

strychnine

80-strychnine (CAS# 57-24-9)															
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	BGPC: HP 20199	1	28	NR	NR		48		0.165	0.49			0h: MS; I: SZ, CY, HCF, LF, KF		
2	Edmunds 1986	2	42M	SA, X	NR	(a)	4	sr	1.6	4.78			0h: MS, F; 5 min: 10min: CA, C;	0h: ST	
		2					8	sr	0.8	2.39			48h:(d); 72h: RM,C	5min: AR, 4d	
		2				(b)	14	sr	0.5	1.49			K; 4d: P, LS, B	10min: CR	
		2					22	sr	0.3	0.90			72h:PD/HD 5d	8d: AR 10d	
		2					37	sr	0.2	0.60					
		2					48	sr	0.08	0.24					
		2					53	sr	0.06	0.18					1008
3	Sgaragli 1973	3	21M	SA	0.7	(c)	1.3	wb	0.5	1.49			0h: MS, SZ, RA	0h: ST, AR (e)	
		3					6	wb	0.5	1.49			I: PN	I: AC	
		3					10	wb	0.5	1.49					384
4	Hernandez 1998	4	18F	SA, X	NR		6	sr	2.17	6.49			5h: SZ, MA, N	5h: ST, AR, AC	480
		4											10d: PA, R		
<b>Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]</b>															
MW strychnine = 334.4															
(a) a detection limit for a gas chromatographic assay for serum strychnine was 0.05 mg/l.															
(b) altogether 20 samples at various times: T1/2 = 10h (4- 53h).															
(c) strychnine nitrate.															
(d) rhabdomyolysis.															
(e) general anesthesia (thiopental/aprobarbital/succinylcholine) 3 days.															

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 strychnine = 334.4															
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
1	Heiser 1992	1	51M	SA	4.8		0.5	sr	3.8	0.39			0h: MS; 5 min: SZ, C, MA	5 min: ST, AR	
		1					8	sr	3.6	0.39			HA, LP, E (a)		
		1					22	sr	1.2	3.59			I: B; OL: B, P		
		1					35	sr	0.2	0.60					
		1					43	sr	0.1	0.30					192
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW strychnine = 334.4															
(a) hypocalcemia.															

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
1	Gordon 1979	1	27M	UA	NR	(a)	2	wb	2.7	8.07			0h: SZ, MA; l: (b), KF, LF, R	0h: ST, AC, AR	144
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW strychnine = 334.4															
(a) plus morphine.															
(b) rhabdomyolysis.															
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	AAPCC 1990:64	1	30F	A	NR	(a)			0.17	0.51			0h: ACF, SZ, CA, A, 120h: HCF, CA	0h: ST, AR l: CR	120
2	Lloyd 1953	2	56M	SA				wb	40	119.58			OL: none; (f), T		0.25
3	Drost 1979	3	20M	UA	NR	(b)		wb	2.4	7.17			T		1.5
		4	42F	SA	NR	(c)		wb	12.3	36.77			SC, (g), T		ET1
4	Decker 1982	5	20F	UA	NR	(d)		wb	11	32.88			OL: none		0.083
5	Perper 1985	6	56M	SA	0.27	(e)		wb	3.3	9.87			G, SZ, RA, HCF	NT	ET3
6	Winek 1986	7	56M	SA	0.26			wb	3,3	9.87			OL: N, SZ, RA	CR	
		7						pl	2.6	7.77					1
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW strychnine = 334.4															
(a) homicide.															
(b) plus alcohol, post-mortem blood concentration 700 mg/l.															
(c) plus small amount of salicylates.															
(d) iv-injection of strychnine, believed to be mescaline.															
(e) strychnine sulfate, no other drugs detected.															
(f) no seizures.															
(g) signs of convulsions.															

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	AAPCC 1990: 67	1	29	SA	NR	(a)			3.8	11.36					
2	Rehling 1967	2	AdM		NR			wb	17	50.82					
		3	AdM		NR			wb	11	32.88					
		4	M		NR			wb	28	83.71			T		
3	Baselt 1977	5	6 adults		NR				26	77.73					<1
4	Oliver 1979	6	46F	SA	NR			wb	0.6	1.79			fd; OL, P, K, T	NT	
		7	NR		NR			wb	61	182.36					
		8	NR		NR			wb	50	149.48			T		
		9	NR		NR			wb	16	47.83			T		
5	Drost 1979	10	28M	SA	NR			wb	9	26.91			SC, T		
		11	61M	IA	NR	(b)		wb	9	26.91			T		
		12	47F	NR	NR	(c)		wb	1.9	5.68			fd; (e), T		
		13	50M	SA	NR			wb	16	47.83			fd; T		
		14	23M	SA	NR			wb	19	56.80			fd; T		
6	Shepens 1984	15	NR	NR	NR				2	5.98					
7	Baselt 1995	16	14 cases		NR	(d)			21	62.78			T		
8	Lindsey 2004	17	52M	S	NR	(f)		femoral blood	0.31	0.93			fd; P, OL		
		17						heart blood	0.96	2.87					
9	Duverneuil 2004	18	40M	S	NR			pl	25	74.76			fd		
<b>Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]</b>															
MW strychnine = 334.4															
(a) strychnine sulfate + ethanol 67 mg/dl.															
(b) post-mortem blood ethanol concentration 600 mg/ml.															
(c) small amount of diazepam and salicylates.															
(d) incl. Rehling's cases.															
(e) found lying peacefully in bed.															
(f) a history of depression and a prescription for amitriptyline; severe atherosclerotic cardiovascular disease.															