

# 181 Cocaine, Methamphetamine, and Other Amphetamines

## REFERENCES

- Substance Abuse and Mental Health Services Administration. (2009). *Results from the 2008 National Survey on Drug Use and Health: National Findings* (Office of Applied Studies, NSDUH Series H-36, HHS Publication No. SMA 09-4434). Rockville, MD. Available at: <http://www.oas.samhsa.gov/nsduh/2k8nsduh/2k8Results.pdf>. Accessed May 13, 2010.
- Drug Abuse Warning Network, National Estimates, Drug-Related Emergency Department Visits for 2004-2008. Available at: <http://dawninfo.samhsa.gov/data/default.asp?met=All>. Accessed May 13, 2010.
- Marzuk PM, Tardiff K, Leon AC, et al: Fatal injuries after cocaine use as a leading cause of death among young adults in New York City. *N Engl J Med* 332: 1753, 1995.
- United Nations, Office on Drugs and Crime: *2008 World Drug Report*. Vienna, United Nations, Office on Drugs and Crime, 2008 Available at: [http://www.unodc.org/documents/wdr/WDR\\_2008/WDR\\_2008\\_eng\\_web.pdf](http://www.unodc.org/documents/wdr/WDR_2008/WDR_2008_eng_web.pdf). Accessed March 24, 2009.
- Lineberry TW, Bostwick JM: Methamphetamine abuse: a perfect storm of complications. *Mayo Clin Proc* 81: 77, 2006.
- Gray SD, Fatovich DM, McCoubrie DL, Daly FF: Amphetamine-related presentations to an inner-city tertiary emergency department: a prospective evaluation. *Med J Aust* 186: 336, 2007.
- Hendrickson RG, Cloutier R, McConnell KJ: Methamphetamine-related emergency department utilization and cost. *Acad Emerg Med* 15: 23, 2008.
- Bronstein AC, Spyker DA, Cantilena LR Jr, et al; American Association of Poison Control Centers: 2008 Annual report of the American Association of Poison Control Centers' National Poison Data System (NPDS): 26th annual report. *Clin Toxicol (Phila)* 47: 911, 2009.
- Hoffman RS, Henry GC, Howland MA, et al: Association between life-threatening cocaine toxicity and plasma cholinesterase activity. *Ann Emerg Med* 21: 247, 1992.
- Heard K, Palmer R, Zahniser NR: Mechanisms of acute cocaine toxicity. *Open Pharmacol J* 2: 70, 2008.
- White SR: Amphetamine toxicity. *Semin Respir Crit Care Med* 23: 27, 2002.
- Greene SL, Kerr F, Braitberg G: Review article: amphetamines and related drugs of abuse. *Emerg Med Australas* 20: 391, 2008.
- Rusyniak DE, Sprague JE: Toxin-induced hyperthermic syndromes. *Med Clin North Am* 89: 1277, 2005. Erratum in: *Med Clin North Am* 90: 261, 2006.
- Klein-Schwartz W: Abuse and toxicity of methylphenidate. *Curr Opin Pediatr* 14: 219, 2002.
- Soutullo CA, Cottingham EM, Keck PE: Psychosis associated with pseudoephedrine and dextromethorphan. *J Am Acad Child Adolesc Psychiatry* 38: 1471, 1999.
- Roberge RJ, Hirani KH, Rowland PL, et al: Dextromethorphan- and pseudoephedrine-induced agitated psychosis and ataxia: case report. *J Emerg Med* 17: 285, 1999.
- Curran C, Byrappa N, McBride A: Stimulant psychosis: systematic review. *Br J Psychiatry* 185: 196, 2004.
- Kernan WN, Viscoli C, Brass LM, et al: Phenylpropanolamine and the risk of hemorrhagic stroke. *N Engl J Med* 343: 1826, 2000.
- Haller CA, Benowitz NL: Adverse cardiovascular and central nervous system events associated with dietary supplements containing ephedra alkaloids. *N Engl J Med* 343: 1833, 2000.
- Lange RA, Cigarroa RG, Yancy CW, et al: Cocaine-induced coronary artery vasoconstriction. *N Engl J Med* 321: 1557, 1989.
- Lange RA, Cigarroa RG, Flores ED, et al: Potentiation of cocaine-induced coronary vasoconstriction by beta-adrenergic blockade. *Ann Intern Med* 112: 897, 1990.
- Hollander JE, Hoffman RS: Cocaine-induced myocardial infarction: an analysis and review of the literature. *J Emerg Med* 10: 169, 1992.
- Hollander JE, Hoffman RS, Gennis P, et al: Prospective multicenter evaluation of cocaine associated chest pain. *Acad Emerg Med* 1: 330, 1994.
- Oosterbaan R, Burns MJ: Myocardial infarction associated with phenylpropanolamine. *J Emerg Med* 18: 55, 2000.
- Wang NE, Gillis E, Mudie D: Hypertensive crisis and NSTEMI after accidental overdose of sustained release pseudoephedrine: a case report. *Clin Toxicol (Phila)* 46: 922, 2008.
- Catrasvas JD, Waters IW: Acute cocaine intoxication in the conscious dog: studies on the mechanism of lethality. *J Pharmacol Exp Ther* 217: 350, 1981.
- Kaufman MJ, Levin JM, Ross MH, et al: Cocaine-induced cerebral vasoconstriction detected in humans with magnetic resonance angiography. *JAMA* 279: 376, 1998.
- Restrepo CS, Carrillo JA, Martínez S, et al: Pulmonary complications from cocaine and cocaine-based substances: imaging manifestations. *Radiographics* 27: 941, 2007.
- Osborn HH, Tang M, Bradley K, et al: New onset bronchospasm or recrudescence of asthma associated with cocaine abuse. *Acad Emerg Med* 4: 689, 1997.
- Tashkin DP, Kleerup EC, Koyal SN, et al: Acute effects of inhaled and intravenous cocaine on airway dynamics. *Chest* 110: 904, 1996.
- Richards JR, Johnson EB, Stark RW, Derlet RW: Methamphetamine abuse and rhabdomyolysis in the ED: a 5-year study. *Am J Emerg Med* 17: 681, 1999.
- Brody SL, Wrenn KD, Wilber MM, Slovis CM: Predicting the severity of cocaine associated rhabdomyolysis. *Ann Emerg Med* 19: 1137, 1990.
- Ness RB, Grisso JA, Hirschinger N, et al: Cocaine and tobacco use and the risk of spontaneous abortion. *N Engl J Med* 340: 333, 1999.
- Plessinger MA, Woods JR: Cocaine in pregnancy: recent data on maternal and fetal risks. *Obstet Gynecol Clin North Am* 25: 99, 1998.
- Booker RJ, Smith JE, Rodger MP: Packers, pushers and stuffers—managing patients with concealed drugs in UK emergency departments: a clinical and medicolegal review. *Emerg Med J* 26: 316, 2009.
- Winslow BT, Voorhees KI, Pehl KA: Methamphetamine abuse. *Am Fam Physician* 76: 1169, 2007.
- Hollander JE: The management of cocaine-associated myocardial ischemia. *N Engl J Med* 333: 1267, 1995.
- Lange RA, Hillis LD: Medical progress: cardiovascular complications of cocaine use. *N Engl J Med* 345: 351, 2001.
- McCord J, Jneid H, Hollander JE, et al: Management of cocaine-associated chest pain and myocardial infarction: a scientific statement from the American Heart Association Acute Cardiac Care Committee of the Council on Clinical Cardiology. *Circulation* 117: 1897, 2008.
- Hollander JE, Burstein JL, Hoffman RS, et al: Cocaine-associated myocardial infarction: clinical safety of thrombolytic therapy. *Chest* 107: 1237, 1995.
- Hollander JE, Wilson LD, Leo PJ, Shih RD: Complications from the use of thrombolytic agents in patients with cocaine associated chest pain. *J Emerg Med* 14: 731, 1996.
- Suchard JR: Recovery from severe hyperthermia (45 degrees C) and rhabdomyolysis induced by methamphetamine body-stuffing. *West J Emerg Med* 8: 93, 2007.
- Kosten TR, O'Connor PG: Management of drug and alcohol withdrawal. *N Engl J Med* 348: 1786, 2003.
- Shoptaw SJ, Kao U, Heinzerling K, Ling W: Treatment for amphetamine withdrawal. *Cochrane Database Syst Rev* 2: CD003021, 2009.
- Weber JE, Shofer FS, Larkin GL, et al: Validation of a brief observation period for patients with cocaine-associated chest pain. *N Engl J Med* 348: 510, 2003.

## USEFUL WEB RESOURCES

Drug Abuse Warning Network—<http://dawninfo.samhsa.gov/>  
 2008 World Drug Report, United Nations, Office on Drugs and Crime—[http://www.unodc.org/documents/wdr/WDR\\_2008/WDR\\_2008\\_eng\\_web.pdf](http://www.unodc.org/documents/wdr/WDR_2008/WDR_2008_eng_web.pdf)  
 American Association of Poison Control Centers—<http://www.aapcc.org/DNN/>  
 American Academy of Clinical Toxicology—<http://www.clintox.org/index.cfm>  
 European Association of Poisons Centres and Clinical Toxicologists—<http://www.eapcc.org/>  
 Asia Pacific Association of Medical Toxicology—<http://www.asiattox.org/>  
 South Asian Clinical Toxicology Research Collaboration—<http://www.sactrc.org/>  
 TOXBASE: The primary clinical toxicology database of the National Poisons Information Service (free access for UK National Health Service hospital departments and general practices, and National Health Service departments of public health and health protection agency units; available to hospital EDs in Ireland by contract; available to European poison centers whose staff are members of the European Association of Poisons Centres and Clinical Toxicologists; overseas users may be allowed access on payment of a yearly subscription, subject to the approval of the Health Protection Agency)—<http://www.toxbase.org/>