

52-iron II sulfate (CAS# 7720-78-7)															
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 1979:8	1	26F		25	E	3		55.2	990			0h: V, MS, LP, G	0h: ST, DF	192
2	SPC 1982:4	2	22F		NR		3		8.2	147			0h: V, MA; I: K, G	0h: ST; I: HD (a)	72
3	SPC 1988:4	3	27F		70	E	5		7.5	135			0h: V, G, MS	0h: DF	96
		3				E	16		3.2	57			I: LP, L		
		3				E	25		2.9	52					
		3				E	101		1.3	23					
4	Dugdale 1964	4	20F	S	4.6	(b)	2		4.6	82			0h: V, LP; 0.5h: MS, LP, G	0h: ST; 0.5h: DTPA	NR
		4					8		1.1	20					
5	Eriksson 1974	5	26F		11	(c)	3		6.4	115			0h: MS	1h: ST, DF	144
		5					10	p	14.0	251			1h: V, G	2h: FD	
		5					14		6.0	108			2h: LP, K		
		5					18	y	4.5	81			24h: F		
		5					30		4.5	81			48h: L, HL		
		5					42		3.5	63					
		5					54		1.0	18					
6	Wallack 1974	6	24F	S	0.75	E	6		4.6	83			0h: V, MS, G, H	0h: ST, AB	144
		6				E	30		3.9	70			6h: F, L, MA	6h: DF	
		6				E	54		3.2	57					
7	Peck 1982-83	7	19F		11		8	(d)	9.2	165			ba: V, G; 6h: MS, MA; I: F	0h: ST	120
		7					18		2.5	45			14h: DF		
8	Rayburn 1983	8	24F		NR		1		13.8	247			0h: V, G	0h: ST; 2h: DF	168
		8					7		6.7	120					
		8					13		3.4	61					
		8					23		1.0	17					
9	Proudfoot 1986	9	20F		2,4		6		13.4	240			0h: MS, V, G	0h: ST, DF	96
		9					11	y	4.8	85					
		9					26		3.6	65					
		9					40		1.1	20					
		10	32M		6		1		8.8	158			0h: MS, G	0h: ST	25
		10					3		7.3	130			3h: DF		
		10					5	y	4.2	75					
		10					13		4.2	75					
		10					24		3.4	60					
10	Tenenbein 1988	11	28F		6,6	(e)	100		2.3	41			0h: V, MS, G	0h: NT; 24h: AR	112
		11											24h: C, SZ, LP; 26h: DC, LF	100h: DF	
11	Tenenbein 1990	12	27M		NR	(f), (g)	5		7.8	140			0h: MS, V; 3.5h: G	0h: DF	192
		12											I: G, CP, L		
		12											7d: G; 23d: SS (h)		
12	McElhatton 1991	13	F		1,6		5,5	(i)	6.8	122			0h: MS	0h: ST, DF	NR
		14	F		4,5		4	(i)	6.7	120			0h: V, G	0h: ST, DF	NR
		15	F		3		4	(i)	5.6	100			0h: G	0h: DF	NR
		15					18	(i)	2.6	46					

iron (II) sulfate

Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW iron II sulfate = 151.9															
MW iron = 55.8															
DTPA = diethyltriamine pentaacetic acid (iron chelator)															
DF = desferrioxamine (iron chelator)															
(a) plasmaphoresis.															
(b) also 1.5 g sodium amytal and 6 g aspirin.															
(c) 180 mg Fe/kg.															
(d) ethanol (2250 mg/l).															
(e) plus some ethanol.															
(f) enteric-coated ferrous sulfate tablets.															
(g) also 9 erythromycin tablets.															
(h) ileum stricture successfully operated.															
(i) values uncertain, since their time-relation to DF treatment was not reported.															
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 iron II sulfate = 151.9															
MW iron = 55.8															

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 1977:10	1	15F		15	(a)	50		3.6	64			0h: V, MS, K 1h: KF, CP, LF; 4h: MA 11h: C, SZ, LP	0h: ST; 1h: DF	168
2	AAPCC 1991:638	2	21F	S	4	(b)	2.5 18 30		24.0 7.0 0.6	430 125 10			0h: NS; 6h: CP, G 4d: F; 6d: P, SZ, C, R 13d: F, R	0h: ST; 1h: DF 4d; 6d: AR	576
3	AAPCC 1993:506	3	15	S	NR	(c)	9		19.2	345					
4	Cernelc 1968	4	23F	S	10	(d)	32		4.8	86			0h: LP, G, R, K, MA	0h: ST, NA;	34
5	Lavender 1970	5	20F	S	2		24 32.5 45		6.4 9.5 14.0	115 170 251			0h: MS, L, LP, KF, MA, CP	0h: ST, T, AB; 1h: PD, DF	48
6	Manoguerra 1976	6	17F	S	5,9		30		2.7	49			0h: NS, V; 4h: G 12h: K, LP, HG, MA, CP; 30h: L 74h: C, SZ, F, R, PE, HCF	0h: ST, NA; 12h: AB; 30h: ETR; 74h: AR	80
7	Strom 1976	7	17F	S	28.5		1		17.0	304			0h: NS, V; 1h: MA, KF, LP, CP, G, HG, HF; 72h: C, PE, F	0h: ST, NA; 1h: AB, FD	72
8	Henriksson 1979	8	15F	S	10	(e)	72		3.6	64			0h: MA, K, L, CP; 1h: KF, LF	0h: ST, DF, HD, HP;	168
9	Doolin 1980	9	18M	A, U	NR	(f)	107		4040	72316			0h: MA, PN, R; 24h: R, RA, L 72h: MA, CP, KF	0h: ST; 24h: AR; 96h: DF	132
10	Eliassen 1981	10	29F		8		14 22 60 80	(g) y	7.3 2.8 2.8 2.2	130 50 50 40			0h: G; 2h: CF, SZ, CP, MA, HL, HG, KF; 10h: L, R, H; 80h: B; 120h: CF	0h: ST; 14h: HD; 20h: ETR; 34h: ETR; 55h: ETR; 75h: ETR	120
11	Tenenbein 1988	11	16F		3		48		3.1	55			0h: V, G; 24h: MS, LP; 36h: CF, KF, MA, L, CP; 48h: CA; 50h: HA, CF	0h: NT, NA; 24h: ST, T; 36h: AB; 48h: CR, AR, AA	50
12	Tenenbein 1990	12	35F		NR	E, (h)	2 6		5.2 29.7	95 540			0h: MS, V; 1h: G, F, CF, PE	0h: ST, DF	60
13	Michelson 1992	13	21F		3.9	(i)	2 100		23.9 0.02	433 0.36			0h: V, MA, G; 100h: C, LP, F; 22d: LF, KF, HCF, R	0h: ST, DF, AB; 100h: AR	528
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
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DTPA = diethyltriamine pentaacetic acid (iron chelator)															
DF = desferrioxamine (iron chelator)															
(a) also 5 g acetylsalicylic acid.															
(b) also ibuprofen, piperazine, and < 30 ml iodine.															
(c) also 67 mg/l acetaminophen, 9h.															
(d) 166 mg/kg iron.															
(e) plus 5 g acetylsalicylic acid.															
(f) fell into a vat of ferrous chloride.															
(g) free and transferrin bound iron (not chelated iron). Much larger part chelated.															
(h) enteric-coated ferrus sulfate tablets.															
(i) also ibuprofen and peroxide.															

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 1988:431	1	36	S	NR				3.5	63					NR
2	AAPCC 1991:636	2	F19	S	NR	(a)	0		42.9	768			0h: C, LP, PE; 2h: CP, MA 12h: K; 2d: R; 3d: LP, R, KF, CA	0h: ST; 2h: DF iv, AR, HD 2d: HD	72
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW iron II sulfate = 151.9															
MW iron = 55.8															
DF = desferrioxamine (iron chelator)															
(a) also diphenhydramine, acetaminophen, and hydrocodone.															
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 iron II sulfate = 151.9															
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no cases															
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW iron II sulfate = 151.9															
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