69-isoniazid (CAS# 54-85-3)

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	Fau 1961	1	20F	S, A			3	sr	90	656			MS,SZ,V l:SZ	ST l:PX	NR
2	Vidal 1964	2	24F	S, Z			9	E	35	255			0.5h:MS,SZ l:N,C	1h:ST,PX	NR
3	Sitprija 1964	3	37M	S	20	ET	4	(a)	143	1043			ba: C, 0h: SZ, 2h: R, F,	0h: ST, PX, AC,	
		3					8	(b)	17	124			SZ, CY, AP, MA	2h: AR	
		3				ET	24		0.3	2			24h: N	2h: HD(4h)	96
4	Terman 1970	4	35M	S, Z	NR	ET, (c), (d)	2	sr, (a)	710	5179			ba: SZ,	0h: AC, PX, AR,	
		4					26	sr	270	1969			0h: SZ, C, CY,P, R,	ED,	
		4					38	sr	30	219			MA	12h: AR, PD, FD	
		4					50	sr	20	146				RM : 60	62
5	Glogner 1971	5	18F	S, A		X	2	sr	32	233			0h: NS	0h: ST	
		5					19	sr	10	73			0,5h: SZ, C	0,5h: AR, AC	
		5					33	sr	9	66			SS, N	16,5h: PD (8h)	
		5					53	sr	3	22					192
6	Brown 1972	6	20M	S			1.5	sr, (a)	59	430			0h: NS; l: SZ, DC	0,5h: PX; 1,5h:	
		6					36	sr, (b)	0.07	1			2d: RM, LS: PS	(p); 7,5h: PX	48
		7	26F		12.5	ED	2.5	sr	93	681			0h: C, SZ, CY, R, MA	0h: PX, ST, FD	E 3 (6d), (o)
		8	18F		20	ET, (e)	2	sr	47	342			MA, NR	ST, FD, PX	NR
		9	38F		30	ET, (e)	6	sr	36	261			NR	PX, PD, AC, FD	NR
		10	19F		9	ET	24	sr	20	146			0h: DC, SZ, MA; 2d: N	0h: PX, ST, FD	
		10											108h: RM, SS, N		E 108
7	Kallner 1972	11	19F	S, Z	15	(f)	5.25	sr	210	1532			0h: C, SZ, CY, F	0h: AC, ST,	
		11											3.5h: MA	3h: FD, AR, PX	
		11												l: L, H	E120
8	Wattel 1975	12	M	S	15		3.5	sr, (a)	1160	8461			0h: MA, SZ,	0h: ST, AC, PX	
		12					12	sr, (g)	28	206			MS; 20h: RM	3,5: PD(14h)	21.5
9	Wason 1981	13	25M			(h)	2.5	sr	128	934			SZ*5, MA, C	AC, PX, ST	
		13					10.5	sr	20	146					E7
		14	17F			(i)	1	sr	26	190			SZ*1	PX	
		14					2.5	sr	25	182					
		14					5.5	sr	8	58					E6

10	Yarbrough 1983	15	18F	S, Z	NR		9	sr	9.3	68			0h. G, MS	0h: ST	
		15											0.5h: SZ, PS,	0.5h: AC, PX, FD	
		15											MA; l: ED		(5 d), (o)
		16	17M	S	15	ED	1.5	sr, (j)	0.5	4			ba -0.5h: SZ	0h: ST, PX	
		16											0h: MS, SZ, ED,		
		16											MA; 0.5h: V		24
		17	23M		4.5	(k)	2	sr	24	175			0h: MA, SZ,	ST, PX,	
		17											MS	3h: ST, FD	24
11	Siefkin 1987	18	16F	S, A	5	ED, (l)	2	sr	48	350			ba: PS, SZ	0h: AC	
		18					7	sr	13	95			0h: SZ, AP	0.5h: AR, ST,	
		18					9	sr	5	36			MA	PX	
		18					13	sr	2.3	17			0.5h: MA,SZ		
		18					18	sr	0.7	5			E119h: RM		E120
		19	18F	S, Z	5	ED, (l)	3	sr, (a)	105	766			ba: SZ	0h: AR, AC, PX	
		19					6	sr, (a)	65	474			0h: SZ, C	15h: HD(5h)	
		19					18	sr, (g)	2.6	19			E0.5h: HA, MA		
		19					19	sr, (g)	1.9	14			167h: RM		
		19					35	sr, (b)	1.2	9					
		19					62	sr, (b)	0.9	7					168
12	Gilhotra 1987	20	22M	S, Z	9	(m)	16	sr	15	111			ba: V, C, K	0h: ST, PX, FD	
		20					40	sr	5.2	38			0h: H, R, F, LP, DC, L		
		20					64	sr	0	0			K, MA		(7d), (o)
		21	30F	S, Z	12	(m)	2	sr	49	360			ba-0.5h: SZ, V	0h: AC, PX	
		21					26	sr	13	92			0h: DC, R, F, ED, L		168(2w), (o)
		21					50	sr	0	0					
13	Dixon 1988	22	19M	S, Z	NR	ET	2	E, sr	66	481			0h:SZ, C,MA	0h: ST, AR, AC,	
		22					20	E, sr	0.7	5			CP; 1d: RM; l: AP, L	PX, T	E 24
14	Cash 1991	23	16M	S, Z	10.5	ED, ET	2	E, (a)	37	270			0 h: SZ, C	0h: PX, AC, ST,	
		23					8.5	E, (g)	6	44			12h: RM	E2h: HD(6,5h)	13
15	Gurnani 1992	24	22M	S	5	ED, ET	2	pl	185	1346			ba: SZ, C	0h: AR, AC, ST,	
		24					24	pl	62	455			0h: SZ, R, MA	PX	
		24					48	pl	17	120			72h: RM		
		24					72	pl	9.6	70			3d: L, N		
		24					96	pl, (n)	4.2	31			6d: RM		
		24					120	pl	3.5	26					
		24					144	pl	0.8	6					144(2w), (o)

Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms. symptoms and signs. treatment)]
MW isoniazid = 137.1
PX = pyridoxine
(a) before dialysis.
(b) after dialysis.
(c) active tuberculosis.
(d) also several glasses of beer during the day.
(e) estimated time between ingestion and treatment.
(f) slow inactivator of isoniazid.
(g) during dialysis.
(h) 222 mg/kg.
(i) 100 mg/kg.
(j) below therapeutic value.
(k) also unknown amount of ethanol and 30 mg diazepam.
(l) ingestion over one hour, 100 mg/kg (between 4-6 g).
(m) pulmonary tuberculosis.
(n) the therapeutic range of isoniazid in plasma is 1-7 mg/l.
(o) in parenthesis: time in hospital.

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	Brown 1972	1	19F					sr	81	591				PX, FD	NR
2	Kingston 1980	2	60F		NR	(a)		E, sr, (b)	7.5	55					
3	Konigshausen 1979	3	19M	S, A	50			sr, (c)	24	175				HD	
		4	24F		NR			sr, (c)	22.4	163				PX, HP	120
4	Nolan 1988	5	23F					sr	125	912					NR
		6	22F					sr	4.9	36					NR

Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms. symptoms and signs. treatment)]

MW isoniazid = 137.1

PX = pyridoxine

(a) plus alcohol.

(b) reported level of isoniazid in serum (110 mEq/l) recalculated to 7.5 mg/l.

(c) before dialysis.

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	Brown 1972	1	15F		NR	ET, (a)	0,5	sr, (b)	72	525			OL: N	(d)	
		2	25F		NR	ET, (a)	2,5	sr, (b)	72	525				(d)	
2	Miller 1980	3	16F		NR	ET	2	sr, (c)	127	926			0h: R, C, MA	6h: CR	
		3											SZ; 1h: HCF; 6h: CA;		
		3											7h: CA		E 9

Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms. symptoms and signs. treatment)]

MW isoniazid = 137.1

(a) estimated time between ingestion and treatment.

(b) not specificly noted if value was obtained before or after death.

(c) the therapeutic range of isoniazid in plasma is 1-7 mg/l.

(d) no major treatment.

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 1991: 525	1	21F						52	379					672
2	AAPCC 1993: 414	2	28	A, Z					14	102			ba: CA		NR
3	AAPCC 1993: 415	3	35	A			>20		56	408			ba: CA		NR
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms. symptoms and signs. treatment)]															
MW isoniazid = 137.1															

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	Kelso 1965	1	15F	S, A		(c)	15	sr	0.8	5.8			ba: V, SZ; 0h: CY, HCF,	0h: ST, AC, PX,	
		1											F, P, ED; 12h: C, H,	36h: PD (16h)	
		1											24h: K; 44h: LP	60h: PD	
		1											60h: HC		
		1											OL: P, K, L,(b)		71
2	Krüger-Thiemer 1958	2	22M	U, NR		(d), (e)	NR	wb	64	467			V,SC,C;R	ST, (g)	5
		3	NR			(d)	NR	pl	83	605			V,SC,C;R	ST, (g)	E13
		4	NR			(d)	NR	wb	600	4376			V,SC,C;R	ST, (g)	16
		5	NR			(d)	NR	wb	64	467			SZ,C,R	NT, (g)	E2
		6	NR			(d)	NR	wb	200	1459			V,SZ,C,R	NT, (g)	3
3	LoDico 1992	7	20M	S, Z		(c)			43 (f)	314			ba: SZ, CA; OL: P		E3

Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms. symptoms and signs. treatment)]

MW isoniazid = 137.1

PX= pyridoxine

(a) dead on arrival at hospital.

(b) spleen.

(c) pulmonary tuberculosis.

(d) cases cited from other authors.

(e) plus alcohol.

(f) heart blood; subclavian blood level 94 mg/l.

(g) gastric lavage only type of treatment recorded.

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
no cases															

Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms. symptoms and signs. treatment)]

MW isoniazid = 137.1