

Current Awareness in Clinical Toxicology

Editors: Sarah Cage MSc and Allister Vale MD

April 2008

CURRENT AWARENESS PAPERS OF THE MONTH

A clinical decision rule for triage of children under 5 years of age with hydrocarbon (kerosene) aspiration in developing countries

WHO EMRO Pediatric Hydrocarbon Study Group, Bond GR, Pièche S, Sonicki Z, Gamaluddin H, Guindi ME, Sakr M, Seddawy AE, Abouzaid M, Youssef A. Clin Toxicol 2008; 46: 222-9.

Background. Unintended hydrocarbon ingestion is a common reason for pediatric hospitalization in the developing world.

Objective. To derive a clinical decision rule, to identify patients likely to require a higher level facility (resource-requiring cases), that can be used at primary health care facilities with limited diagnostic and therapeutic resources.

Methods. A prospective study of children 2 to 59 months old presenting to a poison treatment facility within 2 hours of oral hydrocarbon exposure. History and objective signs were recorded at admission and at 6, 12, 24 and, if present, 48 hours. Inclusion in the resource-requiring outcome group required: oxygen saturation <94%; any CNS depression; any treatment with (salbutamol); any care in the ICU; or death.

Results. 256 met the inclusion criteria and completed the study. Of these, 170 had a course requiring resources unavailable at most primary health care facilities, and 86 did not. The presence of wheezing, any alteration in consciousness (lethargy or any restlessness), or a rapid respiratory rate for age (RR \geq 50/min if age < 12 mo, \geq 40/min if age \geq 12 mo) at presentation identified 167 of 170 of these patients (sensitivity 0.98). Thirty-six of 86 patients classified as non-resource requiring were correctly identified (specificity 0.42). No combination of clinical symptoms provided better discrimination while preserving sensitivity.

Conclusions. This study suggests a triage decision rule based on the presence of wheezing, altered consciousness, or a rapid respiratory rate within 2 hours of hydrocarbon exposure. Such a rule requires validation in other settings.

Use of lipid emulsion in the resuscitation of a patient with prolonged cardiovascular collapse after overdose of bupropion and lamotrigine

Sirianni AJ, Osterhoudt KC, Calello DP, Muller AA, Waterhouse MR, Goodkin MB, Weinberg GL, Henretig FM. Ann Emerg Med 2008; 51: 412-5.

Abstract: Animal studies show efficacy of intravenous lipid emulsion in the treatment of severe

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



cardiotoxicity associated with local anesthetics, clomipramine, and verapamil, possibly by trapping such lipophilic drugs in an expanded plasma lipid compartment ("lipid sink"). Recent case reports describe lipid infusion for the successful treatment of refractory cardiac arrest caused by parenteral administration of local anesthetics, but clinical evidence has been lacking for lipid's antidotal efficacy on toxicity caused by ingested medications. A 17-year-old girl developed seizure activity and cardiovascular collapse after intentional ingestion of up to 7.95 g of bupropion and 4 g of lamotrigine. Standard cardiopulmonary resuscitation for 70 minutes was unsuccessful in restoring sustained circulation. A 100-mL intravenous bolus of 20% lipid emulsion was then administered, and after 1 minute an effective sustained pulse was observed. The patient subsequently manifested significant acute lung injury but had rapid improvement in cardiovascular status and recovered, with near-normal neurologic function. Serum bupropion levels before and after lipid infusion paralleled triglyceride levels. This patient developed cardiovascular collapse because of intentional, oral overdose of bupropion and lamotrigine that was initially refractory to standard resuscitation measures. An infusion of lipid emulsion was followed rapidly by restoration of effective circulation. Toxicologic studies are consistent with the lipid sink theory of antidotal efficacy.

Comparison of octreotide and standard therapy versus standard therapy alone for the treatment of sulfonylurea-induced hypoglycemia

Fasano CJ, O'Malley G, Dominici P, Aguilera E, Latta DR. Ann Emerg Med 2008; 51: 400-6.

Study objective: This study is designed to test the hypothesis that the administration of octreotide acetate (Sandostatin; Novartis Pharmaceuticals) in addition to standard therapy will increase serum glucose level measured at serial intervals in patients presenting to the emergency department (ED) with sulfonylurea-induced hypoglycemia compared with standard therapy alone.

Methods: This study was a prospective, double-blind, placebo-controlled trial. All adult patients who presented to the ED with hypoglycemia (serum glucose level ≤ 60 mg/dL) and were found to be taking a sulfonylurea or a combination of insulin and sulfonylurea were screened for participation in the study. Study participants were randomized to receive standard treatment (1 ampule of 50% dextrose intravenously and carbohydrates orally) and placebo (1 mL of 0.9% normal saline solution subcutaneously) or standard treatment plus 1 dose of octreotide 75 μ g subcutaneously. Subsequent treatment interventions were at the discretion of the inpatient internal medicine service.

Results: A total of 40 patients (18 placebo; 22 octreotide) were enrolled. The mean serum glucose measurement at presentation was placebo 35 mg/dL and octreotide 39 mg/dL. The mean glucose values for octreotide patients compared with placebo were consistently higher during the first 8 hours but showed no difference in subsequent hours. Mean glucose differences approached statistical significance from 1 to 3 hours and were significant from 4 to 8 hours after octreotide or placebo administration.

Conclusion: The addition of octreotide to standard therapy in hypoglycemic patients receiving treatment with a sulfonylurea increased serum glucose values for the first 8 hours after administration in our patients. Recurrent hypoglycemic episodes occurred less frequently in patients who received octreotide compared with those who received placebo.

Acute acetaminophen overdose is associated with dose-dependent hypokalaemia: a prospective study of 331 patients

Waring WS, Stephen AFL, Malkowska AM, Robinson ODG. Basic Clin Pharmacol Toxicol 2008; 102: 325-8.

Abstract: Hypokalaemia is a recognized complication of acute acetaminophen overdose. It is

unclear whether this might be a pharmacological effect of acetaminophen, or due to association with confounding factors. The present study sought to better characterize the relationship between acetaminophen concentrations and risk of hypokalaemia. A prospective study of patients received N-acetylcysteine treatment within 15 hr of acute acetaminophen ingestion. Serum potassium concentrations were determined before and after N-acetylcysteine. Serum acetaminophen concentrations were used to indicate overall drug exposure by comparison to the Rumack-Matthew nomogram. Hypokalaemia was pre-defined by serum concentrations <3.5 mmol/l, and groups compared by Mann-Whitney tests. There were 331 patients. Median (95% confidence interval) fall in serum potassium concentration after N-acetylcysteine was 0.05 mmol/l (-0.11-0.30 mmol/l) if acetaminophen concentrations were below the 'high-risk' treatment line, 0.30 mmol/l (0.17-0.40 mmol/l) if between the 'high-risk' and 'normal' treatment lines ($P = 0.0358$), and 0.40 mmol/l (0.20-0.50 mmol/l) if above the 'normal' treatment line ($P = 0.0136$). A receiver operating characteristic showed that high acetaminophen concentrations were predictive of hypokalaemia ($P = 0.0001$ versus zero discriminatory line), and 4 hr acetaminophen concentration >156 mmol/l gave 81% sensitivity and 48% specificity. The risk of hypokalaemia after acute acetaminophen overdose depends on the extent of acetaminophen exposure, irrespective of N-acetylcysteine administration and independent of whether vomiting occurred. Acetaminophen appears to cause concentration-dependent hypokalaemia after overdose, and the pharmacological basis requires further consideration.

Adverse effects of methadone in children

Langford NJ, Ferner RE. Adverse Drug React Bull 2007; 935-8.

Abstract: Methadone is widely prescribed in the treatment of opiate addiction. Methadone is a strong opioid, however, with significant toxicity particularly in children. Episodes of poisoning occur most frequently in those aged under 3 years. Treatments with opiate antagonists are effective provided they are administered in time. We review the literature on childhood methadone poisoning. We also discuss possible strategies for the prevention of overdose.

Toxic alcohol ingestions: clinical features, diagnosis, and management

Kraut JA, Kurtz I. Clin J Am Soc Nephrol 2008; 3: 208-25.

Abstract: Alcohol-related intoxications, including methanol, ethylene glycol, diethylene glycol, and propylene glycol, and alcoholic ketoacidosis can present with a high anion gap metabolic acidosis and increased serum osmolal gap, whereas isopropanol intoxication presents with hyperosmolality alone. The effects of these substances, except for isopropanol and possibly alcoholic ketoacidosis, are due to their metabolites, which can cause metabolic acidosis and cellular dysfunction. Accumulation of the alcohols in the blood can cause an increment in the osmolality, and accumulation of their metabolites can cause an increase in the anion gap and a decrease in serum bicarbonate concentration. The presence of both laboratory abnormalities concurrently is an important diagnostic clue, although either can be absent, depending on the time after exposure when blood is sampled. In addition to metabolic acidosis, acute renal failure and neurologic disease can occur in some of the intoxications. Dialysis to remove the unmetabolized alcohol and possibly the organic acid anion can be helpful in treatment of several of the alcohol-related intoxications. Administration of fomepizole or ethanol to inhibit alcohol dehydrogenase, a critical enzyme in metabolism of the alcohols, is beneficial in treatment of ethylene glycol and methanol intoxication and possibly diethylene glycol and propylene glycol intoxication. Given the potentially high morbidity and mortality of these intoxications, it is important for the clinician to have a high degree of suspicion for these disorders in cases of high anion gap metabolic acidosis, acute renal failure, or unexplained neurologic disease so that treatment can be initiated early.

Oral administration of fomepizole produces similar blood levels as identical intravenous dose

Marraffa J, Forrest A, Grant W, Stork C, McMartin K, Howland MA. Clin Toxicol 2008; 46: 181-6.

Introduction. Fomepizole is available intravenously (IV) for the treatment of methanol and ethylene glycol poisoning. Few studies demonstrate that fomepizole achieves effective serum concentrations after IV or oral (PO) use. The objective was to describe the comparative pharmacokinetics of fomepizole after a single PO and IV dose.

Methods. This was a prospective, randomized, crossover trial in 10 healthy volunteers. Each received 15 mg/kg fomepizole, PO and by 30 minute IV infusion. Serum was collected at 0, 0.25, 0.5, 1, 2, 4, 7, 12, 24, 36, and 48 hours (h) and stored at -70 °C. Candidate models were fit to the IV and PO data, simultaneously, using iterative 2-stage analysis weighted by the estimated inverse observation variance. Time above the MEC ($T > MEC$) was determined by numeric integration of the fitted functions using 10 mumoles/L as the minimum effective concentration (MEC).

Results. Seven females and 3 males were enrolled. Sole complaints included headache and dizziness in 3 subjects and 10/10 reported an unpleasant taste. The final PK model was 2-compartment with 0-order IV and 1st-order PO input (following a fitted T_{Lag}) and Michaelis-Menten elimination. PO fomepizole was rapidly absorbed with a bioavailability of approximately 100%. The K_m was 0.935 ± 0.98 mumoles/L and the V_{max} was 18.57 ± 9.58 mumoles/L/h. $T > MEC$ was 32 h with agreement between PO and IV dosing.

Conclusions. This is the first study that effectively determines a human V_{max} and K_m for PO and IV fomepizole. PO and IV administration of fomepizole result in similar pharmacokinetic parameters.

Association between the plasma/whole blood lead ratio and history of spontaneous abortion: a nested cross-sectional study

Lamadrid-Figueroa H, Téllez-Rojo MM, Hernández-Avila M, Trejo-Valdivia B, Solano-González M, Mercado-García A, Smith D, Hu H, Wright RO. BMC Pregnancy Childbirth 2007; 7: 22.

Background: Blood lead has been associated with an elevated risk of miscarriage. The plasmatic fraction of lead represents the toxicologically active fraction of lead. Women with a tendency to have a higher plasma/whole blood Pb ratio could tend towards an elevated risk of miscarriage due to a higher plasma Pb for a given whole blood Pb and would consequently have a history of spontaneous abortion.

Methods: We studied 207 pregnant Mexico City residents during the 1st trimester of pregnancy, originally recruited for two cohorts between 1997 and 2004. Criteria for inclusion in this study were having had at least one previous pregnancy, and having valid plasma and blood Pb measurements. Pb was measured in whole blood and plasma by inductively coupled plasma mass spectrometry using ultra-clean techniques. History of miscarriage in previous pregnancies was obtained by interview. The incidence rate of spontaneous abortion was defined as the proportion of previous pregnancies that resulted in miscarriage. Data were analyzed by means of Poisson regression models featuring the incidence rate of spontaneous abortion as the outcome and continuous or categorized plasma/ blood Pb ratios as predictor variables. All models were adjusted for age and schooling. Additionally, logistic regression models featuring inclusion in the study sample as the outcome were fitted to assess potential selection bias.

Results: The mean number of miscarriages was 0.42 (range 0 to 4); mean Pb concentrations were

62.4 and 0.14 (μ g/L in whole blood and plasma respectively. Mean plasma /blood Pb ratio was 0.22%. We estimated that a 0.1% increment in the plasma/blood Pb ratio lead was associated to a 12% greater incidence of spontaneous abortion ($p = 0.02$). Women in the upper tertile of the plasma/blood Pb ratio had twice the incidence rate of those in the lower tertile ($p = 0.02$). Conditional on recruitment cohort, inclusion in the study sample was unrelated to observable characteristics such as number of abortions, number of pregnancies, blood Pb levels, age schooling, weight and height.

Conclusion: Women with a large plasma /whole blood Pb ratio may be at higher risk of miscarriage, which could be due to a greater availability of placental barrier-crossing Pb.

The early prognostic factors of glyphosate-surfactant intoxication

Lee CH, Shih CP, Hsu KH, Hung DZ, Lin CC. Am J Emerg Med 2008; 26: 275-81.

Background and purpose: The purpose of this study was to establish an early prognostic model of patients with glyphosate-surfactant (GlySH) herbicide intoxication.

Methods: A case-control study was conducted. Data of GlySH-intoxicated patients were collected from 2 hospitals. Patients were admitted to the emergency departments (EDs) of Chang Gung Memorial Hospital from April 1996 to March 2003 and Taichung Veterans General Hospital from April 2000 to October 2003. Collected variables such as age, sex, estimated amount of ingestion, symptoms/signs including first vital signs, chest x-ray (CXR), and biochemical studies were analyzed for their role in the prognostic model of GlySH intoxication mortality. Univariate and odds ratio analyses were then performed. The prognostic model was then established by using logistic regression analysis and further stratified analysis.

Results: Fifty-eight patients (19 men and 39 women; age, 48.8 ± 15.8 years; $P = 0.38$) were enrolled in our study. Forty-one patients survived from GlySH intoxication and 17 died. After univariate analysis, 5 variables (respiratory distress needing intubation, metabolic acidosis, tachycardia, elevated creatinine (Cr) level, and hyperkalemia) were found to be highly associated with poor outcome and mortality. Then a multiple logistic regression model was established as follows: $\log(p/q) = -6.13 + 3.43$ (abnormal CXR) + 2.53 (metabolic acidosis) + 2.55 (Cr) + 2.4 (tachycardia) + e.

Conclusion: GlySH poisoning is multiorgan toxicity. Pulmonary toxicity and renal toxicity seem to be responsible for its mortality. Metabolic acidosis, abnormal CXR, tachycardia, and elevated Cr level are useful prognostic factors for predicting GlySH mortality.

Improvement in survival after paraquat ingestion following introduction of a new formulation in Sri Lanka

Wilks MF, Fernando R, Ariyananda PL, Eddleston M, Berry DJ, Tomenson JA, Buckley NA, Jayamanne S, Gunnell D, Dawson A. PLoS Med 2008; 5: 0250-9.

Background: Pesticide ingestion is a common method of self-harm in the rural developing world. In an attempt to reduce the high case fatality seen with the herbicide paraquat, a novel formulation (INTEON) has been developed containing an increased emetic concentration, a purgative, and an alginate that forms a gel under the acid conditions of the stomach, potentially slowing the absorption of paraquat and giving the emetic more time to be effective. We compared the outcome of paraquat self-poisoning with the standard formulation against the new INTEON formulation following its introduction into Sri Lanka.

Methods and Findings: Clinical data were prospectively collected on 586 patients with paraquat ingestion presenting to nine large hospitals across Sri Lanka with survival to 3 mo as the primary outcome. The identity of the formulation ingested after October 2004 was confirmed by assay of blood or urine samples for a marker compound present in INTEON. The proportion of known survivors increased from 76 /297 with the standard formulation to 103/289 with INTEON

ingestion, and estimated 3-mo survival improved from 27.1% to 36.7% (difference 9.5%; 95% confidence interval (CI) 2.0%-17.1%; $p = 0.002$, log rank test). Cox proportional hazards regression analyses showed an approximately 2-fold reduction in toxicity for INTEON compared to standard formulation. A higher proportion of patients ingesting INTEON vomited within 15 min (38% with the original formulation to 55% with INTEON, $p < 0.001$). Median survival time increased from 2.3 d (95% CI 1.2-3.4 d) with the standard formulation to 6.9 d (95% CI 3.3-10.7 d) with INTEON ingestion ($p = 0.002$, log rank test); however, in patients who did not survive there was a comparatively smaller increase in median time to death from 0.9 d (interquartile range (IQR) 0.5-3.4) to 1.5 d (IQR 0.5-5.5); $p = 0.02$.

Conclusions: The survey has shown that INTEON technology significantly reduces the mortality of patients following paraquat ingestion and increases survival time, most likely by reducing absorption.

TOXICOLOGY

General

Bolt HM, Hengstler JG.

The past and the future of toxicology.
Arch Toxicol 2008; 82: 1-3.

Guengerich FP.

Cytochrome P450 and chemical toxicology.
Chem Res Toxicol 2008; 21: 70-83.

Hollenberg PF, Kent UM, Bumpus NN.

Mechanism-based inactivation of human cytochromes p450s: experimental characterization, reactive intermediates, and clinical implications.
Chem Res Toxicol 2008; 21: 189-205.

Analytical toxicology

Andersson M, Gustavsson E, Stephanson N, Beck O.

Direct injection LC-MS/MS method for identification and quantification of amphetamine, methamphetamine, 3,4-methylenedioxymphetamine and 3,4-methylenedioxymethamphetamine in urine drug testing.
J Chromatogr B Analyt Technol Biomed Life Sci 2008; 861: 22-8.

Ash DH, Lemire SW, McGrath SC, McWilliams LG, Barr JR.

Multianalyte quantification of five sesqui- and ethyl ether oxymustard metabolites in human urine by liquid chromatography-atmospheric pressure chemical ionization tandem mass spectrometry.
J Anal Toxicol 2008; 32: 44-50.

Bahadori T, Phillips RD, Money CD, Quackenboss JJ, Clewell HJ, Bus JS, Robison SH, Humphris CJ, Parekh AA, Osborn K, Kauffman RM.

Making sense of human biomonitoring data: findings and recommendations of a workshop.
J Expos Sci Environ Epidemiol 2007; 17: 308-13.

Crawford DM, Hampson NB.

Fire and ice: diagnosis of carbon monoxide poisoning in a remote environment.
Emerg Med J 2008; 25: 235-6.

Fracasso T, Brinkmann B, Beike J, Pfeiffer H.

Clotted blood as sign of alcohol intoxication: a retrospective study.
Int J Legal Med 2008; 122: 157-61.

Frommherz L, Kohler H, Brinkmann B, Lehr M, Beike J.

LC-MS assay for quantitative determination of cardio glycoside in human blood samples.
Int J Legal Med 2008; 122: 109-14.

Fucci N, De Giovanni N, Scarlata S.

Sweat testing in addicts under methadone treatment: an Italian experience.
Forensic Sci Int 2008; 174: 107-10.

Healey N, Chettle DR, McNeill FE, Fleming DE.

Uncertainties in the relationship between tibia lead and cumulative blood lead index.
Environ Health Perspect 2008; 116: A109.

Holland KE, Solano MI, Johnson RC, Maggio VL, Barr JR.

Modification to the organophosphorus nerve agent-protein adduct refluoridation method for retrospective analysis of nerve agent exposures.
J Anal Toxicol 2008; 32: 116-24.

Hsieh PF, Tsan YT, Hung DZ, Hsu CL, Lee YC, Chang MH.

Bromism caused by mix-formulated analgesic injectables.
Hum Exp Toxicol 2007; 26: 971-3.

Janasik B, Jakubowski M, Jalowiecki P.

Excretion of unchanged volatile organic compounds (toluene, ethylbenzene, xylene and mesitylene) in urine as result of experimental human volunteer exposure.
Int Arch Occup Environ Health 2008; 81: 443-9.

Lehrmann E, Afanador ZR, Deep-Soboslay A, Gallegos G, Darwin WD, Lowe RH, Barnes AJ, Huestis MA, Cadet JL, Herman MM, Hyde TM, Kleinman JE, Freed WJ.

Postmortem diagnosis and toxicological validation of illicit substance use.
Addict Biol 2008; 13: 105-17.

Mordal J, Bramness JG, Holm B, Morland J.

Drugs of abuse among acute psychiatric and medical admissions: laboratory based identification of prevalence and drug influence.
Gen Hosp Psychiatry 2008; 30: 55-60.

Ozer C, Kuvandik G, Gokel Y, Duru M, Helvacı MR.

Clinical presentation and laboratory findings of organic phosphorus poisoning.
Adv Ther 2007; 24: 1321-9.

Schwartz BS, Hu H, Rothenberg SJ, Todd AC.

Relationship between tibia lead and cumulative blood lead index: Schwartz et al. Respond.
Environ Health Perspect 2008; 116: A109-A110.

Weerasekera G, Smith KD, Needham LL, Barr DB.

A rapid, cost-effective method for analyzing organophosphorus pesticide metabolites in human urine for counter-terrorism response.
J Anal Toxicol 2008; 32: 106-15.

Yeung DT, Smith JR, Sweeney RE, Lenz DE, Cerasoli DM.

A gas chromatographic-mass spectrometric approach to examining stereoselective interaction of human serum proteins with soman.
J Anal Toxicol 2008; 32: 86-91.

Biomarkers

Bahadori T, Phillips RD, Money CD, Quackenboss JJ, Clewell HJ, Bus JS, Robison SH, Humphris CJ, Parekh AA, Osborn K, Kauffman RM.

Making sense of human biomonitoring data: findings and recommendations of a workshop.
J Expos Sci Environ Epidemiol 2007; 17: 308-13.

Boogaard PJ.

Urinary biomarkers in the risk assessment of PAHs.
Occup Environ Med 2008; 65: 221-2.

Förster K, Preuss R, Roßbach B, Brüning T, Angerer J, Simon P. 3-Hydroxybenzo[a]pyrene in the urine of workers with occupational exposure to polycyclic aromatic hydrocarbons in different industries.
Occup Environ Med 2008; 65: 224-9.

Montes S, Riojas-Rodriguez H, Sabido-Pedraza E, Rios C.

Biomarkers of manganese exposure in a population living close to a mine and mineral processing plant in Mexico.
Environ Res 2008; 106: 89-95.

Soltaninejad K, Shadnia S, Afkhami-Taghipour M, Saljooghi R, Mohammadirad A, Abdollahi M.

Blood β -glucuronidase as a suitable biomarker at acute exposure of severe organophosphorus poisoning in human.
Hum Exp Toxicol 2007; 26: 963-6.

Body packing

De Beer SA, Spiessens G, Mol W, Fa-Si-Oen PR.

Surgery for body packing in the Caribbean: a retrospective study of 70 patients.
World J Surg 2008; 32: 281-5.

Body packing

Guinier D, Hubert N, Chopard JL.
Transport de stupéfiants in corpore: problèmes médico-chirurgicaux et médico-légaux. [Surgical and forensic problems of body-packing.] In French with English abstract.
J Chir (Paris) 2007; 144: 481-5.

Carcinogenicity

Bolt HM, Huici-Montagud A.
Strategy of the scientific committee on occupational exposure limits (SCOEL) in the derivation of occupational exposure limits for carcinogens and mutagens.
Arch Toxicol 2008; 82: 61-4.

Bosetti C, McLaughlin JK, Tarone RE, Pira E, La Vecchia C.
Formaldehyde and cancer risk: a quantitative review of cohort studies through 2006.
Ann Oncol 2008; 19: 29-43.

Breton CV, Kile ML, Catalano PJ, Hoffman E, Quamruzzaman Q, Rahman M, Mahiuddin G, Christiani DC.
GSTM1 and APE1 genotypes affect arsenic-induced oxidative stress: a repeated measures study.
Environ Health Global Access Sci Source 2007; 6: 39.

Brown KG.
Inorganic arsenic in drinking water and bladder cancer: a meta-analysis for dose-response assessment.
Int J Environ Res Public Health 2007; 4: 193-4.

Chung CJ, Huang CJ, Pu YS, Su CT, Huang YK, Chen YT, Hsueh YM.
Urinary 8-hydroxydeoxyguanosine and urothelial carcinoma risk in low arsenic exposure area.
Toxicol Appl Pharmacol 2008; 226: 14-21.

Golka K, Weistenhofer W.
Fire fighters, combustion products, and urothelial cancer.
J Toxicol Environ Health B Crit Rev 2008; 11: 32-44.

Irigaray P, Newby JA, Clapp R, Hardell L, Howard V, Montagnier L, Epstein S, Belpomme D.
Lifestyle-related factors and environmental agents causing cancer: an overview.
Biomed Pharmacother 2007; 61: 640-58.

Koutros S, Mahajan R, Zheng TZ, Hoppin JA, Ma XM, Lynch CF, Blair A, Alavanja MCR.
Dichlorvos exposure and human cancer risk: results from the Agricultural Health Study.
Cancer Causes Control 2008; 19: 59-65.

Mayer J, Cheesemar MA, Twaroski ML.
Structure-activity relationship analysis tools: validation and applicability in predicting carcinogens.
Regul Toxicol Pharmacol 2008; 50: 50-8.

Mead MN.
Chemical exposures: cancer and TCDD: the mitochondrial connection.
Environ Health Perspect 2008; 116: A112.

Nie J, Beyea J, Bonner MR, Han D, Vena JE, Rogerson P, Vito D, Muti P, Trevisan M, Edge SB, Freudenheim JL.
Exposure to traffic emissions throughout life and risk of breast cancer: the Western New York Exposures and Breast Cancer (WEB) study.
Cancer Causes Control 2007; 18: 947-55.

Ojajarvi A, Partanen T, Ahlbom A, Hakulinen T, Kauppinen T, Weiderpass E, Wesseling C.
Estimating the relative risk of pancreatic cancer associated with exposure agents in job title data in a hierarchical Bayesian meta-analysis.
Scand J Work Environ Health 2007; 33: 325-35.

Preller L, Balder HF, Tielemans E, Van den Brandt PA, Goldbohm RA.
Occupational lung cancer risk among men in the Netherlands.
Occup Environ Med 2008; 65: 249-54.

Richardson DB.
Temporal variation in the association between benzene and leukemia mortality.
Environ Health Perspect 2008; 116: 370-4.

Richardson SD, Plewa MJ, Wagner ED, Schoeny R, DeMarini DM.
Occurrence, genotoxicity, and carcinogenicity of regulated and emerging disinfection by-products in drinking water: a review and roadmap for research.
Mutat Res Rev Mutat Res 2007; 636: 178-242.

Salnikow K, Zhitkovich A.
Genetic and epigenetic mechanisms in metal carcinogenesis and cocarcinogenesis: nickel, arsenic, and chromium.
Chem Res Toxicol 2008; 21: 28-44.

Sartor SG, Eluf-Neto J, Travier N, Wunsch-Filho V, Arcuri ASA, Kowalski LP, Boffetta P.
Riscos ocupacionais para o câncer de laringe: um estudo caso-controlado. [Occupational risks for laryngeal cancer - a case-control study.] In Portuguese with English abstract.
Cad Saude Publica 2007; 23: 1473-81.

Topinka J, Sevastyanova O, Binkova B, Chvatalova I, Milcova A, Lnenickova Z, Novakova Z, Solansky I, Sram RJ.
Biomarkers of air pollution exposure - a study of policemen in Prague.
Mutat Res 2007; 624: 9-17.

Wang GS, Deng YC, Lin TF.
Cancer risk assessment from trihalomethanes in drinking water.
Sci Total Environ 2007; 387: 86-95.

Watson R.
Exposure to chemicals may contribute to risk of breast cancer, report says.
Br Med J 2008; 336: 797-8.

Chemical sensitivity

Bornschein S, Hausteiner C, Pohl C, Jahn T, Angerer J, Foerster H, Zilker T.
Pest controllers: a high-risk group for Multiple Chemical Sensitivity (MCS)?
Clin Toxicol 2008; 46: 193-200.

Dermal toxicity

Frolke JP, Poels TC.
Gasoline contact burns after a car accident.
J Burn Care Res 2007; 28: 773-4.

Kataranovski M, Mirkov I, Vrankovic J, Kataranovski D, Subota V.
Percutaneous toxicity of anticoagulant warfarin in rats.
Cutan Ocul Toxicol 2008; 27: 29-40.

Developmental toxicity

Bell ML, Ebisu K, Belanger K.
Air pollution and birth weight: Bell et al. Respond.
Environ Health Perspect 2008; 116: A106-A107.

Budtz-Jorgensen E.
Estimation of the benchmark dose by structural equation models.
Biostatistics 2007; 8: 675-88.

Cordier S.
Evidence for a role of paternal exposures in developmental toxicity.
Basic Clin Pharmacol Toxicol 2008; 102: 176-81.

Developmental toxicology

Cory-Slechta DA, Virgolini MB, Rossi-George A, Thiruchelvam M, Lisek R, Weston D.

Lifetime consequences of combined maternal lead and stress. *Basic Clin Pharmacol Toxicol* 2008; 102: 218-27.

Engeland A, Bramness JG, Daltveit AK, Ronning M, Skurtveit S, Furu K.

Prescription drug use among fathers and mothers before and during pregnancy. A population-based cohort study of 106 000 pregnancies in Norway 2004-2006.

Br J Clin Pharmacol 2008; 65: 653-60.

Eskenazi B, Rosas LG, Marks AR, Bradman A, Harley K, Holland N, Johnson C, Fenster L, Barr DB.

Pesticide toxicity and the developing brain.

Basic Clin Pharmacol Toxicol 2008; 102: 228-36.

Gee D.

Establishing evidence for early action: the prevention of reproductive and developmental harm.

Basic Clin Pharmacol Toxicol 2008; 102: 257-66.

Hansen CA, Barnett AG, Pritchard G.

The effect of ambient air pollution during early pregnancy on fetal ultrasonic measurements during mid-pregnancy.

Environ Health Perspect 2008; 116: 362-9.

Kishi R, Sata F, Yoshioka E, Ban S, Sasaki S, Konishi K, Washino N.

Exploiting gene-environment interaction to detect adverse health effects of environmental chemicals on the next generation.

Basic Clin Pharmacol Toxicol 2008; 102: 191-203.

Rayburn WF.

Maternal and fetal effects from substance use.

Clin Perinatol 2007; 34: 559-71.

Salam MT.

Air pollution and birth weight in Connecticut and Massachusetts.

Environ Health Perspect 2008; 116: A106.

Slotkin TA, Bodwell BE, Levin ED, Seidler FJ.

Neonatal exposure to low doses of diazinon: long-term effects on neural cell development and acetylcholine systems.

Environ Health Perspect 2008; 116: 340-8.

Soffritti M, Belpoggi F, Esposti DD, Falcioni L, Bua L.

Consequences of exposure to carcinogens beginning during developmental life.

Basic Clin Pharmacol Toxicol 2008; 102: 118-24.

Suglia SF, Gryparis A, Wright RO, Schwartz J, Wright RJ.

Association of black carbon with cognition among children in a prospective birth cohort study.

Am J Epidemiol 2008; 167: 280-6.

Vahter M.

Health effects of early life exposure to arsenic.

Basic Clin Pharmacol Toxicol 2008; 102: 204-11.

Waalkes MP, Liu J.

Early-life arsenic exposure: methylation capacity and beyond.

Environ Health Perspect 2008; 116: A104.

Driving under the influence

Jones AW, Holmgren A, Kugelberg FC.

Driving under the influence of cannabis: a 10-year study of age and gender differences in the concentrations of tetrahydrocannabinol in blood.

Addiction 2008; 103: 452-61.

Labat L, Fontaine B, Delzenne C, Doublet A, Marek MC, Tellier D, Tonneau M, Lhermitte M, Frimat P.

Prevalence of psychoactive substances in truck drivers in the Nord-Pas-de-Calais region (France).

Forensic Sci Int 2008; 174: 90-4.

Papadodima SA, Athanaselis SA, Stefanidou ME, Dona AA, Papoutsis I, Maravelias CP, Spiliopoulou CA.

Driving under the influence in Greece: a 7-year survey (1998-2004).

Forensic Sci Int 2008; 174: 157-60.

Environmental toxicology

Carrasco JM, Perez-Gomez B, Garcia-Mendizabal MJ, Lope V, Aragones N, Forjaz MJ, Guallar-Castillon P, Lopez-Abente G, Rodriguez-Artalejo F, Pollan M.

Health-related quality of life and mental health in the medium-term aftermath of the Prestige oil spill in Galiza (Spain): a cross-sectional study.

BMC Public Health 2007; 7:

Dyer J.

Concerns about lead exposure.

AORN J 2007; 86: 355-6.

Irigaray P, Newby JA, Clapp R, Hardell L, Howard V, Montagnier L, Epstein S, Belpomme D.

Lifestyle-related factors and environmental agents causing cancer: an overview.

Biomed Pharmacother 2007; 61: 640-58.

Kolossa-Gehring M, Becker K, Conrad A, Ludecke A, Riedel S, Seiwert M, Schulz C, Szewczyk R.

German Environmental Survey for Children (GerES IV) - first results.

Int J Hyg Environ Health 2007; 210: 535-40.

Lee DH, Lee IK, Porta M, Steffes M, Jacobs DR, Jr.

Relationship between serum concentrations of persistent organic pollutants and the prevalence of metabolic syndrome among non-diabetic adults: results from the National Health and Nutrition Examination Survey 1999-2002.

Diabetologia 2007; 50: 1841-51.

Lukaszewicz-Hussain A.

Narazenie zawodowe i srodowiskowe na insektycydy fosforoorganiczne. Wskazniki narazenia i skutki zdrowotne - przeglad pismienictwa. [Occupational and environmental exposure to organophosphate insecticides. Exposure markers and health effects - a review paper.] In Polish with English abstract.

Med Pr 2007; 58: 345-51.

Lukaszewicz-Hussain A.

Subchronic intoxication with chlorfenvinphos, an organophosphate insecticide, affects rat brain antioxidative enzymes and glutathione level.

Food Chem Toxicol 2008; 46: 82-6.

Meo SA, Al-Drees AM, Meo IMU, Al-Saadi MM, Azeem MA.

Lung function in subjects exposed to crude oil spill into sea water.

Marine Pollut Bull 2008; 56: 88-94.

Montes S, Riojas-Rodriguez H, Sabido-Pedraza E, Rios C.

Biomarkers of manganese exposure in a population living close to a mine and mineral processing plant in Mexico.

Environ Res 2008; 106: 89-95.

Qu JH, Hong X, Chen JF, Wang YB, Sun H, Xu XL, Song L, Wang SL, Wang XR.

Fenvalerate inhibits progesterone production through camp-dependent signal pathway.

Toxicol Lett 2008; 176: 31-9.

Epidemiology

- Andrew E, Irestedt B, Hurri T, Jacobsen P, Gudjonsdottir G. Mortality and morbidity of poisonings in the Nordic countries in 2002. *Clin Toxicol* 2008; 46: 310-3.
- Bahadori T, Phillips RD, Money CD, Quackenboss JJ, Clewell HJ, Bus JS, Robison SH, Humphris CJ, Parekh AA, Osborn K, Kauffman RM. Making sense of human biomonitoring data: findings and recommendations of a workshop. *J Expos Sci Environ Epidemiol* 2007; 17: 308-13.
- Bornschein S, Hausteiner C, Pohl C, Jahn T, Angerer J, Foerstl H, Zilker T. Pest controllers: a high-risk group for Multiple Chemical Sensitivity (MCS)? *Clin Toxicol* 2008; 46: 193-200.
- Brown VJ. Life after lindane in California: water concentrations, poison control calls drop following ban. *Environ Health Perspect* 2008; 116: A128.
- Budtz-Jorgensen E. Estimation of the benchmark dose by structural equation models. *Biostatistics* 2007; 8: 675-88.
- Cohen M. Environmental toxins and health - the health impact of pesticides. *Aust Fam Physician* 2007; 36: 1002-4.
- Curwin BD, Hein MJ, Sanderson WT, Striley C, Heederik D, Kromhout H, Reynolds SJ, Alavanja MC. Pesticide dose estimates for children of Iowa farmers and non-farmers. *Environ Res* 2007; 105: 307-15.
- Danis R, Ozmen S, Celen MK, Akin D, Ayaz C, Yazanel O. Snakebite-induced acute kidney injury: data from Southeast Anatolia. *Ren Fail* 2008; 30: 51-5.
- Drasch G, Dahlmann F, Von Meyer L, Roeder G, Eisenmenger W. Frequency of different antidepressants associated with suicides and drug deaths. *Int J Legal Med* 2008; 122: 115-21.
- Draus JM, Jr., Santos AP, Franklin GA, Foley DS. Drug and alcohol use among adolescent blunt trauma patients: dying to get high? *J Pediatr Surg* 2008; 43: 208-11.
- Engeland A, Bramness JG, Daltveit AK, Ronning M, Skurtveit S, Furu K. Prescription drug use among fathers and mothers before and during pregnancy. A population-based cohort study of 106 000 pregnancies in Norway 2004-2006. *Br J Clin Pharmacol* 2008; 65: 653-60.
- Gibson A, Degenhardt L, Mattick RP, Ali R, White J, O'Brien S. Exposure to opioid maintenance treatment reduces long-term mortality. *Addiction* 2008; 103: 462-8.
- Glintborg B, Olsen L, Poulsen H, Linnet K, Dalhoff K. Reliability of self-reported use of amphetamine, barbiturates, benzodiazepines, cannabinoids, cocaine, methadone, and opiates among acutely hospitalized elderly medical patients. *Clin Toxicol* 2008; 46: 239-42.
- Hoiseth G, Sorlid HK, Bramness J. Acute intoxications with carisoprodol. *Clin Toxicol* 2008; 46: 307-9.
- Humphreys EH, Janssen S, Heil A, Hiatt P, Solomon G, Miller MD. Outcomes of the California ban on pharmaceutical lindane: clinical and ecologic impacts. *Environ Health Perspect* 2008; 116: 297-302.
- Irigaray P, Newby JA, Clapp R, Hardell L, Howard V, Montagnier L, Epstein S, Belpomme D. Lifestyle-related factors and environmental agents causing cancer: an overview. *Biomed Pharmacother* 2007; 61: 640-58.
- Jones AW, Holmgren A, Kugelberg FC. Driving under the influence of cannabis: a 10-year study of age and gender differences in the concentrations of tetrahydrocannabinol in blood. *Addiction* 2008; 103: 452-61.
- Karbakhsh M, Zandi NS. Pattern of poisoning in the elderly: an experience from Tehran. *Clin Toxicol* 2008; 46: 211-7.
- Knudsen K, Greter J, Verdicchio M. High mortality rates among GHB abusers in Western Sweden. *Clin Toxicol* 2008; 46: 187-92.
- Kolossa-Gehring M, Becker K, Conrad A, Ludecke A, Riedel S, Seiwert M, Schulz C, Szewzyk R. German Environmental Survey for Children (GerES IV) - first results. *Int J Hyg Environ Health* 2007; 210: 535-40.
- Krenová M, Pelclová D, Navrátil T. Survey of *Amanita phalloides* poisoning: clinical findings and follow-up evaluation. *Hum Exp Toxicol* 2007; 26: 955-61.
- Labat L, Fontaine B, Delzenne C, Doublet A, Marek MC, Tellier D, Tonneau M, Lhermitte M, Frimat P. Prevalence of psychoactive substances in truck drivers in the Nord-Pas-de-Calais region (France). *Forensic Sci Int* 2008; 174: 90-4.
- Lathrop SL. Animal-caused fatalities in New Mexico, 1993-2004. *Wilderness Environ Med* 2007; 18: 288-92.
- Lee D, Shaddick G. Time-varying coefficient models for the analysis of air pollution and health outcome data. *Biometrics* 2007; 63: 1253-61.
- Leonard RC, Kreckmann KH, Sakr CJ, Symons JM. Retrospective cohort mortality study of workers in a polymer production plant including a reference population of regional workers. *Ann Epidemiol* 2008; 18: 15-22.
- Lessenger JE, Feinberg SD. Abuse of prescription and over-the-counter medications. *J Am Board Fam Med* 2008; 21: 45-54.
- Meyer S, Steiner M, Mueller H, Nunold H, Gottschling S, Gortner L. Recent trends in the burden of alcohol intoxication on pediatric in-patient services in Germany. *Klin Padiatr* 2008; 220: 6-9.
- Miller MA, Levsky ME, Masneri D, Parekh D, Borys D. Nisoldipine exposures. *Am J Emerg Med* 2008; 26: 367-8.
- Mordal J, Bramness JG, Holm B, Morland J. Drugs of abuse among acute psychiatric and medical admissions: laboratory based identification of prevalence and drug influence. *Gen Hosp Psychiatry* 2008; 30: 55-60.

Epidemiology

Norman R, Mathee A, Barnes B, van der Merwe L, Bradshaw D, South African Comparative Risk Assessment Collaborating Group. Estimating the burden of disease attributable to lead exposure in South Africa in 2000. *S Afr Med J* 2007; 97: 773-80.

Oudin A, Bjork J, Stromberg U. Efficiency of two-phase methods with focus on a planned population-based case-control study on air pollution and stroke. *Environ Health Global Access Sci Source* 2007; 6:

Ozer C, Kuvandik G, Gokel Y, Duru M, Helvacı MR. Clinical presentation and laboratory findings of organic phosphorus poisoning. *Adv Ther* 2007; 24: 1321-9.

Papadodima SA, Athanaselis SA, Stefanidou ME, Dona AA, Papoutsis I, Maravelias CP, Spiliopoulou CA. Driving under the influence in Greece: a 7-year survey (1998-2004). *Forensic Sci Int* 2008; 174: 157-60.

Schifano F, Corkery J. Cocaine/crack cocaine consumption, treatment demand, seizures, related offences, prices, average purity levels and deaths in the UK (1990-2004). *J Psychopharmacol* 2008; 22: 71-9.

Settimi L, Davanzo F, Carbone P, Sesana F, Locatelli C, Farina ML, Maiozzi P, Roazzi P, Maccari F, Macchi L, Fanuzzi A. Surveillance of toxic exposures: the pilot experience of the Poison Control Centers of Milan, Pavia and Bergamo in 2006. *Ann Ist Super Sanit* 2007; 43: 287-94.

Soldo I, Kucan Z, Timarac J, Mihaljevic I, Matijevic M, Peric L, Lisnjic D, Sesar Z, Kadojic D, Vcev A, Micunovic N. Mushroom poisoning. *Coll Antropol* 2007; 31: 1099-103.

Sopeña B, Rivera A, Rodríguez-Domínguez M, Rodríguez-Rodríguez M, Argibay A, Maure B, Gimena B, Martínez-Vázquez C. Complicaciones relacionadas con el consumo de cocaína que precisaron ingreso hospitalario. [Complications related with cocaine abuse that required hospital admission.] In Spanish with English abstract. *Rev Clin Esp* 2008; 208: 12-7.

Suchithra N, Pappachan JM, Sujathan P. Snakebite envenoming in Kerala, South India: clinical profile and factors involved in adverse outcomes. *Emerg Med J* 2008; 25: 200-4.

Voaklander DC, Rowe BH, Dryden DM, Pahal J, Saar P, Kelly KD. Medical illness, medication use and suicide in seniors: a population-based case control study. *J Epidemiol Community Health* 2008; 62: 138-46.

Wattigney WA, Kaye WE, Orr MF. Acute hazardous substance releases resulting in adverse health consequences in children: Hazardous Substances Emergency Events Surveillance system, 1996-2003. *J Environ Health* 2007; 70: 17-24, 45.

Wester K, Jonsson AK, Spigset O, Druid H, Hagg S. Incidence of fatal adverse drug reactions: a population based study. *Br J Clin Pharmacol* 2008; 65: 573-9.

Wheeler BW, Gunnell D, Metcalfe C, Stephens P, Martin RM. The population impact on incidence of suicide and non-fatal self harm of regulatory action against the use of selective serotonin reuptake inhibitors in under 18s in the United Kingdom: ecological study. *Br Med J* 2008; 336: 542-5.

Whitehall JS, Yarlani, Arunthathy, Varan, Kaanthan, Isaivanan, Vanprasath. Snake bites in north east Sri Lanka. *Rural Remote Health* 2007; 7: 751.

Wolff MS, Anderson HA, Britton JA, Rothman N. Pharmacokinetic variability and modern epidemiology - the example of dichlorodiphenyltrichloroethane, body mass index, and birth cohort. *Cancer Epidemiol Biomarkers Prev* 2007; 16: 1925-30.

Wood DM, Button J, Ashraf T, Walker S, Greene SL, Drake N, Ramsey J, Holt DW, Dargan PI. What evidence is there that the UK should tackle the potential emerging threat of methamphetamine toxicity rather than established recreational drugs such as MDMA ('ecstasy')? *QJM* 2008; 101: 207-13.

Wright RO. Neurotoxicology: what can context teach us? *J Pediatr* 2008; 152: 155-7.

Zaloshnja E, Miller T, Jones P, Litovitz T, Coben J, Steiner C, Sheppard M. The impact of poison control centers on poisoning-related visits to EDs - United States, 2003. *Am J Emerg Med* 2008; 26: 310-5.

Zullino DF, Krenz S, Eap CB, Benguettatt D, Khan R. Over- and underreporting of recent drug use in subjects entering an inpatient detoxification unit. *Eur J Med Res* 2008; 13: 15-20.

Forensic toxicology

Andersson M, Gustavsson E, Stephanson N, Beck O. Direct injection LC-MS/MS method for identification and quantification of amphetamine, methamphetamine, 3,4-methylenedioxyamphetamine and 3,4-methylenedioxymethamphetamine in urine drug testing. *J Chromatogr B Analyt Technol Biomed Life Sci* 2008; 861: 22-8.

Buiter HJC, Blaauwgeers JLG, van der Spoel JI, Franssen EJE. Erythromycin precipitation in vena femoralis: investigation of crystals found in postmortem material of an intensive care unit patient. *Ther Drug Monit* 2008; 30: 125-9.

Fracasso T, Brinkmann B, Beike J, Pfeiffer H. Clotted blood as sign of alcohol intoxication: a retrospective study. *Int J Legal Med* 2008; 122: 157-61.

Frommherz L, Kohler H, Brinkmann B, Lehr M, Beike J. LC-MS assay for quantitative determination of cardio glycoside in human blood samples. *Int J Legal Med* 2008; 122: 109-14.

Guinier D, Hubert N, Chopard JL. Transport de stupéfiants in corpore: problèmes médico-chirurgicaux et médico-légaux. [Surgical and forensic problems of body-packing.] In French with English abstract. *J Chir (Paris)* 2007; 144: 481-5.

Lehrmann E, Afanador ZR, Deep-Soboslay A, Gallegos G, Darwin WD, Lowe RH, Barnes AJ, Huestis MA, Cadet JL, Herman MM, Hyde TM, Kleinman JE, Freed WJ. Postmortem diagnosis and toxicological validation of illicit substance use. *Addict Biol* 2008; 13: 105-17.

Oesterhelweg L, Puschel K. "Death may come on like a stroke of lightning ..." - phenomenological and morphological aspects of fatalities caused by manure gas. *Int J Legal Med* 2008; 122: 101-7.

Inhalation toxicology

Hantson P, Bernard A, Hermans C.
Kinetics and determinants of the changes of CC16, a lung secretory protein in a rat model of toxic lung injury.
Clin Toxicol 2008; 46: 230-8.

Maynard RL.
Inhalation toxicology.
Occup Environ Med 2008; 65: 287.

Kinetics

Clewell RA, Clewell HJ.
Development and specification of physiologically based pharmacokinetic models for use in risk assessment.
Regul Toxicol Pharmacol 2008; 50: 129-43.

Delmas G, Rothmann C, Flesch F.
Acute overdose with controlled-release levodopa-carbidopa.
Clin Toxicol 2008; 46: 274-7.

Fucci N, De Giovanni N, Scarlata S.
Sweat testing in addicts under methadone treatment: an Italian experience.
Forensic Sci Int 2008; 174: 107-10.

Iavicoli I, Carelli G.
Contribution of dental amalgam to urinary mercury excretion in children.
Environ Health Perspect 2008; 116: A107-A108.

Li L, Ekstrom EC, Goessler W, Lonnerdal B, Nermell B, Yunus M, Rahman A, Arifeen SE, Persson LA, Vahter M.
Nutritional status has marginal influence on the metabolism of inorganic arsenic in pregnant Bangladeshi women.
Environ Health Perspect 2008; 116: 315-21.

Marraffa J, Forrest A, Grant W, Stork C, McMartin K, Howland MA.
Oral administration of fomepizole produces similar blood levels as identical intravenous dose.
Clin Toxicol 2008; 46: 181-6.

Woods JS, Martin MD, DeRouen TA.
Contribution of dental amalgam to urinary mercury excretion in children: Woods et al. Respond.
Environ Health Perspect 2008; 116: A108-A109.

Occupational toxicology

Athanasiadou M, Cuadra SN, Marsh G, Bergman A, Jakobsson K.
Polybrominated diphenyl ethers (PBDEs) and bioaccumulative hydroxylated PBDE metabolites in young humans from Managua, Nicaragua.
Environ Health Perspect 2008; 116: 400-8.

Bolt HM, Huici-Montagud A.
Strategy of the scientific committee on occupational exposure limits (SCOEL) in the derivation of occupational exposure limits for carcinogens and mutagens.
Arch Toxicol 2008; 82: 61-4.

Boogaard PJ.
Urinary biomarkers in the risk assessment of PAHs.
Occup Environ Med 2008; 65: 221-2.

Bosetti C, McLaughlin JK, Tarone RE, Pira E, La Vecchia C.
Formaldehyde and cancer risk: a quantitative review of cohort studies through 2006.
Ann Oncol 2008; 19: 29-43.

Cormier Y.
Respiratory health and farming: an essay.
Can Respir J 2007; 14: 419-22.

Crawford DM, Hampson NB.
Fire and ice: diagnosis of carbon monoxide poisoning in a remote environment.
Emerg Med J 2008; 25: 235-6.

Dyosi S.
Evaluation of preventive and control measures for lead exposure in a South African lead-acid battery recycling smelter.
J Occup Environ Hyg 2007; 4: 762-9.

Foti C, Bonamonte D, Conserva A, Pepe ML, Soleo L, Angelini G.
Allergic contact dermatitis with a fertilizer containing hydrogen cyanamide (Dormex®).
Cutan Ocul Toxicol 2008; 27: 1-3.

Förster K, Preuss R, Roßbach B, Brüning T, Angerer J, Simon P.
3-Hydroxybenzo[a]pyrene in the urine of workers with occupational exposure to polycyclic aromatic hydrocarbons in different industries.
Occup Environ Med 2008; 65: 224-9.

Fuente A, McPherson B.
Central auditory damage induced by solvent exposure.
Int J Occup Saf Ergon 2007; 13: 391-7.

Golka K, Weistenhofer W.
Fire fighters, combustion products, and urothelial cancer.
J Toxicol Environ Health B Crit Rev 2008; 11: 32-44.

Greim H, (ed.)
The MAK-collection for occupational health and safety. Part I: MAK value documentations.
Weinheim, Germany: Wiley-VCH, 2007. 192 p.

Greim H, (ed.)
The MAK-collection for occupational health and safety. Part I: MAK value documentations.
Weinheim, Germany: Wiley-VCH, 2007. 301 p.

Leonard RC, Kreckmann KH, Sakr CJ, Symons JM.
Retrospective cohort mortality study of workers in a polymer production plant including a reference population of regional workers.
Ann Epidemiol 2008; 18: 15-22.

Lukaszewicz-Hussain A.
Narazenie zawodowe i srodowiskowe na insektycydy fosforoorganiczne. Wskazniki narazenia i skutki zdrowotne - przegląd piśmiennictwa. [Occupational and environmental exposure to organophosphate insecticides. Exposure markers and health effects - a review paper.] In Polish with English abstract.
Med Pr 2007; 58: 345-51.

Mancuso JD, McCoy J, Pelka B, Kahn PJ, Gaydos JC.
The challenge of controlling lead and silica exposures from firing ranges in a special operations force.
Mil Med 2008; 173: 182-6.

Michalek JE, Pavuk M.
Diabetes and cancer in veterans of operation ranch hand after adjustment for calendar period, days of spraying, and time spent in southeast Asia.
J Occup Environ Med 2008; 50: 330-40.

Ogawa M, Nakajima Y, Kubota R, Endo Y.
Two cases of acute lead poisoning due to occupational exposure to lead.
Clin Toxicol 2008; 46: 332-5.

Orisakwe OE, Nwachukwu E, Osadolor HB, Afonne OJ, Okocha CE.
Liver and kidney function tests amongst paint factory workers in Nkpor, Nigeria.
Toxicol Ind Health 2007; 23: 161-5.

Occupational toxicology

Policastro MA, Otten EJ.

Case files of the University of Cincinnati fellowship in medical toxicology: two patients with acute lethal occupational exposure to hydrogen sulfide.

J Med Toxicol 2007; 3: 73-81.

Preller L, Balder HF, Tielemans E, Van den Brandt PA, Goldbohm RA.

Occupational lung cancer risk among men in the Netherlands.

Occup Environ Med 2008; 65: 249-54.

Qu W, Bi X, Sheng G, Lu S, Fu J, Yuan J, Li L.

Exposure to polybrominated diphenyl ethers among workers at an electronic waste dismantling region in Guangdong, China.

Environ Int 2007; 33: 1029-34.

Rabinowitz PM, Galusha D, Slade MD, Dixon-Ernst C, O'Neill A, Fiellin M, Cullen MR.

Organic solvent exposure and hearing loss in a cohort of aluminium workers.

Occup Environ Med 2008; 65: 230-5.

Richardson DB.

Temporal variation in the association between benzene and leukemia mortality.

Environ Health Perspect 2008; 116: 370-4.

Sartor SG, Eluf-Neto J, Travier N, Wünsch-Filho V, Arcuri ASA, Kowalski LP, Boffetta P.

Riscos ocupacionais para o câncer de laringe: um estudo caso-controlado. [Occupational risks for laryngeal cancer - a case-control study.] In Portuguese with English abstract.

Cad Saude Publica 2007; 23: 1473-81.

Simonton DS, Spears M.

Human health effects from exposure to low-level concentrations of hydrogen sulfide.

Occup Health Saf 2007; 76: 102, 104.

Sliwinska-Kowalska M.

Organic solvent exposure and hearing loss.

Occup Environ Med 2008; 65: 222-3.

Thomsen C, Molander P, Daae HL, Janak K, Froshaug M, Liane VH, Thorud S, Becher G, Dybing E.

Occupational exposure to hexabromocyclododecane at an industrial plant.

Environ Sci Technol 2007; 41: 5210-6.

Topinka J, Sevastyanova O, Binkova B, Chvatalova I, Milcova A, Lnenickova Z, Novakova Z, Solansky I, Sram RJ.

Biomarkers of air pollution exposure - a study of policemen in Prague.

Mutat Res 2007; 624: 9-17.

Wild P, Leodolter K, Réfrégier M, Schmidt H, Bourgkard E.

Effects of talc dust on respiratory health: results of a longitudinal survey of 378 French and Austrian talc workers.

Occup Environ Med 2008; 65: 261-7.

Winker R, Roos G, Pilger A, Rudiger HW.

Effect of occupational safety measures on micronucleus frequency in semiconductor workers.

Int Arch Occup Environ Health 2008; 81: 423-8.

Ocular toxicity

Andreola B, Piovan A, Da Dalt L, Filippini R, Cappelletti E.

Unilateral mydriasis due to Angel's Trumpet.

Clin Toxicol 2008; 46: 329-31.

Lloyd MJ, Fraunfelder FW.

Drug-induced optic neuropathies.

Drugs Today (Barc) 2007; 43: 827-36.

López-López JM, Sanabria MR, de Prada SJ.

Ocular toxicity caused by toad venom.

Cornea 2008; 27: 236-7.

Verdon W.

Clinical electrophysiology in quinine induced retinal toxicity.

Optom Vis Sci 2008; 85: 17-25.

Parasuicide

Aomar-Millán I, Pérez-Fernández L, Pardo-Cabello A, Sánchez-Cano D, Cantero-Hinojosa J.

Neumonitis por gasolina: presentación de una intoxicación con fines autolíticos. [Fuel induced pneumonitis. As a consequence of a suicide attempt.] In Spanish.

An Med Interna 2007; 24: 404-5.

Drasch G, Dahlmann F, Von Meyer L, Roider G, Eisenmenger W.

Frequency of different anti-depressants associated with suicides and drug deaths.

Int J Legal Med 2008; 122: 115-21.

Voaklander DC, Rowe BH, Dryden DM, Pahal J, Saar P, Kelly KD.

Medical illness, medication use and suicide in seniors: a population-based case control study.

J Epidemiol Community Health 2008; 62: 138-46.

Wheeler BW, Gunnell D, Metcalfe C, Stephens P, Martin RM.

The population impact on incidence of suicide and non-fatal self harm of regulatory action against the use of selective serotonin reuptake inhibitors in under 18s in the United Kingdom: ecological study.

Br Med J 2008; 336: 542-5.

Pediatric toxicology

Andreola B, Piovan A, Da Dalt L, Filippini R, Cappelletti E.

Unilateral mydriasis due to Angel's Trumpet.

Clin Toxicol 2008; 46: 329-31.

Athanasiadou M, Cuadra SN, Marsh G, Bergman A, Jakobsson K.

Polybrominated diphenyl ethers (PBDEs) and bioaccumulative hydroxylated PBDE metabolites in young humans from Managua, Nicaragua.

Environ Health Perspect 2008; 116: 400-8.

Barregard L, Trachtenberg F, McKinlay S.

Renal effects of dental amalgam in children: the New England children's amalgam trial.

Environ Health Perspect 2008; 116: 394-9.

Cory-Slechta DA, Virgolini MB, Rossi-George A, Thiruchelvam M, Lisek R, Weston D.

Lifetime consequences of combined maternal lead and stress.

Basic Clin Pharmacol Toxicol 2008; 102: 218-27.

Curwin BD, Hein MJ, Sanderson WT, Striley C, Heederik D, Kromhout H, Reynolds SJ, Alavanja MC.

Pesticide dose estimates for children of Iowa farmers and non-farmers.

Environ Res 2007; 105: 307-15.

Draus JM, Jr., Santos AP, Franklin GA, Foley DS.

Drug and alcohol use among adolescent blunt trauma patients: dying to get high?

J Pediatr Surg 2008; 43: 208-11.

WHO EMRO Pediatric Hydrocarbon Study Group, Bond GR, Pièche S, Sonicki Z, Gamaluddin H, Guindi ME, Sakr M, Seddawy AE, Abouzaid M, Youssef A.

A clinical decision rule for triage of children under 5 years of age with hydrocarbon (kerosene) aspiration in developing countries.

Clin Toxicol 2008; 46: 222-9.

Pediatric toxicology

Heinrich J, Slama R.

Fine particles, a major threat to children.

Int J Hyg Environ Health 2007; 210: 617-22.

Holguin F, Flores S, Ross Z, Cortez M, Molina M, Molina L, Rincon C, Jerrett M, Berhane K, Granados A, Romieu I.

Traffic-related exposures, airway function, inflammation, and respiratory symptoms in children.

Am J Respir Crit Care Med 2007; 176: 1236-42.

Iavicoli I, Carelli G.

Contribution of dental amalgam to urinary mercury excretion in children.

Environ Health Perspect 2008; 116: A107-A108.

Islam T, Gauderman WJ, Berhane K, McConnell R, Avol E, Peters JM, Gilliland FD.

Relationship between air pollution, lung function and asthma in adolescents.

Thorax 2007; 62: 957-63.

Kolossa-Gehring M, Becker K, Conrad A, Ludecke A, Riedel S, Seiwert M, Schulz C, Szewzyk R.

German Environmental Survey for Children (GerES IV) - first results.

Int J Hyg Environ Health 2007; 210: 535-40.

Langford NJ, Ferner RE.

Adverse effects of methadone in children.

Adverse Drug React Bull 2007; 935-8.

McGovern V.

Taking a bite out of amalgam concerns? Study shows no renal effects in children.

Environ Health Perspect 2008; 116: A129.

Meyer S, Steiner M, Mueller H, Nunold H, Gottschling S, Gortner L. Recent trends in the burden of alcohol intoxication on pediatric in-patient services in Germany.

Klin Padiatr 2008; 220: 6-9.

Miller T, McGoodwin L, Hagemann T.

Anticholinergic-type effects following a pediatric venlafaxine overdose.

Clin Toxicol 2008; 46: 338-9.

Nicolai J, Gunning B, Leroy PL, Ceuternans B, Vles JSH.

Acute hepatic injury in four children with Dravet syndrome: valproic acid, topiramate or acetaminophen?

Seizure 2008; 17: 92-7.

Pramanik S, Banerjee S.

Wasp stings with multisystem dysfunction.

Indian Pediatr 2007; 44: 788-90.

Rodriguez C, Tonkin R, Heyworth J, Kusel M, De Klerk N, Sly PD, Franklin P, Runnion T, Blockley A, Landau L, Hinwood AL.

The relationship between outdoor air quality and respiratory symptoms in young children.

Int J Environ Health Res 2007; 17: 351-60.

Sharmila RR, Chetan G, Narayanan P, Srinivasan S.

Multiple organ dysfunction syndrome following single wasp sting.

Indian J Pediatr 2007; 74: 1111-2.

Solon O, Riddell TJ, Quimbo SA, Butrick E, Aylward GP, Lou-Bacate M, Peabody JW.

Associations between cognitive function, blood lead concentration, and nutrition among children in the central Philippines.

J Pediatr 2008; 152: 237-43.

Spiller H, Rodgers G, Willias D, Bosse G, Sullivan J.

Methemoglobinemia due to malachite green ingestion in a child.

Clin Toxicol 2008; 46: 320-1.

Tecer LH, Alagha O, Karaca F, Tuncel G, Eldes N.

Particulate matter (PM_{2.5}, PM_{10-2.5}, and PM₁₀) and children's hospital admissions for asthma and respiratory diseases: a bidirectional case-crossover study.

J Toxicol Environ Health A 2008; 71: 512-20.

Wattigney WA, Kaye WE, Orr MF.

Acute hazardous substance releases resulting in adverse health consequences in children: Hazardous Substances Emergency Events Surveillance system, 1996-2003.

J Environ Health 2007; 70: 17-24, 45.

Woods JS, Martin MD, DeRouen TA.

Contribution of dental amalgam to urinary mercury excretion in children: Woods et al. Respond.

Environ Health Perspect 2008; 116: A108-A109.

Wright RO.

Neurotoxicology: what can context teach us?

J Pediatr 2008; 152: 155-7.

Poisons information and poison information centers

Andrew E, Irestedt B, Hurri T, Jacobsen P, Gudjonsdottir G.

Mortality and morbidity of poisonings in the Nordic countries in 2002.

Clin Toxicol 2008; 46: 310-3.

Brown VJ.

Life after lindane in California: water concentrations, poison control calls drop following ban.

Environ Health Perspect 2008; 116: A128.

Chen YC, Chen MH, Wang LM, Wu JJK, Huang CI, Lee CH, Yen DHT, Yang CC.

Antivenom therapy for crotaline snakebites: has the poison control center provided effective guidelines?

J Formos Med Assoc 2007; 106: 1057-62.

Fosnocht D, Taylor JR, Caravati EM.

Emergency department patient knowledge concerning acetaminophen (paracetamol) in over-the-counter and prescription analgesics.

Emerg Med J 2008; 25: 213-6.

Waters M, Stasiewicz S, Merrick BA, Tomer K, Bushel P, Paules R, Stegman N, Nehls G, Yost KJ, Johnson CH, Gustafson SF, Xirasagar S, Xiao N, Huang CC, Boyer P, Chan DD, Pan Q, Gong H, Taylor J, Choi D, Rashid A, Ahmed A, Howle R, Selkirk J, Tennant R, Fostel J. CEBS - Chemical Effects in Biological Systems: a public data repository integrating study design and toxicity data with microarray and proteomics data.

Nucleic Acids Res 2008; 36: D892-D900.

Zaloshnja E, Miller T, Jones P, Litovitz T, Coben J, Steiner C, Sheppard M.

The impact of poison control centers on poisoning-related visits to EDs - United States, 2003.

Am J Emerg Med 2008; 26: 310-5.

Reprotoxicity

Bonde JP, Toft G, Rylander L, Rignell-Hydbom A, Giwercman A, Spano M, Manicardi GC, Bizzaro D, Ludwicki JK, Zvezday V, Bonefeld-Jorgensen EC, Pedersen HS, Jonsson BA, Thulstrup AM. Fertility and markers of male reproductive function in Inuit and European populations spanning large contrasts in blood levels of persistent organochlorines.

Environ Health Perspect 2008; 116: 269-77.

Reprotoxicity

Engeland A, Bramness JG, Daltveit AK, Ronning M, Skurtveit S, Furu K.

Prescription drug use among fathers and mothers before and during pregnancy. A population-based cohort study of 106 000 pregnancies in Norway 2004-2006.

Br J Clin Pharmacol 2008; 65: 653-60.

Gee D.

Establishing evidence for early action: the prevention of reproductive and developmental harm.

Basic Clin Pharmacol Toxicol 2008; 102: 257-66.

Lamadrid-Figueroa H, Téllez-Rojo MM, Hernández-Avila M, Trejo-Valdivia B, Solano-González M, Mercado-García A, Smith D, Hu H, Wright RO.

Association between the plasma/whole blood lead ratio and history of spontaneous abortion: a nested cross-sectional study. BMC Pregnancy Childbirth 2007; 7: 22.

Qu JH, Hong X, Chen JF, Wang YB, Sun H, Xu XL, Song L, Wang SL, Wang XR.

Fenvalerate inhibits progesterone production through camp-dependent signal pathway.

Toxicol Lett 2008; 176: 31-9.

Risk assessment

Budtz-Jorgensen E.

Estimation of the benchmark dose by structural equation models.

Biostatistics 2007; 8: 675-88.

Clewell RA, Clewell HJ.

Development and specification of physiologically based pharmacokinetic models for use in risk assessment.

Regul Toxicol Pharmacol 2008; 50: 129-43.

Ferner RE, Beard K.

Over the counter medicines: proceed with caution.

Br Med J 2008; 336: 694-6.

Ojajarvi A, Partanen T, Ahlbom A, Hakulinen T, Kauppinen T, Weiderpass E, Wesseling C.

Estimating the relative risk of pancreatic cancer associated with exposure agents in job title data in a hierarchical Bayesian meta-analysis.

Scand J Work Environ Health 2007; 33: 325-35.

Wood DM, Button J, Ashraf T, Walker S, Greene SL, Drake N, Ramsey J, Holt DW, Dargan PI.

What evidence is there that the UK should tackle the potential emerging threat of methamphetamine toxicity rather than established recreational drugs such as MDMA ('ecstasy')?

QJM 2008; 101: 207-13.

Woodward KN.

Assessment of user safety, exposure and risk to veterinary medicinal products in the European Union.

Regul Toxicol Pharmacol 2008; 50: 114-28.

MANAGEMENT

General

Arms JL, Mackenberg-Mohn MD, Bowen MV, Chamberlain MC, Skrypek TM, Madhok M, Jimenez-Vega JM, Bonadio WA.

Safety and efficacy of a protocol using bougienage or endoscopy for the management of coins acutely lodged in the esophagus: a large case series.

Ann Emerg Med 2008; 51: 367-72.

Connors GP.

Esophageal coin ingestion: going low tech.

Ann Emerg Med 2008; 51: 373-4.

WHO EMRO Pediatric Hydrocarbon Study Group, Bond GR, Pièche S, Sonicki Z, Gamaluddin H, Guindi ME, Sakr M, Seddawy AE, Abouzaid M, Youssef A.

A clinical decision rule for triage of children under 5 years of age with hydrocarbon (kerosene) aspiration in developing countries. Clin Toxicol 2008; 46: 222-9.

Guinier D, Hubert N, Chopard JL.

Transport de stupéfiants in corpore: problèmes médico-chirurgicaux et médico-légaux. [Surgical and forensic problems of body-packing.] In French with English abstract.

J Chir (Paris) 2007; 144: 481-5.

Handke T.

Medical support in a nuclear/biological/chemical threat environment.

Mil Med 2007; 172: 26-8.

McCarty D, Fuller B, Kaskutas LA, Wendt WW, Nunes EV, Miller M, Forman R, Magruder KM, Arfken C, Copersino M, Floyd A, Sindelark J, Edmundson E.

Treatment programs in the National Drug Abuse Treatment Clinical Trials Network.

Drug Alcohol Depend 2008; 92: 200-7.

Muakkassa FF, Marley RA, Dolinak J, Salvator AE, Workman MC.

The relationship between psychiatric medication and course of hospital stay among intoxicated trauma patients.

Eur J Emerg Med 2008; 15: 19-25.

Muskat PC.

Mass casualty chemical exposure and implications for respiratory failure.

Respir Care 2008; 53: 58-63.

Prouty H, Adams DS, Heard K.

Evaluation of treatments for cyanoacrylate eyelash adhesion using an *in-vitro* model.

Cutan Ocul Toxicol 2008; 27: 11-4.

Shea CW.

From the neurobiologic basis of alcohol dependency to pharmacologic treatment strategies: bridging the knowledge gap. South Med J 2008; 101: 179-85.

Activated charcoal

Odujebi OA, Kato Y, Hoffman RS.

Comment: limited efficacy of gastrointestinal decontamination in severe slow-release carbamazepine overdose.

Ann Pharmacother 2008; 42: 145-6.

Antidotes

Acetylcysteine

Betten DP, Clark RF.

Key features of the patient-tailored N-acetylcysteine protocol - in reply.

Ann Emerg Med 2008; 51: 452-3.

Gonzales DA, Norsworthy KJ, Kern SJ, Banks S, Sieving PC, Star RA, Natanson C, Danner RL.

A meta-analysis of N-acetylcysteine in contrast-induced nephrotoxicity: unsupervised clustering to resolve heterogeneity.

BMC Med 2007; 5: 32.

Terneus MV, Brown JM, Carpenter AB, Valentovic MA.

Comparison of S-adenosyl-L-methionine (same) and N-acetylcysteine (NAC) protective effects on hepatic damage when administered after acetaminophen overdose.

Toxicology 2008; 244: 25-34.

Tsai C-L, Fang C-C, Walson PD.

Key features of the patient-tailored N-acetylcysteine protocol.

Ann Emerg Med 2008; 51: 451-2.

Antivenom

Brown SG, Isbister GK, Stokes B.
Route of administration of redback spider bite antivenom: determining clinician beliefs to facilitate Bayesian analysis of a clinical trial.
Emerg Med Australas 2007; 19: 458-63.

Cannon R, Ruha A-M, Kashani J.
Acute hypersensitivity reactions associated with administration of crotalidae polyvalent immune Fab antivenom.
Ann Emerg Med 2008; 51: 407-11.

Chen YC, Chen MH, Wang LM, Wu JJK, Huang CI, Lee CH, Yen DHT, Yang CC.
Antivenom therapy for crotaline snakebites: has the poison control center provided effective guidelines?
J Formos Med Assoc 2007; 106: 1057-62.

Fomepizole

Kraut JA, Kurtz I.
Toxic alcohol ingestions: clinical features, diagnosis, and management.
Clin J Am Soc Nephrol 2008; 3: 208-25.

Marraffa J, Forrest A, Grant W, Stork C, McMartin K, Howland MA.
Oral administration of fomepizole produces similar blood levels as identical intravenous dose.
Clin Toxicol 2008; 46: 181-6.

Methionine

Terneus MV, Brown JM, Carpenter AB, Valentovic MA.
Comparison of S-adenosyl-L-methionine (same) and N-acetylcysteine (NAC) protective effects on hepatic damage when administered after acetaminophen overdose.
Toxicology 2008; 244: 25-34.

Naloxone

Kerr D, Dietze P, Kelly AM.
Intranasal naloxone for the treatment of suspected heroin overdose.
Addiction 2008; 103: 379-86.

Oximes

Eckert S, Eyer P, Herkert N, Bumm R, Weber G, Thiermann H, Worek F.
Comparison of the oxime-induced reactivation of erythrocyte and muscle acetylcholinesterase following inhibition by sarin or paraoxon, using a perfusion model for the real-time determination of membrane-bound acetylcholinesterase activity.
Biochem Pharmacol 2008; 75: 698-703.

Petroianu GA, Kalasz H.
Comparison of the ability of pyridinium aldoximes to reactivate human RBC cholinesterases inhibited by ethyl- and methyl-paraoxon.
Curr Org Chem 2007; 11: 1624-34.

Alendronate

Doneray H, Ozkan B, Caner I, Ozkan A, Karakelleoglu C.
Intragastric alendronate therapy in two infants with vitamin D intoxication: a new method.
Clin Toxicol 2008; 46: 300-2.

Aripiprazole

Anton RF, Kranzler H, Breder C, Marcus RN, Carson WH, Han J.
A randomized, multicenter, double-blind, placebo-controlled study of the efficacy and safety of aripiprazole for the treatment of alcohol dependence.
J Clin Psychopharmacol 2008; 28: 5-12.

Buprenorphine

Gibson A, Degenhardt L, Mattick RP, Ali R, White J, O'Brien S.
Exposure to opioid maintenance treatment reduces long-term mortality.
Addiction 2008; 103: 462-8.

Clonazepam

Yamamoto N, Oda T, Inada T.
Methamphetamine psychosis in which tardive dystonia was successfully treated with clonazepam.
Psychiatry Clin Neurosci 2007; 61: 691-4.

Congo Red

Milleliri JM, Carlotti MP.
Traitement des morsures de serpents par le rouge Congo. [Treatment of snakebite using Congo Red.] In French.
Med Trop 2007; 67: 232-3.

Endoscopy

Hojer J, Personne M.
Endoscopic removal of slow release clomipramine bezoars in two cases of acute poisoning.
Clin Toxicol 2008; 46: 317-9.

Hemoperfusion/hemodialysis

Jung J, Eo E, Ahn KO.
A case of hemoperfusion and L-carnitine management in valproic acid overdose.
Am J Emerg Med 2008; 26: 388.e3-388.e4.

Meeus R, Verpooten GA, De Paep R, Paelinck BP, Neels H, Cooreman S, De Doncker M, Jorens PG.
Cibenzoline intoxication: effect of combined hemoperfusion-hemodialysis on plasma clearance.
Clin Toxicol 2008; 46: 303-6.

Pilapil M, Petersen J.
Efficacy of hemodialysis and charcoal hemoperfusion in carbamazepine overdose.
Clin Toxicol 2008; 46: 342-3.

L-carnitine

Chan YC, Tse ML, Lau FL.
Two cases of valproic acid poisoning treated with L-carnitine.
Hum Exp Toxicol 2007; 26: 967-9.

Jung J, Eo E, Ahn KO.
A case of hemoperfusion and L-carnitine management in valproic acid overdose.
Am J Emerg Med 2008; 26: 388.e3-388.e4.

Lipid emulsion therapy

Cave G, Harvey M.
Lipid emulsion therapy in lipophilic drug toxicity.
Ann Emerg Med 2008; 51: 449-50.

Sirianni AJ, Osterhoudt KC, Calello DP, Muller AA, Waterhouse MR, Goodkin MB, Weinberg GL, Henretig FM.
Use of lipid emulsion in the resuscitation of a patient with prolonged cardiovascular collapse after overdose of bupropion and lamotrigine.
Ann Emerg Med 2008; 51: 412-5.

Weinberg GL, Henretig FM.
Lipid emulsion therapy in lipophilic drug toxicity - in reply.
Ann Emerg Med 2008; 51: 450.

Methadone

Fucci N, De Giovanni N, Scarlata S.
Sweat testing in addicts under methadone treatment: an Italian experience.
Forensic Sci Int 2008; 174: 107-10.

Methadone

Gibson A, Degenhardt L, Mattick RP, Ali R, White J, O'Brien S. Exposure to opioid maintenance treatment reduces long-term mortality. *Addiction* 2008; 103: 462-8.

Octreotide

Fasano CJ, O'Malley G, Dominici P, Aguilera E, Latta DR. Comparison of octreotide and standard therapy versus standard therapy alone for the treatment of sulfonylurea-induced hypoglycemia. *Ann Emerg Med* 2008; 51: 400-6.

Surgery

De Beer SA, Spiessens G, Mol W, Fa-Si-Oen PR. Surgery for body packing in the Caribbean: a retrospective study of 70 patients. *World J Surg* 2008; 32: 281-5.

Transplants

Lodge JPA, Dasgupta D, Prasad KR, Attia M, Toogood GJ, Davies M, Millson C, Breslin N, Wyatt J, Robinson PJ, Bellamy MC, Snook N, Pollard SG. Emergency subtotal hepatectomy: a new concept for acetaminophen-induced acute liver failure - temporary hepatic support by auxiliary orthotopic liver transplantation enables long-term success. *Ann Surg* 2008; 247: 238-49.

Wittwer T, Wahlers T. Marginal donor grafts in heart transplantation: lessons learned from 25 years of experience. *Transpl Int* 2008; 21: 113-25.

Yildiz BD, Abbasoglu O, Saglam A, Sokmensuer C. Urgent liver transplantation for Amanita phalloides poisoning. *Pediatr Transplant* 2008; 12: 105-8.

Vitamin C

Kadirvel R, Sundaram K, Mani S, Samuel S, Elango N, Panneerselvam C. Supplementation of ascorbic acid and α -tocopherol prevents arsenic-induced protein oxidation and DNA damage induced by arsenic in rats. *Hum Exp Toxicol* 2007; 26: 939-46.

Vitamin E

Kadirvel R, Sundaram K, Mani S, Samuel S, Elango N, Panneerselvam C. Supplementation of ascorbic acid and α -tocopherol prevents arsenic-induced protein oxidation and DNA damage induced by arsenic in rats. *Hum Exp Toxicol* 2007; 26: 939-46.

Mahata J, Argos M, Verret W, Kibriya MG, Santella RM, Ahsan H. Effect of selenium and vitamin E supplementation on plasma protein carbonyl levels in patients with arsenic-related skin lesions. *Nutr Cancer* 2008; 60: 55-60.

DRUGS

General

Engeland A, Bramness JG, Daltveit AK, Ronning M, Skurtveit S, Furu K. Prescription drug use among fathers and mothers before and during pregnancy. A population-based cohort study of 106 000 pregnancies in Norway 2004-2006. *Br J Clin Pharmacol* 2008; 65: 653-60.

Ferner RE, Beard K. Over the counter medicines: proceed with caution. *Br Med J* 2008; 336: 694-6.

Labat L, Fontaine B, Delzenne C, Doublet A, Marek MC, Tellier D, Tonneau M, Lhermitte M, Frimat P. Prevalence of psychoactive substances in truck drivers in the Nord-Pas-de-Calais region (France). *Forensic Sci Int* 2008; 174: 90-4.

Lessenger JE, Feinberg SD. Abuse of prescription and over-the-counter medications. *J Am Board Fam Med* 2008; 21: 45-54.

Lloyd MJ, Fraunfelder FW. Drug-induced optic neuropathies. *Drugs Today (Barc)* 2007; 43: 827-36.

Mordal J, Bramness JG, Holm B, Morland J. Drugs of abuse among acute psychiatric and medical admissions: laboratory based identification of prevalence and drug influence. *Gen Hosp Psychiatry* 2008; 30: 55-60.

Pandya S. The glycerol tragedy revisited. *Natl Med J India* 2007; 20: 201-2.

Voaklander DC, Rowe BH, Dryden DM, Pahal J, Saar P, Kelly KD. Medical illness, medication use and suicide in seniors: a population-based case control study. *J Epidemiol Community Health* 2008; 62: 138-46.

Wester K, Jonsson AK, Spigset O, Druid H, Hagg S. Incidence of fatal adverse drug reactions: a population based study. *Br J Clin Pharmacol* 2008; 65: 573-9.

Acetaminophen (paracetamol)

Bartels S, Sivilotti M, Crosby D, Richard J. Are recommended doses of acetaminophen hepatotoxic for recently abstinent alcoholics? A randomized trial. *Clin Toxicol* 2008; 46: 243-9.

Fosnocht D, Taylor JR, Caravati EM. Emergency department patient knowledge concerning acetaminophen (paracetamol) in over-the-counter and prescription analgesics. *Emerg Med J* 2008; 25: 213-6.

Kent K, Ganetsky M, Cohen J, Bird S. Non-fatal ventricular dysrhythmias associated with severe salicylate toxicity. *Clin Toxicol* 2008; 46: 297-9.

Lodge JPA, Dasgupta D, Prasad KR, Attia M, Toogood GJ, Davies M, Millson C, Breslin N, Wyatt J, Robinson PJ, Bellamy MC, Snook N, Pollard SG. Emergency subtotal hepatectomy: a new concept for acetaminophen-induced acute liver failure - temporary hepatic support by auxiliary orthotopic liver transplantation enables long-term success. *Ann Surg* 2008; 247: 238-49.

Nicolai J, Gunning B, Leroy PL, Ceuternans B, Vles JSH. Acute hepatic injury in four children with Dravet syndrome: valproic acid, topiramate or acetaminophen? *Seizure* 2008; 17: 92-7.

Terneus MV, Brown JM, Carpenter AB, Valentovic MA. Comparison of S-adenosyl-L-methionine (same) and N-acetylcysteine (NAC) protective effects on hepatic damage when administered after acetaminophen overdose. *Toxicology* 2008; 244: 25-34.

Waring WS, Stephen AFL, Malkowska AM, Robinson ODG. Acute acetaminophen overdose is associated with dose-dependent hypokalaemia: a prospective study of 331 patients. *Basic Clin Pharmacol Toxicol* 2008; 102: 325-8.

Amfebutamone (bupropion)

Sirianni AJ, Osterhoudt KC, Calello DP, Muller AA, Waterhouse MR, Goodkin MB, Weinberg GL, Henretig FM.

Use of lipid emulsion in the resuscitation of a patient with prolonged cardiovascular collapse after overdose of bupropion and lamotrigine.

Ann Emerg Med 2008; 51: 412-5.

Amfetamines and ecstasy

Andersson M, Gustavsson E, Stephanson N, Beck O.

Direct injection LC-MS/MS method for identification and quantification of amphetamine, methamphetamine, 3,4-methylenedioxymphetamine and 3,4-methylenedioxymethamphetamine in urine drug testing.

J Chromatogr B Analyt Technol Biomed Life Sci 2008; 861: 22-8.

McCann UD, Kuwabara H, Kumar A, Palermo M, Abbey R, Brasic J, Ye WG, Alexander M, Dannals RF, Wong DF, Ricaurte GA.

Persistent cognitive and dopamine transporter deficits in abstinent methamphetamine users.

Synapse 2008; 62: 91-100.

Witter RZ, Martyny JW, Mueller K, Gottschall B, Newman LS.

Symptoms experienced by law enforcement personnel during methamphetamine lab investigations.

J Occup Environ Hyg 2007; 4: 895-902.

Wood DM, Button J, Ashraf T, Walker S, Greene SL, Drake N, Ramsey J, Holt DW, Dargan PI.

What evidence is there that the UK should tackle the potential emerging threat of methamphetamine toxicity rather than established recreational drugs such as MDMA ('ecstasy')?

QJM 2008; 101: 207-13.

Yamamoto N, Oda T, Inada T.

Methamphetamine psychosis in which tardive dystonia was successfully treated with clonazepam.

Psychiatry Clin Neurosci 2007; 61: 691-4.

Anabolic steroids

Sanchez-Osorio M, Duarte-Rojo A, Martinez-Benitez B, Torre A, Uribe M.

Anabolic-androgenic steroids and liver injury.

Liver Int 2008; 28: 278-82.

Analgesics

Hsieh PF, Tsan YT, Hung DZ, Hsu CL, Lee YC, Chang MH.

Bromism caused by mix-formulated analgesic injectables.

Hum Exp Toxicol 2007; 26: 971-3.

Antidepressants

Drasch G, Dahlmann F, Von Meyer L, Roeder G, Eisenmenger W.

Frequency of different anti-depressants associated with suicides and drug deaths.

Int J Legal Med 2008; 122: 115-21.

Antiseptics

Fukushima H, Norimoto K, Seki T, Nishiguchi T, Nakamura T, Konobu T, Nishio K, Okuchi K.

Acute pulmonary edema associated with naphazoline ingestion.

Clin Toxicol 2008; 46: 254-6.

Aripiprazole

Lo B, Pizon A.

Delayed presentation of an aripiprazole overdose.

Clin Toxicol 2008; 46: 348-9.

Bromides

Hsieh PF, Tsan YT, Hung DZ, Hsu CL, Lee YC, Chang MH.

Bromism caused by mix-formulated analgesic injectables.

Hum Exp Toxicol 2007; 26: 971-3.

Caffeine

Mortelmans LJM, Van Loo M, De Cauwer HG, Merlevede K.

Seizures and hyponatremia after excessive intake of diet coke.

Eur J Emerg Med 2008; 15: 51.

Calcium channel blockers

Levine M, Boyer EW, Pozner CN, Geib AJ, Thomsen T, Mick NN, Thomas SH.

Inclusion of patients who overdose with dihydropyridine calcium channel blockers would potentially increase clinical utility of hyperglycemia - authors' reply.

Crit Care Med 2008; 36: 662-3.

Winchester DE, Holstege C.

Inclusion of patients who overdose with dihydropyridine calcium channel blockers would potentially increase clinical utility of hyperglycemia.

Crit Care Med 2008; 36: 662.

Cannabis (marijuana)

Bohatyrewicz M, Urasinska E, Rozanski J, Ciechanowski K.

Membranous glomerulonephritis may be associated with heavy marijuana abuse.

Transplant Proc 2007; 39: 3054-6.

Busse F, Omid L, Leichtle A, Windgassen M, Kluge E, Stumvoll M.

Lead poisoning due to adulterated marijuana.

N Engl J Med 2008; 358: 1641-2.

Jones AW, Holmgren A, Kugelberg FC.

Driving under the influence of cannabis: a 10-year study of age and gender differences in the concentrations of tetrahydrocannabinol in blood.

Addiction 2008; 103: 452-61.

Carbamazepine

Odujebi OA, Kato Y, Hoffman RS.

Comment: limited efficacy of gastrointestinal decontamination in severe slow-release carbamazepine overdose.

Ann Pharmacother 2008; 42: 145-6.

Pilapil M, Petersen J.

Efficacy of hemodialysis and charcoal hemoperfusion in carbamazepine overdose.

Clin Toxicol 2008; 46: 342-3.

Carisoprodol

Hoiseith G, Sorlid HK, Bramness J.

Acute intoxications with carisoprodol.

Clin Toxicol 2008; 46: 307-9.

Cathinone

Bentur Y, Bloom-Krasik A, Raikhlin-Eisenkraft B.

Illicit cathinone ("Hagigat") poisoning.

Clin Toxicol 2008; 46: 206-10.

Cibenzoline

Meeus R, Verpooten GA, De Paep R, Paelinck BP, Neels H, Cooreman S, De Doncker M, Jorens PG.

Cibenzoline intoxication: effect of combined hemoperfusion-hemodialysis on plasma clearance.

Clin Toxicol 2008; 46: 303-6.

Clomipramine

Hojer J, Personne M.

Endoscopic removal of slow release clomipramine bezoars in two cases of acute poisoning.

Clin Toxicol 2008; 46: 317-9.

Cocaine

Guinier D, Hubert N, Chopard JL.
Transport de stupéfiants in corpore: problèmes médico-chirurgicaux et médico-légaux. [Surgical and forensic problems of body-packing.] In French with English abstract.
J Chir (Paris) 2007; 144: 481-5.

Schifano F, Corkery J.
Cocaine/crack cocaine consumption, treatment demand, seizures, related offences, prices, average purity levels and deaths in the UK (1990-2004).
J Psychopharmacol 2008; 22: 71-9.

Sopeña B, Rivera A, Rodríguez-Domínguez M, Rodríguez-Rodríguez M, Argibay A, Maure B, Gimena B, Martínez-Vázquez C.
Complicaciones relacionadas con el consumo de cocaína que precisaron ingreso hospitalario. [Complications related with cocaine abuse that required hospital admission.] In Spanish with English abstract.
Rev Clin Esp 2008; 208: 12-7.

Valencia MP, Castillo M.
Congenital and acquired lesions of the nasal septum: a practical guide for differential diagnosis.
Radiographics 2008; 28: 205-23.

Contrast media

Gonzales DA, Norsworthy KJ, Kern SJ, Banks S, Sieving PC, Star RA, Natanson C, Danner RL.
A meta-analysis of N-acetylcysteine in contrast-induced nephrotoxicity: unsupervised clustering to resolve heterogeneity.
BMC Med 2007; 5: 32.

Digoxin

Frommherz L, Kohler H, Brinkmann B, Lehr M, Beike J.
LC-MS assay for quantitative determination of cardio glycoside in human blood samples.
Int J Legal Med 2008; 122: 109-14.

Disulfiram

Filosto M, Tentorio M, Broglio L, Buzio S, Lazzarini C, Pasolini MP, Cotelli MS, Scarpelli M, Mancuso M, Choub A, Padovani A.
Disulfiram neuropathy: two cases of distal axonopathy.
Clin Toxicol 2008; 46: 314-6.

Erythromycin

Buiter HJC, Blaauwgeers JLG, van der Spoel JI, Franssen EJE.
Erythromycin precipitation in vena femoralis: investigation of crystals found in postmortem material of an intensive care unit patient.
Ther Drug Monit 2008; 30: 125-9.

Fluorouracil

Werbrouck BF, Pauwels WJ, De Bleecker JL.
A case of 5-fluorouracil-induced peripheral neuropathy.
Clin Toxicol 2008; 46: 264-6.

Gamma hydroxybutyrate

Knudsen K, Greter J, Verdicchio M.
High mortality rates among GHB abusers in Western Sweden.
Clin Toxicol 2008; 46: 187-92.

Herbal medicines

Bentur Y, Bloom-Krasik A, Raikhlin-Eisenkraft B.
Illicit cathinone ("Hagigat") poisoning.
Clin Toxicol 2008; 46: 206-10.

Eastmond DA, MacGregor JT, Slesinski RS.
Trivalent chromium: assessing the genotoxic risk of an essential trace element and widely used human and animal nutritional supplement.
Crit Rev Toxicol 2008; 38: 173-90.

Eken C, Ozbek K, Yildirim CK, Eray O.
Severe uvular edema and nasal mucosal necrosis due to *Ecbalium elaterium* (squirting cucumber): an allergic reaction or direct toxic effect?
Clin Toxicol 2008; 46: 257-8.

Huang WH, Hsu CW, Fang JT.
Central diabetes insipidus following digestion *Solanum indicum* L. Concentrated solution.
Clin Toxicol 2008; 46: 293-6.

Landelle C, Francony G, Sam-Lai NF, Gaillard Y, Vincent F, Wroblewski I, Danel V.
Poisoning by lavandin extract in a 18-month-old boy.
Clin Toxicol 2008; 46: 279-81.

McGregor AC, Macmillian MH, Ferguson J.
Potter's potions.
Emerg Med J 2008; 25: 217-8.

Poon WT, Ng SW, Lai CK, Chan YW, Mak WL.
Factitious thyrotoxicosis and herbal dietary supplement for weight reduction.
Clin Toxicol 2008; 46: 290-2.

WHO.
WHO guidelines for assessing quality of herbal medicines with reference to contaminants and residues.
Geneva: World Health Organisation, 2007. 105 p.

Heroin (diamorphine)

Kerr D, Dietze P, Kelly AM.
Intranasal naloxone for the treatment of suspected heroin overdose.
Addiction 2008; 103: 379-86.

Hydroxychloroquine

Wong ALN, Cheung ITF, Graham CA.
Hydroxychloroquine overdose: case report and recommendations for management.
Eur J Emerg Med 2008; 15: 16-8.

Insulin

Berz JPB, Orlander JD.
Prolonged cerebellar ataxia: an unusual complication of hypoglycemia.
J Gen Intern Med 2008; 23: 103-5.

Lamotrigine

Sirianni AJ, Osterhoudt KC, Calello DP, Muller AA, Waterhouse MR, Goodkin MB, Weinberg GL, Henretig FM.
Use of lipid emulsion in the resuscitation of a patient with prolonged cardiovascular collapse after overdose of bupropion and lamotrigine.
Ann Emerg Med 2008; 51: 412-5.

Levodopa

Delmas G, Rothmann C, Flesch F.
Acute overdose with controlled-release levodopa-carbidopa.
Clin Toxicol 2008; 46: 274-7.

Lorazepam

Tsao Y-T, Tsai W-C, Yang S-P.
A life-threatening double gap metabolic acidosis.
Am J Emerg Med 2008; 26: 385-6.

Methadone

Fucci N, De Giovanni N, Scarlata S.
Sweat testing in addicts under methadone treatment: an Italian experience.
Forensic Sci Int 2008; 174: 107-10.

Methadone

Gibson A, Degenhardt L, Mattick RP, Ali R, White J, O'Brien S. Exposure to opioid maintenance treatment reduces long-term mortality. *Addiction* 2008; 103: 462-8.

Langford NJ, Ferner RE. Adverse effects of methadone in children. *Adverse Drug React Bull* 2007; 935-8.

Pimentel L, Mayo D. Chronic methadone therapy complicated by torsades de pointes: a case report. *J Emerg Med* 2008; 34: 287-90.

Naphazoline

Fukushima H, Norimoto K, Seki T, Nishiguchi T, Nakamura T, Konobu T, Nishio K, Okuchi K. Acute pulmonary edema associated with naphazoline ingestion. *Clin Toxicol* 2008; 46: 254-6.

Nisoldipine

Miller MA, Levsky ME, Masneri D, Parekh D, Borys D. Nisoldipine exposures. *Am J Emerg Med* 2008; 26: 367-8.

Paroxetine

Ng BKW, Cameron AJD, Liang R, Rahman H. Serotonin syndrome following methylene blue infusion during parathyroidectomy: a case report and literature review. *Can J Anaesth* 2008; 55: 36-41.

Quinine

Verdon W. Clinical electrophysiology in quinine induced retinal toxicity. *Optom Vis Sci* 2008; 85: 17-25.

Salicylates

Kent K, Ganetsky M, Cohen J, Bird S. Non-fatal ventricular dysrhythmias associated with severe salicylate toxicity. *Clin Toxicol* 2008; 46: 297-9.

SSRIs

Evans RW. The FDA alert on serotonin syndrome with combined use of SSRIs or SNRIs and triptans: an analysis of the 29 case reports. *Medscape Gen Med* 2007; 9: 48.

Wheeler BW, Gunnell D, Metcalfe C, Stephens P, Martin RM. The population impact on incidence of suicide and non-fatal self harm of regulatory action against the use of selective serotonin reuptake inhibitors in under 18s in the United Kingdom: ecological study. *Br Med J* 2008; 336: 542-5.

Substance abuse

Anton RF, Kranzler H, Breder C, Marcus RN, Carson WH, Han J. A randomized, multicenter, double-blind, placebo-controlled study of the efficacy and safety of aripiprazole for the treatment of alcohol dependence. *J Clin Psychopharmacol* 2008; 28: 5-12.

Bartels S, Sivilotti M, Crosby D, Richard J. Are recommended doses of acetaminophen hepatotoxic for recently abstinent alcoholics? A randomized trial. *Clin Toxicol* 2008; 46: 243-9.

Bentur Y, Bloom-Krasik A, Raikhlin-Eisenkraft B. Illicit cathinone ("Hagigat") poisoning. *Clin Toxicol* 2008; 46: 206-10.

Bohatyrewicz M, Urasinska E, Rozanski J, Ciechanowski K. Membranous glomerulonephritis may be associated with heavy marijuana abuse. *Transplant Proc* 2007; 39: 3054-6.

Busse F, Omidi L, Leichtle A, Windgassen M, Kluge E, Stumvoll M. Lead poisoning due to adulterated marijuana. *N Engl J Med* 2008; 358: 1641-2.

De Beer SA, Spiessens G, Mol W, Fa-Si-Oen PR. Surgery for body packing in the Caribbean: a retrospective study of 70 patients. *World J Surg* 2008; 32: 281-5.

Draus JM, Jr., Santos AP, Franklin GA, Foley DS. Drug and alcohol use among adolescent blunt trauma patients: dying to get high? *J Pediatr Surg* 2008; 43: 208-11.

Fracasso T, Brinkmann B, Beike J, Pfeiffer H. Clotted blood as sign of alcohol intoxication: a retrospective study. *Int J Legal Med* 2008; 122: 157-61.

Fucci N, De Giovanni N, Scarlata S. Sweat testing in addicts under methadone treatment: an Italian experience. *Forensic Sci Int* 2008; 174: 107-10.

Gibson A, Degenhardt L, Mattick RP, Ali R, White J, O'Brien S. Exposure to opioid maintenance treatment reduces long-term mortality. *Addiction* 2008; 103: 462-8.

Glintborg B, Olsen L, Poulsen H, Linnet K, Dalhoff K. Reliability of self-reported use of amphetamine, barbiturates, benzodiazepines, cannabinoids, cocaine, methadone, and opiates among acutely hospitalized elderly medical patients. *Clin Toxicol* 2008; 46: 239-42.

Guinier D, Hubert N, Chopard JL. Transport de stupéfiants in corpore: problèmes médico-chirurgicaux et médico-légaux. [Surgical and forensic problems of body-packing.] In French with English abstract. *J Chir (Paris)* 2007; 144: 481-5.

Jones AW, Holmgren A, Kugelberg FC. Driving under the influence of cannabis: a 10-year study of age and gender differences in the concentrations of tetrahydrocannabinol in blood. *Addiction* 2008; 103: 452-61.

Kerr D, Dietze P, Kelly AM. Intranasal naloxone for the treatment of suspected heroin overdose. *Addiction* 2008; 103: 379-86.

Knudsen K, Greter J, Verdicchio M. High mortality rates among GHB abusers in Western Sweden. *Clin Toxicol* 2008; 46: 187-92.

Labat L, Fontaine B, Delzenne C, Doublet A, Marek MC, Tellier D, Tonneau M, Lhermitte M, Frimat P. Prevalence of psychoactive substances in truck drivers in the Nord-Pas-de-Calais region (France). *Forensic Sci Int* 2008; 174: 90-4.

Lehrmann E, Afanador ZR, Deep-Soboslay A, Gallegos G, Darwin WD, Lowe RH, Barnes AJ, Huestis MA, Cadet JL, Herman MM, Hyde TM, Kleinman JE, Freed WJ. Postmortem diagnosis and toxicological validation of illicit substance use. *Addict Biol* 2008; 13: 105-17.

Substance abuse

Lessenger JE, Feinberg SD.

Abuse of prescription and over-the-counter medications.
J Am Board Fam Med 2008; 21: 45-54.

McCann UD, Kuwabara H, Kumar A, Palermo M, Abbey R, Brasic J, Ye WG, Alexander M, Dannals RF, Wong DF, Ricaurte GA.

Persistent cognitive and dopamine transporter deficits in abstinent methamphetamine users.
Synapse 2008; 62: 91-100.

McCarty D, Fuller B, Kaskutas LA, Wendt WW, Nunes EV, Miller M, Forman R, Magruder KM, Arfken C, Copersino M, Floyd A, Sindelark J, Edmundson E.

Treatment programs in the National Drug Abuse Treatment Clinical Trials Network.
Drug Alcohol Depend 2008; 92: 200-7.

Meyer S, Steiner M, Mueller H, Nunold H, Gottschling S, Gortner L. Recent trends in the burden of alcohol intoxication on pediatric in-patient services in Germany.

Klin Padiatr 2008; 220: 6-9.

Mordal J, Bramness JG, Holm B, Morland J.

Drugs of abuse among acute psychiatric and medical admissions: laboratory based identification of prevalence and drug influence.
Gen Hosp Psychiatry 2008; 30: 55-60.

Muakkassa FF, Marley RA, Dolinac J, Salvator AE, Workman MC.

The relationship between psychiatric medication and course of hospital stay among intoxicated trauma patients.
Eur J Emerg Med 2008; 15: 19-25.

Mussig K, Schleicher ED, Haring HU, Riessen R.

Satisfactory outcome after severe ethanol-induced lactic acidosis and hypoglycemia.
J Emerg Med 2008; 34: 337-8.

Rayburn WF.

Maternal and fetal effects from substance use.
Clin Perinatol 2007; 34: 559-71.

Sanchez-Osorio M, Duarte-Rojo A, Martinez-Benitez B, Torre A, Uribe M.

Anabolic-androgenic steroids and liver injury.
Liver Int 2008; 28: 278-82.

Schifano F, Corkery J.

Cocaine/crack cocaine consumption, treatment demand, seizures, related offences, prices, average purity levels and deaths in the UK (1990-2004).

J Psychopharmacol 2008; 22: 71-9.

Shea CW.

From the neurobiologic basis of alcohol dependency to pharmacologic treatment strategies: bridging the knowledge gap.
South Med J 2008; 101: 179-85.

Sopeña B, Rivera A, Rodríguez-Domínguez M, Rodríguez-Rodríguez M, Argibay A, Maure B, Gimena B, Martínez-Vázquez C.

Complicaciones relacionadas con el consumo de cocaína que precisaron ingreso hospitalario. [Complications related with cocaine abuse that required hospital admission.] In Spanish with English abstract.

Rev Clin Esp 2008; 208: 12-7.

Valencia MP, Castillo M.

Congenital and acquired lesions of the nasal septum: a practical guide for differential diagnosis.
Radiographics 2008; 28: 205-23.

Witter RZ, Martyny JW, Mueller K, Gottschall B, Newman LS.

Symptoms experienced by law enforcement personnel during methamphetamine lab investigations.
J Occup Environ Hyg 2007; 4: 895-902.

Wood DM, Button J, Ashraf T, Walker S, Greene SL, Drake N, Ramsey J, Holt DW, Dargan PI.

What evidence is there that the UK should tackle the potential emerging threat of methamphetamine toxicity rather than established recreational drugs such as MDMA ('ecstasy')?
QJM 2008; 101: 207-13.

Yamamoto N, Oda T, Inada T.

Methamphetamine psychosis in which tardive dystonia was successfully treated with clonazepam.
Psychiatry Clin Neurosci 2007; 61: 691-4.

Zullino DF, Krenz S, Eap CB, Benguetatt D, Khan R.

Over- and underreporting of recent drug use in subjects entering an inpatient detoxification unit.
Eur J Med Res 2008; 13: 15-20.

Sulfonylureas

Fasano CJ, O'Malley G, Dominici P, Aguilera E, Latta DR.

Comparison of octreotide and standard therapy versus standard therapy alone for the treatment of sulfonylurea-induced hypoglycemia.
Ann Emerg Med 2008; 51: 400-6.

Topiramate

Nicolai J, Gunning B, Leroy PL, Ceuternans B, Vles JSH.

Acute hepatic injury in four children with Dravet syndrome: valproic acid, topiramate or acetaminophen?
Seizure 2008; 17: 92-7.

Tramadol

Torrington ML, Riis A, Christensen S, Thomsen RW, Jepsen P, Sondergaard J, Sorensen HT.

Perforated peptic ulcer and short-term mortality among tramadol users.
Br J Clin Pharmacol 2008; 65: 565-72.

Tranylcypromine

Eyer F, Jetzinger E, Pfab R, Zilker T.

Withdrawal from high-dose tranylcypromine.
Clin Toxicol 2008; 46: 261-3.

Tricyclic antidepressants

Agrawal P, Nadel ES, Brown DF.

Tricyclic antidepressant overdose.
J Emerg Med 2008; 34: 321-5.

Triptans

Evans RW.

The FDA alert on serotonin syndrome with combined use of SSRIs or SNRIs and triptans: an analysis of the 29 case reports.
Medscape Gen Med 2007; 9: 48.

Valproate

Chan YC, Tse ML, Lau FL.

Two cases of valproic acid poisoning treated with L-carnitine.
Hum Exp Toxicol 2007; 26: 967-9.

Jung J, Eo E, Ahn KO.

A case of hemoperfusion and L-carnitine management in valproic acid overdose.
Am J Emerg Med 2008; 26: 388.e3-388.e4.

Nicolai J, Gunning B, Leroy PL, Ceuternans B, Vles JSH.

Acute hepatic injury in four children with Dravet syndrome: valproic acid, topiramate or acetaminophen?
Seizure 2008; 17: 92-7.

Venlafaxine

Hojer J, Hulting J, Salmonson H.

Fatal cardiotoxicity induced by venlafaxine overdosage.
Clin Toxicol 2008; 46: 336-7.

Venlafaxine

Miller T, McGoodwin L, Hagemann T.
Anticholinergic-type effects following a pediatric venlafaxine overdose.
Clin Toxicol 2008; 46: 338-9.

Veterinary products

Woodward KN.
Assessment of user safety, exposure and risk to veterinary medicinal products in the European Union.
Regul Toxicol Pharmacol 2008; 50: 114-28.

Vitamin D

Doneray H, Ozkan B, Caner I, Ozkan A, Karakelleoglu C.
Intragastric alendronate therapy in two infants with vitamin D intoxication: a new method.
Clin Toxicol 2008; 46: 300-2.

CHEMICAL INCIDENTS AND POLLUTION

Air pollution

Arjomandi M, Tager IB, Bastaki M, Chen C, Holland N, Balmes JR.
Is there an association between lifetime cumulative exposure and acute pulmonary responses to ozone?
J Occup Environ Med 2008; 50: 341-9.

Ayres JG.
Long-term exposures to air pollution.
Thorax 2007; 62: 1037-8.

Bell ML, Ebisu K, Belanger K.
Air pollution and birth weight: Bell et al. Respond.
Environ Health Perspect 2008; 116: A106-A107.

Bennett WD, Hazucha MJ, Folinsbee LJ, Bromberg PA, Kissling GE, London SJ.
Acute pulmonary function response to ozone in young adults as a function of body mass index.
Inhal Toxicol 2007; 19: 1147-54.

Biller H.
Feinstaubbelastung - Kardiovaskuläre Erkrankungen assoziiert mit Feinstaubexposition. [Air pollution - cardiovascular diseases associated with air pollution exposure.] In German.
Pneumologie 2007; 61: 560.

Carlsten C, Kaufman JD, Peretz A, Trenga CA, Sheppard L, Sullivan JH.
Coagulation markers in healthy human subjects exposed to diesel exhaust.
Thromb Res 2007; 120: 849-55.

Chang LT, Tang CS, Pan YZ, Chan CC.
Association of heart rate variability of the elderly with personal exposure to PM₁, PM_{1-2.5}, and PM_{2.5-10}.
Bull Environ Contam Toxicol 2007; 79: 552-6.

Chattopadhyay BP, Mukherjee A, Mukherjee K, Roychowdhury A.
Exposure to vehicular pollution and assessment of respiratory function in urban inhabitants.
Lung 2007; 185: 263-70.

Cooke RM, Wilson AM, Tuomisto JT, Morales O, Tainio M, Evans JS.
A probabilistic characterization of the relationship between fine particulate matter and mortality: elicitation of European experts.
Environ Sci Technol 2007; 41: 6598-605.

Davila I, Mullol J, Bartra J, Del Cuvillo A, Ferrer M, Jauregui I, Montoro J, Sastre J, Valero A.
Effect of pollutants upon patients with respiratory allergies.
J Invest Allergol Clin Immunol 2007; 17: 9-20.

Elliott P, Shaddick G, Wakefield JC, de Hoogh C, Briggs DJ.
Long-term associations of outdoor air pollution with mortality in Great Britain.
Thorax 2007; 62: 1088-94.

Frampton MW.
Does inhalation of ultrafine particles cause pulmonary vascular effects in humans?
Inhal Toxicol 2007; 19: 75-9.

Hansen CA, Barnett AG, Pritchard G.
The effect of ambient air pollution during early pregnancy on fetal ultrasonic measurements during mid-pregnancy.
Environ Health Perspect 2008; 116: 362-9.

Heinrich J, Slama R.
Fine particles, a major threat to children.
Int J Hyg Environ Health 2007; 210: 617-22.

Hidy GM.
Smelters and mortality.
Environ Health Perspect 2007; 115: A440-A441.

Holguin F, Flores S, Ross Z, Cortez M, Molina M, Molina L, Rincon C, Jerrett M, Berhane K, Granados A, Romieu I.
Traffic-related exposures, airway function, inflammation, and respiratory symptoms in children.
Am J Respir Crit Care Med 2007; 176: 1236-42.

Holguin F.
Traffic related exposures and lung function in adults.
Thorax 2007; 62: 837-8.

Islam T, Gauderman WJ, Berhane K, McConnell R, Avol E, Peters JM, Gilliland FD.
Relationship between air pollution, lung function and asthma in adolescents.
Thorax 2007; 62: 957-63.

Lee D, Shaddick G.
Time-varying coefficient models for the analysis of air pollution and health outcome data.
Biometrics 2007; 63: 1253-61.

Metzger KB, Klein M, Flanders WD, Peel JL, Mulholland JA, Langberg JJ, Tolbert PE.
Ambient air pollution and cardiac arrhythmias in patients with implantable defibrillators.
Epidemiology 2007; 18: 585-92.

Meyer C, Schueller PO, Hengersdorf M, Kraus T, Goepel E, Schauerte P, Rassaf T, Kelm M.
Die EU-Feinstaub-Richtlinie und das Herz: Wo stehen wir heute in Europa? Aktuelle Entwicklungen zur Prävention von durch Feinstaub getriggerten kardiovaskulären Erkrankungen. [Particulate matter and cardiovascular health in the European Union - time for prevention?] In German with English abstract.
Med Klin 2007; 102: 899-903.

Migliaretti G, Dalmaso P, Gregori D.
Air pollution effects on the respiratory health of the resident adult population in Turin, Italy.
Int J Environ Health Res 2007; 17: 369-79.

Nie J, Beyea J, Bonner MR, Han D, Vena JE, Rogerson P, Vito D, Muti P, Trevisan M, Edge SB, Freudenheim JL.
Exposure to traffic emissions throughout life and risk of breast cancer: the Western New York Exposures and Breast Cancer (WEB) study.
Cancer Causes Control 2007; 18: 947-55.

Oudin A, Bjork J, Stromberg U.
Efficiency of two-phase methods with focus on a planned population-based case-control study on air pollution and stroke.
Environ Health Global Access Sci Source 2007; 6:

Air pollution

Peters A, Schneider A, Greven S, Bellander T, Forastiere F, Ibaldo-Mulli A, Illig T, Jacquemin B, Katsouyanni K, Koenig W, Lanki T, Pekkanen J, Pershagen G, Picciotto S, Ruckerl R, Rosario AS, Stefanadis C, Sunyer J, AIRGENE Study Group.

Air pollution and inflammatory response in myocardial infarction survivors: gene-environment interactions in a high-risk group. *Inhal Toxicol* 2007; 19: 161-75.

Pope CA, III.

Mortality effects of longer term exposures to fine particulate air pollution: review of recent epidemiological evidence. *Inhal Toxicol* 2007; 19: 33-8.

Pope CA, III, Rodermund DL, Gee MM.

Mortality effects of a copper smelter strike and reduced ambient sulfate particulate matter air pollution. *Environ Health Perspect* 2007; 115: 679-83.

Qian Z, He Q, Lin HM, Kong L, Liao D, Dan J, Bentley CM, Wang B. Association of daily cause-specific mortality with ambient particle air pollution in Wuhan, China. *Environ Res* 2007; 105: 380-9.

Ren C, Williams GM, Morawska L, Mengersen K, Tong S. Ozone modifies associations between temperature and cardiovascular mortality: analysis of the NMMAPS data. *Occup Environ Med* 2008; 65: 255-60.

Ritz B, Wilhelm M, Hoggatt KJ, Ghosh JK.

Ambient air pollution and preterm birth in the environment and pregnancy outcomes study at the University of California, Los Angeles. *Am J Epidemiol* 2007; 166: 1045-52.

Rodriguez C, Tonkin R, Heyworth J, Kusel M, De Klerk N, Sly PD, Franklin P, Runnion T, Blockley A, Landau L, Hinwood AL. The relationship between outdoor air quality and respiratory symptoms in young children. *Int J Environ Health Res* 2007; 17: 351-60.

Salam MT.

Air pollution and birth weight in Connecticut and Massachusetts. *Environ Health Perspect* 2008; 116: A106.

Salam MT, Islam T, Gilliland FD.

Recent evidence for adverse effects of residential proximity to traffic sources on asthma. *Curr Opin Pulmon Med* 2008; 14: 3-8.

Stolzel M, Breitner S, Cyrys J, Pitz M, Wolke G, Kreyling W, Heinrich J, Wichmann HE, Peters A.

Daily mortality and particulate matter in different size classes in Erfurt, Germany. *J Expos Sci Environ Epidemiol* 2007; 17: 458-67.

Suglia SF, Gryparis A, Wright RO, Schwartz J, Wright RJ.

Association of black carbon with cognition among children in a prospective birth cohort study. *Am J Epidemiol* 2008; 167: 280-6.

Sun Q, Yue P, Kirk RI, Wang A, Moatti D, Jin X, Lu B, Schecter AD, Lippmann M, Gordon T, Chen LC, Rajagopalan S.

Ambient air particulate matter exposure and tissue factor expression in atherosclerosis. *Inhal Toxicol* 2008; 20: 127-37.

Tecer LH, Alagha O, Karaca F, Tuncel G, Eldes N.

Particulate matter (PM_{2.5}, PM_{10-2.5}, and PM₁₀) and children's hospital admissions for asthma and respiratory diseases: a bidirectional case-crossover study. *J Toxicol Environ Health A* 2008; 71: 512-20.

Topinka J, Sevastyanova O, Binkova B, Chvatalova I, Milcova A, Lnenickova Z, Novakova Z, Solansky I, Sram RJ.

Biomarkers of air pollution exposure - a study of policemen in Prague. *Mutat Res* 2007; 624: 9-17.

Ulirsch GV, Ball LM, Kaye W, Shy CM, Lee CV, Crawford-Brown D, Symons M, Holloway T.

Effect of particulate matter air pollution on hospital admissions and medical visits for lung and heart disease in two southeast Idaho cities. *J Expos Sci Environ Epidemiol* 2007; 17: 478-87.

Wong CM, Ou CQ, Lee NW, Chan KP, Thach TQ, Chau YK, Ho SY, Hedley AJ, Lam TH.

Short-term effects of particulate air pollution on male smokers and never-smokers. *Epidemiology* 2007; 18: 593-8.

Yeatts K, Svendsen E, Creason J, Alexis N, Herbst M, Scott J, Kupper L, Williams R, Neas L, Cascio W, Devlin RB, Peden DB. Coarse particulate matter (PM_{2.5-10}) affects heart rate variability, blood lipids, and circulating eosinophils in adults with asthma. *Environ Health Perspect* 2007; 115: 709-14.

Zanobetti A, Schwartz J.

Particulate air pollution, progression, and survival after myocardial infarction. *Environ Health Perspect* 2007; 115: 769-75.

Zanobetti A, Schwartz J.

Mortality displacement in the association of ozone with mortality: an analysis of 48 cities in the United States. *Am J Respir Crit Care Med* 2008; 177: 184-9.

Chemical incidents, pollution and hazardous waste

Carrasco JM, Perez-Gomez B, Garcia-Mendizabal MJ, Lope V, Aragones N, Forjaz MJ, Guallar-Castillon P, Lopez-Abente G, Rodriguez-Artalejo F, Pollan M.

Health-related quality of life and mental health in the medium-term aftermath of the Prestige oil spill in Galiza (Spain): a cross-sectional study. *BMC Public Health* 2007; 7:

Karouna-Renier NK, Rao KR, Lanza JJ, Davis DA, Wilson PA.

Serum profiles of PCDDs and PCDFs, in individuals near the Escambia Wood Treating Company Superfund site in Pensacola, FL. *Chemosphere* 2007; 69: 1312-9.

Muskat PC.

Mass casualty chemical exposure and implications for respiratory failure. *Respir Care* 2008; 53: 58-63.

Wattigney WA, Kaye WE, Orr MF.

Acute hazardous substance releases resulting in adverse health consequences in children: Hazardous Substances Emergency Events Surveillance system, 1996-2003. *J Environ Health* 2007; 70: 17-24, 45.

Wenck MA, Van Sickle D, Drociuk D, Belflower A, Youngblood C, Whisnant MD, Taylor R, Rudnick V, Gibson JJ.

Rapid assessment of exposure to chlorine released from a train derailment and resulting health impact. *Public Health Rep* 2007; 122: 784-92.

Water pollution

Guidotti TL, Calhoun T, Davies-Cole JO, Knuckles ME, Stokes L, Glymph C, Lum G, Moses MS, Goldsmith DF, Ragain L.

Elevated lead in drinking water in Washington, DC, 2003-2004: the public health response. *Environ Health Perspect* 2007; 115: 695-701.

Water pollution

Humphreys EH, Janssen S, Heil A, Hiatt P, Solomon G, Miller MD. Outcomes of the California ban on pharmaceutical lindane: clinical and ecologic impacts. *Environ Health Perspect* 2008; 116: 297-302.

Richardson SD, Plewa MJ, Wagner ED, Schoeny R, DeMarini DM. Occurrence, genotoxicity, and carcinogenicity of regulated and emerging disinfection by-products in drinking water: a review and roadmap for research. *Mutat Res Rev Mutat Res* 2007; 636: 178-242.

Wang GS, Deng YC, Lin TF. Cancer risk assessment from trihalomethanes in drinking water. *Sci Total Environ* 2007; 387: 86-95.

CHEMICALS

General

Bahadori T, Phillips RD, Money CD, Quackenboss JJ, Clewell HJ, Bus JS, Robison SH, Humphris CJ, Parekh AA, Osborn K, Kauffman RM.

Making sense of human biomonitoring data: findings and recommendations of a workshop. *J Expos Sci Environ Epidemiol* 2007; 17: 308-13.

Cordier S. Evidence for a role of paternal exposures in developmental toxicity. *Basic Clin Pharmacol Toxicol* 2008; 102: 176-81.

Gee D. Establishing evidence for early action: the prevention of reproductive and developmental harm. *Basic Clin Pharmacol Toxicol* 2008; 102: 257-66.

Ojajarvi A, Partanen T, Ahlbom A, Hakulinen T, Kauppinen T, Greim H, (ed.) The MAK-collection for occupational health and safety. Part I: MAK value documentations. Weinheim, Germany: Wiley-VCH, 2007. 192 p.

Weiderpass E, Wesseling C. Estimating the relative risk of pancreatic cancer associated with exposure agents in job title data in a hierarchical Bayesian meta-analysis. *Scand J Work Environ Health* 2007; 33: 325-35.

Waters M, Stasiewicz S, Merrick BA, Tomer K, Bushel P, Paules R, Stegman N, Nehls G, Yost KJ, Johnson CH, Gustafson SF, Xirasagar S, Xiao N, Huang CC, Boyer P, Chan DD, Pan Q, Gong H, Taylor J, Choi D, Rashid A, Ahmed A, Howie R, Selkirk J, Tennant R, Fostel J. CEBS - Chemical Effects in Biological Systems: a public data repository integrating study design and toxicity data with microarray and proteomics data. *Nucleic Acids Res* 2008; 36: D892-D900.

Watson R. Exposure to chemicals may contribute to risk of breast cancer, report says. *Br Med J* 2008; 336: 797-8.

Acrylonitrile

Anon. Acrylonitrile. *in* The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 1-40. Weinheim, Germany: Wiley-VCH, 2007.

Alcohol (ethanol)

Aliab'ev FV, Paderov IuM, Novoselov VP, Iaushev TR. [Morphofunctional interaction of adrenal zones in acute lethal carbon monoxide poisoning in people with alcoholic intoxication]. In Russian with English abstract. *Sud Med Ekspert* 2007; 50: 6-9.

Anton RF, Kranzler H, Breder C, Marcus RN, Carson WH, Han J. A randomized, multicenter, double-blind, placebo-controlled study of the efficacy and safety of aripiprazole for the treatment of alcohol dependence. *J Clin Psychopharmacol* 2008; 28: 5-12.

Bartels S, Sivilotti M, Crosby D, Richard J. Are recommended doses of acetaminophen hepatotoxic for recently abstinent alcoholics? A randomized trial. *Clin Toxicol* 2008; 46: 243-9.

Draus JM, Jr., Santos AP, Franklin GA, Foley DS. Drug and alcohol use among adolescent blunt trauma patients: dying to get high? *J Pediatr Surg* 2008; 43: 208-11.

Fracasso T, Brinkmann B, Beike J, Pfeiffer H. Clotted blood as sign of alcohol intoxication: a retrospective study. *Int J Legal Med* 2008; 122: 157-61.

Meyer S, Steiner M, Mueller H, Nunold H, Gottschling S, Gortner L. Recent trends in the burden of alcohol intoxication on pediatric in-patient services in Germany. *Klin Padiatr* 2008; 220: 6-9.

Muakkassa FF, Marley RA, Dolinak J, Salvator AE, Workman MC. The relationship between psychiatric medication and course of hospital stay among intoxicated trauma patients. *Eur J Emerg Med* 2008; 15: 19-25.

Mussig K, Schleicher ED, Haring HU, Riessen R. Satisfactory outcome after severe ethanol-induced lactic acidosis and hypoglycemia. *J Emerg Med* 2008; 34: 337-8.

Papadodima SA, Athanaselis SA, Stefanidou ME, Dona AA, Papoutsis I, Maravelias CP, Spiliopoulou CA. Driving under the influence in Greece: a 7-year survey (1998-2004). *Forensic Sci Int* 2008; 174: 157-60.

Shea CW. From the neurobiologic basis of alcohol dependency to pharmacologic treatment strategies: bridging the knowledge gap. *South Med J* 2008; 101: 179-85.

Soffritti M, Belpoggi F, Esposti DD, Falcioni L, Bua L. Consequences of exposure to carcinogens beginning during developmental life. *Basic Clin Pharmacol Toxicol* 2008; 102: 118-24.

Aspartame

Mortelmans LJM, Van Loo M, De Cauwer HG, Merlevede K. Seizures and hyponatremia after excessive intake of diet coke. *Eur J Emerg Med* 2008; 15: 51.

Soffritti M, Belpoggi F, Esposti DD, Falcioni L, Bua L. Consequences of exposure to carcinogens beginning during developmental life. *Basic Clin Pharmacol Toxicol* 2008; 102: 118-24.

Benzene

Natelson EA. Benzene exposure and refractory sideroblastic erythropoiesis: is there an association? *Am J Med Sci* 2007; 334: 356-60.

Richardson DB. Temporal variation in the association between benzene and leukemia mortality. *Environ Health Perspect* 2008; 116: 370-4.

Boron trifluoride

Winker R, Roos G, Pilger A, Rudiger HW.
Effect of occupational safety measures on micronucleus frequency in semiconductor workers.
Int Arch Occup Environ Health 2008; 81: 423-8.

Butylated hydroxytoluene

Anon.
2,6-Di-*tert*-butyl-*p*-cresol (BHT).
in The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 157-215. Weinheim, Germany: Wiley-VCH, 2007.

Calcium cyanamide

Anon.
Calcium cyanamide.
in The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 41-9. Weinheim, Germany: Wiley-VCH, 2007.

Carbon monoxide

Aliab'ev FV, Paderov IuM, Novoselov VP, Iaushev TR.
[Morphofunctional interaction of adrenal zones in acute lethal carbon monoxide poisoning in people with alcoholic intoxication]. In Russian with English abstract.
Sud Med Ekspert 2007; 50: 6-9.

Crawford DM, Hampson NB.
Fire and ice: diagnosis of carbon monoxide poisoning in a remote environment.
Emerg Med J 2008; 25: 235-6.

Ozyurt G, Kaya FN, Kahveci F, Alper E.
Comparison of SPECT findings and neuropsychological sequelae in carbon monoxide and organophosphate poisoning.
Clin Toxicol 2008; 46: 218-21.

Ritz B, Wilhelm M, Hoggatt KJ, Ghosh JK.
Ambient air pollution and preterm birth in the environment and pregnancy outcomes study at the University of California, Los Angeles.
Am J Epidemiol 2007; 166: 1045-52.

Wittwer T, Wahlers T.
Marginal donor grafts in heart transplantation: lessons learned from 25 years of experience.
Transpl Int 2008; 21: 113-25.

Yang CC, Ger J, Li CF.
Formic acid: a rare but deadly source of carbon monoxide poisoning.
Clin Toxicol 2008; 46: 287-9.

Chlorine

Wenck MA, Van Sickle D, Drociuk D, Belflower A, Youngblood C, Whisnant MD, Taylor R, Rudnick V, Gibson JJ.
Rapid assessment of exposure to chlorine released from a train derailment and resulting health impact.
Public Health Rep 2007; 122: 784-92.

Corrosives

Sheibani S, Gerson LB.
Chemical colitis.
J Clin Gastroenterol 2008; 42: 115-21.

Crotonaldehyde (β -methacrolein)

Anon.
Crotonaldehyde.
in The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 51-73. Weinheim, Germany: Wiley-VCH, 2007.

Cyanamide

Anon.
Cyanamide.
in The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 75-118. Weinheim, Germany: Wiley-VCH, 2007.

Cyanoacrylates

Prouty H, Adams DS, Heard K.
Evaluation of treatments for cyanoacrylate eyelash adhesion using an *in-vitro* model.
Cutan Ocul Toxicol 2008; 27: 11-4.

Dicyanodiamide

Anon.
Dicyanodiamide.
in The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 119-32. Weinheim, Germany: Wiley-VCH, 2007.

Diethylene glycol

Kraut JA, Kurtz I.
Toxic alcohol ingestions: clinical features, diagnosis, and management.
Clin J Am Soc Nephrol 2008; 3: 208-25.

Dioxins

Karouna-Renier NK, Rao KR, Lanza JJ, Davis DA, Wilson PA.
Serum profiles of PCDDs and PCDFs, in individuals near the Escambia Wood Treating Company Superfund site in Pensacola, FL.
Chemosphere 2007; 69: 1312-9.

Kishi R, Sata F, Yoshioka E, Ban S, Sasaki S, Konishi K, Washino N.
Exploiting gene-environment interaction to detect adverse health effects of environmental chemicals on the next generation.
Basic Clin Pharmacol Toxicol 2008; 102: 191-203.

Lee DH, Lee IK, Porta M, Steffes M, Jacobs DR, Jr.
Relationship between serum concentrations of persistent organic pollutants and the prevalence of metabolic syndrome among non-diabetic adults: results from the National Health and Nutrition Examination Survey 1999-2002.
Diabetologia 2007; 50: 1841-51.

Mead MN.
Chemical exposures: cancer and TCDD: the mitochondrial connection.
Environ Health Perspect 2008; 116: A112.

Michalek JE, Pavuk M.
Diabetes and cancer in veterans of operation ranch hand after adjustment for calendar period, days of spraying, and time spent in southeast Asia.
J Occup Environ Med 2008; 50: 330-40.

Disinfection by-products

Richardson SD, Plewa MJ, Wagner ED, Schoeny R, DeMarini DM.
Occurrence, genotoxicity, and carcinogenicity of regulated and emerging disinfection by-products in drinking water: a review and roadmap for research.
Mutat Res Rev Mutat Res 2007; 636: 178-242.

Wang GS, Deng YC, Lin TF.
Cancer risk assessment from trihalomethanes in drinking water.
Sci Total Environ 2007; 387: 86-95.

Dyes

Malachite green

Spiller H, Rodgers G, Willias D, Bosse G, Sullivan J.
Methemoglobinemia due to malachite green ingestion in a child.
Clin Toxicol 2008; 46: 320-1.

Essential oils

Bakkali F, Averbeck S, Averbeck D, Idaomar M.
Biological effects of essential oils - a review.
Food Chem Toxicol 2008; 46: 446-75.

Landelle C, Francony G, Sam-Lai NF, Gaillard Y, Vincent F, Wroblewski I, Danel V.
Poisoning by lavandin extract in a 18-month-old boy.
Clin Toxicol 2008; 46: 279-81.

Ethylbenzene

Janasik B, Jakubowski M, Jalowiecki P.
Excretion of unchanged volatile organic compounds (toluene, ethylbenzene, xylene and mesitylene) in urine as result of experimental human volunteer exposure.
Int Arch Occup Environ Health 2008; 81: 443-9.

Ethylene glycol

Kraut JA, Kurtz I.
Toxic alcohol ingestions: clinical features, diagnosis, and management.
Clin J Am Soc Nephrol 2008; 3: 208-25.

Pomara C, Fiore C, D'Errico S, Riezzo I, Fineschi V.
Calcium oxalate crystals in acute ethylene glycol poisoning: a confocal laser scanning microscope study in a fatal case.
Clin Toxicol 2008; 46: 322-4.

Ethylene glycol monoalkyl ethers

Starek A, Szymczak W, Zapor L.
Hematological effects of four ethylene glycol monoalkyl ethers in short-term repeated exposure in rats.
Arch Toxicol 2008; 82: 125-36.

Fire retardants

Thomsen C, Molander P, Daae HL, Janak K, Froshaug M, Liane VH, Thorud S, Becher G, Dybing E.
Occupational exposure to hexabromocyclododecane at an industrial plant.
Environ Sci Technol 2007; 41: 5210-6.

Fluorocarbons

Gotelli MJ, Monserrat AJ, Balbo AL, Quintana EF, Gotelli C.
Freon: accidental ingestion and gastric perforation.
Clin Toxicol 2008; 46: 325-8.

Formaldehyde

Bosetti C, McLaughlin JK, Tarone RE, Pira E, La Vecchia C.
Formaldehyde and cancer risk: a quantitative review of cohort studies through 2006.
Ann Oncol 2008; 19: 29-43.

Thompson CM, Grafström RC.
Mechanistic considerations for formaldehyde-induced bronchoconstriction involving S-nitrosoglutathione reductase.
J Toxicol Environ Health A 2008; 71: 244-8.

Gasoline (petrol)

Frolke JP, Poels TC.
Gasoline contact burns after a car accident.
J Burn Care Res 2007; 28: 773-4.

Kranjcec D, Bergovec M, Rougier JS, Raguz M, Pavlovic S, Jespersen T, Castella V, Keller DI, Abriel H.
Brugada syndrome unmasked by accidental inhalation of gasoline vapors.
Pacing Clin Electrophysiol 2007; 30: 1294-8.

Glycerol

Pandya S.
The glycerol tragedy revisited.
Natl Med J India 2007; 20: 201-2.

Hexabromocyclododecane

Thomsen C, Molander P, Daae HL, Janak K, Froshaug M, Liane VH, Thorud S, Becher G, Dybing E.
Occupational exposure to hexabromocyclododecane at an industrial plant.
Environ Sci Technol 2007; 41: 5210-6.

Hydrocarbons

Aomar-Millán I, Pérez-Fernández L, Pardo-Cabello A, Sánchez-Cano D, Cantero-Hinojosa J.
Neumonitis por gasolina: presentación de una intoxicación con fines autolíticos. [Fuel induced pneumonitis. As a consequence of a suicide attempt.] In Spanish.
An Med Interna 2007; 24: 404-5.

Hydrogen chloride

Anon.
Hydrogen chloride.
in The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 133-47. Weinheim, Germany: Wiley-VCH, 2007.

Hydrogen cyanamide

Foti C, Bonamonte D, Conserva A, Pepe ML, Soleo L, Angelini G.
Allergic contact dermatitis with a fertilizer containing hydrogen cyanamide (Dormex®).
Cutan Ocul Toxicol 2008; 27: 1-3.

Hydrogen sulfide

Oesterhelweg L, Puschel K.
"Death may come on like a stroke of lightning ..." - phenomenological and morphological aspects of fatalities caused by manure gas.
Int J Legal Med 2008; 122: 101-7.

Policastro MA, Otten EJ.
Case files of the University of Cincinnati fellowship in medical toxicology: two patients with acute lethal occupational exposure to hydrogen sulfide.
J Med Toxicol 2007; 3: 73-81.

Simonton DS, Spears M.
Human health effects from exposure to low-level concentrations of hydrogen sulfide.
Occup Health Saf 2007; 76: 102, 104.

Iodine

Restani P, Persico A, Ballabio C, Moro E, Fuggetta D, Colombo ML.
Analysis of food supplements containing iodine: a survey of Italian market.
Clin Toxicol 2008; 46: 282-6.

Isopropanol

Vujasinovic M, Kocar M, Kramer K, Bunc M, Brvar M.
Poisoning with 1-propanol and 2-propanol.
Hum Exp Toxicol 2007; 26: 975-8.

Kerosene

WHO EMRO Pediatric Hydrocarbon Study Group, Bond GR, Pièche S, Sonicki Z, Gamaluddin H, Guindi ME, Sakr M, Seddawy AE, Abouzaid M, Youssef A.
A clinical decision rule for triage of children under 5 years of age with hydrocarbon (kerosene) aspiration in developing countries.
Clin Toxicol 2008; 46: 222-9.

Metalworking fluids

Anon.

Metal-working fluid components: 5-chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-dihydroisothiazol-3-one.

in The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 264. Weinheim, Germany: Wiley-VCH, 2007.

Methanol

Kraut JA, Kurtz I.

Toxic alcohol ingestions: clinical features, diagnosis, and management.

Clin J Am Soc Nephrol 2008; 3: 208-25.

Mora-Ordóñez JM, Martin D, Balsera EC, Bono JM.

Intoxicación mortal por metanol: donante de órganos. [Patient with fatal methanol intoxication - organ donor.] In Spanish.

Med Clin (Barc) 2008; 130: 39.

Nitrogen dioxide

Oudin A, Bjork J, Stromberg U.

Efficiency of two-phase methods with focus on a planned population-based case-control study on air pollution and stroke.

Environ Health Global Access Sci Source 2007; 6:

Ozone

Arjomandi M, Tager IB, Bastaki M, Chen C, Holland N, Balmes JR.

Is there an association between lifetime cumulative exposure and acute pulmonary responses to ozone?

J Occup Environ Med 2008; 50: 341-9.

Bennett WD, Hazucha MJ, Folinsbee LJ, Bromberg PA, Kissling GE, London SJ.

Acute pulmonary function response to ozone in young adults as a function of body mass index.

Inhal Toxicol 2007; 19: 1147-54.

Ren C, Williams GM, Morawska L, Mengersen K, Tong S.

Ozone modifies associations between temperature and cardiovascular mortality: analysis of the NMMAPS data.

Occup Environ Med 2008; 65: 255-60.

Zanobetti A, Schwartz J.

Mortality displacement in the association of ozone with mortality: an analysis of 48 cities in the United States.

Am J Respir Crit Care Med 2008; 177: 184-9.

Petroleum oils

Carrasco JM, Perez-Gomez B, Garcia-Mendizabal MJ, Lope V, Aragonés N, Forjaz MJ, Guallar-Castillon P, Lopez-Abente G, Rodriguez-Artalejo F, Pollan M.

Health-related quality of life and mental health in the medium-term aftermath of the Prestige oil spill in Galiza (Spain): a cross-sectional study.

BMC Public Health 2007; 7:

Meo SA, Al-Drees AM, Meo IMU, Al-Saadi MM, Azeem MA.

Lung function in subjects exposed to crude oil spill into sea water.

Marine Pollut Bull 2008; 56: 88-94.

Phenol

Gupta S, Ashrith G, Chandra D, Gupta AK, Finkel KW, Guntupalli JS.

Acute phenol poisoning: a life-threatening hazard of chronic pain relief.

Clin Toxicol 2008; 46: 250-3.

PM10

Carlsten C, Kaufman JD, Peretz A, Trenga CA, Sheppard L, Sullivan JH.

Coagulation markers in healthy human subjects exposed to diesel exhaust.

Thromb Res 2007; 120: 849-55.

Chang LT, Tang CS, Pan YZ, Chan CC.

Association of heart rate variability of the elderly with personal exposure to PM₁, PM_{1-2.5}, and PM_{2.5-10}.

Bull Environ Contam Toxicol 2007; 79: 552-6.

Cooke RM, Wilson AM, Tuomisto JT, Morales O, Tainio M, Evans JS.

A probabilistic characterization of the relationship between fine particulate matter and mortality: elicitation of European experts.

Environ Sci Technol 2007; 41: 6598-605.

Elliott P, Shaddick G, Wakefield JC, de Hoogh C, Briggs DJ.

Long-term associations of outdoor air pollution with mortality in Great Britain.

Thorax 2007; 62: 1088-94.

Frampton MW.

Does inhalation of ultrafine particles cause pulmonary vascular effects in humans?

Inhal Toxicol 2007; 19: 75-9.

Heinrich J, Slama R.

Fine particles, a major threat to children.

Int J Hyg Environ Health 2007; 210: 617-22.

Hidy GM.

Smelters and mortality.

Environ Health Perspect 2007; 115: A440-A441.

Metzger KB, Klein M, Flanders WD, Peel JL, Mulholland JA, Langberg JJ, Tolbert PE.

Ambient air pollution and cardiac arrhythmias in patients with implantable defibrillators.

Epidemiology 2007; 18: 585-92.

Meyer C, Schueller PO, Hennersdorf M, Kraus T, Goepel E, Schauerte P, Rassaf T, Kelm M.

Die EU-Feinstaub-Richtlinie und das Herz: Wo stehen wir heute in Europa? Aktuelle Entwicklungen zur Prävention von durch Feinstaub getriggerten kardiovaskulären Erkrankungen.

[Particulate matter and cardiovascular health in the European Union - time for prevention?] In German with English abstract.

Med Klin 2007; 102: 899-903.

Pope CA, III.

Mortality effects of longer term exposures to fine particulate air pollution: review of recent epidemiological evidence.

Inhal Toxicol 2007; 19: 33-8.

Pope CA, III, Rodermund DL, Gee MM.

Mortality effects of a copper smelter strike and reduced ambient sulfate particulate matter air pollution.

Environ Health Perspect 2007; 115: 679-83.

Qian Z, He Q, Lin HM, Kong L, Liao D, Dan J, Bentley CM, Wang B.

Association of daily cause-specific mortality with ambient particle air pollution in Wuhan, China.

Environ Res 2007; 105: 380-9.

Ritz B, Wilhelm M, Hoggatt KJ, Ghosh JK.

Ambient air pollution and preterm birth in the environment and pregnancy outcomes study at the University of California, Los Angeles.

Am J Epidemiol 2007; 166: 1045-52.

Stolzel M, Breitner S, Cyrus J, Pitz M, Wolke G, Kreyling W, Heinrich J, Wichmann HE, Peters A.

Daily mortality and particulate matter in different size classes in Erfurt, Germany.

J Expos Sci Environ Epidemiol 2007; 17: 458-67.

Sun Q, Yue P, Kirk RI, Wang A, Moatti D, Jin X, Lu B, Schecter AD, Lippmann M, Gordon T, Chen LC, Rajagopalan S.

Ambient air particulate matter exposure and tissue factor expression in atherosclerosis.

Inhal Toxicol 2008; 20: 127-37.

PM10

Tecer LH, Alagha O, Karaca F, Tuncel G, Eldes N. Particulate matter (PM_{2.5}, PM_{10-2.5}, and PM₁₀) and children's hospital admissions for asthma and respiratory diseases: a bidirectional case-crossover study. *J Toxicol Environ Health A* 2008; 71: 512-20.

Topinka J, Sevastyanova O, Binkova B, Chvatalova I, Milcova A, Lnenickova Z, Novakova Z, Solansky I, Sram RJ. Biomarkers of air pollution exposure - a study of policemen in Prague. *Mutat Res* 2007; 624: 9-17.

Ulirsch GV, Ball LM, Kaye W, Shy CM, Lee CV, Crawford-Brown D, Symons M, Holloway T. Effect of particulate matter air pollution on hospital admissions and medical visits for lung and heart disease in two southeast Idaho cities. *J Expos Sci Environ Epidemiol* 2007; 17: 478-87.

Wong CM, Ou CQ, Lee NW, Chan KP, Thach TQ, Chau YK, Ho SY, Hedley AJ, Lam TH. Short-term effects of particulate air pollution on male smokers and never-smokers. *Epidemiology* 2007; 18: 593-8.

Yeatts K, Svendsen E, Creason J, Alexis N, Herbst M, Scott J, Kupper L, Williams R, Neas L, Cascio W, Devlin RB, Peden DB. Coarse particulate matter (PM_{2.5-10}) affects heart rate variability, blood lipids, and circulating eosinophils in adults with asthma. *Environ Health Perspect* 2007; 115: 709-14.

Zanobetti A, Schwartz J. Particulate air pollution, progression, and survival after myocardial infarction. *Environ Health Perspect* 2007; 115: 769-75.

Polybrominated diphenyl ethers

Athanasiadou M, Cuadra SN, Marsh G, Bergman A, Jakobsson K. Polybrominated diphenyl ethers (PBDEs) and bioaccumulative hydroxylated PBDE metabolites in young humans from Managua, Nicaragua. *Environ Health Perspect* 2008; 116: 400-8.

Qu W, Bi X, Sheng G, Lu S, Fu J, Yuan J, Li L. Exposure to polybrominated diphenyl ethers among workers at an electronic waste dismantling region in Guangdong, China. *Environ Int* 2007; 33: 1029-34.

Polychlorinated biphenyls

Bonde JP, Toft G, Rylander L, Rignell-Hydbom A, Giwercman A, Spano M, Manicardi GC, Bizzaro D, Ludwicki JK, Zvezday V, Bonefeld-Jorgensen EC, Pedersen HS, Jonsson BA, Thulstrup AM. Fertility and markers of male reproductive function in Inuit and European populations spanning large contrasts in blood levels of persistent organochlorines. *Environ Health Perspect* 2008; 116: 269-77.

Kishi R, Sata F, Yoshioka E, Ban S, Sasaki S, Konishi K, Washino N. Exploiting gene-environment interaction to detect adverse health effects of environmental chemicals on the next generation. *Basic Clin Pharmacol Toxicol* 2008; 102: 191-203.

Lee DH, Lee IK, Porta M, Steffes M, Jacobs DR, Jr. Relationship between serum concentrations of persistent organic pollutants and the prevalence of metabolic syndrome among non-diabetic adults: results from the National Health and Nutrition Examination Survey 1999-2002. *Diabetologia* 2007; 50: 1841-51.

Polychlorinated dibenzofurans

Kishi R, Sata F, Yoshioka E, Ban S, Sasaki S, Konishi K, Washino N. Exploiting gene-environment interaction to detect adverse health effects of environmental chemicals on the next generation. *Basic Clin Pharmacol Toxicol* 2008; 102: 191-203.

Polycyclic aromatic hydrocarbons

Boogaard PJ. Urinary biomarkers in the risk assessment of PAHs. *Occup Environ Med* 2008; 65: 221-2.

Förster K, Preuss R, Roßbach B, Brüning T, Angerer J, Simon P. 3-Hydroxybenzo[a]pyrene in the urine of workers with occupational exposure to polycyclic aromatic hydrocarbons in different industries. *Occup Environ Med* 2008; 65: 224-9.

Polymers

Leonard RC, Kreckmann KH, Sakr CJ, Symons JM. Retrospective cohort mortality study of workers in a polymer production plant including a reference population of regional workers. *Ann Epidemiol* 2008; 18: 15-22.

Propanol

Vujasinovic M, Kocar M, Kramer K, Bunc M, Brvar M. Poisoning with 1-propanol and 2-propanol. *Hum Exp Toxicol* 2007; 26: 975-8.

Propylene glycol

Kraut JA, Kurtz I. Toxic alcohol ingestions: clinical features, diagnosis, and management. *Clin J Am Soc Nephrol* 2008; 3: 208-25.

Tsao Y-T, Tsai W-C, Yang S-P. A life-threatening double gap metabolic acidosis. *Am J Emerg Med* 2008; 26: 385-6.

Silica

Mancuso JD, McCoy J, Pelka B, Kahn PJ, Gaydos JC. The challenge of controlling lead and silica exposures from firing ranges in a special operations force. *Mil Med* 2008; 173: 182-6.

Smoke

Golka K, Weistenhofer W. Fire fighters, combustion products, and urothelial cancer. *J Toxicol Environ Health B Crit Rev* 2008; 11: 32-44.

Sodium chromate

Hantson P, Bernard A, Hermans C. Kinetics and determinants of the changes of CC16, a lung secretory protein in a rat model of toxic lung injury. *Clin Toxicol* 2008; 46: 230-8.

Solvents

Fuente A, McPherson B. Central auditory damage induced by solvent exposure. *Int J Occup Saf Ergon* 2007; 13: 391-7.

Rabinowitz PM, Galusha D, Slade MD, Dixon-Ernst C, O'Neill A, Fiellin M, Cullen MR. Organic solvent exposure and hearing loss in a cohort of aluminium workers. *Occup Environ Med* 2008; 65: 230-5.

Sliwinska-Kowalska M. Organic solvent exposure and hearing loss. *Occup Environ Med* 2008; 65: 222-3.

Sulfur dioxide

Elliott P, Shaddick G, Wakefield JC, de Hoogh C, Briggs DJ. Long-term associations of outdoor air pollution with mortality in Great Britain. *Thorax* 2007; 62: 1088-94.

Hidy GM. Smelters and mortality. *Environ Health Perspect* 2007; 115: A440-A441.

Pope CA, III, Rodermund DL, Gee MM. Mortality effects of a copper smelter strike and reduced ambient sulfate particulate matter air pollution. *Environ Health Perspect* 2007; 115: 679-83.

Surfactants

Hsiao C-T, Lin L-J, Hsiao K-Y, Chou M-H, Hsiao S-H. Acute pancreatitis caused by severe glyphosate-surfactant oral intoxication. *Am J Emerg Med* 2008; 26: 384-5.

Lee CH, Shih CP, Hsu KH, Hung DZ, Lin CC. The early prognostic factors of glyphosate-surfactant intoxication. *Am J Emerg Med* 2008; 26: 275-81.

Talc

Wild P, Leodolter K, Réfrégier M, Schmidt H, Bourgkard E. Effects of talc dust on respiratory health: results of a longitudinal survey of 378 French and Austrian talc workers. *Occup Environ Med* 2008; 65: 261-7.

Toluene

Janasik B, Jakubowski M, Jalowiecki P. Excretion of unchanged volatile organic compounds (toluene, ethylbenzene, xylene and mesitylene) in urine as result of experimental human volunteer exposure. *Int Arch Occup Environ Health* 2008; 81: 443-9.

Trichloroethylene

Anon. Trichloroethylene. *In* The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 149-58. Weinheim, Germany: Wiley-VCH, 2007.

Trihalomethanes

Wang GS, Deng YC, Lin TF. Cancer risk assessment from trihalomethanes in drinking water. *Sci Total Environ* 2007; 387: 86-95.

Trimethylbenzene

Janasik B, Jakubowski M, Jalowiecki P. Excretion of unchanged volatile organic compounds (toluene, ethylbenzene, xylene and mesitylene) in urine as result of experimental human volunteer exposure. *Int Arch Occup Environ Health* 2008; 81: 443-9.

Tungsten carbide

Anon. Hard metal containing tungsten carbide and cobalt (inhalable fraction). *In* The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 217-34. Weinheim, Germany: Wiley-VCH, 2007.

Vehicle exhaust

Carlsten C, Kaufman JD, Peretz A, Trenga CA, Sheppard L, Sullivan JH. Coagulation markers in healthy human subjects exposed to diesel exhaust. *Thromb Res* 2007; 120: 849-55.

Chattopadhyay BP, Mukherjee A, Mukherjee K, Roychowdhury A. Exposure to vehicular pollution and assessment of respiratory function in urban inhabitants. *Lung* 2007; 185: 263-70.

Davila I, Mullol J, Bartra J, Del Cuvillo A, Ferrer M, Jauregui I, Montoro J, Sastre J, Valero A. Effect of pollutants upon patients with respiratory allergies. *J Invest Allergol Clin Immunol* 2007; 17: 9-20.

Holguin F, Flores S, Ross Z, Cortez M, Molina M, Molina L, Rincon C, Jerrett M, Berhane K, Granados A, Romieu I. Traffic-related exposures, airway function, inflammation, and respiratory symptoms in children. *Am J Respir Crit Care Med* 2007; 176: 1236-42.

Holguin F. Traffic related exposures and lung function in adults. *Thorax* 2007; 62: 837-8.

Nie J, Beyea J, Bonner MR, Han D, Vena JE, Rogerson P, Vito D, Muti P, Trevisan M, Edge SB, Freudenheim JL. Exposure to traffic emissions throughout life and risk of breast cancer: the Western New York Exposures and Breast Cancer (WEB) study. *Cancer Causes Control* 2007; 18: 947-55.

Salam MT, Islam T, Gilliland FD. Recent evidence for adverse effects of residential proximity to traffic sources on asthma. *Curr Opin Pulmon Med* 2008; 14: 3-8.

Suglia SF, Gryparis A, Wright RO, Schwartz J, Wright RJ. Association of black carbon with cognition among children in a prospective birth cohort study. *Am J Epidemiol* 2008; 167: 280-6.

Vinyl acetate

Soffritti M, Belpoggi F, Esposti DD, Falcioni L, Bua L. Consequences of exposure to carcinogens beginning during developmental life. *Basic Clin Pharmacol Toxicol* 2008; 102: 118-24.

Xylene

Janasik B, Jakubowski M, Jalowiecki P. Excretion of unchanged volatile organic compounds (toluene, ethylbenzene, xylene and mesitylene) in urine as result of experimental human volunteer exposure. *Int Arch Occup Environ Health* 2008; 81: 443-9.

METALS

General

Greim H, (ed.) The MAK-collection for occupational health and safety. Part I: MAK value documentations. Weinheim, Germany: Wiley-VCH, 2007. 301 p.

Nordberg GF, Fowler BA, Nordberg M, Friberg LT, (eds) Handbook on the toxicology of metals. 3 ed. Amsterdam: Elsevier Science Publishers, 2007. 975 p.

Aluminum

Rabinowitz PM, Galusha D, Slade MD, Dixon-Ernst C, O'Neill A, Fiellin M, Cullen MR. Organic solvent exposure and hearing loss in a cohort of aluminium workers. *Occup Environ Med* 2008; 65: 230-5.

Antimony

Anon. Antimony and its inorganic compounds (inhalable fraction). *In* The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 1-73. Weinheim, Germany: Wiley-VCH, 2007.

Arsenic

Breton CV, Kile ML, Catalano PJ, Hoffman E, Quamruzzaman Q, Rahman M, Mahiuddin G, Christiani DC. GSTM1 and APE1 genotypes affect arsenic-induced oxidative stress: a repeated measures study. *Environ Health Global Access Sci Source* 2007; 6: 39.

Brown KG.

Inorganic arsenic in drinking water and bladder cancer: a meta-analysis for dose-response assessment. *Int J Environ Res Public Health* 2007; 4: 193-4.

Chung CJ, Huang CJ, Pu YS, Su CT, Huang YK, Chen YT, Hsueh YM. Urinary 8-hydroxydeoxyguanosine and urothelial carcinoma risk in low arsenic exposure area. *Toxicol Appl Pharmacol* 2008; 226: 14-21.

Hernandez A, Xamena N, Surralles J, Sekaran C, Tokunaga H, Quinteros D, Creus A, Marcos R. Role of the Met(287)Thr polymorphism in the AS3MT gene on the metabolic arsenic profile. *Mutat Res Fundam Mol Mech Mutagen* 2008; 637: 80-92.

Kadirvel R, Sundaram K, Mani S, Samuel S, Elango N, Panneerselvam C.

Supplementation of ascorbic acid and α -tocopherol prevents arsenic-induced protein oxidation and DNA damage induced by arsenic in rats. *Hum Exp Toxicol* 2007; 26: 939-46.

Li L, Ekstrom EC, Goessler W, Lonnerdal B, Nermell B, Yunus M, Rahman A, Arifeen SE, Persson LA, Vahter M. Nutritional status has marginal influence on the metabolism of inorganic arsenic in pregnant Bangladeshi women. *Environ Health Perspect* 2008; 116: 315-21.

Mahata J, Argos M, Verret W, Kibriya MG, Santella RM, Ahsan H. Effect of selenium and vitamin E supplementation on plasma protein carbonyl levels in patients with arsenic-related skin lesions. *Nutr Cancer* 2008; 60: 55-60.

Salnikow K, Zhitkovich A.

Genetic and epigenetic mechanisms in metal carcinogenesis and cocarcinogenesis: nickel, arsenic, and chromium. *Chem Res Toxicol* 2008; 21: 28-44.

Vahter M.

Health effects of early life exposure to arsenic. *Basic Clin Pharmacol Toxicol* 2008; 102: 204-11.

Waalkes MP, Liu J.

Early-life arsenic exposure: methylation capacity and beyond. *Environ Health Perspect* 2008; 116: A104.

Yang C-Y, Chang C-C, Ho S-C, Chiu H-F.

Is colon cancer mortality related to arsenic exposure? *J Toxicol Environ Health A* 2008; 71: 533-8.

Chromium

Eastmond DA, MacGregor JT, Slesinski RS.

Trivalent chromium: assessing the genotoxic risk of an essential trace element and widely used human and animal nutritional supplement. *Crit Rev Toxicol* 2008; 38: 173-90.

Hantson P, Bernard A, Hermans C.

Kinetics and determinants of the changes of CC16, a lung secretory protein in a rat model of toxic lung injury. *Clin Toxicol* 2008; 46: 230-8.

Salnikow K, Zhitkovich A.

Genetic and epigenetic mechanisms in metal carcinogenesis and cocarcinogenesis: nickel, arsenic, and chromium. *Chem Res Toxicol* 2008; 21: 28-44.

Cobalt

Anon.

Cobalt and its compounds (as inhalable dusts or aerosols). *in* The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 75-113. Weinheim, Germany: Wiley-VCH, 2007.

Anon.

Hard metal containing tungsten carbide and cobalt (inhalable fraction).

in The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 217-34. Weinheim, Germany: Wiley-VCH, 2007.

Coins

Arms JL, Mackenberg-Mohn MD, Bowen MV, Chamberlain MC, Skrypek TM, Madhok M, Jimenez-Vega JM, Bonadio WA.

Safety and efficacy of a protocol using bougienage or endoscopy for the management of coins acutely lodged in the esophagus: a large case series. *Ann Emerg Med* 2008; 51: 367-72.

Conners GP.

Esophageal coin ingestion: going low tech. *Ann Emerg Med* 2008; 51: 373-4.

Hard metal dust

Anon.

Hard metal containing tungsten carbide and cobalt (inhalable fraction).

in The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 217-34. Weinheim, Germany: Wiley-VCH, 2007.

Lead

Busse F, Omid L, Leichtle A, Windgassen M, Kluge E, Stumvoll M. Lead poisoning due to adulterated marijuana. *N Engl J Med* 2008; 358: 1641-2.

Cory-Slechta DA, Virgolini MB, Rossi-George A, Thiruchelvam M, Lisek R, Weston D.

Lifetime consequences of combined maternal lead and stress. *Basic Clin Pharmacol Toxicol* 2008; 102: 218-27.

Dyer J.

Concerns about lead exposure. *AORN J* 2007; 86: 355-6.

Dyosi S.

Evaluation of preventive and control measures for lead exposure in a South African lead-acid battery recycling smelter. *J Occup Environ Hyg* 2007; 4: 762-9.

Guidotti TL, Calhoun T, Davies-Cole JO, Knuckles ME, Stokes L, Glymph C, Lum G, Moses MS, Goldsmith DF, Ragain L.

Elevated lead in drinking water in Washington, DC, 2003-2004: the public health response. *Environ Health Perspect* 2007; 115: 695-701.

Healey N, Chettle DR, McNeill FE, Fleming DE.

Uncertainties in the relationship between tibia lead and cumulative blood lead index. *Environ Health Perspect* 2008; 116: A109.

Kolossa-Gehring M, Becker K, Conrad A, Ludecke A, Riedel S, Seiwert M, Schulz C, Szewczyk R.

German Environmental Survey for Children (GerES IV) - first results. *Int J Hyg Environ Health* 2007; 210: 535-40.

Lead

Lamadrid-Figueroa H, Téllez-Rojo MM, Hernández-Avila M, Trejo-Valdivia B, Solano-González M, Mercado-García A, Smith D, Hu H, Wright RO.

Association between the plasma/whole blood lead ratio and history of spontaneous abortion: a nested cross-sectional study. *BMC Pregnancy Childbirth* 2007; 7: 22.

Mancuso JD, McCoy J, Pelka B, Kahn PJ, Gaydos JC.

The challenge of controlling lead and silica exposures from firing ranges in a special operations force. *Mil Med* 2008; 173: 182-6.

Mudipalli A.

Lead hepatotoxicity & potential health effects.

Indian J Med Res 2007; 126: 518-27.

Norman R, Mathee A, Barnes B, van der Merwe L, Bradshaw D, South African Comparative Risk Assessment Collaborating Group. Estimating the burden of disease attributable to lead exposure in South Africa in 2000.

S Afr Med J 2007; 97: 773-80.

Ogawa M, Nakajima Y, Kubota R, Endo Y.

Two cases of acute lead poisoning due to occupational exposure to lead.

Clin Toxicol 2008; 46: 332-5.

Orisakwe OE, Nwachukwu E, Osadolor HB, Afonne OJ, Okocha CE. Liver and kidney function tests amongst paint factory workers in Nkpor, Nigeria.

Toxicol Ind Health 2007; 23: 161-5.

Sabouraud S, Testud F, Descotes J, Benevent M, Soglu G.

Lead poisoning following ingestion of pieces of lead roofing plates: pica-like behavior in an adult.

Clin Toxicol 2008; 46: 267-9.

Schwartz BS, Hu H, Rothenberg SJ, Todd AC.

Relationship between tibia lead and cumulative blood lead index: Schwartz et al. Respond.

Environ Health Perspect 2008; 116: A109-A110.

Solon O, Riddell TJ, Quimbo SA, Butrick E, Aylward GP, Lou-Bacate M, Peabody JW.

Associations between cognitive function, blood lead concentration, and nutrition among children in the central Philippines.

J Pediatr 2008; 152: 237-43.

Wright RO.

Neurotoxicology: what can context teach us?

J Pediatr 2008; 152: 155-7.

Manganese

Montes S, Riojas-Rodriguez H, Sabido-Pedraza E, Rios C.

Biomarkers of manganese exposure in a population living close to a mine and mineral processing plant in Mexico.

Environ Res 2008; 106: 89-95.

Mercury

Barregard L, Trachtenberg F, McKinlay S.

Renal effects of dental amalgam in children: the New England children's amalgam trial.

Environ Health Perspect 2008; 116: 394-9.

Budtz-Jorgensen E.

Estimation of the benchmark dose by structural equation models.

Biostatistics 2007; 8: 675-88.

Iavicoli I, Carelli G.

Contribution of dental amalgam to urinary mercury excretion in children.

Environ Health Perspect 2008; 116: A107-A108.

McGovern V.

Taking a bite out of amalgam concerns? Study shows no renal effects in children.

Environ Health Perspect 2008; 116: A129.

Woods JS, Martin MD, DeRouen TA.

Contribution of dental amalgam to urinary mercury excretion in children: Woods et al. Respond.

Environ Health Perspect 2008; 116: A108-A109.

Nickel

Salnikow K, Zhitkovich A.

Genetic and epigenetic mechanisms in metal carcinogenesis and cocarcinogenesis: nickel, arsenic, and chromium.

Chem Res Toxicol 2008; 21: 28-44.

Rhodium

Anon.

Rhodium and its inorganic compounds.

in The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 235-43. Weinheim, Germany: Wiley-VCH, 2007.

Tungsten

Anon.

Hard metal containing tungsten carbide and cobalt (inhalable fraction).

in The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 217-34. Weinheim, Germany: Wiley-VCH, 2007.

Anon.

Tungsten and its compounds (with the exception of fibres and hard metals).

in The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 245-63. Weinheim, Germany: Wiley-VCH, 2007.

PESTICIDES

General

Bornschein S, Hausteiner C, Pohl C, Jahn T, Angerer J, Foerstl H, Zilker T.

Pest controllers: a high-risk group for Multiple Chemical Sensitivity (MCS)?

Clin Toxicol 2008; 46: 193-200.

Cohen M.

Environmental toxins and health - the health impact of pesticides.

Aust Fam Physician 2007; 36: 1002-4.

Cormier Y.

Respiratory health and farming: an essay.

Can Respir J 2007; 14: 419-22.

Curwin BD, Hein MJ, Sanderson WT, Striley C, Heederik D, Kromhout H, Reynolds SJ, Alavanja MC.

Pesticide dose estimates for children of Iowa farmers and non-farmers.

Environ Res 2007; 105: 307-15.

Greim H, (ed.)

The MAK-collection for occupational health and safety. Part I: MAK value documentations.

Weinheim, Germany: Wiley-VCH, 2007. 301 p.

Pesticides and cancer

Koutros S, Mahajan R, Zheng TZ, Hoppin JA, Ma XM, Lynch CF, Blair A, Alavanja MCR.

Dichlorvos exposure and human cancer risk: results from the Agricultural Health Study.

Cancer Causes Control 2008; 19: 59-65.

Pesticides and cancer

Ojajarvi A, Partanen T, Ahlbom A, Hakulinen T, Kauppinen T, Weiderpass E, Wesseling C.

Estimating the relative risk of pancreatic cancer associated with exposure agents in job title data in a hierarchical Bayesian meta-analysis.

Scand J Work Environ Health 2007; 33: 325-35.

Aluminium phosphide

Verma SK, Ahmad S, Shirazi N, Barthwal SP, Khurana D, Chugh M, Gambhir HS.

Acute pancreatitis: a lesser-known complication of aluminum phosphide poisoning.

Hum Exp Toxicol 2007; 26: 979-81.

Chlorophenoxy herbicides

Agent Orange

Michalek JE, Pavuk M.

Diabetes and cancer in veterans of operation ranch hand after adjustment for calendar period, days of spraying, and time spent in southeast Asia.

J Occup Environ Med 2008; 50: 330-40.

Fenarimol

Canistro D, Pozzetti L, Sapone A, Broccoli M, Affatato AA, Stradiotti A, Longo V, Menichini P, Barale R, Paolini M.

Perturbation of murine liver CYP-superfamily of isoforms by different combinations of pesticide mixtures.

Food Chem Toxicol 2008; 46: 34-42.

Glyphosate

Hsiao C-T, Lin L-J, Hsiao K-Y, Chou M-H, Hsiao S-H.

Acute pancreatitis caused by severe glyphosate-surfactant oral intoxication.

Am J Emerg Med 2008; 26: 384-5.

Lee CH, Shih CP, Hsu KH, Hung DZ, Lin CC.

The early prognostic factors of glyphosate-surfactant intoxication.

Am J Emerg Med 2008; 26: 275-81.

Nicotine

Dani JA, Bertrand D.

Nicotinic acetylcholine receptors and nicotinic cholinergic mechanisms of the central nervous system.

Annu Rev Pharmacol Toxicol 2007; 47: 699-729.

Organochlorine pesticides

General

Lee DH, Lee IK, Porta M, Steffes M, Jacobs DR, Jr.

Relationship between serum concentrations of persistent organic pollutants and the prevalence of metabolic syndrome among non-diabetic adults: results from the National Health and Nutrition Examination Survey 1999-2002.

Diabetologia 2007; 50: 1841-51.

DDT

Bonde JP, Toft G, Rylander L, Rignell-Hydbom A, Giwercman A, Spano M, Manicardi GC, Bizzaro D, Ludwicki JK, Zvyezday V, Bonefeld-Jorgensen EC, Pedersen HS, Jonsson BA, Thulstrup AM. Fertility and markers of male reproductive function in Inuit and European populations spanning large contrasts in blood levels of persistent organochlorines.

Environ Health Perspect 2008; 116: 269-77.

Eskenazi B, Rosas LG, Marks AR, Bradman A, Harley K, Holland N, Johnson C, Fenster L, Barr DB.

Pesticide toxicity and the developing brain.

Basic Clin Pharmacol Toxicol 2008; 102: 228-36.

Wolff MS, Anderson HA, Britton JA, Rothman N.

Pharmacokinetic variability and modern epidemiology - the example of dichlorodiphenyltrichloroethane, body mass index, and birth cohort.

Cancer Epidemiol Biomarkers Prev 2007; 16: 1925-30.

Endosulfan

Ramaswamy S, Puri GD, Rajeev S.

Endosulfan poisoning with intravascular hemolysis.

J Emerg Med 2008; 34: 295-7.

Lindane

Brown VJ.

Life after lindane in California: water concentrations, poison control calls drop following ban.

Environ Health Perspect 2008; 116: A128.

Humphreys EH, Janssen S, Heil A, Hiatt P, Solomon G, Miller MD.

Outcomes of the California ban on pharmaceutical lindane: clinical and ecologic impacts.

Environ Health Perspect 2008; 116: 297-302.

Saradha B, Vaithinathan S, Mathur PP.

Lindane alters the levels of HSP70 and clusterin in adult rat testis.

Toxicology 2008; 243: 116-23.

Organophosphorus insecticides

General

Eskenazi B, Rosas LG, Marks AR, Bradman A, Harley K, Holland N, Johnson C, Fenster L, Barr DB.

Pesticide toxicity and the developing brain.

Basic Clin Pharmacol Toxicol 2008; 102: 228-36.

Lukaszewicz-Hussain A.

Narazenie zawodowe i srodowiskowe na insektycydy fosforoorganiczne. Wskazniki narazenia i skutki zdrowotne - przeglad pismiennictwa. [Occupational and environmental exposure to organophosphate insecticides. Exposure markers and health effects - a review paper.] In Polish with English abstract.

Med Pr 2007; 58: 345-51.

Ozer C, Kuvandik G, Gokel Y, Duru M, Helvacı MR.

Clinical presentation and laboratory findings of organic phosphorus poisoning.

Adv Ther 2007; 24: 1321-9.

Ozyurt G, Kaya FN, Kahveci F, Alper E.

Comparison of SPECT findings and neuropsychological sequelae in carbon monoxide and organophosphate poisoning.

Clin Toxicol 2008; 46: 218-21.

Soltaninejad K, Shadnia S, Afkhami-Taghipour M, Saljooghi R, Mohammadirad A, Abdollahi M.

Blood β -glucuronidase as a suitable biomarker at acute exposure of severe organophosphorus poisoning in human.

Hum Exp Toxicol 2007; 26: 963-6.

Weerasekera G, Smith KD, Needham LL, Barr DB.

A rapid, cost-effective method for analyzing organophosphorus pesticide metabolites in human urine for counter-terrorism response.

J Anal Toxicol 2008; 32: 106-15.

Acephate

Canistro D, Pozzetti L, Sapone A, Broccoli M, Affatato AA, Stradiotti A, Longo V, Menichini P, Barale R, Paolini M.

Perturbation of murine liver CYP-superfamily of isoforms by different combinations of pesticide mixtures.

Food Chem Toxicol 2008; 46: 34-42.

Chlorfenvinphos

Lukaszewicz-Hussain A.

Subchronic intoxication with chlorfenvinphos, an organophosphate insecticide, affects rat brain antioxidative enzymes and glutathione level.

Food Chem Toxicol 2008; 46: 82-6.

Diazinon

Slotkin TA, Bodwell BE, Levin ED, Seidler FJ.

Neonatal exposure to low doses of diazinon: long-term effects on neural cell development and acetylcholine systems.

Environ Health Perspect 2008; 116: 340-8.

Dichlorvos

Koutros S, Mahajan R, Zheng TZ, Hoppin JA, Ma XM, Lynch CF, Blair A, Alavanja MCR.

Dichlorvos exposure and human cancer risk: results from the Agricultural Health Study.

Cancer Causes Control 2008; 19: 59-65.

Paraoxon

Eckert S, Eyer P, Herkert N, Bumm R, Weber G, Thiermann H, Worek F.

Comparison of the oxime-induced reactivation of erythrocyte and muscle acetylcholinesterase following inhibition by sarin or paraoxon, using a perfusion model for the real-time determination of membrane-bound acetylcholinesterase activity.

Biochem Pharmacol 2008; 75: 698-703.

Petroianu GA, Kalasz H.

Comparison of the ability of pyridinium aldoximes to reactivate human RBC cholinesterases inhibited by ethyl- and methyl-paraoxon.

Curr Org Chem 2007; 11: 1624-34.

Paraquat

Bateman DN.

New formulation of paraquat: a step forward but in the wrong direction?

PLOS Med 2008; 5: 0185-6.

Hantson P, Bernard A, Hermans C.

Kinetics and determinants of the changes of CC16, a lung secretory protein in a rat model of toxic lung injury.

Clin Toxicol 2008; 46: 230-8.

Wilks MF, Fernando R, Ariyananda PL, Eddleston M, Berry DJ, Tomenson JA, Buckley NA, Jayamanne S, Gunnell D, Dawson A.

Improvement in survival after paraquat ingestion following introduction of a new formulation in Sri Lanka.

PLOS Med 2008; 5: 0250-9.

Pyrethroid insecticides

Cyfluthrin

Anon.

Cyfluthrin/ β -cyfluthrin.

in The MAK-collection for occupational health and safety. Part I: MAK value documentations, ed. by H Greim. 115-56. Weinheim, Germany: Wiley-VCH, 2007.

Fenvalerate

Qu JH, Hong X, Chen JF, Wang YB, Sun H, Xu XL, Song L, Wang SL, Wang XR.

Fenvalerate inhibits progesterone production through camp-dependent signal pathway.

Toxicol Lett 2008; 176: 31-9.

Rodenticides

Tetramine

Lu Y, Wang XF, Yan Y, Xiao Z, Stephani U.

Nongenetic cause of epileptic seizures in 2 otherwise healthy Chinese families: tetramine - case presentation and literature survey.

Clin Neuropharmacol 2008; 31: 57-61.

Warfarin

Kataranovski M, Mirkov I, Vrankovic J, Kataranovski D, Subota V.

Percutaneous toxicity of anticoagulant warfarin in rats.

Cutan Ocul Toxicol 2008; 27: 29-40.

Triazine herbicides

Prometryn

Brvar M, Okrajsek R, Kosmina P, Staric F, Kaps R, Kozelj G, Bunc M.

Metabolic acidosis in prometryn (triazine herbicide) self-poisoning.

Clin Toxicol 2008; 46: 270-3.

Vinclozolin

Canistro D, Pozzetti L, Sapone A, Broccoli M, Affatato AA, Stradiotti A, Longo V, Menichini P, Barale R, Paolini M.

Perturbation of murine liver CYP-superfamily of isoforms by different combinations of pesticide mixtures.

Food Chem Toxicol 2008; 46: 34-42.

CHEMICAL WARFARE, BIOLOGICAL WARFARE AND RIOT CONTROL AGENTS

Biological warfare

Handke T.

Medical support in a nuclear/biological/chemical threat environment.

Mil Med 2007; 172: 26-8.

Chemical warfare

General

Handke T.

Medical support in a nuclear/biological/chemical threat environment.

Mil Med 2007; 172: 26-8.

Jones E, Everitt B, Ironside S, Palmer I, Wessely S.

Psychological effects of chemical weapons: a follow-up study of First World War veterans.

Psychol Med 2008; Pre-published version: 1-8.

Muskat PC.

Mass casualty chemical exposure and implications for respiratory failure.

Respir Care 2008; 53: 58-63.

Mustard gas

Ash DH, Lemire SW, McGrath SC, McWilliams LG, Barr JR.

Multianalyte quantification of five sesqui- and ethyl ether oxy-mustard metabolites in human urine by liquid chromatography-atmospheric pressure chemical ionization tandem mass spectrometry.

J Anal Toxicol 2008; 32: 44-50.

Geraci MJ.

Mustard gas: imminent danger or eminent threat?

Ann Pharmacother 2008; 42: 237-46.

Martens ME, Smith WJ.

The role of NAD⁺ depletion in the mechanism of sulfur mustard-induced metabolic injury.

Cutan Ocul Toxicol 2008; 27: 41-53.

Nerve agents

Weerasekera G, Smith KD, Needham LL, Barr DB.
A rapid, cost-effective method for analyzing organophosphorus pesticide metabolites in human urine for counter-terrorism response.
J Anal Toxicol 2008; 32: 106-15.

Sarin

Eckert S, Eyer P, Herkert N, Bumm R, Weber G, Thiermann H, Worek F.
Comparison of the oxime-induced reactivation of erythrocyte and muscle acetylcholinesterase following inhibition by sarin or paraoxon, using a perfusion model for the real-time determination of membrane-bound acetylcholinesterase activity.
Biochem Pharmacol 2008; 75: 698-703.

Holland KE, Solano MI, Johnson RC, Maggio VL, Barr JR.
Modification to the organophosphorus nerve agent-protein adduct refluoridation method for retrospective analysis of nerve agent exposures.
J Anal Toxicol 2008; 32: 116-24.

Soman

Yeung DT, Smith JR, Sweeney RE, Lenz DE, Cerasoli DM.
A gas chromatographic-mass spectrometric approach to examining stereoselective interaction of human serum proteins with soman.
J Anal Toxicol 2008; 32: 86-91.

PLANTS

Cerbera manghas (mangrove)

Tsai YC, Chen CY, Yang NI, Yang CC.
Cardiac glycoside poisoning following suicidal ingestion of *Cerbera manghas*.
Clin Toxicol 2008; 46: 340-1.

Datura suaveolens (Angel's trumpet)

Andreola B, Piovan A, Da Dalt L, Filippini R, Cappelletti E.
Unilateral mydriasis due to Angel's Trumpet.
Clin Toxicol 2008; 46: 329-31.

Ginger

Ali BH, Blunden G, Tanira MO, Nemmar A.
Some phytochemical, pharmacological and toxicological properties of ginger (*Zingiber officinale* Roscoe): a review of recent research.
Food Chem Toxicol 2008; 46: 409-20.

Khat

Bentur Y, Bloom-Krasik A, Raikhlin-Eisenkraft B.
Illicit cathinone ("Hagigat") poisoning.
Clin Toxicol 2008; 46: 206-10.

Lavender

Landelle C, Francony G, Sam-Lai NF, Gaillard Y, Vincent F, Wroblewski I, Danel V.
Poisoning by lavandin extract in a 18-month-old boy.
Clin Toxicol 2008; 46: 279-81.

Aconitum napellus

McGregor AC, Macmillan MH, Ferguson J.
Potter's potions.
Emerg Med J 2008; 25: 217-8.

Mushrooms

Soldo I, Kucan Z, Timarac J, Mihaljevic I, Matijevic M, Peric L, Lisnjic D, Sesar Z, Kadojic D, Vcev A, Micunovic N.
Mushroom poisoning.
Coll Antropol 2007; 31: 1099-103.

Amanita phalloides

Krenová M, Pelclová D, Navrátil T.
Survey of *Amanita phalloides* poisoning: clinical findings and follow-up evaluation.
Hum Exp Toxicol 2007; 26: 955-61.

Yildiz BD, Abbasoglu O, Saglam A, Sokmensuer C.
Urgent liver transplantation for *Amanita phalloides* poisoning.
Pediatr Transplant 2008; 12: 105-8.

Morels

Pfab R, Haberl B, Kleber J, Zilker T.
Cerebellar effects after consumption of edible morels (*Morchella conica*, *Morchella esculenta*).
Clin Toxicol 2008; 46: 259-60.

Solanum indicum L.

Huang WH, Hsu CW, Fang JT.
Central diabetes insipidus following digestion *Solanum indicum* L. Concentrated solution.
Clin Toxicol 2008; 46: 293-6.

Squirting cucumber (*Ecbalium elaterium*)

Eken C, Ozbek K, Yildirim CK, Eray O.
Severe uvular edema and nasal mucosal necrosis due to *Ecbalium elaterium* (squirting cucumber): an allergic reaction or direct toxic effect?
Clin Toxicol 2008; 46: 257-8.

ANIMALS

General

Lathrop SL.
Animal-caused fatalities in New Mexico, 1993-2004.
Wilderness Environ Med 2007; 18: 288-92.

Caterpillars

Eagleman DM.
Envenomation by the asp caterpillar (*Megalopyge opercularis*).
Clin Toxicol 2008; 46: 201-5.

Elston DM.
What's eating you? Saddleback caterpillar (*Acharia stimulea*).
Cutis 2007; 80: 110-2.

Snake bites

General

Cannon R, Ruha A-M, Kashani J.
Acute hypersensitivity reactions associated with administration of crotalidae polyvalent immune Fab antivenom.
Ann Emerg Med 2008; 51: 407-11.

Chen YC, Chen MH, Wang LM, Wu JJK, Huang CI, Lee CH, Yen DHT, Yang CC.
Antivenom therapy for crotaline snakebites: has the poison control center provided effective guidelines?
J Formos Med Assoc 2007; 106: 1057-62.

Danis R, Ozmen S, Celen MK, Akin D, Ayaz C, Yazanel O.
Snakebite-induced acute kidney injury: data from Southeast Anatolia.
Ren Fail 2008; 30: 51-5.

Milleliri JM, Carlotti MP.
Traitement des morsures de serpents par le rouge Congo. [Treatment of snakebite using Congo Red.] In French.
Med Trop 2007; 67: 232-3.

Sankebites, general

Suchithra N, Pappachan JM, Sujathan P.
Snakebite envenoming in Kerala, South India: clinical profile and factors involved in adverse outcomes.
Emerg Med J 2008; 25: 200-4.

Whitehall JS, Yarlini, Arunthathy, Varan, Kaanthan, Isaivanan, Vanprasath.
Snake bites in north east Sri Lanka.
Rural Remote Health 2007; 7: 751.

Rattlesnakes

Cannon R, Ruha A-M, Kashani J.
Acute hypersensitivity reactions associated with administration of crotalidae polyvalent immune Fab antivenom.
Ann Emerg Med 2008; 51: 407-11.

Vipers

De Medeiros CR, Barbaro KC, de Siqueira Franca FO, Zanotti AP, Castro FF.
Anaphylactic reaction secondary to Bothrops snakebite.
Allergy 2008; 63: 242-3.

Yang JY, Hui H, Lee AC.
Severe coagulopathy associated with white-lipped green pit viper bite.
Hong Kong Med J 2007; 13: 392-5.

Spiders

Brown SG, Isbister GK, Stokes B.
Route of administration of redback spider bite antivenom: determining clinician beliefs to facilitate Bayesian analysis of a clinical trial.
Emerg Med Australas 2007; 19: 458-63.

Hallas T, Hallas P.
Edderkoppeospind? [Hobo-spider lies?] In Danish.
Ugeskr Laeger 2007; 169: 4377.

Scharff N.
Hobo-edderkoppebid i Danmark? [Hobo-spider bite in Denmark?] In Danish.
Ugeskr Laeger 2007; 169: 4376.

Toad venom

López-López JM, Sanabria MR, de Prada SJ.
Ocular toxicity caused by toad venom.
Cornea 2008; 27: 236-7.

Wasps

Pramanik S, Banerjee S.
Wasp stings with multisystem dysfunction.
Indian Pediatr 2007; 44: 788-90.

Sharmila RR, Chetan G, Narayanan P, Srinivasan S.
Multiple organ dysfunction syndrome following single wasp sting.
Indian J Pediatr 2007; 74: 1111-2.

INDEX

Acephate	32
Acetaminophen	17
Acetylcysteine	15
<i>Aconitum napellus</i>	34
Acrylonitrile.....	24
Activated charcoal	15
Agent Orange	32
Air pollution	22
Alcohol	24
Alendronate	16
Aluminium phosphide	32
Aluminum	29
<i>Amanita phalloides</i>	34
Amfebutamone	18
Amfetamines.....	18
Anabolic steroids	18
Analgesics.....	18
Analytical toxicology	7
Angel's trumpet.....	34
Animals, general	34
Antidepressants	18
Antidotes	15
Antimony	29
Antiseptics	18
Antivenom	16
Aripiprazole.....	16, 18
Arsenic	30
Aspartame	24
Benzene	24
Biological warfare.....	33
Biomarkers	7
Body packing	7
Boron trifluoride.....	25
Bromides	18
Buprenorphine	16
Bupropion.....	18
Butylated hydroxytoluene	25
Caffeine.....	18
Calcium channel blockers.....	18
Calcium cyanamide.....	25

Cannabis	18
Carbamazepine	18
Carbon monoxide.....	25
Carcinogenicity	8
Carisoprodol	18
Carnitine	16
Caterpillars	34
Cathinone.....	18
<i>Cerbera manghas</i>	34
Chemical incidents	23
Chemical sensitivity.....	8
Chemical warfare, general	33
Chemicals, general.....	24
Chlorfenvinphos.....	33
Chlorine	25
Chlorophenoxy herbicides.....	32
Chromium	30
Cibenzoline.....	18
Clomipramine	18
Clonazepam.....	16
Cobalt	30
Cocaine	19
Coins.....	30
Congo Red	16
Contrast media	19
Corrosives	25
Crotonaldehyde	25
Cyanamide	25, 26
Cyanoacrylates	25
Cyfluthrin	33
<i>Datura suaveolens</i>	34
DDT	32
Dermal toxicity.....	8
Developmental toxicity	8
Diamorphine.....	19
Diazinon	33
Dichlorvos	33
Dicyanodiamide	25
Diethylene glycol.....	25
Digoxin.....	19

Dioxins	25	Naloxone	16
Disinfection by-products	25	Naphazoline.....	20
Disulfiram	19	Nerve agents	34
Driving under the influence.....	9	Nickel.....	31
Drugs, general	17	Nicotine.....	32
Dyes.....	25	Nisoldipine.....	20
<i>Ecbalium elaterium</i>	34	Nitrogen dioxide	27
Ecstasy	18	Occupational toxicology.....	12
Endoscopy	16	Octreotide	17
Endosulfan.....	32	Ocular toxicity.....	13
Environmental toxicology	9	Organochlorine pesticides, general	32
Epidemiology	10	Organophosphorus insecticides, general	32
Erythromycin	19	Oximes.....	16
Essential oils	26	Ozone	27
Ethanol.....	24	Paracetamol	17
Ethylbenzene	26	Paraoxon.....	33
Ethylene glycol.....	26	Paraquat	33
Ethylene glycol monoalkyl ethers.....	26	Parasuicide.....	13
Fenarimol	32	Paroxetine	20
Fenvalerate.....	33	Pediatric toxicology	13
Fire retardants	26	Pesticides and cancer	31
Fluorocarbons	26	Pesticides, general	31
Fluorouracil.....	19	Petroleum oils.....	27
Fomepizole	16	Phenol.....	27
Forensic toxicology.....	11	Plants, general.....	34
Formaldehyde.....	26	PM10	27
Gamma hydroxybutyrate	19	Poison information centers	14
Ginger	34	Poisons information.....	14
Glue	26	Pollution	22, 23
Glycerol.....	26	Polybrominated diphenyl ethers	28
Glyphosate	32	Polychlorinated biphenyls	28
Hard metal dust	30	Polychlorinated dibenzofurans.....	28
Hazardous waste.....	23	Polycyclic aromatic hydrocarbons	28
Hemodialysis.....	16	Polymers	28
Hemoperfusion.....	16	Prometryn	33
Herbal medicines.....	19	Propanol.....	28
Heroin	19	Propylene glycol.....	28
Hexabromocyclododecane	26	Pyrethroid insecticides.....	33
Hydrocarbons.....	26	Quinine	20
Hydrogen chloride.....	26	Rattlesnakes.....	35
Hydrogen cyanamide.....	26	Reprotoxicity	14
Hydrogen sulfide	26	Rhodium	31
Hydroxychloroquine.....	19	Risk assessment	15
Inhalation toxicology	12	Rodenticides.....	33
Insulin	19	Salicylates	20
Isopropanol	26	Sarin	34
Kerosene	26	Silica	28
Khat	34	Smoke.....	28
Kinetics.....	12	Snake bites, general.....	34
Lamotrigine	19	<i>Solanum indicum</i> L.....	34
Lavender	34	Solvents	28
L-carnitine	16	Soman	34
Lead.....	30	Spiders.....	35
Levodopa.....	19	Squirting cucumber.....	34
Lindane	32	SSRIs	20
Lipid emulsion therapy.....	16	Substance abuse.....	20
Lorazepam.....	19	Sulfonylureas.....	21
Malachite green	25	Sulfur dioxide	29
Management, general.....	15	Surfactants	29
Manganese	31	Surgery	17
Mangrove	34	Talc	29
Marijuana	18	Tetramine.....	33
Mercury	31	Toad venom	35
Metals, general	29	Toluene.....	29
Metalworking fluids	27	Topiramate.....	21
Methacrolein	25	Toxicology, general.....	7
Methadone	16, 19	Tramadol.....	21
Methanol	27	Transplants	17
Methionine.....	16	Tranlycypromine	21
Monkshood	34	Triazine herbicides	33
Morels	34	Trichloroethylene	29
Mushrooms.....	34	Tricyclic antidepressants.....	21
Mustard gas.....	33	Trihalomethanes	29

Trimethylbenzene.....	29	Vinyl acetate.....	29
Triptans.....	21	Vipers	35
Tungsten	31	Vitamin C	17
Tungsten carbide	29	Vitamin D	22
Valproate.....	21	Vitamin E.....	17
Vehicle exhaust.....	29	Warfarin	33
Venlafaxine.....	21	Wasps.....	35
Veterinary products.....	22	Water pollution	23
Vinclozolin	33	Xylene.....	29

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.

