adverse effects of discontinuing psychotropic drugs: part 4: benzodiazepine, glutamate, opioid, and stimulant drugs.
J Psychosoc Nurs Ment Health Serv 2010; 48: 11-4.

Jones JD, Sullivan MA, Manubay J, Vosburg SK, Comer SD.
The subjective, reinforcing, and analgesic effects of oxycodone in patients with chronic, non-malignant pain who are maintained on sublingual buprenorphine/naloxone.
Neuropsychopharmacology 2010; online early: doi: 10.1038/npp.2010.172:

Kahrom M, Kahrom H.
Perforation of peptic ulcer following abrupt cessation of long-term opiate use.
Surg Today Jpn J Surg 2010; 40: 836-9.

Lotsch J, Tegeder I.
Opioid-mediated drug actions cannot be concluded from naloxone induced reversal of anti-nociceptive effects in behavioural tests only.
Eur J Pain 2010; 14: 981-4.

Mayet S, Manning V, Williams A, Loaring J, Strang J.
Impact of training for healthcare professionals on how to manage an opioid overdose with naloxone: effective, but dissemination is challenging.
Int J Drug Policy 2010; online early: doi: 10.1016/j.drugpo.2010.09.008:

Patanwala AE, Keim SM, Erstad BL.
Intravenous opioids for severe acute pain in the emergency department.
Ann Pharmacother 2010; 44: 1800-9.

Safari F, Mottaghi K, Malek S, Salimi A.
Effect of ultra-rapid opiate detoxification on withdrawal syndrome.
J Addict Dis 2010; 29: 449-54.

Tellioglu T.
Buprenorphine: a new alternative in the treatment of opioid addiction.
Klin Psikofarmakol Bul 2010; 20: 261-5.

Paliperidone

Bez Y, Donmezdil S, Sir A.
Suicide attempt with paliperidone overdose: a case report.
Klin Psikofarmakol Bul 2010; 20: 164-6.

Paracetamol (acetaminophen)

Bodmer M, Monte AA.
"Massive acetaminophen ingestion with early metabolic acidosis and coma: treatment with IV NAC and continuous venovenous hemodiafiltration" by Wiegand et al., *Clin Toxicol* 48:156-159.
Clin Toxicol 2010; 48: 961.

Ceschi A, Hofer KE, Rauber-Lüthy C, Kupferschmidt H.
Paracetamol orodispersible tablets: a risk for severe poisoning in children?
Eur J Clin Pharmacol 2010; online early: doi: 10.1007/s00228-010-0943-x:

Claridge LC, Eksteen B, Smith A, Shah T, Holt AP.
Acute liver failure after administration of paracetamol at the maximum recommended daily dose in adults.
Br Med J 2010; 341: 1269-70.

De Geus H, Mathot R, Van Der Hoven B, Tjoa M, Bakker J.
Enhanced paracetamol clearance with molecular adsorbents recirculating system (MARS) in severe auto-intoxication.
Blood Purif 2010; 30: 118-9.

Larocque A, Bailey B.
Evaluation du risque d'hépatotoxicité après ingestion de paracétamol: où en sommes-nous en 2010 ? [Evaluation of the risk of hepatotoxicity after acetaminophen ingestion: where are we in 2010?] In French with English abstract.
Reanimation 2010; 19: 545-51.

Lavonas EJ, Reynolds KM, Dart RC.
Therapeutic acetaminophen is not associated with liver injury in children: a systematic review.
Pediatrics 2010; online early: doi: 10.1542/peds.2009-3352:

Shah AD, Wood DM, Dargan PI.
Understanding lactic acidosis in paracetamol (acetaminophen) poisoning.
Br J Clin Pharmacol 2011; 71: 20-8.

Wiegand TJ, Margaretten M, Olson KR.
Author's response to "Massive acetaminophen ingestion with early metabolic acidosis and coma: treatment with IV NAC and continuous venovenous hemodiafiltration".
Clin Toxicol 2010; 48: 961-2.

Pegfilgrastim

Kaidar-Person O, Moskovitz M, Charas T, Alsharbaty W, Haim N.
Pegfilgrastim overdose: case report and review of the literature.
Med Oncol 2010; online early: doi: 10.1007/s12032-010-9751-5:

Phenelzine

Ngo A, Ho R, Olson K.
Phenelzine-induced myocardial injury: a case report.
J Med Toxicol 2010; 6: 431-4.

Phosphate enema

Jacobson RM, Peery J, Thompson WO, Kanapka JA, Caswell M.
Serum electrolyte shifts following administration of sodium phosphates enema.
Gastroenterol Nurs 2010; 33: 191-201.

Propafenone

Saz EU, Ucar SK, Ulger Z, Ersel M, Cevik C, Karapinar B.
Successful treatment of suicidal mega dose of propafenone intoxication - a case report.
Kardiol Pol 2010; 68: 1284-5.

Propofol

Megarbane B.
La fin tragique du roi de la pop: l'Exemple exceptionnel d'une pharmacodépendance au propofol. [The tragic end of the King of Pop: an exceptional example of pharmacodependence to propofol]. In French with English abstract.
Reanimation 2010; 19: 601-4.

Pyrazinamide

Baniasadi S, Eftekhari P, Tabarsi P, Fahimi F, Raoufy MR, Masjedi MR, Velayati AA.

Protective effect of N-acetylcysteine on anti-tuberculosis drug-induced hepatotoxicity.

Eur J Gastroenterol Hepatol 2010; 22: 1235-8.

Quetiapine

Garg V, Farah N.

Quetiapine overdose.

Aust N Z J Psychiatry 2010; 44: 1144.

Rhyee SH, Pedapati EV, Thompson J.

Prolonged delirium after quetiapine overdose.

Pediatr Emerg Care 2010; 26: 754-6.

Rifampicin

Baniasadi S, Eftekhari P, Tabarsi P, Fahimi F, Raoufy MR, Masjedi MR, Velayati AA.

Protective effect of N-acetylcysteine on anti-tuberculosis drug-induced hepatotoxicity.

Eur J Gastroenterol Hepatol 2010; 22: 1235-8.

Risperidone

Crocq MA, Naber D, Lader MH, Thibaut F, Drici M, Everitt B, Hall GC, Le Jeunne C, Mittoux A, Peuskens J, Priori S, Sturkenboom M, Thomas SH, Tanghoj P, Toumi M, Mann R, Moore ND.

Suicide attempts in a prospective cohort of patients with schizophrenia treated with sertindole or risperidone.

Eur Neuropsychopharmacol 2010; 20: 829-38.

Salbutamol

Boucher A, Payen C, Garayt C, Ibanez H, Dieny A, Doche C, Chuniaud C, Descotes J.

Salbutamol misuse or abuse with fatal outcome: a case-report.

Hum Exp Toxicol 2010; online early: doi:

10.1177/0960327110388957:

Sertindole

Crocq MA, Naber D, Lader MH, Thibaut F, Drici M, Everitt B, Hall GC, Le Jeunne C, Mittoux A, Peuskens J, Priori S, Sturkenboom M, Thomas SH, Tanghoj P, Toumi M, Mann R, Moore ND.

Suicide attempts in a prospective cohort of patients with schizophrenia treated with sertindole or risperidone.

Eur Neuropsychopharmacol 2010; 20: 829-38.

Sibutramine

Uhl D.

USA: Kein eindeutiges votum fur Sibutramin-marktrucknahme. [USA: no clear vote on the market withdrawal of sibutramine].

In German.

Dtsch Apothek Zeit 2010; 150: 42.

SSRIs

Douglas I, Smeeth L, Irvine D.

The use of antidepressants and the risk of haemorrhagic stroke: a nested case control study.

Br J Clin Pharmacol 2011; 71: 116-20.

Statins

Goldstein MR, Mascitelli L.

Statin-induced diabetes: perhaps, it's the tip of the iceberg.

QJM 2010; online early: doi:10.1093/qjmed/hcq230:

Substance abuse

Abel EL.

Cerebral palsy and alcohol consumption during pregnancy: is there a connection?

Alcohol Alcohol 2010; 45: 592-4.

Adams C.

Evidentiary blood alcohol draws by emergency nurses.

J Emerg Nurs 2010; 36: 350-4.

Anderson KT, Caravati EM, Crouch D, Dahl B.

Adverse effects associated with smoking Damiana incense product. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 618.

Apte MV, Pirola RC, Wilson JS.

Mechanisms of alcoholic pancreatitis.

J Gastroenterol Hepatol 2010; 25: 1816-26.

Awgu E, Magura S, Rosenblum A.

Heroin-dependent inmates' experiences with buprenorphine or methadone maintenance.

J Psychoactive Drugs 2010; 42: 339-46.

Bazazi AR, Zaller ND, Fu JJ, Rich JD.

Preventing opiate overdose deaths: examining objections to take-home naloxone.

J Health Care Poor Underserved 2010; 21: 1108-13.

Belze O, Jr., Legras A, Ehrmann S, Garot D, Perrotin D.

Cannabis-induced acute pancreatitis.

Am J Emerg Med 2011; 29: 131.

Boucher A, Payen C, Garayt C, Ibanez H, Dieny A, Doche C, Chuniaud C, Descotes J.

Salbutamol misuse or abuse with fatal outcome: a case-report.

Hum Exp Toxicol 2010; online early: doi:

10.1177/0960327110388957:

Boyles AL, Deroo LA, Lie RT, Taylor JA, Jugessur A, Murray JC, Wilcox AJ.

Maternal alcohol consumption, alcohol metabolism genes, and the risk of oral clefts: a population-based case-control study in Norway, 1996-2001.

Am J Epidemiol 2010; 172: 924-31.

Canning J, Brooks DE, Gerkin RD.

Identifying patients with cocaine-related chest pain at true risk for β -blocker toxicity.

Arch Intern Med 2010; 170: 1859.

Canning JC, Ruha A-M, Pierce R, Torrey M, Reinhart SJ.

Severe GI distress after smoking JWH-018. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 618.

Cordero R, Lee S, Paterson S.

Distribution of concentrations of cocaine and its metabolites in hair collected postmortem from cases with diverse causes/circumstances of death.

J Anal Toxicol 2010; 34: 543-8.

Cornish R, Macleod J, Strang J, Vickerman P, Hickman M.

Risk of death during and after opiate substitution treatment in primary care: prospective observational study in UK General Practice Research Database.

Br Med J 2010; 341: c5475.

Coviello DM, Zanis DA, Wesnoski SA, Lynch KG, Drapkin M.

Characteristics and 9-month outcomes of discharged methadone maintenance clients.

J Subst Abuse Treat 2010; online early: doi:

10.1016/j.jsat.2010.09.007:

Darcin AE, Dilbaz N, Okay IT.

Barbexaclone abuse in a cannabis ex-user.

Subst Abuse 2010; 31: 270-2.

Substance abuse

Day E, Strang J.

Outpatient versus inpatient opioid detoxification: a randomized controlled trial.

J Subst Abuse Treat 2010; online early: 10.1016/j.jsat.2010.08.007:

De Millas W., Ganzer F, Kuhn S, Haasen C.

Oxazepam versus clomethiazole in alcohol withdrawal treatment. Eur Addict Res 2010; 16: 179-84.

Degenhardt L, Bucello C, Mathers B, Briegleb C, Ali H, Hickman M, McLaren J.

Mortality among regular or dependent users of heroin and other opioids: a systematic review and meta-analysis of cohort studies. Addiction 2010; online early: doi: 10.1111/j.1360-0443.2010.03140.x:

Droblenkov AV.

[Differential diagnosis of ethanol poisoning, alcohol withdrawal, and chronic alcoholic intoxication from the changes in neurons and macroglyocytes in the cerebral cortex]. In Russian with English abstract.

Sud Med Ekspert 2010; 53: 28-32.

Farren CK, McElroy S.

Predictive factors for relapse after an integrated inpatient treatment programme for unipolar depressed and bipolar alcoholics. Alcohol Alcohol 2010; 45: 527-33.

Fass JA.

Carisoprodol legal status and patterns of abuse.

Ann Pharmacother 2010; online early: doi: 10.1345/aph.1P339:

Finnegan L, Pacini M, Maremmani I.

Methadone treatment for pregnant heroin addicted women.

Heroin Addict Rel Clin Probl 2010; 12: 29-36.

Frauger E, Pauly V, Pradel V, Rouby F, Arditti J, Thirion X, Lapeyre Mestre M, Micallef J.

Evidence of clonazepam abuse liability: results of the tools developed by the French Centers for Evaluation and Information on Pharmacodependence (CEIP) network.

Fundam Clin Pharmacol 2010; online early: doi: 10.1111/j.1472-8206.2010.00882.x:

Garcia-Repetto R, Gimenez MP, Martinez MC, Soria ML.

A fatally mistaken fruit juice drink: an un-ordinary way of cocaine intoxication.

J Forensic Legal Med 2010; 17: 434-6.

Gramenz P, Roberts D, Schrag L.

Intra-arterial self-injection of methadone tablets into the femoral artery.

J Emerg Med 2010; 39: e125-e127.

Ismail S.

Chemical dependency: an occupational hazard in the field of anaesthesia.

J Pak Med Assoc 2010; 76: 858-60.

Kahrom M, Kahrom H.

Perforation of peptic ulcer following abrupt cessation of long-term opiate use.

Surg Today Jpn J Surg 2010; 40: 836-9.

Kanny D, Liu Y, Brewer RD, Garvin W, Balluz L.

Vital signs: binge drinking among high school students and adults - United States, 2009.

MMWR Morb Mortal Wkly Rep 2010; 59: 1274-9.

Keeling AN, Bell RE, Sabharwal T.

Limb loss following intra-arterial drug abuse.

Emerg Med J 2010; 27: 965.

Kirschbaum KM, Musshoff F, Wilbert A, Röhrich J, Madea B.

Direct ELISA kits as a sensitive and selective screening method for abstinence control in urine.

Forensic Sci Int 2010; online early: doi:

10.1016/j.forsciint.2010.09.002:

Ling J, Stephens R, Heffernan TM.

Cognitive and psychomotor performance during alcohol hangover.

Curr Drug Abuse Rev 2010; 3: 80-7.

Loeber S, Duka T, Welzel Márquez H, Nakovics H, Heinz A, Mann K, Flor H.

Effects of repeated withdrawal from alcohol on recovery of cognitive impairment under abstinence and rate of relapse.

Alcohol Alcohol 2010; 45: 541-7.

Madden ME, Shapiro SL.

The methadone epidemic: methadone-related deaths on the rise in Vermont.

Am J Forensic Med Pathol 2010; online early: doi:

10.1097/PAF.0b013e3181e8af3d:

Mandava N, Chang RS, Wang JH, Bertocchi M, Yrad J, Allamaneni S, Aboian E, Lall MH, Mariano R, Richards N.

Establishment of a definitive protocol for the diagnosis and management of body packers (drug mules).

Emerg Med J 2010; online early: doi:

10.1136/emj.2008.059717:

McMicken D, Liss JL.

Alcohol-related seizures.

Emerg Med Clin North Am 2011; 29: 117-24.

Megarbane B.

La fin tragique du roi de la pop: l'Exemple exceptionnel d'une pharmacodépendance au propofol. [The tragic end of the King of Pop: an exceptional example of pharmacodependence to propofol]. In French with English abstract.

Reanimation 2010; 19: 601-4.

Mravcik V, Zabransky T, Vorel F.

[Ethanol and other psychoactive substances in fatal road traffic accidents in the Czech Republic in 2008].

Cas Lek Cesk 2010; 149: 332-6.

Neighbor ML, Dance TR, Hawk M, Kohn MA.

Heightened pain perception in illicit substance-using patients in the ED: implications for management.

Am J Emerg Med 2011; 29: 50-6.

Nogue-Xarau S, Duenas-Laita A, Burillo-Putze G.

Abuso mortal de cianamida calcica y alcohol etílico: ¿Ausencia de antidoto? [Fatal calcium cyanide and ethyl alcohol abuse: is there an antidote?] In Spanish.

Med Clin (Barc) 2010; 135: 479.

Palmiere C, Staub C, La Harpe R, Mangin P.

Parental substance abuse and accidental death in children.

J Forensic Sci 2010; 55: 819-21.

Penning R, van Nuland M, Fliervoet LAL, Olivier B, Verster JC.

The pathology of alcohol hangover.

Curr Drug Abuse Rev 2010; 3: 68-75.

Substance abuse

Perryman K, Rose AK, Winfield H, Jenner J, Oyefeso A, Phillips TS, Deluca P, Heriot-Maitland C, Galea S, Cheeta S, Saunders V, Drummond C.

The perceived challenges facing alcohol treatment services in England: a qualitative study of service providers.

J Subst Use 2010; online early: doi: 10.3109/14659891003706399:

Piasecki TM, Robertson BM, Epler AJ.

Hangover and risk for alcohol use disorders: existing evidence and potential mechanisms.

Curr Drug Abuse Rev 2010; 3: 92-102.

Ragone SP, Geller RJ, Lopez GP.

A poison center's development of a media campaign to address trends of herbal incense abuse. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 649.

Reid PT, Macleod J, Robertson JR.

Cannabis and the lung.

J R Coll Physicians Edinb 2010; 40: 328-34.

Roberts J, Dollard D.

Alcohol levels do not accurately predict physical or mental impairment in ethanol-tolerant subjects: relevance to emergency medicine and dram shop laws.

J Med Toxicol 2010; 6: 438-42.

Rose AK, Winfield H, Jenner JH, Oyefeso A, Phillips TS, Deluca P, Perryman KA, Heriot-Maitland C, Galea S, Cheeta S, Saunders V, Drummond C.

National survey of alcohol treatment agencies in England: characteristics of treatment agencies.

J Subst Use 2010; online early: doi: 10.3109/14659891003721125:

Roussotte F, Soderberg L, Sowell E.

Structural, metabolic, and functional brain abnormalities as a result of prenatal exposure to drugs of abuse: evidence from neuroimaging.

Neuropsychol Rev 2010; 20: 376-97.

Ruan X, Chen T, Gudín J, Couch JP, Chiravuri S.

Acute opioid withdrawal precipitated by ingestion of crushed Embeda (morphine extended release with sequestered naltrexone): case report and the focused review of the literature.

J Opioid Manage 2010; 6: 300-3.

Rufer F, Peters A, Klettner A, Treumer F, Roider J.

Influence of alcohol consumption on incidence and severity of open-globe eye injuries in adults.

Graefes Arch Clin Exp Ophthalmol 2010; online early: doi: 10.1007/s00417-010-1533-4:

Safari F, Mottaghi K, Malek S, Salimi A.

Effect of ultra-rapid opiate detoxification on withdrawal syndrome.

J Addict Dis 2010; 29: 449-54.

Salmon AM, van Beek I, Amin J, Kaldor J, Maher L.

The impact of a supervised injecting facility on ambulance call-outs in Sydney, Australia.

Addiction 2010; 105: 676-83.

Tanner GR, Bordon N, Conroy S, Best D.

Comparing methadone and suboxone in applied treatment settings: the experiences of maintenance patients in Lanarkshire.

J Subst Use 2010; online early: doi: 10.3109/14659891.2010.526480:

Tellioglu T.

Buprenorphine: a new alternative in the treatment of opioid addiction.

Klin Psikofarmakol Bul 2010; 20: 261-5.

Vearrier D, Greenberg MI.

Anticholinergic delirium following *Datura stramonium* ingestion: implications for the Internet age.

J Emerg Trauma Shock 2010; 3: 303.

Verster JC, Penning R.

Treatment and prevention of alcohol hangover.

Curr Drug Abuse Rev 2010; 3: 103-9.

Wikstrom M, Thelander G, Nystrom I, Kronstrand R.

Two fatal intoxications with the new designer drug methedrone (4-methoxymethcathinone).

J Anal Toxicol 2010; 34: 594-8.

Wood DM, Davies S, Greene SL, Button J, Holt DW, Ramsey J, Dargan PI.

Case series of individuals with analytically confirmed acute mephedrone toxicity.

Clin Toxicol 2010; 48: 924-7.

Succinylcholine

Kuepper U, Musshoff F, Madea B.

Applicability of succinylmonocholine as a marker for succinylcholine administration - comparative analysis of samples from a fatal succinylcholine-intoxication versus postmortem control specimens.

Forensic Sci Int 2010; online early: doi: 10.1016/j.forsciint.2010.09.007:

Taurine

Bigard AX.

[Risks of energy drinks in youths.]. In French with English abstract.

Arch Pediatr 2010; 17: 1625-31.

Tramadol

Cole JB, Sattiraju S, Bilden EF, Asinger RW, Bertog SC.

Isolated tramadol overdose associated with Brugada ECG pattern.

Pacing Clin Electrophysiol 2010; online early: doi: 10.1111/j.1540-8159.2010.02924.x:

De Backer B, Renardy F, Denooz R, Charlier C.

Quantification in postmortem blood and identification in urine of tramadol and its two main metabolites in two cases of lethal tramadol intoxication.

J Anal Toxicol 2010; 34: 599-604.

Ir N, Celik Y, Balci K, Inal MT, Memis D.

Yukse doz tramadole bagli gorsel halusinyonlar. [Visual hallucinations induced by tramadol overdose: case report]. In Turkish with English abstract.

Turk Klinikleri J Med Sci 2010; 30: 1105-7.

Marquez-Romero JM, Zermeno-Pohls F, Soto-Cabrera E.

[Convulsive status epilepticus associated with a tramadol overdose]. In Spanish.

Neurologia 2010; 25: 583-5.

Saidi H, Ghadiri M, Abbasi S, Ahmadi SF.

Efficacy and safety of naloxone in the management of postseizure complaints of tramadol intoxicated patients: a self-controlled study.

Emerg Med J 2010; 27: 928-30.

Vaccines

Forrester MB, Aragon T, Sample-Ruiz M, Borys DJ.
Poison center reporting of H1N1 vaccine exposures to a state department of health. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 640.

Valproate

Aaronson PM, Sollee DR, Kunisaki TA, Schauben JL.
Utilization of intravenous levocarnitine: retrospective evaluation and comparison in acute valproic acid toxicity. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 646.

Amini-Shirazi N, Ahmadvkhamha R, Shadma S, Ghahremam MH, Abdollahi M, Dadgar A, Kebriaeezadeh A.
Determination of VPA and its two important metabolites in Iranian overdosed patients.
Int J Pharmacol 2010; 6: 854-62.

Jezequel J, Gauthier N, Alluin A, Desmaretz J-L, Guenault N, Desaintfusien E, Canevet C, Bonenfant C.
Intoxication grave à l'acide valproïque: place du traitement antidotique et de l'épuration extracorporelle. [Severe valproic acid poisoning: place of antidotal treatment and extracorporeal removal techniques]. In French with English abstract.
Reanimation 2010; 19: 587-92.

Kiang TK, Teng XW, Karagiozov S, Surendradoss J, Chang TK, Abbott FS.
Role of oxidative metabolism in the effect of valproic acid on markers of cell viability, necrosis, and oxidative stress in sandwich-cultured rat hepatocytes.
Toxicol Sci 2010; 118: 501-9.

Venlafaxine

Dagtekin O, Marcus H, Muller C, Bottiger BW, Spohr F.
Lipid therapy for serotonin syndrome after intoxication with venlafaxine, lamotrigine and diazepam.
Minerva Anestesiol 2010; online early: PM:21068706:

Minns A, Schneir A, Clark RF.
Venlafaxine overdose leading to delayed cardiotoxicity. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 644.

Vitamins

Soni MG, Thurmond TS, Miller ER, III, Spriggs T, Bendich A, Omaye ST.
Safety of vitamins and minerals: controversies and perspective.
Toxicol Sci 2010; 118: 348-55.

Ziprasidone

Rowden A, Fasano C, O'Malley G.
Pediatric ziprasidone ingestions.
J Med Toxicol 2010; 6: 467.

Zopiclone

Gjerde H, Oiestad EL, Oiestad AM, Langodegard M, Gustavsen I, Hjelmeland K, Bernard JP, Christophersen AS.
Comparison of zopiclone concentrations in oral fluid sampled with Intercept® oral specimen collection device and StatSure saliva sampler and concentrations in blood.
J Anal Toxicol 2010; 34: 590-3.

CHEMICAL INCIDENTS AND POLLUTION

Air pollution

General

Anenberg SC, Josan West J, Horowitz LW, Tong DQ.
The global burden of air pollution on mortality: Anenberg et al. respond.
Environ Health Perspect 2010; 118: A424-A425.

Chen R, Pan G, Kan H, Tan J, Song W, Wu Z, Xu X, Xu Q, Jiang C, Chen B.
Ambient air pollution and daily mortality in Anshan, China: a time-stratified case-crossover analysis.
Sci Total Environ 2010; 408: 6086-91.

Gurjar BR, Jain A, Sharma A, Agarwal A, Gupta P, Nagpure AS, Lelieveld J.
Human health risks in megacities due to air pollution.
Atmos Environ 2010; 44: 4606-13.

Hwang B-F, Lee YL.
Air pollution and prevalence of bronchitic symptoms among children in Taiwan.
Chest 2010; 138: 956-64.

Li Y, Gibson JM, Jat P, Puggioni G, Hasan M, West JJ, Vizueté W, Sexton K, Serre M.
Burden of disease attributed to anthropogenic air pollution in the United Arab Emirates: estimates based on observed air quality data.
Sci Total Environ 2010; 408: 5784-93.

Mann JK, Balmes JR, Bruckner TA, Mortimer KM, Margolis HG, Pratt B, Hammond SK, Lurmann FW, Tager IB.
Short-term effects of air pollution on wheeze in asthmatic children in Fresno, California.
Environ Health Perspect 2010; 118: 1497-502.

Siddique S, Banerjee M, Ray MR, Lahiri T.
Air pollution and its impact on lung function of children in Delhi, the capital city of India.
Water Air Soil Pollut 2010; 212: 89-100.

Carbon monoxide

Açikalin A, Satar S, Sebe A, Köse A, Akpınar O.
H-FABP in cases of carbon monoxide intoxication admitted to the emergency room.
Hum Exp Toxicol 2010; online early: doi: 10.1177/0960327110389836:

Gerostamoulos D, Beyer J, Wong K, Wort C, Drummer OH.
Carbon monoxide concentrations in the 2009 Victorian bushfire disaster victims.
Forensic Sci Int 2010; online early: doi: 10.1016/j.forsciint.2010.08.029:

Gunalp U, Mutluoglu M, Senol MG, Sen H, Sezai O, Senol Y, Guner D.
Karbonmonoksit zehirlenmesine bagli gelisen koma tablosunun tedavisi: Gec donemde uygulanen hiperbarik oksijenin rolu var midir? [Successful reversal of carbon monoxide induced coma: does delayed hyperbaric oxygen have a role?] In Turkish with English abstract.
Anatolian J Clin Invest 2010; 4: 121-4.

Katirci Y, Kandis H, Aslan S, Kirpinar I.
Neuropsychiatric disorders and risk factors in carbon monoxide intoxication.
Toxicol Ind Health 2010; online early: doi: 10.1177/0748233710387632:

Carbon monoxide

Lee SH, Ryu S, Lee JW, Kim SW, Yoo IS, You Y.
Hyperthermia occurred after hyperbaric oxygen therapy for carbon monoxide poisoning.
Am J Emerg Med 2010; online early: doi: 10.1016/j.ajem.2010.10.001:

Sahin Kavakli H, Erel O, Delice O, Gormez G, Isikoglu S, Tanriverdi F.
Oxidative stress increases in carbon monoxide poisoning patients.
Hum Exp Toxicol 2010; online early: doi: 10.1177/0960327110388539:

Exhaust fumes

Bagryantseva Y, Novotna B, Rossner P, Chvatalova I, Milcova A, Svecova V, Lnenickova Z, Solansky I, Sram RJ.
Oxidative damage to biological macromolecules in Prague bus drivers and garage men: impact of air pollution and genetic polymorphisms.
Toxicol Lett 2010; 199: 60-8.

Barrett JR.
From roadways to wheeze: child asthma associated with traffic exposures at home and at school.
Environ Health Perspect 2010; 118: A305.

Gulati K, Banerjee B, Lall SB, Ray A.
Effects of diesel exhaust, heavy metals and pesticides on various organ systems: possible mechanisms and strategies for prevention and treatment.
Indian J Exp Biol 2010; 48: 710-21.

Nitrogen dioxide

Lepeule J, Caini F, Bottagisi S, Galineau J, Hulin A, Marquis N, Bohet A, Siroux V, Kaminski M, Charles M-A, Slama R.
Maternal exposure to nitrogen dioxide during pregnancy and offspring birth weight: comparison of two exposure models.
Environ Health Perspect 2010; 118: 1483-9.

PM10

Gunasekar PG, Stanek LW.
Advances in exposure and toxicity assessment of particulate matter: an overview of presentations at the 2009 Toxicology and Risk Assessment Conference.
Toxicol Appl Pharmacol 2010; online early: doi: 10.1016/j.taap.2010.10.020:

Jimenez E, Linares C, Martinez D, Diaz J.
Role of Saharan dust in the relationship between particulate matter and short-term daily mortality among the elderly in Madrid (Spain).
Sci Total Environ 2010; 408: 5729-36.

Kunzli N, Jerrett M, Garcia-Esteban R, Basagana X, Beckermann B, Gilliland F, Medina M, Peters J, Hodis HN, Mack WJ.
Ambient air pollution and the progression of atherosclerosis in adults.
PLoS ONE 2010; 5: e9096.

Nicolle-Mir L.
Effets respiratoires de la pollution particulaire chez les cyclistes. [Respiratory effects of particle pollution in cyclists]. In French with English abstract.
Envir Risques Sante 2010; 9: 374-5.

Nicolle-Mir L.
Exposition aux composants des PM_{2.5} et mortalité. [Exposure to components of fine particulate matter (PM_{2.5}) and mortality]. In French with English abstract.
Envir Risques Sante 2010; 9: 375-6.

Park SK, Auchincloss AH, O'Neill MS, Prineas R, Correa JC, Keeler J, Graham BR, Kaufman JD, Diez Roux AV.
Particulate air pollution, metabolic syndrome, and heart rate variability: the multi-ethnic study of atherosclerosis (MESA).
Environ Health Perspect 2010; 118: 1406-11.

Silverman RA, Ito K, Freese J, Kaufman BJ, De Claro D, Braun J, Prezant DJ.
Association of ambient fine particles with out-of-hospital cardiac arrests in New York city.
Am J Epidemiol 2010; 172: 917-23.

Stewart JC, Chalupa DC, Devlin RB, Frasier LM, Huang LS, Little EL, Lee SM, Phipps RP, Pietropaoli AP, Taubman MB, Utell MJ, Frampton MW.
Vascular effects of ultrafine particles in persons with type 2 diabetes.
Environ Health Perspect 2010; 118: 1692-8.

Smoke

Dueñas-Laita A, Burillo Putze G, Alonso JR, Bajo A, Climent B, Corral E, Felices F, Ferrer A, Hernández Frutos MP, Nogué S, Puiguriquer J.
[Basis for the clinical management of fire smoke poisoning "Docohumo Madrid 2010"]. In Spanish with English abstract.
Med Intensiva 2010; online early: doi: 10.1016/j.medin.2010.07.007:

Jongcherdchootrakul K, Henderson AK, Jirapongsa C.
Injuries and deaths at a pub fire in Bangkok, Thailand on New Year's Eve 2009.
Burns 2010; online early: doi: 10.1016/j.burns.2010.08.005:

Rylance J, Fullerton DG, Semple S, Ayres JG.
The global burden of air pollution on mortality: the need to include exposure to household biomass fuel-derived particulates.
Environ Health Perspect 2010; 118: A424.

Sulphur dioxide

Johns DO, Svendsgaard D, Linn WS.
Analysis of the concentration-respiratory response among asthmatics following controlled short-term exposures to sulfur dioxide.
Inhal Toxicol 2010; 22: 1184-93.

Chemical incidents

De Vries I, Meulenbelt J.
How to prepare for unusual toxic outbreaks. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 661.

Desikan P.
25 years after the Bhopal gas tragedy.
Natl Med J India 2010; 23: 56-7.

Jones DR, Larner J, Price SC, Chilcott RP.
Optimisation of mass casualty decontamination procedures in vitro. Highlights of the 2010 Annual Congress of the British Toxicology Society. Includes the abstracts of the British Toxicology Society, Spring 2010.
Toxicology 2010; 278: 363-4.

Merhi ZO.
Gulf Coast oil disaster: impact on human reproduction.
Fertil Steril 2010; 94: 1575-7.

Oshikoya KA, Senbanjo IO.
Medicine turned poison for children in Nigeria.
West Afr J Med 2010; 29: 278-9.

Chemical incidents

Schaper A, Desel H, Wyke S, Duart-Davidson R, Bronstein AC. Development of a poison center based European Union alerting system for deliberate chemical release detection. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. *Clin Toxicol* 2010; 48: 637.

Woodward C. Gulf oil spill exposes gaps in public health knowledge. *Can Med Assoc J* 2010; 182: 1290-2.

Young B, Lopez G, Geller R. Sudden bovine deaths in a farming community: state public health and a regional poison center looking for answers. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. *Clin Toxicol* 2010; 48: 638-9.

Pollution and hazardous waste

Aguar A, Eubig PA, Schantz SL. Attention deficit/hyperactivity disorder: a focused overview for children's environmental health researchers. *Environ Health Perspect* 2010; 118: 1646-53.

Broadway A, Cave MR, Wragg J, Fordyce FM, Bewley RJ, Graham MC, Ngwenya BT, Farmer JG. Determination of the bioaccessibility of chromium in Glasgow soil and the implications for human health risk assessment. *Sci Total Environ* 2010; online early: doi: 10.1016/j.scitotenv.2010.09.007:

Chang JW, Ou HY, Chen HL, Guo HR, Liao PC, Lee CC. Interrelationship between exposure to PCDD/Fs and hypertension in metabolic syndrome in Taiwanese living near a highly contaminated area. *Chemosphere* 2010; 81: 1027-32.

Chen A, Dietrich KN, Huo X, Ho SM. Developmental neurotoxicants in E-waste: an emerging health concern. *Environ Health Perspect* 2010; online early: doi: 10.1289/ehp.1002452:

Ewence AE, Lawton EJ, Rumsby PC. Possible developmental toxicity associated with landfill sites in the UK. Highlights of the 2010 Annual Congress of the British Toxicology Society. Includes the abstracts of the British Toxicology Society, Spring 2010. *Toxicology* 2010; 278: 376.

Fontenele EGP, Manoel RAM, Quidute ARP, Montenegro RM, Jr. Contaminantes ambientais e os interferentes endócrinos. [Environmental contaminants and endocrine disruptors]. In Portuguese with English abstract. *Arq Bras Endocrinol Metabol* 2010; 54: 6-16.

Hung HT, Hojer J, Du NT. Potentially hazardous environmental factors for poisoning in rural Vietnam: a community-based survey. *Southeast Asian J Trop Med Public Health* 2010; 41: 1021-7.

Kalahasthi R, Pradyouna A, Narendran P, Rao RHR. Evaluation of the relationship between pro-inflammatory cytokines and health hazards in workers involved in hazardous waste sites at Karnataka, India. *J Res Health Sci* 2010; 10: 7-14.

Langer P. The impacts of organochlorines and other persistent pollutants on thyroid and metabolic health. *Front Neuroendocrinol* 2010; 31: 497-518.

Main KM, Skakkebaek NE, Virtanen HE, Toppari J. Genital anomalies in boys and the environment. *Best Pract Res Clin Endocrinol Metab* 2010; 24: 279-89.

Paruchuri Y, Siuniak A, Johnson N, Levin E, Mitchell K, Goodrich JM, Renne EP, Basu N. Occupational and environmental mercury exposure among small-scale gold miners in the Talensi-Nabdam district of Ghana's upper east region. *Sci Total Environ* 2010; 408: 6079-85.

Swaddiwudhipong W, Mahasakpan P, Funkhiew T, Limpatanachote P. Changes in cadmium exposure among persons living in cadmium-contaminated areas in Northwestern Thailand: a five-year follow-up. *J Med Assoc Thai* 2010; 93: 1217-22.

Wang Z, Chai L, Yang Z, Wang Y, Wang H. Identifying sources and assessing potential risk of heavy metals in soils from direct exposure to children in a mine-impacted city, Changsha, China. *J Environ Qual* 2010; 39: 1616-23.

Water pollution

Argos M, Pierce BL, van Geen A, Graziano J, Ahsan H. Arsenic exposure from drinking water and mortality in Bangladesh - authors' reply. *Lancet* 2010; 376: 1642.

Azizullah A, Khattak MN, Richter P, Hader DP. Water pollution in Pakistan and its impact on public health - a review. *Environ Int* 2010; online early: doi: 10.1016/j.envint.2010.10.007:

Chouhan S, Flora SJ. Arsenic and fluoride: two major ground water pollutants. *Indian J Exp Biol* 2010; 48: 666-78.

El Kettani S, Khassouani CE, Fennich W, Azzouzi EM, Achab B, Maurus Y. Evaluation de l'impregnation au plomb d'une population rurale utilisant les eaux usées à des fins agricoles dans la région de Settât au Maroc. [Evaluation of the lead burden of a rural population that uses wastewater for agricultural purposes in the region of Settât, Morocco]. In French with English abstract. *Envir Risques Sante* 2010; 9: 419-27.

Karim MR, Salam KA, Hossain E, Islam K, Ali N, Haque A, Saud ZA, Yeasmin T, Hossain M, Miyataka H, Himeno S, Hossain K. Interaction between chronic arsenic exposure via drinking water and plasma lactate dehydrogenase activity. *Sci Total Environ* 2010; online early: doi: 10.1016/j.scitotenv.2010.10.001:

Nituc E, Nastase V, Mihailescu G, Chioveanu D. Researches of the nitrates and nitrites in some well waters from rural area in correlation with methemoglobinemia morbidity. *Rev Med Chir Soc Med Nat Iasi* 2010; 114: 580-6.

Pandey A. Prevalence of fluorosis in an endemic village in central India. *Trop Doct* 2010; 40: 217-9.

Stoicescu RM. Nitrate-contaminated groundwater. an important infant health problem in rural Constanta. *Arch Balk Med Union* 2010; 45: 25-8.

Tan SN, Yong JWH, Ng YF. Arsenic exposure from drinking water and mortality in Bangladesh. *Lancet* 2010; 376: 1641-2.

Water pollution

Vahter M, Sohel N, Streatfield K, Persson L.
Arsenic exposure from drinking water and mortality in Bangladesh.
Lancet 2010; 376: 1641.

CHEMICALS

General

Boice JDJ, Marano DE, Munro HM, Chadda BK, Signorello LB, Tarone RE, Blot WJ, McLaughlin JK.
Cancer mortality among US workers employed in semiconductor wafer fabrication.
J Occup Environ Med 2010; 52: 1082-97.

Conso F, Dargone M-A, Asselain D, Choudat D.
L'intolérance environnementale idiopathique (sensibilité chimique multiple). [Idiopathic environmental intolerance (multiple chemical sensitivity)]. In French with English abstract.
Envir Risques Sante 2010; 9: 393-400.

Henneberger PK, Mirabelli MC, Kogevinas M, Anto JM, Plana E, Dahlman-Hoglund A, Jarvis DL, Kromhout H, Lillienberg L, Norback D, Olivieri M, Radon K, Toren K, Urrutia I, Villani S, Zock JP.
The occupational contribution to severe exacerbation of asthma.
Eur Respir J 2010; 36: 743-50.

Kimber I, Basketter DA, Gerberick GF, Ryan CA, Dearman RJ.
Chemical allergy: translating biology into hazard characterization.
Toxicol Sci 2010; online early: doi: 10.1093/toxsci/kfq346:

Marano DE, Boice JDJ, Munro HM, Chadda BK, Williams ME, McCarthy CM, Kivel PF, Blot WJ, McLaughlin JK.
Exposure assessment among US workers employed in semiconductor wafer fabrication.
J Occup Environ Med 2010; 52: 1075-81.

Miedinger D, Malo J-L, Ghezzi H, L'Archeveque J, Zunzunegui M-V.
Factors influencing duration of exposure with symptoms and costs of occupational asthma.
Eur Respir J 2010; 36: 728-34.

Pérez Guitián P, Nogué Xarau S, Ríos Guillermo J, Navas Tejero I, Alonso Viladot JR.
Evaluación de las intoxicaciones agudas por productos químicos atendidas en un Servicio de Urgencias. [Evaluation of acute poisonings due to chemical agents treated in an emergency department]. In Spanish with English abstract.
Med Clin (Barc) 2010; online early: doi: 10.1016/j.medcli.2010.04.033:

Rehal B, Maibach H.
Percutaneous absorption of vapors in human skin.
Cutan Ocul Toxicol 2010; online early: doi: 10.3109/15569527.2010.534522:

Villeneuve S, Cyr D, Lynge E, Orsi L, Sabroe S, Merletti F, Gorini G, Morales-Suarez-Varela M, Ahrens W, Baumgardt-Elms C, Kaerlev L, Eriksson M, Hardell L, Févotte J, Guénel P.
Occupation and occupational exposure to endocrine disrupting chemicals in male breast cancer: a case control study in Europe.
Occup Environ Med 2010; 67: 837-44.

Acrylonitrile

Liu F, Jian XD, Jiang J.
[Clinical analysis of occupational acute acrylonitrile poisoning]. In Chinese.
Zhonghua Lao Dong Wei Sheng Zhi Ye Bing Za Zhi 2010; 28: 470.

Alcohol (ethanol)

Abel EL.
Cerebral palsy and alcohol consumption during pregnancy: is there a connection?
Alcohol Alcohol 2010; 45: 592-4.

Adams C.
Evidentiary blood alcohol draws by emergency nurses.
J Emerg Nurs 2010; 36: 350-4.

Apte MV, Pirola RC, Wilson JS.
Mechanisms of alcoholic pancreatitis.
J Gastroenterol Hepatol 2010; 25: 1816-26.

Ballard ME, De Wit H.
Combined effects of acute, very-low-dose ethanol and Δ^9 -tetrahydrocannabinol in healthy human volunteers.
Pharmacol Biochem Behav 2010; online early: doi: 10.1016/j.pbb.2010.11.013:

Benemanskii VV, Solodun IV, Iushkov GG, Bun MM, Piskareva TA.
[Comparative morphological characteristics of changes in the liver in case of poisoning with alcohol-containing liquids in human and following subacute treatment of animals with ethyl and propyl alcohols, ethylene glycol and their mixtures]. In Russian with English abstract.
Sud Med Ekspert 2010; 53: 14-6.

Boyles AL, Deroo LA, Lie RT, Taylor JA, Jugessur A, Murray JC, Wilcox AJ.
Maternal alcohol consumption, alcohol metabolism genes, and the risk of oral clefts: a population-based case-control study in Norway, 1996-2001.
Am J Epidemiol 2010; 172: 924-31.

De Millas W., Ganzer F, Kuhn S, Haasen C.
Oxazepam versus clomethiazole in alcohol withdrawal treatment.
Eur Addict Res 2010; 16: 179-84.

Droblenkov AV.
[Differential diagnosis of ethanol poisoning, alcohol withdrawal, and chronic alcoholic intoxication from the changes in neurons and macroglyocytes in the cerebral cortex]. In Russian with English abstract.
Sud Med Ekspert 2010; 53: 28-32.

Farren CK, McElroy S.
Predictive factors for relapse after an integrated inpatient treatment programme for unipolar depressed and bipolar alcoholics.
Alcohol Alcohol 2010; 45: 527-33.

Imam I.
Alcohol and the central nervous system.
Br J Hosp Med 2010; 71: 634-9.

Kanny D, Liu Y, Brewer RD, Garvin W, Balluz L.
Vital signs: binge drinking among high school students and adults - United States, 2009.
MMWR Morb Mortal Wkly Rep 2010; 59: 1274-9.

Ling J, Stephens R, Heffernan TM.
Cognitive and psychomotor performance during alcohol hangover.
Curr Drug Abuse Rev 2010; 3: 80-7.

Liu Y-C, Ho CH.
Effects of different blood alcohol concentrations and post-alcohol impairment on driving behavior and task performance.
Traffic Inj Prev 2010; 11: 334-41.

Loeber S, Duka T, Welzel Márquez H, Nakovics H, Heinz A, Mann K, Flor H.
Effects of repeated withdrawal from alcohol on recovery of cognitive impairment under abstinence and rate of relapse.
Alcohol Alcohol 2010; 45: 541-7.

Luo J.
Mechanisms of ethanol-induced death of cerebellar granule cells.
Cerebellum 2010; online early: doi: 10.1007/s12311-010-0219-0:

Alcohol (ethanol)

McMicken D, Liss JL.

Alcohol-related seizures.

Emerg Med Clin North Am 2011; 29: 117-24.

Mercolini L, Mandrioli R, Gerra G, Raggi MA.

Analysis of cocaine and two metabolites in dried blood spots by liquid chromatography with fluorescence detection: a novel test for cocaine and alcohol intake.

J Chromatogr A 2010; 1217: 7242-8.

Nogue-Xarau S, Duenas-Laita A, Burillo-Putze G.

Abuso mortal de cianamida calcica y alcohol etilico: ¿Ausencia de antidoto? [Fatal calcium cyanide and ethyl alcohol abuse: is there an antidote?] In Spanish.

Med Clin (Barc) 2010; 135: 479.

Penning R, van Nuland M, Fliervoet LAL, Olivier B, Verster JC.

The pathology of alcohol hangover.

Curr Drug Abuse Rev 2010; 3: 68-75.

Perryman K, Rose AK, Winfield H, Jenner J, Oyefeso A, Phillips TS, Deluca P, Heriot-Maitland C, Galea S, Cheeta S, Saunders V, Drummond C.

The perceived challenges facing alcohol treatment services in England: a qualitative study of service providers.

J Subst Use 2010; online early: doi:

10.3109/14659891003706399:

Piasecki TM, Robertson BM, Epler AJ.

Hangover and risk for alcohol use disorders: existing evidence and potential mechanisms.

Curr Drug Abuse Rev 2010; 3: 92-102.

Roberts J, Dollard D.

Alcohol levels do not accurately predict physical or mental impairment in ethanol-tolerant subjects: relevance to emergency medicine and dram shop laws.

J Med Toxicol 2010; 6: 438-42.

Rose AK, Winfield H, Jenner JH, Oyefeso A, Phillips TS, Deluca P, Perryman KA, Heriot-Maitland C, Galea S, Cheeta S, Saunders V, Drummond C.

National survey of alcohol treatment agencies in England: characteristics of treatment agencies.

J Subst Use 2010; online early: doi:

10.3109/14659891003721125:

Rufer F, Peters A, Klettner A, Treumer F, Roider J.

Influence of alcohol consumption on incidence and severity of open-globe eye injuries in adults.

Graefes Arch Clin Exp Ophthalmol 2010; online early: doi: 10.1007/s00417-010-1533-4:

Shi Y, Shen B, Xiang P, Yan H, Shen M.

Determination of ethyl glucuronide in hair samples of Chinese people by protein precipitation (PPT) and large volume injection-gas chromatography-tandem mass spectrometry (LVI-GC/MS/MS).

J Chromatogr B Analyt Technol Biomed Life Sci 2010; 878: 3161-6.

Stephens R, Verster JC.

The importance of raising the profile of alcohol hangover research.

Curr Drug Abuse Rev 2010; 3: 64-7.

Verster JC, Penning R.

Treatment and prevention of alcohol hangover.

Curr Drug Abuse Rev 2010; 3: 103-9.

Aminophenylbutyric acid

Magsalin RMM, Khan AY.

Withdrawal symptoms after internet purchase of phenibut (beta-phenyl-aminobutyric acid HCl).

J Clin Psychopharmacol 2010; 30: 648-9.

Asbestos

Maeda M, Nishimura Y, Kumagai N, Hayashi H, Hatayama T, Katoh M, Miyahara N, Yamamoto S, Hirastuka J, Otsuki T.

Dysregulation of the immune system caused by silica and asbestos.

J Immunotoxicol 2010; 7: 268-78.

Bisphenol A

Clayton EM, Todd M, Dowd JB, Aiello AE.

The impact of bisphenol A and triclosan on immune parameters in the US population, NHANES 2003-2006.

Environ Health Perspect 2010; online early: doi:

10.1289/ehp.1002883:

Bitumen

Olsson A, Kromhout H, Agostini M, Hansen J, Lassen CF, Johansen C, Kjaerheim K, Langard S, Stucker I, Ahrens W, Behrens T, Lindbohm M-L, Heikkila P, Heederik D, Portengen L, Shaham J, Ferro G, De Vocht F, Burstyn I, Boffetta P.

A case-control study of lung cancer nested in a cohort of European asphalt workers.

Environ Health Perspect 2010; 118: 1418-24.

Brominated diphenyl ethers

Birnbaum LS, Bergman Å.

Brominated and chlorinated flame retardants: the San Antonio Statement.

Environ Health Perspect 2010; 118: A514-A515.

Chevrier J, Harley KG, Bradman A, Eskenazi B, Gharbi M.

PBDE flame retardants and thyroid hormones: Chevrier et al. respond.

Environ Health Perspect 2010; 118: a520-a521.

DiGangi J, Blum A, Bergman Å, de Wit CA, Lucas D, Mortimer D, Schecter A, Scheringer M, Shaw SD, Webster TF.

San Antonio statement on brominated and chlorinated flame retardants.

Environ Health Perspect 2010; 118: A516-A518.

Goodman JE, Kerper LE, Johnson GT, Harbison RD, Cordero R, Lee RV, Pulde MF, Hardy M, Stedford T.

PBDE flame retardants and thyroid hormones during pregnancy.

Environ Health Perspect 2010; 118: a520.

Butadiene

Albertini RJ, Carson ML, Kirman CR, Gargas ML.

1,3-Butadiene: II. Genotoxicity profile.

Crit Rev Toxicol 2010; 40: 12-73.

Kirman CR, Albertini RJ, Sweeney LM, Gargas ML.

1,3-Butadiene: I. Review of metabolism and the implications to human health risk assessment.

Crit Rev Toxicol 2010; 40: 1-11.

Kirman CR, Albertini RA, Gargas ML.

1,3-Butadiene: III. Assessing carcinogenic modes of action.

Crit Rev Toxicol 2010; 40: 74-92.

Calcium cyanide

Nogue-Xarau S, Duenas-Laita A, Burillo-Putze G.

Abuso mortal de cianamida calcica y alcohol etilico: ¿Ausencia de antidoto? [Fatal calcium cyanide and ethyl alcohol abuse: is there an antidote?] In Spanish.

Med Clin (Barc) 2010; 135: 479.

Chlorine

Hoyle GW, Chang W, Chen J, Schlueter CF, Rando RJ. Deviations from Haber's Law for multiple measures of acute lung injury in chlorine-exposed mice. *Toxicol Sci* 2010; 118: 696-703.

Copper sulphate

Beasley MG, Slaughter RJ, Schep LJ. Copper sulfate toxicity: young teenagers identified as a significant risk group. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. *Clin Toxicol* 2010; 48: 642.

Cosmetics

Antignac E, Nohynek GJ, Re T, Clouzeau J, Toutain H. Safety of botanical ingredients in personal care products/cosmetics. *Food Chem Toxicol* 2010; online early: doi:10.1016/j.fct.2010.11.022:

Benz MR, Lee SH, Kellner L, Dohlemann C, Berweck S. Hyperintense lesions in brain MRI after exposure to a mercuric chloride-containing skin whitening cream. *Eur J Pediatr* 2010; online early: doi; 10.1007/s00431-010-1333-1:

Chakera A, Lasserson D, Beck LH, Roberts ISD, Winearls CG. Membranous nephropathy after use of UK-manufactured skin creams containing mercury. *QJM* 2010; online early: doi:10.1093/qjmed/hcq209:

Ladizinski B, Mistry N, Kundu RV. Widespread use of toxic skin lightening compounds: medical and psychosocial aspects. *Dermatol Clin* 2011; 29: 111-23.

Quach T, Doan-Billing PA, Layefsky M, Nelson D, Nguyen KD, Okahara L, Tran AN, Von Behren J, Reynolds P. Cancer incidence in female cosmetologists and manicurists in California, 1988-2005. *Am J Epidemiol* 2010; 172: 691-9.

Witorsch RJ, Thomas JA. Personal care products and endocrine disruption: a critical review of the literature. *Crit Rev Toxicol* 2010; 40 Suppl 3: 1-30.

Cyanide

Fortin J-L, Waroux S, Giocanti JP, Capellier G, Ruttimann M, Kowalski J-J. Hydroxocobalamin for poisoning caused by ingestion of potassium cyanide: a case study. *J Emerg Med* 2010; 39: 320-4.

Holstege CP, Forrester JD, Borek HA, Lawrence DT. A case of cyanide poisoning and the use of arterial blood gas analysis to direct therapy. *Hosp Pract* 2010; 38: 69-74.

Youso SL, Rockwood GA, Lee JP, Logue BA. Determination of cyanide exposure by gas chromatography-mass spectrometry analysis of cyanide-exposed plasma proteins. *Anal Chim Acta* 2010; 677: 24-8.

Diethylene glycol

Alkahtani S, Sammons H, Choonara I. Epidemics of acute renal failure in children (diethylene glycol toxicity). *Arch Dis Child* 2010; online early:doi 0.1136/adc.2010.183392:

Oshikoya KA, Senbanjo IO. Medicine turned poison for children in Nigeria. *West Afr J Med* 2010; 29: 278-9.

Schier JG, Barr DB, Li Z, Wolkin AF, Baker SE, Lewis LS, McGeehin MA.

Diethylene glycol in health products sold over-the-counter and imported from Asian countries.

J Med Toxicol 2010; online early: doi: 10.1007/s13181-010-0111-9:

Dioxins

Chang JW, Ou HY, Chen HL, Guo HR, Liao PC, Lee CC. Interrelationship between exposure to PCDD/Fs and hypertension in metabolic syndrome in Taiwanese living near a highly contaminated area.

Chemosphere 2010; 81: 1027-32.

Cohen JT, Gray GM.

Dioxin toxicity.

Risk Anal 2010; 30: 1457-8.

Megarbane B.

L'affaire Yushchenko ou l'histoire d'un empoisonnement ayant permis de déchiffrer un mécanisme de protection contre un célibré toxique. [Yushchenko affair: a poisoning allowing the assessment of a protective mechanism against a famous toxicant]. In French with English abstract.

Reanimation 2010; 19: 597-600.

Ethylene glycol

Benemanskii VV, Solodun IV, Iushkov GG, Bun MM, Piskareva TA. [Comparative morphological characteristics of changes in the liver in case of poisoning with alcohol-containing liquids in human and following subacute treatment of animals with ethyl and propyl alcohols, ethylene glycol and their mixtures]. In Russian with English abstract.

Sud Med Ekspert 2010; 53: 14-6.

Corley RA, Saghir SA, Bartels MJ, Hansen SC, Creim J, McMartin KE, Snellings WM.

Extension of a PBPK model for ethylene glycol and glycolic acid to include the competitive formation and clearance of metabolites associated with kidney toxicity in rats and humans.

Toxicol Appl Pharmacol 2010; online early: doi: 10.1016/j.taap.2010.10.011:

Lugassy DM, Jang DH, Smith SW, Manini AF, Hoffman RS.

Effect of glycolate on measured lactate using three analyzers. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. *Clin Toxicol* 2010; 48: 619.

Todd LE, Caravati EM, Crouch BI, Roper WJ.

Epidemiology of ethylene glycol poisoning and treatment trends reported to US poison centers 2000-2007. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.

Clin Toxicol 2010; 48: 659.

Ethylene glycol ethers

Ruiz P, Mumtaz M, Gombard V.

Assessing the toxic effects of ethylene glycol ethers using quantitative structure toxicity relationship models.

Toxicol Appl Pharmacol 2010; online early: doi: 10.1016/j.taap.2010.10.024:

Ethylene glycol monomethyl ether

Takei M, Ando Y, Saitoh W, Tanimoto T, Kiyosawa N, Manabe S, Sanbuissho A, Okazaki O, Iwabuchi H, Yamoto T, Adam K-P, Weiel JE, Ryals JA, Milburn MV, Guo L.
Ethylene glycol monomethyl ether-induced toxicity is mediated through the inhibition of flavoprotein dehydrogenase enzyme family.
Toxicol Sci 2010; 118: 643-52.

Explosives

Ahishali E, Boynuegri B, Dabak R, Dolapcioglu C, Uygur Bayramicli O.
A case of severe acute hepatitis due to oral intake of firecrackers.
Turk J Gastroenterol 2010; 21: 325-6.

Fertilizers

Melkonian S, Argos M, Pierce BL, Chen Y, Islam T, Ahmed A, Syed EH, Parvez F, Graziano J, Rathouz PJ, Ahsan H.
A prospective study of the synergistic effects of arsenic exposure and smoking, sun exposure, fertilizer use, and pesticide use on risk of premalignant skin lesions in Bangladeshi men.
Am J Epidemiol 2010; online early: doi: 10.1093/aje/kwq357:

Fluoride

Chouhan S, Flora SJ.
Arsenic and fluoride: two major ground water pollutants.
Indian J Exp Biol 2010; 48: 666-78.

Pandey A.
Prevalence of fluorosis in an endemic village in central India.
Trop Doct 2010; 40: 217-9.

Foreign bodies

Jankowske M, Mailloux P, Przyborowski M.
A 58-year-old woman with an unusual cause of respiratory failure.
Internet J Pulm Med 2010; 12:

Formaldehyde

Cole P, Adami HO, Trichopoulos D, Mandel JS.
Re: Mortality from lymphohematopoietic malignancies and brain cancer among embalmers exposed to formaldehyde.
J Natl Cancer Inst 2010; 102: 1518-9.

Hauptmann M, Stewart PA, Lubin JH, Beane Freeman LE, Hornung RW, Herrick RF, Hoover RN, Fraumeni JF, Blair A, Hayes RB.
Re: Mortality from lymphohematopoietic malignancies and brain cancer among embalmers exposed to formaldehyde - response.
J Natl Cancer Inst 2010; 102: 1519-20.

Kastner PE, Casset A, Pons F.
Formaldehyde interferes with airway epithelium integrity and functions in a dose- and time-dependent manner.
Toxicol Lett 2010; online early: doi: 10.1016/j.toxlet.2010.11.003:

Gold sodium thiosulphate

Giorgini S, Tognetti L, Zanieri F, Lotti T.
Occupational airborne allergic contact dermatitis caused by gold.
Dermatitis 2010; 21: 284-7.

Hexamethylene diisocyanate

Flack SL, Ball LM, Nylander-French LA.
Occupational exposure to HDI: progress and challenges in biomarker analysis.
J Chromatogr B Analyt Technol Biomed Life Sci 2010; 878: 2635-42.

Honey

Eller P, Hochegger K.
Honey intoxication and the Bezold-Jarisch reflex.
Int J Cardiol 2010; 144: 251.

Household products

Amigo Tadin M, Nogue Xarau S.
[Accidents in the home acute intoxication by household products]. In Spanish with English abstract.
Rev Enferm 2010; 33: 29-7.

Hydrofluoric acid

Wu M-L, Deng J-F, Fan J-S.
Survival after hypocalcemia, hypomagnesemia, hypokalemia and cardiac arrest following mild hydrofluoric acid burn.
Clin Toxicol 2010; 48: 953-5.

Hydrogen sulphide

Guidotti TL.
Hydrogen sulfide: advances in understanding human toxicity.
Int J Toxicol 2010; online early: doi: 10.1177/1091581810384882:

Singh A.
Strange cases of hydrogen sulphide poisoning: case report with review on effects of H₂S and precautions.
Med Leg Update 2010; 10: 3-4.

Metal oxides

Cho WS, Duffin R, Poland CA, Howie SEM, MacNee W, Bradley M, Megson IL, Donaldson K.
Metal oxide nanoparticles induce unique inflammatory footprints in the lung: important implications for nanoparticle testing.
Environ Health Perspect 2010; 118: 1699-706.

Metalworking fluids

Field S, O'Sullivan C, Bourke JF.
Allergic contact dermatitis from N,N-methylenebis(morpholine) in a cutting oil.
Dermatitis 2010; 21: 292-3.

Methanol

Esfandbod M, Malekpour M.
Adult male with loss of consciousness.
Ann Emerg Med 2010; 56: 438.

Methyl isocyanate

Desikan P.
25 years after the Bhopal gas tragedy.
Natl Med J India 2010; 23: 56-7.

Nanoparticles

Canady RA.
The uncertainty of nanotoxicology: report of a society for risk analysis workshop.
Risk Anal 2010; 30: 1663-70.

Card JW, Jonaitis TS, Tafazoli S, Magnuson BA.
An appraisal of the published literature on the safety and toxicity of food-related nanomaterials.
Crit Rev Toxicol 2010; online early: doi: 10.3109/10408444.2010.524636:

Cho WS, Duffin R, Poland CA, Howie SEM, MacNee W, Bradley M, Megson IL, Donaldson K.
Metal oxide nanoparticles induce unique inflammatory footprints in the lung: important implications for nanoparticle testing.
Environ Health Perspect 2010; 118: 1699-706.

Kagan VE, Shi J, Feng W, Shvedova AA, Fadeel B.
Fantastic voyage and opportunities of engineered nanomaterials: what are the potential risks of occupational exposures?
J Occup Environ Med 2010; 52: 943-6.

Nanoparticles

Li JJ, Muralikrishnan S, Ng C-T, Yung L-Y, Bay B-H. Nanoparticle-induced pulmonary toxicity. *Exp Biol Med* 2010; 235: 1025-33.

Mocan T, Clichici S, Agoston-Coldea L, Mocan L, Simon S, Ilie IR, Biris AR, Muresan A. Implications of oxidative stress mechanisms in toxicity of nanoparticles. *Acta Physiol Hung* 2010; 97: 247-55.

Nitrates

Nituc E, Nastase V, Mihailescu G, Chioveanu D. Researches of the nitrates and nitrites in some well waters from rural area in correlation with methemoglobinemia morbidity. *Rev Med Chir Soc Med Nat Iasi* 2010; 114: 580-6.

Stoicescu RM. Nitrate-contaminated groundwater. an important infant health problem in rural Constanta. *Arch Balk Med Union* 2010; 45: 25-8.

Nitrites

Nituc E, Nastase V, Mihailescu G, Chioveanu D. Researches of the nitrates and nitrites in some well waters from rural area in correlation with methemoglobinemia morbidity. *Rev Med Chir Soc Med Nat Iasi* 2010; 114: 580-6.

Perfluoroalkyl derivatives

Benton M, Hinton RH, Price SC, Howarth JA. Subacute toxicity of mixtures containing perfluorocarboxylic acids and related "peroxisome proliferators". Highlights of the 2010 Annual Congress of the British Toxicology Society. Includes the abstracts of the British Toxicology Society, Spring 2010. *Toxicology* 2010; 278: 375-6.

Freberg BI, Haug LS, Olsen R, Daae HL, Hersson M, Thomsen C, Thorud S, Becher G, Molander P, Ellingsen DG. Occupational exposure to airborne perfluorinated compounds during professional ski waxing. *Environ Sci Technol* 2010; 44: 7723-8.

Hoffman K, Webster TF, Weisskopf MG, Weinberg J, Vieira VM. Exposure to polyfluoroalkyl chemicals and attention deficit/hyperactivity disorder in U.S. children 1215 years of age. *Environ Health Perspect* 2010; 118: 1762-7.

Petrol (gasoline)

Kane EV, Newton R. Occupational exposure to gasoline and the risk of non-Hodgkin lymphoma: a review and meta-analysis of the literature. *Cancer Epidemiol* 2010; 34: 516-22.

Petroleum oils

Merhi ZO. Gulf Coast oil disaster: impact on human reproduction. *Fertil Steril* 2010; 94: 1575-7.

Woodward C. Gulf oil spill exposes gaps in public health knowledge. *Can Med Assoc J* 2010; 182: 1290-2.

Phenol

Zambito Marsala S. HyperCKemia after phenol intoxication. *Neurol Sci* 2010; 31: 527-8.

Phthalate esters

Preau JL, Wong LY, Silva MJ, Needham LL, Calafat AM. Variability over 1 week in the urinary concentrations of metabolites of diethyl phthalate and di(2-ethylhexyl) phthalate among eight adults: an observational study. *Environ Health Perspect* 2010; 118: 1748-54.

Polychlorinated biphenyls

Bosch de Basea M, Porta M, Alguacil J, Puigdomènech E, Gasull M, Garrido JA, López T. Relationships between occupational history and serum concentrations of organochlorine compounds in exocrine pancreatic cancer. *Occup Environ Med* 2010; online early: doi: 10.1136/oem.2009.054197:

Cave M, Appana S, Patel M, Falkner KC, McClain CJ, Brock G. Polychlorinated biphenyls, lead, and mercury are associated with liver disease in American adults: NHANES 2003–2004. *Environ Health Perspect* 2010; 118: 1735-42.

Eubig PA, Aguiar A, Schantz SL. Lead and PCBs as risk factors for attention deficit/hyperactivity disorder. *Environ Health Perspect* 2010; 118: 1654-67.

Polycyclic aromatic hydrocarbons

Friesen MC, Demers PA, Spinelli JJ, Eisen EA, Lorenzi MF, Le ND. Chronic and acute effects of coal tar pitch exposure and cardiopulmonary mortality among aluminum smelter workers. *Am J Epidemiol* 2010; 172: 790-9.

Sheng L, Ding X, Ferguson M, McCallister M, Rhoades R, Maguire M, Ramesh A, Aschner M, Campbell D, Levitt P, Hood DB. Prenatal polycyclic aromatic hydrocarbon exposure leads to behavioral deficits and downregulation of receptor tyrosine kinase, MET. *Toxicol Sci* 2010; 118: 625-34.

Polyvinyl chloride

Salles JC, Deschamps FJ. Allergic contact dermatitis due to a PVC table cover. *Occup Med (Oxf)* 2010; 60: 662-4.

Potassium chloride

John SK, Rangan Y, Block CA, Koff MD. Life-threatening hyperkalemia from nutritional supplements: uncommon or undiagnosed? *Am J Emerg Med* 2010; online early: doi: 10.1016/j.ajem.2010.08.029:

Propanol

Benemanskii VV, Solodun IV, Iushkov GG, Bun MM, Piskareva TA. [Comparative morphological characteristics of changes in the liver in case of poisoning with alcohol-containing liquids in human and following subacute treatment of animals with ethyl and propyl alcohols, ethylene glycol and their mixtures]. In Russian with English abstract. *Sud Med Ekspert* 2010; 53: 14-6.

Silica

Maeda M, Nishimura Y, Kumagai N, Hayashi H, Hatayama T, Katoh M, Miyahara N, Yamamoto S, Hirastuka J, Otsuki T. Dysregulation of the immune system caused by silica and asbestos. *J Immunotoxicol* 2010; 7: 268-78.

Sodium azide

Francis D, Warren SA, Warner KJ, Harris W, Copass MK, Bulger EM. Sodium azide-associated laryngospasm after air bag deployment. *J Emerg Med* 2010; 39: e113-e115.

Sodium nitrite

Harvey M, Cave G, Chanwai G.
Fatal methaemoglobinemia induced by self-poisoning with sodium nitrite.
Emerg Med Australas 2010; 22: 463-5.

Styrene

Hanova M, Stetina R, Vodickova L, Vaclavikova R, Hlavac P, Smerhovsky Z, Naccarati A, Polakova V, Soucek P, Kuricova M, Manini P, Kumar R, Hemminki K, Vodicka P.
Modulation of DNA repair capacity and mRNA expression levels of XRCC1, hOGG1 and XPC genes in styrene-exposed workers.
Toxicol Appl Pharmacol 2010; 248: 194-200.

Triclosan

Clayton EM, Todd M, Dowd JB, Aiello AE.
The impact of bisphenol A and triclosan on immune parameters in the US population, NHANES 2003-2006.
Environ Health Perspect 2010; online early: doi: 10.1289/ehp.1002883:

METALS

Arsenic

Argos M, Pierce BL, van Geen A, Graziano J, Ahsan H.
Arsenic exposure from drinking water and mortality in Bangladesh - authors' reply.
Lancet 2010; 376: 1642.

Chouhan S, Flora SJ.
Arsenic and fluoride: two major ground water pollutants.
Indian J Exp Biol 2010; 48: 666-78.

Gardner RM, Nermell B, Kippler M, Grandér M, Li L, Ekström EC, Rahman A, Lönnerdal B, Hoque AMW, Vahter M.
Arsenic methylation efficiency increases during the first trimester of pregnancy independent of folate status.
Reprod Toxicol 2010; online early: doi: 10.1016/j.reprotox.2010.11.002:

Gollogly JG, Gascoigne AC, Holmes C, Kamp EM, Jenni K, Bon Vath S.
Arsenic and amputations in Cambodia.
Asian Biomed 2010; 4: 469-74.

Karim MR, Salam KA, Hossain E, Islam K, Ali N, Haque A, Saud ZA, Yeasmin T, Hossain M, Miyataka H, Himeno S, Hossain K.
Interaction between chronic arsenic exposure via drinking water and plasma lactate dehydrogenase activity.
Sci Total Environ 2010; online early: doi: 10.1016/j.scitotenv.2010.10.001:

Mazumdar S, Mukherjee P, Gowsami S, Saha B, Ahmed A, Mukhopadhyay J.
Arsenicosis: unusual neurological presentation from West Bengal.
J Assoc Physicians India 2010; 58: 201.

Melkonian S, Argos M, Pierce BL, Chen Y, Islam T, Ahmed A, Syed EH, Parvez F, Graziano J, Rathouz PJ, Ahsan H.
A prospective study of the synergistic effects of arsenic exposure and smoking, sun exposure, fertilizer use, and pesticide use on risk of premalignant skin lesions in Bangladeshi men.
Am J Epidemiol 2010; online early: doi: 10.1093/aje/kwq357:

Román DA, Pizarro I, Rivera L, Cámara C, Palacios MA, Gómez MM, Solar C.
An approach to the arsenic status in cardiovascular tissues of patients with coronary heart disease.
Hum Exp Toxicol 2010; online early: doi: 10.1177/0960327110389835:

Tan SN, Yong JWH, Ng YF.
Arsenic exposure from drinking water and mortality in Bangladesh.
Lancet 2010; 376: 1641-2.

Tokar EJ, Qu W, Waalkes MP.
Arsenic, stem cells and the developmental basis of adult cancer.
Toxicol Sci 2010; online early: doi: 10.1093/toxsci/kfq342:

Vahter M, Sohel N, Streatfield K, Persson L.
Arsenic exposure from drinking water and mortality in Bangladesh.
Lancet 2010; 376: 1641.

Young B, Lopez G, Geller R.
Sudden bovine deaths in a farming community: state public health and a regional poison center looking for answers. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 638-9.

Cadmium

Betts KS.
Do metals meddle with puberty in girls? Lead, cadmium, and altered hormone levels.
Environ Health Perspect 2010; online early: doi: 10.1289/ehp.118-a542b:

Gallagher CM, Meliker JR.
Blood and urine cadmium, blood pressure, and hypertension: a systematic review and meta-analysis.
Environ Health Perspect 2010; 118: 1676-84.

Ragunathan N, Dairou J, Sanfins E, Busi F, Noll C, Janel N, Dupret JM, Rodrigues-Lima F.
Cadmium alters the biotransformation of carcinogenic aromatic amines by arylamine *N*-acetyltransferase xenobiotic-metabolizing enzymes: molecular, cellular, and *in vivo* studies.
Environ Health Perspect 2010; 118: 1685-91.

Swaddiwudhipong W, Mahasakpan P, Funkhiew T, Limpatanachote P.
Changes in cadmium exposure among persons living in cadmium-contaminated areas in Northwestern Thailand: a five-year follow-up.
J Med Assoc Thai 2010; 93: 1217-22.

Chromium

Broadway A, Cave MR, Wragg J, Fordyce FM, Bewley RJ, Graham MC, Ngwenya BT, Farmer JG.
Determination of the bioaccessibility of chromium in Glasgow soil and the implications for human health risk assessment.
Sci Total Environ 2010; online early: doi: 10.1016/j.scitotenv.2010.09.007:

Collins BJ, Stout MD, Levine KE, Kissling GE, Melnick RL, Fennell TR, Walden R, Abdo K, Pritchard JB, Fernando RA, Burka LT, Hooth MJ.
Exposure to hexavalent chromium resulted in significantly higher tissue chromium burden compared with trivalent chromium following similar oral doses to male F344/N rats and female B6C3F1 mice.
Toxicol Sci 2010; 118: 368-79.

Soudani N, Sefi M, Bouaziz H, Chtourou Y, Boudawara T, Zeghal N.
Nephrotoxicity induced by chromium (VI) in adult rats and their progeny.
Hum Exp Toxicol 2010; online early: doi: 10.1177/0960327110387454:

Wang H-J, Du X-M, Wang M, Wang T-C, Ou-Yang H, Wang B, Zhu M-T, Wang Y, Jia G, Feng W-Y.
Using ion-pair reversed-phase HPLC ICP-MS to simultaneously determine Cr(III) and Cr(VI) in urine of chromate workers.
Talanta 2010; 81: 1856-60.

Gold

Giorgini S, Tognetti L, Zanieri F, Lotti T.
Occupational airborne allergic contact dermatitis caused by gold.
Dermatitis 2010; 21: 284-7.

Heavy metals

Gulati K, Banerjee B, Lall SB, Ray A.
Effects of diesel exhaust, heavy metals and pesticides on various organ systems: possible mechanisms and strategies for prevention and treatment.
Indian J Exp Biol 2010; 48: 710-21.

Sabbar M, Salhi D, Bouhaddou N, Cooper HM, Bennazouz A, Lakhdar-Ghazal N.
Effects of heavy metal intoxication on circadian rhythms and basal ganglia.
J Sleep Res 2010; 19: 7.

Wang Z, Chai L, Yang Z, Wang Y, Wang H.
Identifying sources and assessing potential risk of heavy metals in soils from direct exposure to children in a mine-impacted city, Changsha, China.
J Environ Qual 2010; 39: 1616-23.

Indium

Lison D, Delos M.
Pulmonary alveolar proteinosis in workers at an indium processing facility.
Am J Respir Crit Care Med 2010; 182: 578-9.

Iron

Lintner CP, Kwon SK, Stellpflug SJ, Cole JB.
Heating pad ingestion with significant iron level elevation. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 623.

Lead

Basha R, Reddy GR.
Developmental exposure to lead and late life abnormalities of nervous system.
Indian J Exp Biol 2010; 48: 636-41.

Betts KS.
Do metals meddle with puberty in girls? Lead, cadmium, and altered hormone levels.
Environ Health Perspect 2010; online early: doi: 10.1289/ehp.118-a542b:

Cantonwine D, Hu H, Sánchez BN, Lamadrid-Figueroa H, Smith D, Ettinger AS, Mercado-García A, Hernández-Avila M, Wright RO, Téllez-Rojo MM.
Critical windows of fetal lead exposure: adverse impacts on length of gestation and risk of premature delivery.
J Occup Environ Med 2010; 52: 1106-11.

Cave M, Appana S, Patel M, Falkner KC, McClain CJ, Brock G.
Polychlorinated biphenyls, lead, and mercury are associated with liver disease in American adults: NHANES 2003–2004.
Environ Health Perspect 2010; 118: 1735-42.

Eisenberg KW, van Wijngaarden E, Fisher SG, Korfmacher KS, Campbell JR, Fernandez ID, Cochran J, Geltman PL.
Blood lead levels of refugee children resettled in Massachusetts, 2000 to 2007.
Am J Public Health 2010; online early: doi: 10.2105/AJPH.2009.184408:

El Kettani S, Khassouani CE, Fennich W, Azzouzi EM, Achab B, Mauras Y.

Evaluation de l'impregnation au plomb d'une population rurale utilisant les eaux usées à des fins agricoles dans la région de Settat au Maroc. [Evaluation of the lead burden of a rural population that uses wastewater for agricultural purposes in the region of Settat, Morocco]. In French with English abstract.
Envir Risques Sante 2010; 9: 419-27.

Eubig PA, Aguiar A, Schantz SL.
Lead and PCBs as risk factors for attention deficit/hyperactivity disorder.
Environ Health Perspect 2010; 118: 1654-67.

Gundacker C, Frohlich S, Graf-Rohrmeister K, Eibenberger B, Jessenig V, Gicic D, Prinz S, Wittmann KJ, Zeisler H, Vallant B, Pollak A, Husslein P.
Perinatal lead and mercury exposure in Austria.
Sci Total Environ 2010; 408: 5744-9.

Kim Y, Cho S-C, Kim B-N, Hong Y-C, Shin M-S, Yoo H-J, Kim J-W, Bhang S-Y.
Association between blood lead levels (<5 mug/dL) and inattention-hyperactivity and neurocognitive profiles in school-aged Korean children.
Sci Total Environ 2010; 408: 5737-43.

Koyashiki GA, Paoliello MM, Tchounwou PB.
Lead levels in human milk and children's health risk: a systematic review.
Rev Environ Health 2010; 25: 243-53.

Proue M, Jones-Webb R, Oberg C.
Blood lead screening among newly arrived refugees in Minnesota.
Minn Med 2010; 93: 42-6.

Raviraja A, Vishal Babu GN, Sehgal A, Saper RB, Jayawardene I, Amarasiriwardena CJ, Venkatesh T.
Three cases of lead toxicity associated with consumption of Ayurvedic medicines.
Indian J Clin Biochem 2010; 25: 326-9.

Lithium

Lloyd RB, Perkins RE, Schwartz AC.
Choreoathetosis in the setting of lithium toxicity.
Psychosomatics 2010; 51: 529-31.

Manganese

Chang Y, Lee J-J, Seo J-H, Song H-J, Kim J-H, Bae S-J, Ahn J-H, Park S-J, Jeong KS, Kwon YJ, Kim SH, Kim Y.
Altered working memory process in the manganese-exposed brain.
Neuroimage 2010; 53: 1279-85.

Herrero Hernandez E, Davari A, Discalzi G.
Occupational manganese: from diagnosis to treatment. 14th Congress of the European Federation of Neurological Societies, EFNS Geneva Switzerland. 25-28 September 2010.
Eur J Neurol 2010; 17 Suppl 3: 633.

Mercury

Benz MR, Lee SH, Kellner L, Dohlemann C, Berweck S.
Hyperintense lesions in brain MRI after exposure to a mercuric chloride-containing skin whitening cream.
Eur J Pediatr 2010; online early: doi: 10.1007/s00431-010-1333-1:

Cave M, Appana S, Patel M, Falkner KC, McClain CJ, Brock G.
Polychlorinated biphenyls, lead, and mercury are associated with liver disease in American adults: NHANES 2003–2004.
Environ Health Perspect 2010; 118: 1735-42.

Mercury

Chakera A, Lasserson D, Beck LH, Roberts ISD, Winearls CG. Membranous nephropathy after use of UK-manufactured skin creams containing mercury. *QJM* 2010; online early: doi:10.1093/qjmed/hcq209:

de Oliveira MT, Pereira JR, Ghizoni JS, Bittencourt ST, Molina GO. Effects from exposure to dental amalgam on systemic mercury levels in patients and dental school students. *Photomed Laser Surg* 2010; 28 Suppl 2: S111-S114.

Eto K, Marumoto M, Takeya M. The pathology of methylmercury poisoning (Minamata disease): the 50th Anniversary of Japanese Society of Neuropathology. *Neuropathology* 2010; 30: 471-9.

French LK, Hendrickson RG, Horowitz BZ. Pink disease: fading but hopefully not forgotten. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA. *Clin Toxicol* 2010; 48: 625.

Gundacker C, Frohlich S, Graf-Rohrmeister K, Eibenberger B, Jessenig V, Gicic D, Prinz S, Wittmann KJ, Zeisler H, Vallant B, Pollak A, Husslein P. Perinatal lead and mercury exposure in Austria. *Sci Total Environ* 2010; 408: 5744-9.

Halbach S, Welzl G. Levels of organic and inorganic mercury in human blood predicted from measurements of total mercury. *J Appl Toxicol* 2010; 30: 674-9.

Lubick N. Mercury alters immune system response in artisanal gold miners. *Environ Health Perspect* 2010; 118: A243.

Paruchuri Y, Siuniak A, Johnson N, Levin E, Mitchell K, Goodrich JM, Renne EP, Basu N. Occupational and environmental mercury exposure among small-scale gold miners in the Talensi-Nabdam district of Ghana's upper east region. *Sci Total Environ* 2010; 408: 6079-85.

Skoczynska A, Jedrejko M, Martynowicz H, Poreba R, Affelska-Jercha A, Steinmetz-Beck A, Turczyn B, Wojakowska A, Jedrychowska I. Ryzko sercowo-naczyniowe u narazonych na dzialanie par rteci pracownikow zakladow chemicznych. [The cardiovascular risk in chemical factory workers exposed to mercury vapor]. In Polish with English abstract. *Med Pr* 2010; 61: 381-91.

Tan A, Neo WT, Phua J. An element of surprise. Mercury poisoning. *Am J Med* 2010; 123: 910-2.

Silver

Chung I-S, Lee M-Y, Shin D-H, Jung H-R. Three systemic argyria cases after ingestion of colloidal silver solution. *Int J Dermatol* 2010; 49: 1175-7.

Thallium

Steube D, Leineweber B. Thalliumintoxikation - Eine seltene, aber bedeutsame Differentialdiagnose der Polyneuropathie. [Thallium poisoning - a seldom, but significant differentiated diagnosis in polyneuropathy]. In German with English abstract. *Neurol Rehabil* 2010; 16: 204-6.

Uranium

Kehagia K, Bratakos S, Kolovou M, Potiriadis C. Hair analysis as an indicator of exposure to uranium. *Radiat Prot Dosimetry* 2010; online early: doi: 10.1093/rpd/ncq324:

PESTICIDES

General

Anon. Pesticides banned in Europe. *Pestic News* 2010; 89: 18-22.

Baldi I, Gruber A, Rondeau V, Lebailly P, Brochard P, Fabrigoule C. Neurobehavioral effects of long-term exposure to pesticides: results from the 4-year follow-up of the PHYTONER study. *Occup Environ Med* 2010; online early: doi: 10.1136/oem.2009.047811:

Balme KH, Roberts JC, Glasstone M, Curling L, Rother HA, London L, Zar H, Mann MD. Pesticide poisonings at a tertiary children's hospital in South Africa: an increasing problem. *Clin Toxicol* 2010; 48: 928-34.

Corriols M. Pesticide poisoning in Nicaragua - five decades of evidence. *Pestic News* 2010; 89: 3-6.

Dawson AH, Eddleston M, Senarathna L, Mohamed F, Gawarammana I, Bowe SJ, Manuweera G, Buckley NA. Acute human lethal toxicity of agricultural pesticides: a prospective cohort study. *PLoS Med* 2010; 7: e1000357.

Eddleston M, Bateman DN. Major reductions in global suicide numbers can be made rapidly through pesticide regulation without the need for psychosocial interventions. *Soc Sci Med* 2010; online early: doi: 10.1016/j.socscimed.2010.10.013:

Gonzalez-Andrade F, Lopez-Pulles R, Estevez E. Acute pesticide poisoning in Ecuador: a short epidemiological report. *J Public Health (UK)* 2010; 18: 437-42.

Gulati K, Banerjee B, Lall SB, Ray A. Effects of diesel exhaust, heavy metals and pesticides on various organ systems: possible mechanisms and strategies for prevention and treatment. *Indian J Exp Biol* 2010; 48: 710-21.

Jaiprakash H, Sarala N, Venkatarathnamma PN, Kumar TN. Analysis of different types of poisoning in a tertiary care hospital in rural south India. *Food Chem Toxicol* 2010; online early: doi: 10.1016/j.fct.2010.10.026:

Melkonian S, Argos M, Pierce BL, Chen Y, Islam T, Ahmed A, Syed EH, Parvez F, Graziano J, Rathouz PJ, Ahsan H. A prospective study of the synergistic effects of arsenic exposure and smoking, sun exposure, fertilizer use, and pesticide use on risk of premalignant skin lesions in Bangladeshi men. *Am J Epidemiol* 2010; online early: doi: 10.1093/aje/kwq357:

Nicolle-Mir L. Exposition aux pesticides et maladies de la thyroïde. [Exposure to pesticides and thyroid diseases]. In French with English abstract. *Envir Risques Sante* 2010; 9: 381-2.

Pesticides and cancer

Koutros S, Alavanja MCR, Lubin JH, Sandler DP, Hoppin JA, Lynch CF, Knott C, Blair A, Freeman LEB.

An update of cancer incidence in the agricultural health study. *J Occup Environ Med* 2010; 52: 1098-105.

Schmeisser N, Kaerlev L, Bourdon-Raverdy N, Ganry O, Llopis-Gonzalez A, Guenel P, Hardell L, Merletti F, Zambon P, Morales-Suarez-Varela M, Olsen J, Olsson H, Vyberg M, Ahrens W.

Occupational exposure to pesticides and bile tract carcinoma in men: results from a European multicenter case-control study. *Cancer Causes Control* 2010; 21: 1493-502.

Abamectin

Guo YF, Wang Y, Zhang JX.

[13 cases of abamectin poisoning]. In Chinese.

Zhonghua Lao Dong Wei Sheng Zhi Ye Bing Za Zhi 2010; 28: 472.

Aluminium phosphide

Mostafazadeh B, Pajoumand A, Farzaneh E, Aghabiklooei A, Rasouli MR.

Blood levels of methemoglobin in patients with aluminum phosphide poisoning and its correlation with patient's outcome. *J Med Toxicol* 2010; online early: doi:10.1007/s13181-010-0121-7:

Zariwala RC, Mehta TJ, Bhise RS.

A retrospective study of aluminium phosphide poisoning cases in Ahmadabad region.

Med Leg Update 2010; 10: 80-1.

Atrazine

Lin Z, Fisher JW, Ross MK, Filipov NM.

A physiologically based pharmacokinetic model for atrazine and its main metabolites in the adult male C57BL/6 mouse.

Toxicol Appl Pharmacol 2010; online early: doi: 10.1016/j.taap.2010.11.009:

Carbamate insecticides

General

Karami-Mohajeri S, Abdollahi M.

Toxic effects of organophosphate, carbamate, and organochlorine pesticides on cellular metabolism of lipids, proteins, and carbohydrates: a comprehensive review.

Hum Exp Toxicol 2010; online early: doi: 10.1177/0960327110388959:

Perez JJ, Williams MK, Weerasekera G, Smith K, Whyatt RM, Needham LL, Barr DB.

Measurement of pyrethroid, organophosphorus, and carbamate insecticides in human plasma using isotope dilution gas chromatography-high resolution mass spectrometry.

J Chromatogr B Analyt Technol Biomed Life Sci 2010; 878: 2554-62.

Chlorophenoxy herbicides

2,4-D

Azazh A.

Case series of 2,4-D poisoning in Tikur Anbessa Teaching Hospital.

Ethiop Med J 2010; 48: 243-6.

Ethylene dibromide

Nigam M, Godaria I, Varma A, Chaturvedi R.

Ethylene di-bromide (EDB) - an underestimated lethal pesticide and its emerging clinico-biochemical trends.

Med Leg Update 2010; 10: 38-41.

Fipronil

Perez JJ, Williams MK, Weerasekera G, Smith K, Whyatt RM, Needham LL, Barr DB.

Measurement of pyrethroid, organophosphorus, and carbamate insecticides in human plasma using isotope dilution gas chromatography-high resolution mass spectrometry.

J Chromatogr B Analyt Technol Biomed Life Sci 2010; 878: 2554-62.

Formaldehyde

Kastner PE, Casset A, Pons F.

Formaldehyde interferes with airway epithelium integrity and functions in a dose- and time-dependent manner.

Toxicol Lett 2010; online early: doi:

10.1016/j.toxlet.2010.11.003:

Organochlorine pesticides

General

Bosch de Basea M, Porta M, Alguacil J, Puigdomènech E, Gasull M, Garrido JA, López T.

Relationships between occupational history and serum concentrations of organochlorine compounds in exocrine pancreatic cancer.

Occup Environ Med 2010; online early: doi: 10.1136/oem.2009.054197:

Karami-Mohajeri S, Abdollahi M.

Toxic effects of organophosphate, carbamate, and organochlorine pesticides on cellular metabolism of lipids, proteins, and carbohydrates: a comprehensive review.

Hum Exp Toxicol 2010; online early: doi:

10.1177/0960327110388959:

Langer P.

The impacts of organochlorines and other persistent pollutants on thyroid and metabolic health.

Front Neuroendocrinol 2010; 31: 497-518.

Son H-K, Kim S-A, Kang J-H, Chang Y-S, Park S-K, Lee S-K, Jacobs DR, Jr., Lee D-H.

Strong associations between low-dose organochlorine pesticides and type 2 diabetes in Korea.

Environ Int 2010; 36: 410-4.

Organophosphorus insecticides

General

Bin WK, Shen YY, Huang ST.

[Evaluation of right ventricle function by tissue Doppler imaging in patients with acute organophosphate poisoning]. In Chinese with English abstract.

Zhonghua Yi Xue Za Zhi 2010; 90: 2052-5.

Bird SB, Dawson A, Ollis D.

Enzymes and bioscavengers for prophylaxis and treatment of organophosphate poisoning.

Front Biosci 2010; 2: 209-20.

Delgado M, Catalan I, Masclans J, Mas A.

Síndrome colinérgico y síndrome intermedio confluyentes en una intoxicación por organofosforados. [Simultaneous cholinergic and intermediate syndromes in organophosphate poisoning]. In Spanish.

Med Intensiva 2010; 34: 573.

Eskenazi B, Huen K, Marks A, Harley KG, Bradman A, Barr DB, Holland N.

PON1 and neurodevelopment in children from the CHAMACOS study exposed to organophosphate pesticides *in utero*.

Environ Health Perspect 2010; 118: 1775-81.

Organophosphorus insecticides, general

Husain K, Ansari RA, Ferder L.

Pharmacological agents in the prophylaxis/treatment of organophosphorus pesticide intoxication.

Indian J Exp Biol 2010; 48: 642-50.

Karami-Mohajeri S, Abdollahi M.

Toxic effects of organophosphate, carbamate, and organochlorine pesticides on cellular metabolism of lipids, proteins, and carbohydrates: a comprehensive review.

Hum Exp Toxicol 2010; online early: doi: 10.1177/0960327110388959:

Kumar R, Singh B, Gupta P, Singh J, Singh N, Mahajan A.

Intermediate syndrome due to organophosphate poisoning: report of two cases in a tertiary care hospital of Punjab.

Med Leg Update 2010; 10: 66-8.

Marks AR, Harley K, Bradman A, Kogut K, Barr DB, Johnson C, Calderon N, Eskenazi B.

Organophosphate pesticide exposure and attention in young Mexican-American children: the CHAMACOS study.

Environ Health Perspect 2010; 118: 1768-74.

Odetokun MS, Montesano MA, Weerasekera G, Whitehead RD, Needham LL, Barr DB.

Quantification of dialkylphosphate metabolites of organophosphorus insecticides in human urine using 96-well plate sample preparation and high-performance liquid chromatography-electrospray ionization-tandem mass spectrometry.

J Chromatogr B Analyt Technol Biomed Life Sci 2010; 878: 2567-74.

Perez JJ, Williams MK, Weerasekera G, Smith K, Whyatt RM, Needham LL, Barr DB.

Measurement of pyrethroid, organophosphorus, and carbamate insecticides in human plasma using isotope dilution gas chromatography-high resolution mass spectrometry.

J Chromatogr B Analyt Technol Biomed Life Sci 2010; 878: 2554-62.

Peter JV, Jerobin J, Nair A, Bennett A, Samuel P, Chrispal A, Abraham OC, Mathews KP, Fleming JJ, Oommen A.

Clinical profile and outcome of patients hospitalized with dimethyl and diethyl organophosphate poisoning.

Clin Toxicol 2010; 48: 916-23.

Rafati Rahimzadeh M, Moghadamnia AA.

[Organophosphorus compounds poisoning]. In Arabic.

J Babol Univ Med Sci 2010; 12: 71-85.

Singh S, Kumar V, Thakur S, Banerjee BD, Chandna S, Rautela RS, Grover SS, Rawat DS, Pasha ST, Jain SK, Ichhpujani RL, Rai A.

DNA damage and cholinesterase activity in occupational workers exposed to pesticides.

Environ Toxicol Pharmacol 2010; online early: doi: 10.1016/j.etap.2010.11.005:

Srinivasan KG, Praveen Kumar M, Ushanandhini KP, Ramprabananth S.

MRI eye-of-the-tiger sign in organophosphate poisoning: a case report.

Neuroradiology 2010; 23: 407-11.

Wu C, Liu P, Zheng L, Chen J, Zhou Z.

GC-FPD measurement of urinary dialkylphosphate metabolites of organophosphorus pesticides as pentafluorobenzyl derivatives in occupationally exposed workers and in a general population in Shanghai (China).

J Chromatogr B Analyt Technol Biomed Life Sci 2010; 878: 2575-81.

Diazoxon

Duysen EG, Parikh K, Aleti V, Manne V, Lockridge O, Chilukuri N.

Adenovirus-mediated human paraoxonase1 gene transfer to provide protection against the toxicity of the organophosphorus pesticide toxicant diazoxon.

Gene Ther 2010; online early: doi: 10.1038/gt.2010.136:

Dichlorvos

Binukumar BK, Gill KD.

Cellular and molecular mechanisms of dichlorvos neurotoxicity: cholinergic, noncholinergic, cell signaling, gene expression and therapeutic aspects.

Indian J Exp Biol 2010; 48: 697-709.

Leptophos

Jun D, Musilova L, Pohanka M, Jung Y-S, Bostik P, Kuca K.

Reactivation of human acetylcholinesterase and butyrylcholinesterase inhibited by leptophos-oxon with different oxime reactivators in vitro.

Int J Mol Sci 2010; 11: 2856-63.

Methamidophos

Gubert P, Avila DS, Bridi JC, Saurin S, Lugokenski TH, Villarinho JG, Fachinetto R, Pereira ME, Ferreira J, da Rocha JB, Soares FA.

Low concentrations of methamidophos do not alter AChE activity but modulate neurotransmitters uptake in hippocampus and striatum in vitro.

Life Sci 2010; online early: doi: 10.1016/j.lfs.2010.10.031:

Monocrotophos

Masoud A, Kiran R, Sandhir R.

Modulation of dopaminergic system and neurobehavioral functions in delayed neuropathy induced by organophosphates.

Toxicol Mech Methods 2010; online early: doi:

10.3109/15376516.2010.529182:

Paraquat and diquat

Whitehead RD, Montesano MA, Jayatilaka NK, Buckley B, Winnik B, Needham LL, Barr DB.

Method for measurement of the quaternary amine compounds paraquat and diquat in human urine using high-performance liquid chromatography-tandem mass spectrometry.

J Chromatogr B Analyt Technol Biomed Life Sci 2010; 878: 2548-53.

Pyrethroid insecticides

General

Perez JJ, Williams MK, Weerasekera G, Smith K, Whyatt RM, Needham LL, Barr DB.

Measurement of pyrethroid, organophosphorus, and carbamate insecticides in human plasma using isotope dilution gas chromatography-high resolution mass spectrometry.

J Chromatogr B Analyt Technol Biomed Life Sci 2010; 878: 2554-62.

Rodenticides

General

Berny P, Velardo J, Pulce C, D'Amico A, Kammerer M, Lasseur R.

Prevalence of anticoagulant rodenticide poisoning in humans and animals in France and substances involved.

Clin Toxicol 2010; 48: 935-41.

Chen XH, Dai BT, Yu J, Xu YH, Xian Y, Su YC, Xiao JW, Wen XH, Guan XM.

[Analysis of thirteen cases with secondary coagulation disorder caused by raticide exposure]. In Chinese with English abstract.

Zhonghua Er Ke Za Zhi 2010; 48: 629-32.

Chloralose

Kouraiichi N, Brahmī N, Elghord H, Beji O, Thabet H, Amamou M. Intoxication par le chloralose: facteurs pronostiques et prise en charge. [Chloralose poisoning: prognostic factors and management]. In French with English abstract. *Reanimation* 2010; 19: 581-6.

Flocoumafen

Boettcher S, Wacker A, Moerike K, Kopp HG, Jaschonek K, Grobosch T, Kanz L, Saliĥ HR. Acquired coagulopathy caused by intoxication with the superwarfarin-type anticoagulant rodenticide flocoumafen. *Eur J Haematol* 2010; online early: doi: 10.1111/j.1600-0609.2010.01550.x:

Tetramine

Hamelin E, Swaim L, Thomas J, Kobelski R, Johnson RC. Quantitation of tetramethylene disulfotetramine in human urine using isotope dilution gas chromatography mass spectrometry (GC/MS and GC/MS/MS). *J Chromatogr B Analyt Technol Biomed Life Sci* 2010; 878: 2541-7.

Triclopyr

Kyong YY, Lee KU, Choi KH. Severe systemic intoxication following triclopyr-TEA ingestion. *Clin Toxicol* 2010; 48: 942-4.

CHEMICAL WARFARE, BIOLOGICAL WARFARE AND RIOT CONTROL AGENTS

Chemical warfare

General

Belevitin AB, Grebeniuk AN, Musiichuk II, Sidorov DA. [Normative and legal aspects of medical support of the persons working with toxic chemicals relating to the chemical weapons]. In Russian. *Voen Med Zh* 2010; 331: 4-8.

Jones DR, Larner J, Price SC, Chilcott RP. Optimisation of mass casualty decontamination procedures in vitro. Highlights of the 2010 Annual Congress of the British Toxicology Society. Includes the abstracts of the British Toxicology Society, Spring 2010. *Toxicology* 2010; 278: 363-4.

Larner J, Jones DR, Price SC, Chilcott RP. Modified static diffusion cells for decontamination modelling. Highlights of the 2010 Annual Congress of the British Toxicology Society. Includes the abstracts of the British Toxicology Society, Spring 2010. *Toxicology* 2010; 278: 351-2.

Matar H, Price SC, Chilcott RP. Temporal effects of disrobing on the skin absorption of chemical warfare agents and CW agent simulants. Highlights of the 2010 Annual Congress of the British Toxicology Society. Includes the abstracts of the British Toxicology Society, Spring 2010. *Toxicology* 2010; 278: 344-5.

Matar H, Price SC, Chilcott RP. Protective effects of clothing on the in vitro absorption of chemical warfare agents. Highlights of the 2010 Annual Congress of the British Toxicology Society. Includes the abstracts of the British Toxicology Society, Spring 2010. *Toxicology* 2010; 278: 344.

Mustard gas

Ahmadi Kh, Reshadatjoo M, Karami GR. [Comparison of depression, anxiety and stress rate between chemical warfare victims and healthy persons in Sardasht; Iran]. In Arabic with English abstract. *J Babol Univ Med Sci* 2010; 12: 44-50.

Attaran D, Lari SM, Towhidi M, Marallu HG, Ayatollahi H, Khajehdaluee M, Ghanei M, Basiri R. Interleukin-6 and airflow limitation in chemical warfare patients with chronic obstructive pulmonary disease. *Int J Chron Obstruct Pulmon Dis* 2010; 5: 335-40.

Balali Mood M, Afshari R, Zojaji R, Kahrom H, Kamrani M, Attaran D, Mousavi SR, Zare GA. Delayed toxic effects of sulfur mustard on respiratory tract of Iranian veterans. *Hum Exp Toxicol* 2010; online early: doi: 10.1177/0960327110389501:

Fairhall SJ, Jugg BJA, Read RW, Stubbs SJ, Rutter SJ, Smith AJ, Mann TM, Jenner J, Sciuto AM. Exposure-response effects of inhaled sulfur mustard in a large porcine model: a 6-h study. *Inhal Toxicol* 2010; 22: 1135-43.

Hassankhani H, Taleghani F, Mills J, Birks M, Francis K, Ahmadi F. The challenges experienced by Iranian war veterans living with chemical warfare poisoning: a descriptive, exploratory study. *Scand J Caring Sci* 2010; 24: 290-8.

Kanavi MR, Javadi A, Javadi MA. Chronic and delayed mustard gas keratopathy: a histopathologic and immunohistochemical study. *Eur J Ophthalmol* 2010; 20: 839-43.

Nerve agents

General

Gab J, John H, Blum MM. Formation of pyrophosphate-like adducts from nerve agents sarin; soman and cyclosarin in phosphate buffer: implications for analytical and toxicological investigations. *Toxicol Lett* 2010; online early: doi: 10.1016/j.toxlet.2010.10.011:

Cyclosarin and sarin

Shih TM, Guarisco JA, Myers TM, Kan RK, McDonough JH. The oxime pro-2-PAM provides minimal protection against the CNS effects of the nerve agents sarin, cyclosarin, and VX in guinea pigs. *Toxicol Mech Methods* 2010; online early: doi: 10.3109/15376516.2010.529190:

Soman

Ramarao G, Waghmare C, Srivastava N, Bhattacharya B. Regional alterations of JNK3 and CaMKII α subunit expression in the rat brain after soman poisoning. *Hum Exp Toxicol* 2010; online early: doi: 10.1177/0960327110386814:

Tabun

Bajgar J, Hajek P, Zdarova JK, Kassa J, Paseka A, Slizova D, Krs O, Kuca K, Jun D, Fusek J, Capek L. A comparison of tabun-inhibited rat brain acetylcholinesterase reactivation by three oximes (HI-6, obidoxime, and K048) in vivo detected by biochemical and histochemical techniques. *J Enzyme Inhib Med Chem* 2010; 25: 790-7.

Vx

Shih TM, Guarisco JA, Myers TM, Kan RK, McDonough JH.
The oxime pro-2-PAM provides minimal protection against the CNS effects of the nerve agents sarin, cyclosarin, and VX in guinea pigs.
Toxicol Mech Methods 2010; online early: doi: 10.3109/15376516.2010.529190:

PLANTS**General**

Antignac E, Nohynek GJ, Re T, Clouzeau J, Toutain H.
Safety of botanical ingredients in personal care products/ cosmetics.
Food Chem Toxicol 2010; online early: doi: 10.1016/j.fct.2010.11.022:

Carstairs SD, Luk JY, Cantrell FL.
A comprehensive review of anticholinergic plant exposures in California, 1997-2008. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 628.

Ayahuasca

McIlhenny EH, Riba J, Barbanoj MJ, Strassman R, Barker SA.
Methodology for and the determination of the major constituents and metabolites of the Amazonian botanical medicine ayahuasca in human urine.
Biomed Chromatogr 2010; online early: PM:21058415:

Baptisia australis

Aleguas A, Liu K-T, Quang LS.
Pediatric poisoning from *Baptisia australis*. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 627.

Bloodroot (*Sanguinaria canadensis*)

Cienki JJ, Zaret L.
An internet misadventure: bloodroot salve toxicity.
J Altern Complement Med 2010; 16: 1125-7.

Botulism

Horowitz BZ.
Type E botulism.
Clin Toxicol 2010; 48: 880-95.

Zhang J-C, Sun L, Nie QH.
Botulism, where are we now?
Clin Toxicol 2010; 48: 867-79.

Damiana

Anderson KT, Caravati EM, Crouch D, Dahl B.
Adverse effects associated with smoking *Damiana* incense product. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 618.

Datura stramonium (Jimson weed)

Vearrier D, Greenberg MI.
Anticholinergic delirium following *Datura stramonium* ingestion: implications for the Internet age.
J Emerg Trauma Shock 2010; 3: 303.

Gynura root

Li C, Liang X-S, Li C-Z.
Sinusoidal obstruction syndrome associated with the ingestion of gynura root.
Clin Toxicol 2010; 48: 962-4.

Herbal incense

Canning JC, Ruha A-M, Pierce R, Torrey M, Reinhart SJ.
Severe GI distress after smoking JWH-018. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 618.

Ragone SP, Geller RJ, Lopez GP.
A poison center's development of a media campaign to address trends of herbal incense abuse. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 649.

Jatropha curcas

Shah V, Sanmukhani J.
Five cases of *Jatropha curcas* poisoning.
J Assoc Physicians India 2010; 58: 245-6.

Lantana camara

Carstairs SD, Luk JY, Tomaszewski CA, Cantrell FL.
Ingestion of *Lantana camara* is not associated with significant effects in children.
Pediatrics 2010; online early: doi: 10.1542/peds.2010-1669:

Mushrooms**General**

Higuera-Vila L, Baron-Franco B, Bernabeu-Wittel M, Cano Monchul R.
Intoxicacion por setas: características clínicas y tratamiento de ocho casos en el suroeste de España. [Mushroom poisoning: clinical characteristics and treatment of eight cases in the southeast of Spain]. In Spanish.
Rev Clin Esp 2010; 210: 483-5.

Sadovnikova IV, Khaletskaya OV, Shilenok IG, Voevodkina IF, Rozhdenkin EA.
[Acute toxic hepatitis at mushroom poisoning of the young child]. In Russian.
Eksp Klin Gastroenterol 2010; 83-6.

Syed VA, Lakshmi R, Karki P, Pradhan B, Maskey R.
Scenario of mushroom poisoning in a tertiary care hospital.
J Nepal Med Assoc 2009; 48: 296-300.

Amanita

Hiroshima Y, Nakae H, Gommori K.
Amanita ibotengutake intoxication treated with plasma exchange.
Ther Apheresis Dial 2010; 14: 483-4.

Zilker TR, Eyer F, Wiese C, Kehe K, Thiermann H.
Influence of different antidotal treatments on amatoxin-induced hepatotoxicity in hepG2 cells. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 619.

Cortinarius

Wynckel A, Talmud D.
Renal failure induced by *Cortinarius* poisoning.
Pediatr Nephrol 2010; online early: doi: 10.1007/s00467-010-1665-0:

Nutmeg

Krol CG, Janssen MJFM.
Een ongebruikelijke toepassing van nootmuskaat. [An unusual application of nutmeg]. In Dutch.
Ned Tijdschr Geneesk 2010; 154: 1691-3.

Rhododendrons

Eller P, Hochegger K.
Honey intoxication and the Bezold-Jarisch reflex.
Int J Cardiol 2010; 144: 251.

Tobacco

Deutsch CM, Bronstein AC, Banerji .S., Hesse CL, Spyker DA.
Pediatric chewing tobacco & snuff exposures: 2000-2009. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 608-9.

Yasmin S, Afroz B, Hyat B, D'Souza D.
Occupational health hazards in women beedi rollers in Bihar, India.
Bull Environ Contam Toxicol 2010; 85: 87-91.

Veratrum

Gilotta I, Brvar M.
Accidental poisoning with *Veratrum album* mistaken for wild garlic (*Allium ursinum*).
Clin Toxicol 2010; 48: 949-52.

Yew (*Taxus baccata*)

Hernandez Hernandez JL, Quijano Teran F, Gonzalez MacIas J.
Intoxicacion por tejo. [Taxus poisoning]. In Spanish.
Med Clin (Barc) 2010; 135: 575-6.

ANIMALS

Bee stings

Iliev YT, Tufkova SG, Prancheva MG.
A rare case of severe intoxication from multiple bee stings with a favorable outcome.
Folia Medica 2010; 52: 74-7.

Lin PH, Wang NK, Hwang YS, Ma DH, Yeh LK.
Bee sting of the cornea and conjunctiva: management and outcomes.
Cornea 2010; online early: doi: 10.1097/ICO.0b013e3181f234a6:

Caterpillars

Pinto AFM, Berger M, Reck J, Jr., Terra RMS, Guimaraes JA.
Lonomia obliqua venom: in vivo effects and molecular aspects associated with the hemorrhagic syndrome.
Toxicol 2010; 56: 1103-12.

Fish/marine poisoning

Clupeotoxin

Orwig D, Freeman M, Judge B.
Hold the anchovies? A presumptive diagnosis of clupeotoxism in west Michigan. Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 630-1.

Cyanobacteria

Bownik A.
Harmful algae: effects of alkaloid cyanotoxins on animal and human health.
Toxin Rev 2010; 29: 99-114.

Stonefish

Nistor A, Giè O, Biegger P, Fusetti C, Lucchina S.
Surgical vacuum-assisted closure for treatment of dramatic case of stonefish envenomation.
Chin J Traumatol 2010; 13: 250-2.

Scorpions

Bahloul M, Chaari A, Dammak H, Ben Algia N, Bouaziz M.
Nosocomial scorpion envenomation: an unusual mode of scorpion sting.
Clin Toxicol 2010; 48: 962.

Cesaretli Y, Ozkan O.
Picadas de escorpio na Turquia: aspectos epidemiologicos e clinicos entre os anos de 1995 e 2004. [Scorpion stings in Turkey: epidemiological and clinical aspects between the years 1995 and 2004]. In Portuguese with English abstract.
Rev Inst Med Trop Sao Paulo 2010; 52: 215-20.

Deshpande SB.
Antiscorpion venom scores over other strategies in the treatment of scorpion envenomation.
J Postgrad Med 2010; 56: 253-4.

Natu VS.
Efficacy of anti-scorpion venom serum over prazosin in the management of severe scorpion envenomation.
J Postgrad Med 2010; 56: 275-80.

Snake bites

General

Casewell NR, Cook DA, Wagstaff SC, Nasidi A, Durfa N, Wuster W, Harrison RA.
Pre-clinical assays predict pan-African *Echis viper* efficacy for a species-specific antivenom.
PLoS Negl Trop Dis 2010; 4: e851.

Huang CY, Hung DZ, Chen WK.
Antivenin-related serum sickness.
J Chin Clin Med 2010; 73: 540-2.

Ireland G, Brown SGA, Buckley NA, Stormer J, Currie BJ, White J, Spain D, Isbister GK.
Changes in serial laboratory test results in snakebite patients: when can we safely exclude envenoming?
Med J Aust 2010; 193: 285-90.

Michael GC, Thacher TD, Shehu MI.
The effect of pre-hospital care for venomous snake bite on outcome in Nigeria.
Trans R Soc Trop Med Hyg 2010; online early: doi: 10.1016/j.trstmh.2010.09.005:

Adders

Zajkowska J, Garkowski A, Pancewicz S.
[*Vipera berus* bite - epidemiology, clinical symptoms and review of treatment methods]. In Polish with English abstract.
Przegl Epidemiol 2010; 64: 387-93.

Krait

Höjer J, Tran Hung H, Warrell D.
Life-threatening hyponatremia after krait bite envenoming - a new syndrome.
Clin Toxicol 2010; 48: 956-7.

Vipers

Antonypillai CN, Wass JAH, Warrell DA, Rajaratnam HN.
Hypopituitarism following envenoming by Russell's vipers (*Daboia siamensis* and *D. russelii*) resembling Sheehan's syndrome: first case report from Sri Lanka, a review of the literature and recommendations for endocrine management.
QJM 2010; online early: doi:10.1093/qjmed/hcq214:

Spiders

Tambourgi DV, Gonçalves-De-Andrade RM, van den Berg CW.
Loxoscelism: from basic research to the proposal of new therapies.
Toxicol 2010; 56: 1113-9.

Tarantula

Ryan ML, Arnold TC.

Tarantula bites are no big deal. Really? Abstract of the 2010 North American Congress of Clinical Toxicology Annual Meeting, October 7-12, 2010. Denver, CO, USA.
Clin Toxicol 2010; 48: 629.

INDEX

Abamectin	48	Clupeotoxin	52
Acetaminophen	28, 33	Cocaine.....	29
Acetylcysteine	25	Codeine	30
Acrylonitrile.....	40	Copper sulphate	42
Adders.....	52	Cortinarius	51
Air pollution	37	Cosmetics	42
Alcohol	40	Coumarin	30
Aluminium phosphide	48	Cyanide	42
Amanita	51	Cyanobacteria	52
Amfetamines.....	28	Cyclosarin	50
Aminophenylbutyric acid	28, 41	2,4-D	48
Amitriptyline	28	<i>Damiana</i>	51
Amoxicillin	28	Dantrolene.....	26
Anaesthetics	28	<i>Datura stramonium</i>	51
Analytical toxicology	12	Dermal toxicity	14
Androstenedione	28	Designer drugs.....	30
Animals, general	52	Detoxification under anaesthesia	26
Antibiotics.....	28	Developmental toxicology	14
Antidepressants.....	28	Dextromethorphan	30
Antidotes	25	Diacetylmorphine.....	31
Antineoplastic drugs	28	Diazepam.....	30
Antivenom	25	Diazoxon.....	49
Arsenic	45	Dichlorvos.....	49
Asbestos.....	41	Dietary supplements.....	30
Atrazine.....	48	Diethylene glycol	42
Ayahuasca	51	Digoxin	30
<i>Baptisia australis</i>	51	Diltiazem.....	30
Barbexaclone	28	Dioxins	42
Bee stings.....	52	Diphenhydramine	30
Benzodiazepines.....	29	Dipyridamole.....	30
Beta blockers	29	Diquat	49
Biological warfare.....	50	Driving under the influence	15
Bisphenol A.....	41	Drugs, general	27
Bitumen.....	41	Ecstasy	28
Bloodroot.....	51	Epidemiology	15
Body packing	13	Epinephrine.....	30
Botulism	51	Ethanol.....	40
Brominated diphenyl ethers	41	Ethnic remedies.....	30
Bupivacaine	29	Ethylene dibromide.....	48
Buprenorphine	26, 29	Ethylene glycol	42
Buspirone	29	Ethylene glycol ethers.....	42
Butadiene	41	Ethylene glycol monomethyl ether	43
Cadmium	45	Exhaust fumes	38
Caffeine.....	29	Explosives.....	43
Calcium cyanide	41	Fab fragments.....	26
Cannabis.....	29	Fentanyl	30
Carbamate insecticides	48	Fertilizers	43
Carbamazepine	29	Fipronil	48
Carbon monoxide	37	Fish/marine poisoning.....	52
Carcinogenicity.....	13	Flocoumafen	50
Carisoprodol.....	29	Fluoride	43
Carnitine.....	27	Foreign bodies	43
Caterpillars	52	Forensic toxicology	18
Chemical incidents.....	38	Formaldehyde	43, 48
Chemical sensitivity	14	Furosemide	30
Chemical warfare, general	50	Gasoline.....	44
Chemicals, general	40	Genotoxicity	18
Chloralose.....	50	Gold	46
Chlorine.....	42	Gold sodium thiosulphate.....	43
Chlorophenoxy herbicides	48	Gynura root	51
Chloroquine	29	Haemodiafiltration	26
Chlorphenamine	29	Haemoperfusion	27
Chromium.....	45	Hazardous waste	39
Clomethiazole	26	Heavy metals	46
Clonazepam	29	Herbal incense	51

Herbal medicines.....	30	Paracetamol.....	28, 33
Heroin.....	31	Paraoxonase1.....	27
Hexamethylene diisocyanate.....	43	Paraquat.....	49
Honey.....	43	Parasuicide.....	24
Household products.....	43	Pegfilgrastim.....	33
Hydrofluoric acid.....	43	Penicillin.....	27
Hydrogen sulphide.....	43	Perfluoroalkyl derivatives.....	44
Hydromorphone.....	31	Pesticides and cancer.....	48
Hydroxocobalamin.....	26	Pesticides, general.....	47
Hyperbaric oxygen.....	26	Petrol.....	44
Hyperinsulinaemia.....	27	Petroleum oils.....	44
Hypoglycaemics.....	31	Phenelzine.....	33
Indium.....	46	Phenol.....	44
Inhalation toxicity.....	18	Phosphate enema.....	33
Iron.....	46	Phthalate esters.....	44
Isoniazid.....	31	Plants, general.....	51
<i>Jatropha curcas</i>	51	Plasma exchange.....	27
Jimson weed.....	51	PM10.....	38
Kinetics.....	19	Poison information centres.....	23
Krait.....	52	Poisons information.....	23
Lamotrigine.....	31	Pollution.....	39
Lansoprazole.....	31	Polychlorinated biphenyls.....	44
<i>Lantana camara</i>	51	Polycyclic aromatic hydrocarbons.....	44
L-carnitine.....	27	Polyvinyl chloride.....	44
Lead.....	46	Potassium chloride.....	44
Leptophos.....	49	Pralidoxime.....	26
Lipid emulsion therapy.....	27	Prazosin.....	27
Lithium.....	46	Propafenone.....	33
Local anaesthetics.....	31	Propanol.....	44
Lofexidine.....	31	Propofol.....	33
Management, general.....	24	Pyrazinamide.....	34
Manganese.....	46	Pyrethroid insecticides, general.....	49
Marijuana.....	29	Quetiapine.....	34
MARS.....	27	Rhododendrons.....	52
MDMA.....	28	Rifampicin.....	34
Medical errors.....	19	Risk assessment.....	23
Medical ethics.....	19	Risperidone.....	34
Mephedrone.....	30	Rodenticides.....	49
Mepivacaine.....	32	Salbutamol.....	34
Meprobamate.....	32	<i>Sanguinaria canadensis</i>	51
Mercury.....	46	Sarin.....	50
Metal oxides.....	43	Scorpions.....	52
Metals, general.....	45	Sertindole.....	34
Metalworking fluids.....	43	Sibutramine.....	34
Metformin.....	32	Silibinin.....	26
Methadone.....	27, 32	Silica.....	44
Methamidophos.....	49	Silver.....	47
Methanol.....	43	Smoke.....	38
Methedrone.....	30	Snake bites, general.....	52
Methyl isocyanate.....	43	Sodium azide.....	44
Methylenedioxypyrovalerone.....	30	Sodium nitrite.....	45
Metoprolol.....	32	Soman.....	50
Metronidazole.....	32	Spiders.....	52
Molecular adsorbent recirculating system.....	27	SSRIs.....	34
Monocrotophos.....	49	Statins.....	34
Morphine.....	32	Stonefish.....	52
Mushrooms.....	51	Styrene.....	45
Mustard gas.....	50	Substance abuse.....	34
Naloxone.....	26	Succinylcholine.....	36
Nanoparticles.....	43	Suicide.....	24
Nefazodone.....	32	Sulphur dioxide.....	38
Nerve agents.....	50	Tabun.....	50
Nitrates.....	44	Tarantula.....	53
Nitrites.....	44	Taurine.....	36
Nitrogen dioxide.....	38	<i>Taxus baccata</i>	52
Nutmeg.....	51	Tetramine.....	50
Occupational toxicology.....	20	Thallium.....	47
Omeprazole.....	32	Thiamine.....	27
Opioids.....	32	Tobacco.....	52
Organochlorine pesticides, general.....	48	Toxicology, general.....	12
Organophosphorus insecticides, general.....	48	Tramadol.....	36
Oximes.....	26	Triclopyr.....	50
Paediatric toxicology.....	21	Triclosan.....	45
Paliperidone.....	33	Uranium.....	47

Vaccines	37	Vx	51
Valproate	37	Water pollution.....	39
Venlafaxine.....	37	Yew.....	52
<i>Veratrum</i>	52	Ziprasidone	37
Vipers	52	Zopiclone	37
Vitamins	37		

Current Awareness in Clinical Toxicology is produced monthly by the Birmingham Unit
of the UK National Poisons Information Service.
The NPIS is commissioned by the Health Protection Agency.

