

36-methadone hydrochloride (CAS# 1095-90-5)															
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	Segal 1974	1	Ad	U, Z	0.02	(a), (b)	0		0.1	0.323			NS	NR	NR
		1					1		0.5	1.615					
		1					3	p	0.8	2.585					
		1					5	y	0.3	0.969					
		1					7	y	0.2	0.646					NR
		2	Ad	U, Z	0.02	(a), (b)	0		0.17	0.549			NS	NR	
		2					1		0.17	0.549					
		2					2.5	p	0.35	1.131					
		2					5	y	0.05	0.162					
		2					9		0.05	0.162					NR
2	Rabl 1993	3	AdM	U, A	0.37	(c), ET	4	p, (e)	1.1	3.554			ba: V,C; 0h: MS(g);	NR	
		3				ET	15		0.3	0.969			l: KF		240
3	Hendra 1996	4	22M	U	0.42	(d)	12.3	(f)	0.353	1.140			0h: MS; 0.5h: C(h);	0h: NT;	
		4											9.3h: RM, C	0.5h: ST, NX	36(i)
4	GIZ-Nord 1997:35492	5	24M	NR	NR	ET	2		0.4	1.292			RA	ST, AR	E24
5	GIZ-Nord 1993	6	35M		0.06	(j)	0.5		0.186	0.601			(k)		NR
6	GIZ-Nord 1993	7	25M		0.04	(j)	0.5		0.134	0.433			(k)		NR
7	GIZ-Nord 1993	8	28F		0.04	(j)	0.5		0.16	0.517			(k)		NR
8	GIZ-Nord 1993	9	35M		0.06	(j)	0.5		0.318	1.027			(l)		NR
9	GIZ-Nord 1993	10	40F		0.07	(j)	0.5		0.163	0.527			(m)		NR
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW methadone = 309.5															
NX = naloxone															
(a) addict; no other drugs; known p.o. administration; admitted for methadone detoxification.															
(b) clinical (pharmacokinetic) experiment.															
(c) addict; known intolerance.															
(d) addict with epilepsy, treated with sodium valproate; same case as in table: Post-mortem observations (without time information).															
(e) peak concentration calculated by Rabl.															
(f) also found diazepam 0.8 mg/l and nordiazepam 0.99 mg/l.															
(g) rhabdomyolysis.															
(h) fluctuating consciousness, depending on NX therapy.															
(i) died 8 h later, probably from a new overdose.															
(j) heroin abstinence treatment: therapeutic methadone administration.															
(k) no signs of intoxication or withdrawal.															
(l) miosis; signs of overdose.															
(m) mydriasis; signs of withdrawal.															

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
1	GIZ-NORD 200588	1	19M	U	NR	(a)		(b)	3.8	12.28			C	NX, (c)	
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW methadone = 309.5															
NX = naloxone															
(a) addict.															
(b) also diazepam (0.4 mg/l) and clonazepam (0.1 mg/l).															
(c) also flumazenile.															
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 methadone = 309.5															
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 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 methadone = 309.5															

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
1	Robinson 1971	1	22M	U	NR	(a), (b)		T	0.95	3.07			N R	N R	9
		2	19M	U	NR	(a), (b), (c)		T	2.3	7.43			N R	N R	6
		3	27M	U	0.2	(a), (b)		T	1.6	5.17			N R	N R	16
2	Robinson 1973	4	30M	U	0.08	(d), (e), (f)		T, (g), (k)	1.1	3.55			N R	N R	E8
3	Garriot 1973	5	33M	U	NR	(a), (c)		T, (h)	1.4	4.52			0h: PE,CA	0h: CR	1
4	Segal 1974	6	18M	U	NR	(i), (b), (d)			0.3	0.97			ba(7h): R; 0h: CA; OL: P	NT	8
		7	17M	U	0.28	(i), (b), (d), (e)			0.5	1.62			ba(7h): C,R; 0h: CA;		
		7											OL: PE,P	NT	8
		8	24M	U	0.1	(a), (c)			0.9	2.91			C; OL: PE	NT	0,25
		9	Ad	U	N R	(d)			0.5	1.62			OL: P	N R	3
		10	Ad	U	N R	(d)			0.2	0.65			N R	N R	6
		11	Ad	U	N R	(d)			0.07	0.23			OL: P	N R	12
		12	Ad	U	N R	(c)			0.23	0.74			N R	N R	6
		13	Ad	U	N R	(c)			1.2	3.88			N R	N R	3
5	Manning 1976	14	19F	U	NR	(a), (d)		T	0.08	0.26			C; OL: none	N R	0,5
6	Drummer 1992	15	28M	U	0.058	(a), (b), (d), (e), (j)		T	0.43	1.4			fd; OL: PE	N R	E5
		16	30F	U	0.06	(a), (b), (d)		T	0.43	1.4			fd;OL:P	N R	E5
		17	21F	U	0.06	(a), (b), (d)		T, (l)	2.51	8.1			fd; OL: PE	N R	E5
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW methadone = 309.5															
(a) addict.															
(b) no other drugs.															
(c) known i.v. administration.															
(d) known p.o. administration.															
(e) acute on previous 24 h administration.															
(f) two 0.04 g oral doses in the interval of 2 h, some 6 to 10 h before he died.															
(g) intermediate-acting barbiturate, calculated as amylobarbitone, present at less than 1 mg/l.															
(h) also 2 mg/l secobarbital in post-mortem blood.															
(i) known non-addict.															
(j) known intolerance.															
(k) nonlethal amounts of methaqualone were found in the body tissues.															
(l) alcohol 8.7 mmol/l.															

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
1	Robinson 1973	1	21F	U, Z	NR	(a)		T	1.0	3.23			fd		
2	Norheim 1973	2	21M	U, A	NR	(a), (b), (c)		T	0.43	1.39			fd; OL: PE		
		3	22	U	NR	(a), (c)		T	0.51	1.65			fd; OL: P		
		4	23	U	NR	(a), (c)		T	1.0	3.23			fd; OL: PE		
3	Chabalko 1973	5	23M	U	NR			T, (d)	0.5	1.62			OL: PE		
		6	19M	U	NR			T, (d)	1.0	3.23			OL: PE		
		7	23M	U	NR			T	0.5	1.62			OL: PE		
		8	20M	U	NR			T, (d)	1.0	3.23			OL: PE, AP		
		9	24F	U	NR			T	0.5	1.62			OL: PE, AP		
		10	30M	U	NR			T	0.3	0.97			OL: PE		
		11	32M	U	NR				0.5	1.62			OL: PE		
		12	29M	U	NR			T, (e)	0.5	1.62			OL: PE		
4	Irey 1974	13	17 cases	NR	NR			T, (f)	0.8	2.58			NR		
5	Nelson 1975	14	22M	U	0.04	(a), (c), (g), (h)		T	0.06	0.19			15 min:C		
6	Manning 1976	15	22M	U	NR	(a), (h), (i)		T	0.11	0.36			fd		
		16	20M	U	NR	(a), (c), (g), (h)		T	0.06	0.19			C		
		17	24M	U	NR	(a), (i)		T	0.09	0.29			C		
		18	24M	U	NR	(a), (c), (h)		T	0.12	0.39			C		
7	Klug 1977	19	23F	U	0.1	(a), (c), ED		T	2.6	8.40			C		<5h
8	Caplan 1983	20	18 cases	NR	NR	(h)		(j)	0.52	1.68			NR		
9	Paterson 1985	21	3 cases	NR	NR	(h), (i)			1.1	3.55			NR		
		22	3 cases	NR	NR	(c), (h)			1.9	6.14			NR		
10	Bacci 1985	23	22M	U	NR	(a), (b)			0.9	2.91			fd; OL: PE, L		
11	Drummer 1992	24	32F	U	0.06	(a), (b), (h), (i)			0.99	3.2			OL: H		
		25	36M	U	0.045	(a), (b), (h), (i)			0.28	0.99			OL: H		
		26	31M	U	0.06	(a), (b), (i)			0.34	1.1			OL: P,H		
12	Worm 1993	27	59 cases	NR	NR	(a)		(k)	0.43	1.4			NR		
13	Rabl 1993	28	AdF	U, A	0.37	(a), (b), (h), (i)			1.1	3.55			fd; OL: P(o)	NT	
14	Levine 1995	29	4 cases	NR	NR			(l)	0.76	2.46			NR		
15	Clark 1995	30	17 cases	NR	NR	(m)		(l)	0.58	1.87			NR		
16	Hendra 1996	31	22M	U	NR	(a), (g), (p)		(n)	0.82	2.66			fd		
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW methadone = 309.5															
(a) addict.															
(b) known intolerance.															
(c) known i.v. administration.															
(d) also ethanol below 800 mg/l.															
(e) ethanol 3.2 g/l.															
(f) mean lethal level.															
(g) acute on previous 24 h administration.															
(h) no other drugs.															
(i) known p.o. administration.															
(j) range 0.07-1.4 mg/l (43 non-drug deaths had an average of 0.47 mg/l methadone).															
(k) average methadone level in living addicts: 0.14 mg/l.															
(l) mean lethal level.															
(m) age from 17 to 45 years, including both starters and long term addicts; also presence of other drugs in less significant amounts.															
(n) diazepam 0.1 mg/l, nordiazepam 0.17 mg/l.															
(o) aspiration pneumonia after vomiting.															
(p) same case as in table: Sub-lethal acute poisoning (single dose): Clinical observations (time related).															