

REFERENCES

- Ferner RE, Dear JW, Bateman DN: Management of paracetamol poisoning. *BMJ* 342: d2218, 2011. [PMID: 21508044]
- Saab S, Kohny PG, Viramontes MR, et al: Limited knowledge of acetaminophen in patients with liver disease. *J Clin Transl Hepatol* 4: 281, 2016. [PMID: 28097095]
- Larson AM, Polson J, Fontana RJ, et al: Acetaminophen-induced acute liver failure: results of a United States multicenter, prospective study. *Hepatology* 42: 1364, 2005. [PMID: 16317692]
- Yoon E, Babar A, Choudhary M, et al: Acetaminophen-induced hepatotoxicity: a comprehensive update. *J Clin Transl Hepatol* 4: 131, 2016. [PMID: 27350943]
- Clark R, Fisher JE, Sketris IS, Johnston GM: Population prevalence of high dose paracetamol in dispensed paracetamol/opioid prescription combinations: an observational study. *BMC Clin Pharmacol* 12: 11, 2012. [PMID: 22709372]
- <http://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm239894.htm> (U.S. Food and Drug Administration: FDA limits acetaminophen in prescription combination products; requires liver toxicity warnings.) Accessed on February 15, 2012.
- Caparrotta TM, Antoine DJ, Dear JW: Are some people at increased risk of paracetamol-induced liver injury? A critical review of the literature. *Eur J Clin Pharmacol* 74: 147, 2018. [PMID: 29067481]
- Mohler CR, Nordt SP, Williams SR, et al: Prospective evaluation of mild to moderate pediatric acetaminophen exposures. *Ann Emerg Med* 35: 239, 2000. [PMID: 10692190]
- James LP, Wells E, Beard RH, Farrar HC: Predictors of outcome after acetaminophen poisoning in children and adolescents. *J Pediatr* 140: 522, 2002. [PMID: 12032516]
- Hendrickson RG, McKeown NJ, West PL, Burke CR: Bactrian ('double hump') acetaminophen pharmacokinetics: a case series and review of the literature. *J Med Toxicol* 6: 337, 2010. [PMID: 20446076]
- Kirschner RI, Rozier CM, Smith LM, Jacobitz KL: Nomogram line crossing after acetaminophen combination product overdose. *Clin Toxicol* 54: 40, 2016. [PMID: 26567585]
- Dougherty PP, Klein-Schwartz W: Unexpected late rise in plasma acetaminophen concentrations with change in risk stratification in acute acetaminophen overdoses. *J Emerg Med* 43: 58, 2012. [PMID: 21719230]
- <http://www.ofirmev.com/pdf/OFIRMEVPrescribingInformation.pdf>. (Prescribing information.) Accessed on February 15, 2012.
- Fontana RJ: Acute liver failure including acetaminophen overdose. *Med Clin North Am* 92: 761, 2008. [PMID: 18570942]
- Chun LJ, Tong MJ, Busuttill RW, Hiatt JR: Acetaminophen hepatotoxicity and acute liver failure. *J Clin Gastroenterol* 43: 342, 2009. [PMID: 19169150]
- Ozkaya O, Genc G, Bek K, Sullu Y: A case of acetaminophen (paracetamol) causing renal failure without liver damage in a child and review of literature. *Ren Fail* 32: 1125, 2010. [PMID: 20863222]
- Igarashi H, Ito T, Yoshinaga M, Oono T, Sakai H, Takayanagi R: Acetaminophen-induced acute pancreatitis. A case report. *JOP* 10: 550, 2009. [PMID: 19734636]
- Shah AD, Wood DM, Dargan PI: Understanding lactic acidosis in paracetamol (acetaminophen) poisoning. *Br J Clin Pharmacol* 71: 20, 2011. [PMID: 21143497]
- Ghannoum M, Kazim S, Grunbaum AM, et al: Massive acetaminophen overdose: effect of hemodialysis on acetaminophen and acetylcysteine kinetics. *Clin Toxicol* 54: 519, 2016. [PMID: 27118496]
- Wood DM, Dargan PI, Jones AL: Measuring plasma salicylate concentrations in all patients with drug overdose or altered consciousness: is it necessary? *Emerg Med J* 22: 401, 2005. [PMID: 15911944]
- Graham CA, Irons AJ, Munro PT: Paracetamol and salicylate testing: routinely required for all overdose patients? *Eur J Emerg Med* 13: 26, 2006. [PMID: 16374244]
- Ashbourne JF, Olson KR, Khayam-Bashi H: Value of rapid screening for acetaminophen in all patients with intentional drug overdose. *Ann Emerg Med* 18: 1035, 1989. [PMID: 2802276]
- Bentur Y, Lurie Y, Tamir A, Keyes DC, Basis F: Reliability of history of acetaminophen ingestion in intentional drug overdose patients. *Hum Exp Toxicol* 30: 44, 2011. [PMID: 20354060]
- Rumack BH, Matthew H: Acetaminophen poisoning and toxicity. *Pediatrics* 55: 871, 1975. [PMID: 1134886]
- Wolf SJ, Heard K, Sloan EP, et al: Clinical policy: critical issues in the management of patients presenting to the emergency department with acetaminophen overdose. *Ann Emerg Med* 50: 292, 2007. [PMID: 17709050]
- Daly FF, Fountain JS, Murray L, et al: Guidelines for the management of paracetamol poisoning in Australia and New Zealand—explanation and elaboration. A consensus statement from clinical toxicologists consulting to the Australasian poisons information centres. *Med J Aust* 188: 296, 2008. [PMID: 18312195]
- Smilkstein MJ, Knapp GL, Kulig KW, et al: Efficacy of oral N-acetylcysteine in the treatment of acetaminophen overdose. *N Engl J Med* 319: 1557, 1988. [PMID: 3059186]
- Beringer RM, Thompson JP, Parry S, Stoddart PA: Intravenous paracetamol overdose: two case reports and a change to national treatment guidelines. *Arch Dis Child* 96: 307, 2011. [PMID: 21127004]
- Gray T, Hoffman RS, Bateman DN: Intravenous paracetamol—an international perspective of toxicity. *Clin Toxicol (Phila)* 49: 150, 2011. [PMID: 21443426]
- Dart RC, Rumack BH: Intravenous acetaminophen in the United States: iatrogenic dosing error. *Pediatrics* 129: 349, 2012. [PMID: 22271694]
- Berling I, Anscombe M, Isbister GK: Intravenous paracetamol toxicity in a malnourished child. *Clin Toxicol* 50: 74, 2012. [PMID: 22115056]
- Gude AB, Hoegberg LC, Angelo HR, Christensen HR: Dose-dependent adsorptive capacity of activated charcoal for gastrointestinal decontamination of a simulated paracetamol overdose in human volunteers. *Basic Clin Pharmacol Toxicol* 106: 406, 2010. [PMID: 20002061]
- Wananukul W, Klaikeun S, Sriapha C, Tongpoo A: Effect of activated charcoal in reducing paracetamol absorption at a supra-therapeutic dose. *J Med Assoc Thai* 93: 1145, 2010. [PMID: 20973316]
- Brok J, Buckley N, Gluud C: Interventions for paracetamol (acetaminophen) overdose. *Cochrane Database Syst Rev* 2: CD003328, 2006. [PMID: 16625578]
- Heard KJ: Acetylcysteine for acetaminophen poisoning. *N Engl J Med* 359: 285, 2008. [PMID: 18635433]
- Heard K, Green J: Acetylcysteine therapy for acetaminophen poisoning. *Curr Pharm Biotechnol* 13: 1917, 2012. [PMID: 22352734]
- Rumack BH, Bateman DN: Acetaminophen and acetylcysteine dose and duration: past, present and future. *Clin Toxicol (Phila)* 50: 91, 2012. [PMID: 22320209]
- Chomchai S, Chomchai C, Anusornsuwan T: Acetaminophen psi parameter: a useful tool to quantify hepatotoxicity risk in acute acetaminophen overdose. *Clin Toxicol (Phila)* 49: 664, 2011. [PMID: 21819286]
- Wilkes JM, Clark LE, Herrera JL: Acetaminophen overdose in pregnancy. *South Med J* 98: 1118, 2005. [PMID: 16351032]
- Kanter MZ: Comparison of oral and I.V. acetylcysteine in the treatment of acetaminophen poisoning. *Am J Health Syst Pharm* 63: 1821, 2006. [PMID: 16990628]
- Martello JL, Pummer TL, Krenzelo EP: Cost minimization analysis comparing enteral N-acetylcysteine to intravenous acetylcysteine in the management of acute acetaminophen toxicity. *Clin Toxicol (Phila)* 48: 79, 2010. [PMID: 20095817]
- Bebarta VS, Kao L, Froberg B, et al: A multicenter comparison of the safety of oral versus intravenous acetylcysteine for treatment of acetaminophen overdose. *Clin Toxicol (Phila)* 48: 424, 2010. Erratum in: *Clin Toxicol (Phila)* 48: 770, 2010. [PMID: 20524832]
- Klein-Schwartz W, Doyon S: Intravenous acetylcysteine for the treatment of acetaminophen overdose. *Expert Opin Pharmacother* 12: 119, 2011. [PMID: 21126198]
- Kao LW, Kirk MA, Furbee RB, et al: What is the rate of adverse events after oral N-acetylcysteine administered by the intravenous route to patients with suspected acetaminophen poisoning? *Ann Emerg Med* 42: 741, 2003. [PMID: 14634597]
- Yarema M, Chopra P, Sivilotti MLA, et al: Anaphylactoid reactions to intravenous N-acetylcysteine during treatment for acetaminophen poisoning. *J Med Toxicol* 14: 173, 2018. [PMID: 29532341]
- Zyoud SH, Awang R, Sulaiman SA, et al: Relationship between serum acetaminophen concentration and N-acetylcysteine-induced adverse drug reactions. *Basic Clin Pharmacol Toxicol* 107: 718, 2010. [PMID: 20374238]
- Bailey B, McGuigan MA: Management of anaphylactoid reactions to intravenous N-acetylcysteine. *Ann Emerg Med* 31: 710, 1998. [PMID: 9624310]
- Sandilands EA, Bateman DN: Adverse reactions associated with acetylcysteine. *Clin Toxicol (Phila)* 47: 81, 2009. [PMID: 19280424]
- Waring WS, Stephen AF, Robinson OD, et al: Lower incidence of anaphylactoid reactions to N-acetylcysteine in patients with high acetaminophen concentrations after overdose. *Clin Toxicol (Phila)* 46: 496, 2008. [PMID: 18584360]
- Pakravan N, Waring WS, Sharma S, et al: Risk factors and mechanisms of anaphylactoid reactions to acetylcysteine in acetaminophen overdose. *Clin Toxicol (Phila)* 46: 697, 2008. [PMID: 18803085]
- Bateman DN, Dear JW, Thomas SHL: New regimens for intravenous acetylcysteine: where are we now? *Clin Toxicol* 54: 75, 2016. [PMID: 26666290]
- Chiew AL, Isbister GK, Duffull SB, Buckley NA: Evidence for the changing regimens of acetylcysteine. *Br J Clin Pharmacol* 81: 471, 2016. [PMID: 26387650]
- Shen F, Coulter CV, Isbister GK, Duffull SB: A dosing regimen for immediate N-acetylcysteine treatment for acute paracetamol overdose. *Clin Toxicol (Phila)* 49: 643, 2011. [PMID: 21854081]
- Johnson MT, McCammon CA, Mullins ME, Halcomb SE: Evaluation of a simplified N-acetylcysteine dosing regimen for the treatment of acetaminophen toxicity. *Ann Pharmacother* 45: 713, 2011. [PMID: 21586653]
- Woodhead JL, Howell BA, Yang YY, et al: An analysis of N-acetylcysteine treatment for acetaminophen overdose using a systems model of drug-induced liver injury. *J Pharmacol Exp Ther* 342: 529, 2012. [PMID: 22593093]
- Oakley E, Robinson J, Deasy C: Using 0.45% saline solution and a modified dosing regimen for infusing N-acetylcysteine in children with paracetamol poisoning. *Emerg Med Australas* 23: 63, 2011. [PMID: 21284815]
- Perry HE, Shannon MW: Efficacy of oral versus intravenous N-acetylcysteine in acetaminophen overdose: results of an open-label, clinical trial. *J Pediatr* 132: 149, 1998. [PMID: 9470017]
- Prescott L: Oral or intravenous N-acetylcysteine for acetaminophen poisoning? *Ann Emerg Med* 45: 409, 2005. [PMID: 15795720]
- Yarema MC, Johnson DW, Berlin RJ, et al: Comparison of the 20-hour intravenous and 72-hour oral acetylcysteine protocols for the treatment of acute acetaminophen poisoning. *Ann Emerg Med* 54: 606, 2009. [PMID: 19556028]
- Heard K: A multicenter comparison of the safety of oral versus intravenous acetylcysteine for treatment of acetaminophen overdose. *Clin Toxicol (Phila)* 48: 424, 2010. [PMID: 20524832]

61. Keays R, Harrison PM, Wendon JA, et al: Intravenous acetylcysteine in paracetamol-induced fulminant hepatic failure: a prospective controlled trial. *BMJ* 303: 1026, 1991. [PMID: 1954453]
62. Gosselin S, Juurlink DN, Kielstein JT, et al: Extracorporeal treatment for acetaminophen poisoning: recommendations from the EXTRIP workgroup. *Clin Toxicol* 52: 856, 2014. [PMID: 25133498]
63. Sivilotti MLA, Juurlink DN, Garland JS, et al: Antidote removal during haemodialysis for massive acetaminophen overdose. *Clin Toxicol* 51: 855, 2013. [PMID: 24134534]
64. Hernandez SH, Howland M, Schiano TD, Hoffman RS: The pharmacokinetics and extracorporeal removal of N-acetylcysteine during renal replacement therapies. *Clin Toxicol* 53: 941, 2015. [PMID: 26484583]
65. Mehrpour O, Shadnia S, Sanaei-Zadeh H: Late extensive intravenous administration of N-acetylcysteine can reverse hepatic failure in acetaminophen overdose. *Hum Exp Toxicol* 30: 51, 2011. [PMID: 20332167]
66. Nabi T, Nabi S, Rafiq N, Shah A: Role of N-acetylcysteine treatment in non-acetaminophen-induced acute liver failure: a prospective study. *Saudi J Gastroenterol* 23: 169, 2017. [PMID: 28611340]
67. Darweesh SK, Ibrahim MF, El-Tahawy MA: Effect of N-acetylcysteine on mortality and liver transplantation rate in non-acetaminophen-induced acute liver failure: a multi-center study. *Clin Drug Invest* 37: 473, 2017. [PMID: 28205121]
68. Lee WM, Hynan LS, Rossaro L, et al: Intravenous N-acetylcysteine improves transplant-free survival in early stage non-acetaminophen acute liver failure. *Gastroenterology* 137: 856, 2009. [PMID: 19524577]
69. Sivilotti ML, Yarema MC, Juurlink DN, et al: A risk quantification instrument for acute acetaminophen overdose patients treated with N-acetylcysteine. *Ann Emerg Med* 46: 263, 2005. [PMID: 16126138]
70. Mitchell I, Bihari D, Chang R, et al: Early identification of patients at risk from acetaminophen-induced acute liver failure. *Crit Care Med* 26: 279, 1998. [PMID: 9468165]
71. Bernal W, Donaldson N, Wyncoll D, et al: Blood lactate as an early predictor of outcome in paracetamol induced acute liver failure: a cohort study. *Lancet* 359: 558, 2002. [PMID: 11867109]
72. Schmidt LE, Dalhoff K: Serum phosphate is an early predictor of outcome in severe acetaminophen-induced hepatotoxicity. *Hepatology* 36: 659, 2002. [PMID: 12198658]
73. Levine M, Stellpflug SJ, Pizon AF, et al: Hypoglycemia and lactic acidosis outperform King's College criteria for predicting death or transplant in acetaminophen toxic patients. *Clin Toxicol* 56: 622, 2018. [PMID: 29301418]
74. Craig DG, Bates CM, Davidson JS, et al: Staggered overdose pattern and delay to hospital presentation are associated with adverse outcomes following paracetamol-induced hepatotoxicity. *Br J Clin Pharmacol* 73: 285, 2012. [PMID: 22106945]
75. Temple AR, Mrazik TJ: More on extended-release acetaminophen. *N Engl J Med* 333: 1508, 1995. [PMID: 7477164]
76. Cetaruk EW, Dart RC, Hurlbut KM, et al: Tylenol extended relief overdose. *Ann Emerg Med* 30: 104, 1997. [PMID: 9209234]
77. Doyon S, Klein-Schwartz W: Hepatotoxicity despite early administration of intravenous N-acetylcysteine for acute acetaminophen overdose. *Acad Emerg Med* 16: 34, 2009. [PMID: 19007345]
78. Schwartz EA, Hayes BD, Sarmiento KF: Development of hepatic failure despite use of intravenous acetylcysteine after a massive ingestion of acetaminophen and diphenhydramine. *Ann Emerg Med* 54: 421, 2009. [PMID: 18986731]
79. Wang GS, Monte A, Bagdure D, Heard K: Hepatic failure despite early acetylcysteine following large acetaminophen-diphenhydramine overdose. *Pediatrics* 127: e1077, 2011. [PMID: 21402629]
80. Chiew AL, Isbister GK, Kirby KA, et al: Massive paracetamol overdose: an observational study of the effect of activated charcoal and increased acetylcysteine dose (ATOM-2). *Clin Toxicol* 55: 1055, 2017. [PMID: 28644687]
81. Marks Daniel JB, Dargan PI, Archer JRH, et al: Outcomes from massive paracetamol overdose: a retrospective observational study. *Br J Clin Pharmacol* 83: 1263, 2016.