

59-potassium cyanide (CAS# 151-50-8)															
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	SPC 1975:5	1	54M	S, A	3	(a), (b), ET	1	pl	0.3	11.5			0h: C, RA, CF;	0h: ST, AR, CR, TS	
		1				ET	49		0.2	7.7			6h: RM		7
2	Graham 1977	2	21M	S, A	0.6	(a)	13	wb	2	76.9			ba: V;	0h: ST	
		2					23	wb	1.6	61.6			0h: C, R, MA, PE, HA,	l: AR, AB, NA	
		2					85	wb	1.2	46.2			PN; 3h: MA; 34h: RM		120/(168), (j)
3	Edwards 1978	3	48M	S, A	0.413	(a)	1	wb	3.8	146.2			0h: DC, LP, CA,	0h: ST, CR, AR,	
		3											MA; 3-8h:RM	AB, NA	24/(168), (j)
4	Vogel 1981	4	31M	S, A	NR	(a), (b), (c)	6,5	wb, (d)	2.3	88.6			0h: C, MA	0h: ST	
		4											3h: RM	l: AR, FD	24
5	Feihl 1982	5	60M	S, A	0.6	(a)	2	wb	40	1540			0h: DC, MA	0h: ST, AR, AB,	
		5												SN, TS, (h)	16
6	Peters 1982	6	31M	S, A	0.4	(a)	10.5	wb	0.26	10			NR	0h: ST, AN, SN, TS	
		6					14.5	wb	0.19	7.31					
		6					26.5	wb	0.97	37.3					72
7	Litovitz 1983	7	23F	S, A	NR	(a), (k)	0,5	wb	6.1	235			0h: SZ, C, V, MA;	0h: AN, SN, TS,	
		7											2h: RM	AB, ST, AR	
8	Wesson 1985	8	59M	S, A	NR	X, (b)	1	pl, (e)	0.4	15.4			0h: C, MA;	0h: ST; 0.5h: AR	
		8					2,5	wb	2.1	80.9			0.5h: MA, E, PE	2.5h: HD 5h,	
		8					3,5	wb	0.2	7.7			8h: RM	SN, TS	
		8					8	wb	0.1	3.9					22/(240), (j)
9	Hall 1987	9	34M	S, A	1	(a)	1	wb, p	5.5	211.5			0h: C, RA, MA, SZ	0h: ST, AR, AB	
		9					2	wb	15.7	603			3h: RM	15 min: SN, TS	
		9					3	wb	1.7	65.4					
		9					5	wb	0.82	31.5					
		9					17	wb	0.53	20.4					12/(24), (j)
10	Bismuth 1987	10	55M	U, A	DA	X, (f)	2	wb	5.71	219.6			ba: 25 min: C; 0h: MS	0h: AB, HC, TS	
		10					3	wb, y	0.93	35.8			0.5h: MA; 2h: RM		
		10					9	wb	0.5	19.3					
11	Krieg 1987	11	23M	U, A	NR	(g)	7	pl	0				ba: C after 5 min,	ba: ST, AR, AB	
		11											MA; 0h: P, MA	l: AN, SN, TS	
		11											l: LP; 8h: RM	6h: HP 4h	14/(96), (j)
12	Saincher 1992	12	23M	S, A	NR	(a)	3	wb	4.65	179			0h: C, MA; l: AP, (i)	0h: ST, AB, NA	192

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Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW cyanide = 26															
Antidotes: AN=amyl nitrite, SN=sodium nitrite, TS=sodium thiosulfate, HC=hydroxycobalamine															
(a) KCN.															
(b) plus alcohol.															
(c) alcoholic.															
(d) alcohol blood level 2.9 mg/l at arrival to the hospital.															
(e) serum ethanol 2.4 g/l.															
(f) plus inhalation of propionitrile.															
(g) metal cleaning solution containing 6.2 g/l cyanide.															
(h) excessive methemoglobinemia.															
(i) rhabdomyolysis.															
(j) time to remission/(time at hospital).															
(k) the same patient as in table: Lethal acute poisoning (single dose): Clinical observations (time related).															
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 cyanide = 26															

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	SPC 1969:3	1	41M	S, A	NR	(a)	0,75	pl	4.7	180.77			0h: MS; 15 min: C,LP, R; 2.5h: B	0h: ST 15 min: AR, AB 2.5h: TS, DE	56
2	SPC 1991:1	2	28M	S, A	NR	(a)	1	wb	2.99	115			0h: DC(d), MA 12h: B	0h: ST, AR 6h: TS	120
3	AAPCC 1989:33	3	30	S, A	NR	(a)	1	wb	10.8	416			ba: CA/RA	NR	
4	AAPCC 1990:51	4	40	S, A	NR	(b), (c)	48	wb	0.45	17.3			ba: CA/RA	NR	
5	AAPCC 1992:45	5	30	S, A	NR	(a)	7	wb	0.5	19.3			ba: CA/RA	NR	
6	Bogusz 1976	6	Ad,M	S, A	NR	(a)	0,5	wb	13	501			ba: C after 5 min 0h: DC	0h: ST, DE, TS	4
7	Litovitz 1983	7	23F	S, A	NR	(a), (d)	0,67	wb	6.83	263			ba: SZ, C; 0h: DC, LP, MA	ba: AR; 0h: AN, SN, TS, ST, CR	
		7					6	wb	0.12	4.62			75 min: some RM l: MA, C, SZ, K, B, IH; 4d: LP, MA	4h: (h)	96
8	Murray 1987	8	34M	S, A	NR	(e)	20	wb	7	270			NR	DE	
9	Hall 1987	9	19F	U, A	NR	(a)	1	wb, (f)	8.2	316			0h: C, LP, MA	0h: ST, AR, AB, NA	
		9					2,75	wb, (f)	15.1	581					
		9					3	wb, (f)	19.7	758					48
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW cyanide = 26															
Antidotes: AN=amyl nitrite, SN=sodium nitrite, TS=sodium thiosulfate, DE=dicobalt-EDTA (Co-EDTA).															
(a) KCN.															
(b) NaCN.															
(c) ingestion/inhalation.															
(d) the same patient as in table: Sub-lethal acute poisoning (single dose): Clinical observations (time related).															
(e) cyanide salt.															
(f) patient involved in the 1982 Chicago cyanide tampering incident, when seven persons were fatally poisoned with KCN-laced Extra Strength Tylenol.															
Some confusion about the time for some samples - slow release may explain the late peak. One, single, 9 h, 23.4 mg/l value has been excluded.															

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	AAPCC 1985:17	1	29M	S, A	NR	(a)		wb	6.98	268			ba: CA/RA	0h: ST, AR, CR, TS, AB	36
2	AAPCC 1986:24	2	25	S, A	NR	(b)		wb	2.5	96					
3	AAPCC 1988:28	3	18	S, A	NR	(b)		wb	4.7	181			ba: CA/RA		
4	AAPCC 1988:29	4	33	S, A	NR	(b)		wb	11.8	454			ba: CA/RA		
5	AAPCC 1990:49	5	34	S, A	NR	(b)		wb	1.1	42					
6	AAPCC 1992:43	6	19	S, A	NR	(b)		wb	2.2	85			ba: CA/RA	AR	
7	AAPCC 1992:44	7	27	S, A	NR	(b)		wb	8.1	312					
8	AAPCC 1993:40	8	31	S, A	NR	(b)		wb	13.9	535			ba: CA/RA	AR	
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW cyanide = 26															
Antidote: TS=sodium thiosulfate.															
(a) KCN.															
(b) cyanide (CN).															
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	SPC 1969:3	1	41M	S, A	NR	(a), (b)			0.1	3.85			0h: MS	0h: ST	
		1											15 min: C, LP, R	15 min: AR, AB	
		1											2.5h: B	2.5h: TS, DE	56
2	AAPCC 1991:45	2	33M	S, A	NR			(e)	82	3153			ba: CA, RA	ba: CR, AR, AN, SN, TS	E1
		2													
3	AAPCC 1991:53	3	36M	S, A	NR	(c), (d)			53.2	2048			ba: CA/RA, V within 5 min	ba: CR, AR, AN, SN, TS	0.83
		3													
4	Bogusz 1976	4	Ad,M	S, A	NR	(a), (b)			0	0			ba: C after 5 min	0h: ST, DE, TS	
		4											0h: DC		4
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW cyanide = 26															
Antidotes: AN=amyl nitrite, SN=sodium nitrite, TS=sodium thiosulfate, DE=dicobalt-EDTA (Co-EDTA).															
(a) the same case as in table: Lethal acute poisoning (single dose): Clinical observations (time related).															
(b) KCN.															
(c) NaCN.															
(d) plus alcohol.															
(e) blood ethanol 1.6 g/l.															

potassium cyanide

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 1987:25	1	20	S, A	NR	(a)			9	346			ba: CA, RA		
2	AAPCC 1989:35	2	35	S, A	NR	(b)			26.5	1019			ba: CA, RA		
3	AAPCC 1989:38	3	48	S, A	NR	(b)			16	615					
4	AAPCC 1990:48	4	28	S, A	NR	(b)			12	462			ba: RA within 5 min 0h: C, MA	0h: ST, AR, AN, SN,TS, AB	
5	AAPCC 1991:44	5	24	A	NR	(b)			1.06	40,8					
6	AAPCC 1993:41	6	41	S, A	NR	(a)			2.85	110			ba: CA, RA		
7	AAPCC 1993:42	7	52	S, A	NR	(b)			38.6	1485			ba: CA, RA		
8	Halmstrøm 1945	8	8 cases			(c)		T, (e)	17.6	678					
9	Curry 1963	9	7 cases			(c)		T, (e)	16	616					
10	Bonnichsen 1966	10	1 case			(c)		T	32	1232					
11	Klendshoj 1966	11	32 cases			(c)		T, (e)	21	809					
12	Rehling 1967	12	32 cases						37	1425					
13	Finck 1962	13	2 cases			(c)		T, (e)	7.75	298					
14	Ballantyne 1974	14	34 cases			(c)		T, (e)	12.4	477					
15	Vogel 1981	15	57F	S, A	NR	(d)			2.18	83.9					
16	Hall 1987	16	7 cases					T, (e)	49.2	1894					
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW cyanide = 26															
Antidotes: AN=amyl nitrite, SN=sodium nitrite, TS=sodium thiosulfate.															
(a) NaCN.															
(b) cyanide (CN).															
(c) ingestion of cyanide.															
(d) manic depressive illness, on medication; heart disease, on medication; also administered Laetrile (treatment of breast carcinoma).															
(e) mean value.															