Current Awareness in Clinical Toxicology

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TOXICOLOGY

General


Analytical toxicology


Carcinogenicity
Mutation analysis of K-ras-2 in liver angiosarcoma and adjacent non-neoplastic liver tissue from patients occupationally exposed to vinyl chloride.

Dermal toxicity
Akrill P, Cocker J, Dixon S.
Dermal exposure to aqueous solutions of \(N\)-methyl pyrrolidone.

Garfitt SJ, Jones K, Mason HJ, Cocker J.
Exposure of humans to the organophosphate diazinon: data from a volunteer study with oral and dermal doses.

Garfitt SJ, Jones K, Mason HJ, Cocker J.
Oral and dermal exposure to propetamphos: a human volunteer study.

Higgins EM, Ismail K, Kant K, Harman K, Mellerio J, Du Vivier AWP, Wessely S.
Skin disease in Gulf war veterans.

Developmental toxicity, genotoxicity, reprotoxicity
Abdel-Rahman AA, Blumenthal GM, Abou-Donia SA, Ali FAF, Abdel-Moneem AE, Abou-Donia MB.
Pharmacokinetic profile and placental transfer of a single intravenous injection of \([14C]\)-chlorpyrifos in pregnant rats.

Bada HS, Bauer CR, Shankaran S, Lester B, Wright LL, Das A, Poole K, Smeriglio VF, Finnegan LP, Maza PL.
Central and autonomic system signs with in utero drug exposure.
Arch Dis Child Fetal Neonatal 2002; 87: F106-F112.

Estrogenicity of organophosphorus and pyrethroid pesticides.

Choy CMY, Yeung QSY, Briton-Jones CM, Cheung CK, Lam CWK, Haines CJ.
Relationship between semen parameters and mercury concentrations in blood and in seminal fluid from subfertile males in Hong Kong.

Ernst PE.
Herbal medicinal products during pregnancy: are they safe?

Ferguson DM, Horwood LJ, Northstone K, ALSPAC Study Team.
Maternal use of cannabis and pregnancy outcome.

Forkert PG, Lash LH, Nadeau V, Tardif R, Simmonds A.
Metabolism and toxicity of trichloroethylene in epididymis and testis.
Toxicol Appl Pharmacol 2002; 182: 244-54.

Giri S, Giri A, Sharma GD, Prasad SB.
Mutagenic effects of carbosulfan, a carbamate pesticide.
Mutat Res Genet Toxicol Environ Mutagen 2002; 519: 75-82.

Harrison RM.
Hazardous waste landfill sites and congenital anomalies.

Ivanecis S, Pilger A, Diam E, Schaffer A, Rüdiger HW.
Vanadate induces DNA strand breaks in cultured human fibroblasts at doses relevant to occupational exposure.

Jackman SM, Grant GM, Kolanko CJ, Stenger DA, Nath J.
DNA damage assessment by comet assay of human lymphocytes exposed to jet propulsion fuels.

James WH.
Sex ratio of offspring born to men exposed to polychlorinated biphenyls.

Ma XM, Buffler PA, Gunier RB, Dahl G, Smith MT, Reinier K, Reynolds P.
Critical windows of exposure to household pesticides and risk of childhood leukemia.

Martelli A, Carrozzino R, Mattioli F, Bramhilla G.
DNA damage induced by 4,4'-methyleneedianiline in primary cultures of hepatocytes and thymocytes from rats and humans.

pastor S, Creus A, Xenama N, Sifell C, Marcos R.
Occupational exposure to pesticides and cytogenetic damage: results of a Hungarian population study using the micronucleus assay in lymphocytes and buccal cells.

Plew MJ, Kargalioglu Y, Vankerk D, Minear RA, Wagner ED.
Mammalian cell cytotoxicity and genotoxicity analysis of drinking water disinfection by-products.

Tait PA, Vora A, James S, Fitzgerald DJ, Pester BA.
Severe congenital lead poisoning in a preterm infant due to a herbal remedy.

Thuett KA, Roots EH, Mitchell LP, Gentles BA, Anderson TA, Smith EE.
In utero and lactational exposure to ammonium perchlorate in drinking water: effects on developing deer mice at postnatal day 21.
J Toxicol Environ Health A 2002; 65: 1061-76.

Lack of changes in brain muscarinic receptor and motor activity of mice after neonatal inhalation exposure to \(d\)-allethrin.

Environmental toxicology
Bae M, Watanabe C, Inaoka T, Sekiyama M, Sudo N, Bokul MH, Ohhtsuka R.
Arsenic in cooked rice in Bangladesh.

Bonanno J, Robson MG, Buckley B, Modica M.
Lead exposure at a covered outdoor firing range.

Estrogenicity of organophosphorus and pyrethroid pesticides.

Human exposure to dioxins and furans: application of the substance flow analysis to health risk assessment.

Environmental toxins and breast cancer on Long Island. I. Polycyclic aromatic hydrocarbon DNA adducts.
Environmental toxicology

Hozhari S.

Jespwell JH.


Marsden PA.


Epidemiology


**Epidemiology**

**Forensic toxicology**

**Drug Alcohol Depend**

**Occup Environ Med**

**Occupational toxicology**
**Occupational toxicology**


Paediatric toxicology
Arseneault L, Cannon M, Poulton R, Murray R, Caspi A, Moffitt TE.
Cannabis use in adolescence and risk for adult psychosis: longitudinal prospective study.
Black AP, Knight R, Baty J, Haswell SJ, Lindow SW.
An analysis of maternal and fetal hair lead levels.
Prevalence and location of teeth marks observed on painted surfaces in an evaluation of the HUD lead hazard control grant program.
Coulthard MG, Haycock GB.
Distinguishing between salt poisoning and hypernatraemic dehydration in children.
Childhood lead poisoning associated with tamarind candy and folk remedies - California, 1999-2000.
Grant MJC, Clay B.
Accidental carbon monoxide poisoning with severe cardiorespiratory compromise in 2 children.
Henretig FM, Cieslak TJ, Eitzen EM, Jr.
Biological and chemical terrorism.
Hozharbi S.
Lead based paint is a hazard to young children: implications for Pakistani children.
Kanabar D, Volans G.
Accidental superwarfarin poisoning in children - less treatment is better.
Ma XM, Buffler PA, Gunter RB, Dahl G, Smith MT, Reinier K, Reynolds P.
Critical windows of exposure to household pesticides and risk of childhood leukemia.
Miranda ML, Doliny DC, Overstreet MA.
Mapping for prevention: GIS models for directing childhood lead poisoning prevention programs.
Myers SN, Rowell B, Binns HJ.
Lead poisoning and asthma - an examination of comorbidity.
Patton GC, Coffey C, Carlin JB, Degenhardt L, Lynskey M, Hall W.
Cannabis use and mental health in young people: cohort study.
Acute effects of winter air pollution on respiratory function in schoolchildren in southern England.
Sowers MR, Scholl TO, Hall G, Jannahsch ML, Kemp FW, Li XH, Bogden JD.
Lead in breast milk and maternal bone turnover.
Zhang JF, Hu W, Wei FS, Wu GP, Korn LR, Chapman RS.
Children's respiratory morbidity prevalence in relation to air pollution in four Chinese cities.

Parasuicide
Horrocks J, House A.

Poisons information and poison information centres
Association of the British Pharmaceutical Industry, Virtual Health Network.
Medicines compendium 2003.
Darwin J, Seger D.
Reaffirmed cost-effectiveness of poison centers.
Ann Emerg Med 2003; 41: 159-60.

Risk assessment
Dixit R, Riviere J, Krishnan K, Andersen ME.
Toxicokinetics and physiologically based toxicokinetics in toxicology and risk assessment.
Fuster G, Schuhmacher M, Domingo JL.
Human exposure to dioxins and furans: application of the substance flow analysis to health risk assessment.
Jaffery FN, Misra V, Viswanathan PN.
Convergence of clinical toxicology and epidemiology in relation to health effects of chemicals.

MANAGEMENT
General
Baker DJ.
Management of casualties from terrorist chemical and biological attack: a key role for the anaesthetist.
Blendon RJ, DesRoches CM, Benson JM, Herrmann MJ, Taylor-Clark K, Weldon KJ.
The public and the smallpox threat.
Eap CB, Buclin T, Baumann P.
Interindividual variability of the clinical pharmacokinetics of methadone - implications for the treatment of opioid dependence.
Comprehensive drug screening in decision making of patients attending the emergency department for suspected drug overdose.
Lukan JK, Reed DN, Jr., Looney SW, Spain DA, Blondell RD.
Risk factors for delirium tremens in trauma patients.
Madeley CR.
Diagnosing smallpox in possible bioterrorist attack.
Mpfou D, Lockinger L, Bidwell J, McDuffie HH.
Evaluation of a respiratory health program for farmers and their families.
Tan GA, Fitzgerald MCB.
Chemical-biological-radiological (CBR) response: a template for hospital emergency departments.
Van Geloven AAW, Van Lienden KP, Gouma DJ.
Bodypacking - an increasing problem in the Netherlands: conservative or surgical treatment?
Management, general
Welch S.
Management of substance misuse problems in the general hospital.

White SM.
Chemical and biological weapons. implications for anaesthesia and intensive care.

Activated charcoal
Dasgupta A, Wahed A, Culton L, Olsen M, Wells A, Actor JK.
Activated charcoal is more effective than equilibrium dialysis in removing Chinese medicines Chan Su and Dan Shen from serum and activated charcoal also prevents further absorption of these agents from GI tract in mice: monitoring the effect in clinical laboratory by measuring digoxin activity in serum.

Merigian KS, Blaho KE.

Antidotes
Acetylcysteine
Durham JD, Caputo C, Dokko J, Zaharakis T, Palhavan M, Keltz J, Dutka P, Marzo K, Maesaka JK, Fishbane S.
A randomized controlled trial of N-acetylcysteine to prevent contrast nephropathy in cardiac angiography.

Koh AS, Simmons-Willis TA, Pritchard JB, Grassl SM, Ballatori N.
Identification of a mechanism by which the methylmercury antidotes N-acetylcysteine and dimercaptopropansulfonate enhance urinary metal excretion: transport by the renal organic anion transporter-1.

Pol S, Lebray P.
N-acetylcysteine for paracetamol poisoning: effect on prothrombin.

Schmidt LE, Knudsen TT, Dalhoff K, Bendtsen F.
Effect of acetylcysteine on prothrombin index in paracetamol poisoning without hepatocellular injury.

Amyl nitrite
Donoghue AM.
Alternative methods of administering amyl nitrite to victims of cyanide poisoning.
Occup Environ Med 2003; 60: 147.

Chelating agents
Hider RC.
Design of therapeutic chelating agents.

Dimercaprol
The chelating treatment is not useful in human's intoxication with acute herbicidal organic arsenic.

DMPS
Koh AS, Simmons-Willis TA, Pritchard JB, Grassl SM, Ballatori N.
Identification of a mechanism by which the methylmercury antidotes N-acetylcysteine and dimercaptopropansulfonate enhance urinary metal excretion: transport by the renal organic anion transporter-1.

DMSA
Mehta A, Kannan GM, Dubo SN, Pant BP, Pant SC, Flora SJS.
Haematological, hepatic and renal alterations after repeated oral or intra-peritoneal administration of monomouanyl DMSA. I. Changes in male rats.

Fomepizole
Druteika DP, Zeol PJ, Ensom MHH.
Role of fomepizole in the management of ethylene glycol toxicity.

Methylothioninium chloride (methylene blue)
Margulies DR, Manookian CM.
Methemoglobinemia as a cause of respiratory failure.

Penicillamine
The chelating treatment is not useful in human's intoxication with acute herbicidal organic arsenic.

Barrier creams
Chilcott RP, Jenner J, Hotchkiss SAM, Rice P.
Evaluation of barrier creams against sulphur mustard.

Cholestyramine
de Luis DA, Duenas A, Martin J, Abad L, Cuellar L, Aller R.
Light symptoms following a high-dose intentional L-thyroxine ingestion treated with cholestyramine.

Dexamethasone
Combined methylprednisolone and dexamethasone therapy for paraquat poisoning.

Dialysis
Dasgupta A, Wahed A, Culton L, Olsen M, Wells A, Actor JK.
Activated charcoal is more effective than equilibrium dialysis in removing Chinese medicines Chan Su and Dan Shen from serum and activated charcoal also prevents further absorption of these agents from GI tract in mice: monitoring the effect in clinical laboratory by measuring digoxin activity in serum.

Extracorporeal liver support
Bertani H, Gelmini R, Del Buono MG, De Maria N, Giradis M, Solfrini V, Villa E.
Literature overview on artificial liver support in fulminant hepatic failure: a methodological approach.

Borra M, Galavotti D, Bellini C, Fumi L, Morsiani E, Bellini G.
Advanced technology for extracorporeal liver support system devices.

Kramer L, Bauer E.
Extracorporeal treatment in fulminant hepatic failure: pathophysiologic considerations.

Gastric lavage
Teece S, Hogg K.
Gastric lavage in tricyclic antidepressant overdose.

Methylprednisolone
Combined methylprednisolone and dexamethasone therapy for paraquat poisoning.

Vaccination
Bozzette SA, Boer R, Bhatnagar V, Brower JL, Keeler EB, Morton SC, Stoito MA.
A model for a smallpox-vaccination policy.
Vaccination
Mack T.
A different view of smallpox and vaccination.

DRUGS
General
Association of the British Pharmaceutical Industry, Virtual Health Network.
Medicines compendium 2003.

Comprehensive drug screening in decision making of patients attending the emergency department for suspected drug overdose.

Merrill JO, Marlatt GA.

Alprazolam
Krapf R.
Development of Cushing's syndrome after use of a herbal remedy.

Amphetamines and ecstasy
Spontaneous cervical and mediastinal air emphysema after ecstasy abuse.

Huang MK, Liu CR, Huang SD.
Analysis of illicit amphetamine seizures by capillary zone electrophoresis. sample preparation approach for the analysis of methamphetamine and amphetamine in human urine.

Mental disorders in ecstasy users: a prospective-longitudinal investigation.

Nencini P.
The Shaman and the rave party: social pharmacology of ecstasy.

Petrie V, Parmentier F.
Analysis of illicit amphetamine seizures by capillary zone electrophoresis.
J Chromatogr A 2002; 979: 345-52.

Pompeii P, Cavazzuti E, Martarelli D, Pediconi D, Arletti R, Lucas LR, Massi M.
Preprotachykinin A gene expression after administration of 3,4-methylenedioxyamphetamine (ecstasy).

Ricaute GA, Yuan J, Hatzidimitriou G, Cord BJ, McCann UD.
Severe dopaminergic neurotoxicity in primates after a common recreational dose regimen of MDMA ("ecstasy").

Sato M, Hida M, Nagase H.
Analysis of dimethylamphetamine and its metabolites in human urine by liquid chromatography-electrospray ionization-mass spectrometry with direct sample injection.


Anaesthetics
White SM.
Chemical and biological weapons. implications for anaesthesia and intensive care.

Betamethasone
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Development of Cushing's syndrome after use of a herbal remedy.

Cannabis (marijuana)
Arseneault L, Cannon M, Poulton R, Murray R, Caspi A, Moffitt TE.
Cannabis use in adolescence and risk for adult psychosis: longitudinal prospective study.

Fergusson DM, Horwood LJ, Northstone K, ALSPAC Study Team.
Maternal use of cannabis and pregnancy outcome.

Järvinen T, Pate DW, Laine K.
Cannabinoids in the treatment of glaucoma.

Patton GC, Coffey C, Carlin JB, Degenhardt L, Lysnekey M, Hall W.
Cannabis use and mental health in young people: cohort study.

Pertwee RG.
Cannabinoids and multiple sclerosis.

Ploner CJ, Tschirch A, Ostendorf F, Dick S, Gaymard BM, Rivaud-Péchoux S, Sporkert F, Pragt F, Stadelmann AM.
Oculomotor effects of -9-tetrahydrocannabinol in humans: implications for the functional neuroanatomy of the brain cannabinoid system.

Randall MD, Harris D, Kendall DA, Ralevie V.
Cardiovascular effects of cannabinoids.

Hey MJ, Tennant CC.
Cannabis and mental health - more evidence establishes clear link between use of cannabis and psychiatric illness.

Von Sydow K, Lieb R, Pfister H, Höfker M, Wittchen HU.
What predicts incident use of cannabis and progression to abuse and dependence? A 4-year prospective examination of risk factors in a community sample of adolescents and young adults.
Drug Alcohol Depend 2002; 68: 49-64.

Zammit S, Allebeck P, Andreason S, Lundberg J, Lewis G.
Self reported cannabis use as a risk factor for schizophrenia in Swedish conscripts of 1969: historical cohort study.

Chlorpromazine and clozapine
Haddad PM, Anderson IM.
Antipsychotic-related QTc prolongation, torsade de pointes and sudden death.
**Cocaine**
Bada HS, Bauer CR, Shankaran S, Lester B, Wright LL, Das A, Poole K, Smeriglio VL, Finnegan LP, Maza PL.
Central and autonomic system signs with in utero drug exposure. Arch Dis Child Fetal Neonatal 2002; 87: F106-F112.

Brnimoin S, Shen ML, Sun H.
Radiometric solvent-partitioning assay for screening cocaine hydrolases and measuring cocaine levels in milligram tissue samples. Anal Biochem 2002; 309: 200-5.

Chen K, Kandel D.

Crandall CG, Vongpatanasin W, Victor RG.

Farina M, Yonamine M, Silva OA.

Fein G, Di Scalauni V, Meyerhoff DJ.

Gottschalk PC, Kosten TR.

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**Fentanyl**
Booth JV, Grossman D, Moore J, Lineberger C, Reynolds JD, Reves JG, Sheffield D.

**Gamma hydroxybutyrate**
Elkan AA.

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Haddad PM, Anderson IM.

**Herbal medicines and ethnic remedies**
Ahn CB, Song CH, Kim WH, Kim YK.

Bächli EB, Rampini SK, Schneemann M.
Coin rubbing and camphor intoxication - in reply. JAMA 2002; 288: 1471.


Dasgupta A, Wahed A, Culton L, Olsen M, Wells A, Actor JK.
Activated charcoal is more effective than equilibrium dialysis in removing Chinese medicines Chan Su and Dan Shen from serum and activated charcoal also prevents further absorption of these agents from GI tract in mice: monitoring the effect in clinical laboratory by measuring digoxin activity in serum. Clin Chim Acta 2002; 324: 51-9.

Ernst PE.

**Krapf R.**

**Makino T, Wakushima H, Okamoto T, Okukubo Y, Deguchi Y, Kano Y.**

Schneemann AB, Clark RF.
Coin rubbing and camphor intoxication. JAMA 2002; 288: 1471.

**Droperidol**
Haddad PM, Anderson IM.

**Dimethylsulfoxide**
Leng G, Lewalter J.

**Entacapone**
Beck S, Hubble J, Reinkainen K.

Fisher A, Croft-Baker J, Davis M, Purcell P, McLean AJ.
Entacapone-induced hepatotoxicity and hepatic dysfunction. Mov Disord 2002; 17: 1362-5.

McLean AJ, Purcell P.
Entacapone-induced hepatotoxicity and hepatic dysfunction - reply. Mov Disord 2002; 17: 1399-400.

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Herbal medicine and ethnic remedies

Whiting PW, Clouston A, Kerlin P.
Black cohosh and other herbal remedies associated with acute hepatitis.

Wooltorton E.
Brief safety updates: acetylsalicylic acid, ASA and kava.

Wooltorton E.
Herbal kava: reports of liver toxicity.

Heroin

Buster MCA, Rook L, Van Brussel GHA, Van Ree J, Van den Brink W.
Chasing the dragon, related to the impaired lung function among heroin users.

Levothyroxine
de Luís DA, Duenas A, Martin J, Abad L, Cuellar L, Aller R.
Light symptoms following a high-dose intentional L-thyroxine ingestion treated with cholestyramine.

Methadone

Buster MCA, Rook L, Van Brussel GHA, Van Ree J, Van den Brink W.
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Eap CB, Buclin T, Baumann P.
Interindividual variability of the clinical pharmacokinetics of methadone - implications for the treatment of opioid dependence.

Krantz MJ, Lewkowiez L, Hays H, Woodroffe MA, Robertson AD, Mehler PS.
Torsade de pointes associated with very-high-dose methadone.

Opioids

Bada HS, Bauer CR, Shankaran S, Lester B, Wright LL, Das A, Poole K, Smeriglio VL, Finnegnan LP, Maza PL.
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Eap CB, Buclin T, Baumann P.
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Paracetamol (acetaminophen)

Chikuni O, Nhachi CFB, Polder A, Bergan S, Nafistud I, Skaare JU.
Effects of DDT on paracetamol half-life in highly exposed mothers in Zimbabwe.

Kvedariene V, Bencherioua AM, Messaad D, Godard P, Bousquet J, Demoloy P.
The accuracy of the diagnosis of suspected paracetamol (acetaminophen) hypersensitivity: results of a single-blinded trial.

Pabba SK, Bolla S, Kandhagatla R, Chaluvadi MR, Krishna DR.
Paracetamol metabolism in Indian population.

Pol S, Lebray P.
N-acetylcyesteine for paracetamol poisoning: effect on prothrombin.

Schmidt LE, Knudsen TT, Dalhoff K, Bendtsen F.
Effect of acetylcysteine on prothrombin index in paracetamol poisoning without hepatocellular injury.

Wooltorton E.
Brief safety updates: acetylsalicylic acid, ASA and kava.

Zhao P, Slattery JT.
Effects of ethanol dose and ethanol withdrawal on rat liver mitochondrial glutathione: implication of potentiated acetaminophen toxicity in alcoholics.

Pimozide, risperidone

Haddad PM, Anderson IM.
Antipsychotic-related QTc prolongation, torsade de pointes and sudden death.

Salicylates

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Sertindole

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SPES

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Development of Cushing's syndrome after use of a herbal remedy.

Substance abuse

Arseneault L, Cannon M, Poulton R, Murray R, Caspi A, Moffitt TE.
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Sporadical cervical and mediastinal air emphysema after ecstasy abuse.

Booth JV, Grossman D, Moore J, Lineberger C, Reynolds JD, Reves JG, Sheffield D.
Substance abuse among physicians: a survey of academic anesthesiology programs.

Buster MCA, Rook L, Van Brussel GHA, Van Ree J, Van den Brink W.
Chasing the dragon, related to the impaired lung function among heroin users.

Chen K, Kandel D.
Relationship between extent of cocaine use and dependence among adolescents and adults in the United States.

Crandall CG, Vongpatanasin W, Victor RG.
Cocaine and body temperature regulation - in response.
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Eap CB, Buclin T, Baumann P.
Interindividual variability of the clinical pharmacokinetics of methadone - implications for the treatment of opioid dependence.
**Substance abuse**

Fein G, Di ScalaV, Meyerhoff DJ.
Prefrontal cortical volume reduction associated with frontal cortex function deficit in 6-week abstinent crack-cocaine dependent men.

Fergusson DM, Horwood LJ, Northstone K, ALSPAC Study Team.
Maternal use of cannabis and pregnancy outcome.

Gentili S, Torresi A, Marsili R, Chiarotti M, Macchia T.

Gottschalk PC, Kosten TR.
Cannabis and mental health - more evidence establishes clear link between use of cannabis and psychiatric illness.

Haddad PM, Anderson IM.
Antipsychotic-related QTc prolongation, torsade de pointes and sudden death.

**Sulpiride, thioridazine**

Haddad PM, Anderson IM.
Antipsychotic-related QTc prolongation, torsade de pointes and sudden death.

**Valproate**

Houghton BL, Bowers JB.
Valproic acid overdose: a case report and review of therapy.

**Warfarin**

Makino T, Wakushima H, Okamoto T, Okukubo Y, Deguchi Y, Kano Y.
Pharmacokinetic interactions between warfarin and kangen-karyu, a Chinese traditional herbal medicine, and their synergistic action.

**Ziprasidone, zotepine**

Haddad PM, Anderson IM.
Antipsychotic-related QTc prolongation, torsade de pointes and sudden death.

**CHEMICAL INCIDENTS AND POLLUTION**

**Air pollution**

Kodama Y, Arashidani K, Tokui N, Kawamoto T, Matsumo K, Kunugita N, Minakawa N.
Environmental NO2 concentration and exposure in daily life along main roads in Tokyo.

Lippmann M.
Winter air pollution and respiratory function.
Occup Environ Med 2003; 60: 81.
Air pollution
Acute effects of winter air pollution on respiratory function in schoolchildren in southern England.
Occup Environ Med 2003; 60: 82-9.

Perdelli F, Cristina ML, Sartini M, Orlando P.
Urinary hydroxyproline as a biomarker of effect after exposure to nitrogen dioxide.

BIOMarkers for Occupational Diesel exhaust Exposure Monitoring (BIOMODEM) - a study in underground mining.

Schmunk GA, Kaplan JA.
Asphyxial deaths caused by automobile exhaust inhalation not attributable to carbon monoxide toxicity: study of 2 cases.

Stieh DM, Smith-Doiron M, Brook JR, Burnett RT, Dann T, Mamedov A, Chen Y.
Air pollution and disability days in Toronto: results from the National Population Health Survey.

Zhang JF, Hu W, Wei FS, Wu GP, Korn LR, Chapman RS.
Children's respiratory morbidity prevalence in relation to air pollution in four Chinese cities.

Chemical incidents, pollution and hazardous waste
Harrison RM.
Hazardous waste landfill sites and congenital anomalies.

Kovalchick DF, Burgess JL, Kyes KB, Lymp JF, Russo JE, Roy-Byrne PP, Brodkin CA.
Psychological effects of hazardous materials exposures.

Water pollution
Lever JH.
Paget's disease of bone in Lancashire and arsenic pesticide in cotton mill wastewater: a speculative hypothesis.
Bone 2002; 31: 434-6.

Plewa MJ, Kargalioglu Y, Vankerk D, Minear RA, Wagner ED.
Mammalian cell cytotoxicity and genotoxicity analysis of drinking water disinfection by-products.

Promotion of well-switching to mitigate the current arsenic crisis in Bangladesh.

CHEMICALS
General
Jaffery FN, Misra V, Viswanathan PN.
Convergence of clinical toxicology and epidemiology in relation to health effects of chemicals.

Acrylonitrile
Leng G, Lewalter J.
Polymorphism of glutathione S-transferases and susceptibility to acrylonitrile and dimethyl sulfate in cases of intoxication.

Alcohol (ethanol)
De Martinis BS, Martin CCS.
Automated headspace solid-phase microextraction and capillary gas chromatography analysis of ethanol in postmortem specimens.

Fein G, Di Scalfani V, Meyerhoff DI.
Prefrontal cortical volume reduction associated with frontal cortex function deficit in 6-week abstinent crack-cocaine dependent men.

Gottschalk PC, Kosten TR.
Cerebral perfusion defects in combined cocaine and alcohol dependence.

Jian L.
Alcohol and urinary 2-thiothiazolidine-4-carboxylic acid.

Lukjan JK, Reed DN, Jr., Looney SW, Spain DA, Blondell RD.
Risk factors for delirium tremens in trauma patients.

Norberg A, Jones WA, Hahn RG, Gabrielsson JL.
Role of variability in explaining ethanol pharmacokinetics: research and forensic applications.

Zhaop, Slattery JT.
Effects of ethanol dose and ethanol withdrawal on rat liver mitochondrial glutathione: implication of potentiated acetaminophen toxicity in alcoholics.

Ammonia
Lee JJ, Farley CL, Brodrick CD, Blomquist PH.
Anhydrous ammonia eye injuries associated with illicit methamphetamine production.

Ammonium perchlorate
Thuet KA, Roots EH, Mitchell JP, Gentles BA, Anderson TA, Smith EE.
In utero and lactational exposure to ammonium perchlorate in drinking water: effects on developing deer mice at postnatal day 21.
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Asbestos
Occupational risk factors for renal cell cancer: a case-control study in northern Italy.

Benzene
Pople JE, Ball RL, Padgett MJ, Aston JP.
Construction of a database of benzene biological monitoring.

Bromide
Comparison of urinary bromide levels among people in East Asia, and the effects of dietary intakes of cereals and marine products.

Bromoacetic acid
Plewa MJ, Kargalioglu Y, Vankerk D, Minear RA, Wagner ED.
Mammalian cell cytotoxicity and genotoxicity analysis of drinking water disinfection by-products.

Bromobenzene and bromophenol
Bruchazier E, Szymanska JA, Piotrowski JK.
Acute and subacute nephrotoxicity of 2-bromophenol in rats.
Bromopropane
Ishida T, Kumagita N, Fueta Y, Arashidani K, Hori H.
Effects of inhaled 1-bromopropane vapor on rat metabolism.

Butadiene
Hughes K, Meek ME, Walker M, Beauchamp R.
1,3-Butadiene: exposure estimation, hazard characterization, and exposure-response analysis.

Camphor
Bächli EB, Rampini SK, Schneemann M.
Coin rubbing and camphor intoxication - in reply.
JAMA 2002; 288: 1471.
Schneir AB, Clark RF.
Coin rubbing and camphor intoxication.
JAMA 2002; 288: 1471.

Carbon disulphide
Jian L.
Alcohol and urinary 2-thiothiazolidine-4-carboxylic acid.

Carbon monoxide
Grant MJ, Clay B.
Accidental carbon monoxide poisoning with severe cardiorespiratory compromise in 2 children.
Stieb DM, Smith-Doiron M, Brook JR, Burnett RT, Dann T, Mamedov A, Chen Y.
Air pollution and disability days in Toronto: results from the National Population Health Survey.
Teksam M, Casey SO, Michel E, Liu H, Truwit CL.
Diffusion-weighted MRI imaging findings in carbon monoxide poisoning.

Cyanide
Donoghue AM.
Alternative methods of administering amyl nitrite to victims of cyanide poisoning.
Occup Environ Med 2003; 60: 147.

Dibromoacetic acid and dichloroacetic acid
Plew MJ, Kargalioglu Y, Vankerd K, Minear RA, Wagner ED.
Mammalian cell cytotoxicity and genotoxicity analysis of drinking water disinfection by-products.

Ethylene glycol
Druteika DP, Zed PJ, Ensom MHH.
Role of fomepizole in the management of ethylene glycol toxicity.

Ethylene glycol monomethyl ether (2-methoxyethanol)
Follow up study of haematological effects in workers exposed to 2-methoxyethanol.
Occup Environ Med 2003; 60: 130-5.

Formaldehyde
Lipkova RG, Meek ME.
Inhaled formaldehyde: exposure estimation, hazard characterization, and exposure-response analysis.

Isocyanates
Schweigert M, Sax S, House R, Henderson B.
Investigation of pulmonary function among employees exposed to low levels of monomeric isocyanates and solvents at an automobile finishings plant.

Isopropyl alcohol
Smeets MA, Maate C, Dalton PH.
Acute sensory irritation from exposure to isopropanol (2-propanol) at TLV in workers and controls: objective versus subjective effects.
Zaman F, Pervez A, Abreo K.
Isopropyl alcohol intoxication: a diagnostic challenge.

Jet fuel
Jackman SM, Grant GM, Kolanko CJ, Stenger DA, Nath J.
DNA damage assessment by comet assay of human lymphocytes exposed to jet propulsion fuels.
Petroleum oils
Khan AA, Coppock RW, Schuler MM, Geleta L.
Biochemical changes as early stage systemic biomarkers of petroleum hydrocarbon exposure in rats.

Phenol
Pierrelubart B, Droz PO, Tardif R, Charest-Tardif G, Truchon G.
Impact of human variability on the biological monitoring of exposure to toluene, phenol, lead, and mercury. II. Compartmental based toxicokinetic modelling.

Phosphate
Stephenson JBP.
Phosphate poisoning by proxy.

PM10 (particulate air pollution)
Kodama Y, Arashidani K, Tokui N, Kawamoto T, Matsuno K, Kunugita N, Minakawa N.
Environmental NO₂ concentration and exposure in daily life along main roads in Tokyo.

Acute effects of winter air pollution on respiratory function in schoolchildren in southern England.
Occup Environ Med 2003; 60: 82-9.

Stieb DM, Smith-Doiron M, Brook JR, Burnett RT, Dann T, Mamedov A, Chen Y.
Air pollution and disability days in Toronto: results from the National Population Health Survey.

Children's respiratory morbidity prevalence in relation to air pollution in four Chinese cities.

Polychlorinated biphenyls
Dmitrovic J, Chan SC, Chan SHY.
Analysis of pesticides and PCB congeners in serum by GC/MS with SPE sample cleanup.

Environmental toxins and breast cancer on Long Island. II. Organochlorine compound levels in blood.

James WH.
Sex ratio of offspring born to men exposed to polychlorinated biphenyls.

Polychlorinated dibenzofurans
Fuster G, Schuhmacher M, Domingo JL.
Human exposure to dioxins and furans: application of the substance flow analysis to health risk assessment.

Polycyclic aromatic hydrocarbons
Environmental toxins and breast cancer on Long Island. I. Polycyclic aromatic hydrocarbon DNA adducts.
**Polycyclic aromatic hydrocarbons**


**Propane**


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**Rubber process dust**


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Iron

Lead


**Lead**
Miranda ML, Dolinoy DC, Overstreet MA.
Mapping for prevention: GIS models for directing childhood lead poisoning prevention programs.

Myers SN, Rowell B, Binns HJ.
Lead poisoning and asthma - an examination of comorbidity.

Pierrehumbert G, Droz PO, Tardif R, Charest-Tardif G, Truchon G.
Impact of human variability on the biological monitoring of exposure to toluene, phenol, lead, and mercury: II. Compartmental based toxicokinetic modeling.

Sebee A, Meyer-Baron M.
Neurobehavioural testing in workers occupationally exposed to lead.
Occup Environ Med 2003; 60: 145.

Sowers MR, Scholl TO, Hall G, Janmausch ML, Kemp FW, Li XH, Bogden JD.
Lead in breast milk and maternal bone turnover.

Tait PA, Vora A, James S, Fitzgerald DJ, Pester BA.
Severe congenital lead poisoning in a preterm infant due to a herbal remedy.

Vaziri ND.
Pathogenesis of lead-induced hypertension: role of oxidative stress.

**Manganese**
Dressler J, Schulz K, Klemm M, Schlütig R, Beuthin A, Felscher D.
Lethal manganese-cadmium intoxication. A case report.

Steenkamp V, Stewart MJ, Curowska E, Zuckerman M.
A severe case of multiple metal poisoning in a child treated with a traditional medicine.

**Mercury**
Abdennour C, Khelili K, Boulakoud MS, Nezzaal A, Bousbil S, Slimani S.
Urinary markers of workers chronically exposed to mercury vapor.

Ahn CB, Song CH, Kim WH, Kim YK.
Effects of * Juglans sinensis* Dode extract and antioxidant on mercury chloride-induced acute renal failure in rabbits.

Bárány E, Bergdahl IA, Bratteby LE, Lundh T, Samuelson G, Schütz A, Skerfving S, Oskarsson A.
Relationships between trace element concentrations in human blood and serum.

**Palladium, platinum, rhodium and rubidium**
Bárány E, Bergdahl IA, Bratteby LE, Lundh T, Samuelson G, Schütz A, Skerfving S, Oskarsson A.
Relationships between trace element concentrations in human blood and serum.

**Selenium**
Bárány E, Bergdahl IA, Bratteby LE, Lundh T, Samuelson G, Schütz A, Skerfving S, Oskarsson A.
Relationships between trace element concentrations in human blood and serum.

**Thallium and tungsten**
Bárány E, Bergdahl IA, Bratteby LE, Lundh T, Samuelson G, Schütz A, Skerfving S, Oskarsson A.
Relationships between trace element concentrations in human blood and serum.

**Trace metals**
Bárány E, Bergdahl IA, Bratteby LE, Lundh T, Samuelson G, Schütz A, Skerfving S, Oskarsson A.
Relationships between trace element concentrations in human blood and serum.

**Vanadium**
Ivanescits S, Pilger A, Diem E, Schaffer A, Rüdiger HW.
Vanadate induces DNA strand breaks in cultured human fibroblasts at doses relevant to occupational exposure.

**Zinc**
Bárány E, Bergdahl IA, Bratteby LE, Lundh T, Samuelson G, Schütz A, Skerfving S, Oskarsson A.
Relationships between trace element concentrations in human blood and serum.

**PESTICIDES**

**General**
Pesticide poisoning in the developing world - a minimum pesticides list.

IPCS.
Inventory of IPCS and other WHO pesticide evaluations and summary of toxicological evaluations performed by the Joint Meeting on Pesticide Residues (JMPR). Evaluations through 2002.
Pesticides, general
Marquart H, Brouwer DH, Van Hemmen JJ.
Removing pesticides from the hands with a simple washing procedure using soap and water.

Marrs TC, Proudfoot A.
Toxicology of agrichemicals.

Pastor S, Cresu A, Xamena N, Sifel C, Marcos R.
Occupational exposure to pesticides and cytogenetic damage: results of a Hungarian population study using the micronucleus assay in lymphocytes and buccal cells.

Pesticides and cancer
Environmental toxins and breast cancer on Long Island. II. Organochlorine compound levels in blood.

Giri S, Giri A, Sharma GD, Prasad SB.
Mutagenic effects of carbosulfan, a carbamate pesticide.
Mutat Res Genet Toxicol Environ Mutagen 2002; 519: 75-82.

Ma XM, Buffler PA, Gunier RB, Dahl G, Smith MT, Reiner K, Reynolds P.
Critical windows of exposure to household pesticides and risk of childhood leukemia.

McCarroll NE, Protzel A, Ioannou Y, Stack HF, Jackson MA, Waters MD, Dearfield KL.
A survey of EPA/OPP and open literature on selected pesticide chemicals. III. Mutagenicity and carcinogenicity of benomyl and carbendazim.

Benomyl
McCarroll NE, Protzel A, Ioannou Y, Stack HF, Jackson MA, Waters MD, Dearfield KL.
A survey of EPA/OPP and open literature on selected pesticide chemicals. III. Mutagenicity and carcinogenicity of benomyl and carbendazim.

Calcium arsenate
Lever JH.
Paget's disease of bone in Lancashire and arsenic pesticide in cotton mill wastewater: a speculative hypothesis.
Bone 2002; 31: 434-6.

Carbamate insecticides
Carbosulfan
Giri S, Giri A, Sharma GD, Prasad SB.
Mutagenic effects of carbosulfan, a carbamate pesticide.
Mutat Res Genet Toxicol Environ Mutagen 2002; 519: 75-82.

Mancozeb
Colosio C, Fustinoni S, Birindelli S, Bonomi I, De Paschale G, Mammone T, Tiramani M, Vecellie F, Visentini S, Maroni M.
Ethylenethiourea in urine as an indicator of exposure to mancozeb in vineyard workers.

Propoxur
Terz C, Bacakoglu A, Ünek T, Özkan MH.
Chemical necrotizing fasciitis due to household insecticide injection: is immediate radical surgical debridement necessary?

Zineb
Soloneski S, Reigosa MA, Larramendy ML.
Effect of diethylcarbamate pesticide zineb and its commercial formulation, azzurro. II. Micronucleus induction in immunophenotyped human lymphocytes.

Carbendazim
McCarroll NE, Protzel A, Ioannou Y, Stack HF, Jackson MA, Waters MD, Dearfield KL.
A survey of EPA/OPP and open literature on selected pesticide chemicals. III. Mutagenicity and carcinogenicity of benomyl and carbendazim.

DEET
Abu-Qare AW, Abou-Donia MB.
Combined exposure to DEET (N,N-diethyl-m-toluamide) and permethrin: pharmacokinetics and toxicological effects.

Methylarsonic acid
The chelating treatment is not useful in human's intoxication with acute herbicidal organic arsenic.

Organochlorine pesticides
General
Coumoul X, Dirty M, Barouki R.
PXR-dependent induction of human CYP3A4 gene expression by organochlorine pesticides.

Dmitrovic J, Chan SC, Chan SHY.
Analysis of pesticides and PCB congeners in serum by GC/MS with SPE sample cleanup.

DDT
Chukini O, Nhachi CFB, Polder A, Bergan S, Nafstud I, Skaare JU.
Effects of DDT on paracetamol half-life in highly exposed mothers in Zimbabwe.

Organophosphorus insecticides
General
Karafili-Lede LD, Edwards P, Marrs TC.
Variables influencing the toxic response to organophosphates in humans.

Russo MV, Campanella L, Avino P.
Determination of organophosphorus pesticide residues in human tissues by capillary gas chromatography-negative chemical ionization mass spectrometry analysis.

Chlorpyrifos
Abdel-Rahman AH, Blumenthal GM, Abou-Donia SA, Ali FAF, Abdel-Moneem AE, Abou-Donia MB.
Pharmacokinetic profile and placental transfer of a single intravenous injection of [14C]chlorpyrifos in pregnant rats.

Cocker J, Mason HJ, Garfitt SJ, Jones K.
Biological monitoring of exposure to organophosphate pesticides.

Diazinon
Cocker J, Mason HJ, Garfitt SJ, Jones K.
Biological monitoring of exposure to organophosphate pesticides.

Garfitt SJ, Jones K, Mason HJ, Cocker J.
Exposure of humans to the organophosphate diazinon: data from a volunteer study with oral and dermal doses.
**Dimethoate and isocarboflos**
Estrogenicity of organophosphorus and pyrethroid pesticides.

**Malathion**
Estrogenicity of organophosphorus and pyrethroid pesticides.

Cocker J, Mason HJ, Garfitt SJ, Jones K.
Biological monitoring of exposure to organophosphate pesticides.

Tuomainen A, Kangas IA, Meuling WJA, Glass RC.
Monitoring of pesticide applicators for potential dermal exposure to malathion and biomarkers in urine.

**Methamidophos**
He FS, Chen SY, Tang XY, Gan WQ, Tao BG, Wen BY.
Biological monitoring of combined exposure to organophosphates and pyrethroids.

**Methidathion**
Altuntas I, Delibas N, Sutcu R.
The effects of organophosphate insecticide methidathion on lipid peroxidation and anti-oxidant enzymes in rat erythrocytes: role of vitamins E and C.

**Methyl parathion**
He FS, Chen SY, Tang XY, Gan WQ, Tao BG, Wen BY.
Biological monitoring of combined exposure to organophosphates and pyrethroids.

**Mevinphos**
Chuang C-C, Lin T-S, Tsai M-C.
Delayed neuropathy and myelopathy after organophosphate intoxication.

**Monocrotophos**
Estrogenicity of organophosphorus and pyrethroid pesticides.

**Phosphamidon**
Chuang C-C, Lin T-S, Tsai M-C.
Delayed neuropathy and myelopathy after organophosphate intoxication.

**Phoxim**
Estrogenicity of organophosphorus and pyrethroid pesticides.

**Propetamphos**
Garfitt SJ, Jones K, Mason HJ, Cocker J.
Oral and dermal exposure to propetamphos: a human volunteer study.

**Paraquat**
Combined methylprednisolone and dexamethasone therapy for paraquat poisoning.

Environmental risk factors and Parkinson's disease: selective degeneration of nigral dopaminergic neurons caused by the herbicide paraquat.

**Propineb**
Schmuck G, Ahr HJ, Mihail F, Stahl B, Kayser M.
effects of the dithiocarbamate fungicide propineb in primary neuronal cell cultures and skeletal muscle cells of the rat.

**Pyrethroids**

**General**
Schettgen T, Headorf U, Drexler H, Angerer E.
Pyrethroid exposure of the general population - is this due to diet?

**Allethrin**
Lack of changes in brain muscarinic receptor and motor activity of mice after neonatal inhalation exposure to d-allethrin.

**Cyfluthrin**
Terzi C, Bacakoglu A, Unek T, Ozkam MH.
Chemical necrotizing fasciitis due to household insecticide injection: is immediate radical surgical debridement necessary?

**Cypermethrin**
Estrogenicity of organophosphorus and pyrethroid pesticides.

**Deltamethrin**
Estrogenicity of organophosphorus and pyrethroid pesticides.

He FS, Chen SY, Tang XY, Gan WQ, Tao BG, Wen BY.
Biological monitoring of combined exposure to organophosphates and pyrethroids.

Lee HJ, Shan G, Watanabe T, Stoutamire DW, Gee SJ, Hammock BD.
Enzyme-linked immunosorbent assay for the pyrethroid deltamethrin.

**Fenvalerate**
Estrogenicity of organophosphorus and pyrethroid pesticides.

**Permethrin**
Abu-Qare AW, Abou-Donia MB.
Combined exposure to DEET (N,N-diethyl-m-toluamide) and permethrin: pharmacokinetics and toxicological effects.

Estrogenicity of organophosphorus and pyrethroid pesticides.

**Rodenticides**

**Superwarfarins**
Kanabar D, Volans G.
Accidental superwarfarin poisoning in children - less treatment is better.

**Triazine herbicides**
MacLennan PA, Delzell E, Sathiakumar N, Myers SL, Cheng H, Grizzle W, Chen VW, Wu XC.
Cancer incidence among triazine herbicide manufacturing workers.
CHEMICAL WARFARE, BIOLOGICAL WARFARE AND RIOT CONTROL AGENTS

Biological warfare

General

Baker DJ.
Management of casualties from terrorist chemical and biological attack: a key role for the anaesthetist.

Henretig FM, Cieslak TJ, Etizen EM, Jr.
Biological and chemical terrorism.

Tan GA, Fitzgerald MCB.
Chemical-biological-radiological (CBR) response: a template for hospital emergency departments.

White SM.
Chemical and biological weapons. implications for anaesthesia and intensive care.

Anthrax

Weis CP, Intrepido AJ, Miller AK, Cowin PG, Durno MA, Gebhardt JS, Bull R.

Smallpox

Blendon RJ, DesRoches CM, Benson JM, Herrmann MJ, Taylor-Clark K, Weldon KJ.
The public and the smallpox threat.

Bozzette SA, Boer R, Bhatnagar V, Brower JL, Keeler EB, Morton SC, Stoto MA.
A model for a smallpox-vaccination policy.

Bremner JG, Arita I, Fenner F.
Preventing the return of smallpox.

Mack T.
A different view of smallpox and vaccination.

Madeley CR.
Diagnosing smallpox in possible bioterrorist attack.

Schraeder TL, Campion EW.
Smallpox vaccination - the call to arms.

Sepkowitz KA.
How contagious is vaccinia?

Chemical warfare

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Baker DJ.
Management of casualties from terrorist chemical and biological attack: a key role for the anaesthetist.

Henretig FM, Cieslak TJ, Etizen EM, Jr.
Biological and chemical terrorism.

Steiner WE, Clowers BH, Matz LM, Siems WF, Hill HH, Jr.
Rapid screening of aqueous chemical warfare agent degradation products: ambient pressure ion mobility mass spectrometry.

Tan GA, Fitzgerald MCB.
Chemical-biological-radiological (CBR) response: a template for hospital emergency departments.

White SM.
Chemical and biological weapons. implications for anaesthesia and intensive care.

Chloropicrin

Muir B, Carrick WA, Cooper DB.
Application of central composite design in the optimisation of thermal desorption parameters for the trace level determination of the chemical warfare agent chloropicrin.

Mustard gas

Chilcott RP, Jenner J, Hotchkiss SAM, Rice P.
Evaluation of barrier creams against sulphur mustard.

Ghotbi L, Hassan Z.
The immunostatus of natural killer cells in people exposed to sulfur mustard.
Int Immunopharmacol 2002; 2: 981-5.

Lefkowitz LJ, Smith WJ.
Sulfur mustard-induced arachidonic acid release is mediated by phospholipase D in human keratinocytes.

Nerve agents

Dual amperometric-potentiometric biosensor detection system for monitoring organophosphorus neurotoxins.

Sarin

Abdel-Rahman A, Shetty AK, Abou-Donia MB.
Acute exposure to sarin increases blood brain barrier permeability and induces neuropathological changes in the rat brain: dose-response relationships.
Neuroscience 2002; 113: 721-41.

PLANTS

Black cohosh

Whiting PW, Clouston A, Kerlin P.
Black cohosh and other herbal remedies associated with acute hepatitis.

Callilepis laureola

Stewart MJ, Steenksang V, van der Merwe S, Zuckerman M, Crowther NJ.
The cytotoxic effects of a traditional Zulu remedy, impila (Callilepis laureola).

Juglans sinensis

Ahn CB, Song CH, Kim WH, Kim YK.
Effects of Juglans sinensis Dode extract and antioxidant on mercury chloride-induced acute renal failure in rabbits.

Kava

Wooltorton E.
Brief safety updates: acetaminophen, ASA and kava.

Wooltorton E.
Herbal kava: reports of liver toxicity.
### Nicotiana glauca
Steenkamp PA, Van Heerden FR, Van Wyk BE.

### Simplocos racemosa Roxb
Thongsawd W, Marsden CA.
A herbal medicine used in the treatment of addiction mimics the action of amphetamine on in vitro rat striatal dopamine release.

### Thevetia nereifolia/peruviana
Maringhini G, Notaro I, Barberi O, Giubilato A, Butera R, Di Pasquale P.
Cardiovascular glycoside-like intoxication following ingestion of *Thevetia nereifolia/peruviana* seeds: a case report.

### ANIMALS

#### Algae, crabs and shellfish
Oikawa H, Fujita T, Satomi M, Suzuki T, Kotani Y, Yano Y.
Accumulation of paralytic shellfish poisoning toxins in the edible shore crab *Telmessus acutidentis*.

#### Jellyfish
Taylor DM, Pereira P, Seymour J, Winkel KD.
A sting from an unknown jellyfish species associated with persistent symptoms and raised troponin I levels.

#### Spiders
Pneumatikos IA, Galiatsou E, Goe D, Kitsakos A, Nakos G, Vourgogloukakis TG.
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