

codeine

88-codeine (CAS# 76-57-3)															
Table 1a. Sub-lethal acute poisoning (single dose): Clinical observations (time related)															
Ref No.	Reference (linked to full source)	Case No.	Case age/sex	Case category	Dose: g	Notes (case, dose, time)	Time (exposure to sampling): h	Notes (blood sample)	Blood conc.: mg/l	Blood conc.: µM	Metabolite Blood conc.: mg/l	Metabolite Blood conc.: µM	Symptoms and signs	Treatment	Time (exposure to recovery): h
1	Huffman 1975	1	37M	NR		(a), ET	12	sr, EC	5	16.7			6h:RA, LP; I:C, R, H	6h:AR; I:AR, (b)	E120
		1				ET	48	sr, EC	4	13.4					
		1				ET	60	sr, EC	1.5	5.0					
		1				ET	72	sr, EC	0.25	0.8					
		1				ET	84	sr, EC	0.1	0.3					
2	Cone 1990	2	NR			(c), E	10	pl, p	0.27	0.9					
		2				E	15	pl	0.2	0.7					
3	Gasche 2004	3	62M	U	0.025	(d), ET	96	pl, (e)	0.114	0.38			96h:C	96h:AR, (f)	144
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW codeine = 299.4															
(a) injected himself i.v. approximately 30 mg codeine phosphate dissolved in tap water.															
(b) antibiotic therapy.															
(c) single intramuscular doses (120 mg and 60 mg at approximately 5 h interval) of codeine phosphate to a healthy volunteer.															
(d) life-threatening codeine intoxication in a patient with ultrarapid CYP2D6 metabolism.															
(e) maximal expected plasma level of codeine was in the range 0.013 to 0.075 mg/l.															
(f) intravenous administration of naloxone (0.4 mg) two times.															

codeine

Table 1b. Sub-lethal acute poisoning (single dose): Clinical observations (without time information)															
Ref No.	Reference (linked to full source)	Case No.	Case age/sex	Case category	Dose: g	Notes (case, dose, time)	Time (exposure to sampling): h	Notes (blood sample)	Blood conc.: mg/l	Blood conc.: µM	Metabolite Blood conc.: mg/l	Metabolite Blood conc.: µM	Symptoms and signs	Treatment	Time (exposure to recovery): h
no cases															
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW codeine = 299.4															
Table 2a. Lethal acute poisoning (single dose): Clinical observations (time related)															
Ref No.	Reference (linked to full source)	Case No.	Case age/sex	Case category	Dose: g	Notes (case, dose, time)	Time (exposure to sampling): h	Notes (blood sample)	Blood conc.: mg/l	Blood conc.: µM	Metabolite Blood conc.: mg/l	Metabolite Blood conc.: µM	Symptoms and signs	Treatment	Time (exposure to death): h
no cases															
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW codeine = 299.4															

codeine

Table 2b. Lethal acute poisoning (single dose): Clinical observations (without time information)															
Ref No.	Reference (linked to full source)	Case No.	Case age/sex	Case category	Dose: g	Notes (case, dose, time)	Time (exposure to sampling): h	Notes (blood sample)	Blood conc.: mg/l	Blood conc.: µM	Metabolite mg/l	Metabolite Blood conc.: µM	Symptoms and signs	Treatment	Time (exposure to death): h
1	Wright 1975	1	43F	S	NR	(a)		(b)	5.3	17.7					
		2	44F	U	NR	(a)		(c)	1.6	5.3					
		3	51M	U	NR	(a)		(d)	5.6	18.7					
		4	33M	U	NR	(a)		(e)	1.8	6.0					
		5	47M	U	NR	(f)		(g)	2.1	7.0					
		6	34M	U	NR	(f)		(h)	1.4	4.7					
		7	33M	U	NR	(f)		(i)	3.5	11.7					
		8	44M	U	NR	(f)		(j)	2.5	8.4					
	AAPCC 1995:293	9	22	S	NR			(k)	1.6	5.3					
	AAPCC 1997:321	10	64	NR	NR				6.37	21.3					
	AAPCC 2001:428	11	48	S	NR			(l)	22.8	76.2					
	AAPCC 2003:	12	76	S	NR			(m)	1.2	4.0					6
	Baselt 1995	13	11 cases	NR	NR			(n)	2.8	9.4					
<b>Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms. symptoms and signs. treatment)]</b>															
MW codeine = 299.4															
(a) ingestion of codein.															
(b) salicylate 265 mg/l, phenacetin 136 mg/l, blood ethanol 0.06%.															
(c) salicylate 92 mg/l, diazepam 0.5 mg/l, nordiazepam 2 mg/l.															
(d) phenacetin 4 mg/l, caffeine 2 mg/l, secobarbital 5 mg/l, amobarbital 8 mg/l; urine codeine 88 mg/l, urine morphine 24 mg/l.															
(e) salicylate 185 mg/l, no other drugs.															
(f) accidental drug death of intravenous narcotic (morphine) user.															
(g) morphine found only in urine, 3.5 mg/l, blood ethanol 0.09%.															
(h) morphine in blood 0.2 mg/l, morphine in urine 3 mg/l, blood ethanol 0.05%.															
(i) morphine 0.6 mg/l; no ethanol.															
(j) no morphine; blood ethanol 0.2%.															
(k) also morphine 0.162 mg/l, fluoxetine 0.0017 mg/l, and h															
(l) also butalbital 28 mg/l, and promethazine 0.62 mg/l.															
(m) also morphine 0.109 mg/l, and acetyl salicylic acid (aspirin) 700 mg/l.															
(n) mean value, range 1.0-8.8 mg/l (3.3-29.4 µM).															

Table 3a. Post-mortem observations (time related)															
Ref No.	Reference (linked to full source)	Case No.	Case age/sex	Case category	Dose: g	Notes (case, dose, time)	Time (exposure to sampling): h	Notes (blood sample)	Blood conc.: mg/l	Blood conc.: µM	Metabolite Blood conc.: mg/l	Metabolite Blood conc.: µM	Symptoms and signs	Treatment	Time (exposure to death): h
no cases															
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW codeine = 299.4															
Table 3b. Post-mortem observations (without time information)															
Ref No.	Reference (linked to full source)	Case No.	Case age/sex	Case category	Dose: g	Notes (case, dose, time)	Time (exposure to sampling): h	Notes (blood sample)	Blood conc.: mg/l	Blood conc.: µM	Metabolite Blood conc.: mg/l	Metabolite Blood conc.: µM	Symptoms and signs	Treatment	Time (exposure to death): h
2	Nakamura 1976	1	17 cases	NR	NR	(a)		(b)	0.5	1.7					
		2	13 cases	NR	NR	(a)		(c)	3.0	10.0					
		3	2 cases	NR	NR	(a)		(d)	7.5	25.0					
3	Pearson 1979	4	49F	NR	NR			(e), E	16	53.4					
4	AAPCC 1991:325	5	78	S	NR				3.8	12.7					> 5
5	AAPCC 1992:266	6	35	S	NR	(f)			3.8	12.7					
6	AAPCC 1993:250	7	46	S	NR			(g)	9.5	31.7					
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW codeine = 299.4															
(a) acute deaths involving codeine and morphine (concentrations of morphine in blood were in the range of 0.1-0.9 mg/l); also other drugs were involved, and in some cases ethanol was present in blood.															
(b) range 0.1-0.9 mg/l (0.3-3.0 µM).															
(c) range 1.0-4.9 mg/l (3.3-16.4 µM).															
(d) range 5.0-9.9 mg/l (16.7-33.1 µM).															
(e) no other drugs detected; concentration of codein in blood is reported in this paper as "16 µg/gm".															
(f) also morphine.															
(g) cyclobenzaprine 0.593 mg/l, and acetaminophen 121 mg/l.															