

acetylsalicylic acid

02-acetylsalicylic acid (CAS# 50-78-2)															
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 1967:9	1	15F		25	(b)	19		790	5720			0h: V, MS	ST	(a)
		1											24h: F		96 (240)
2	SPC 1971:2	2	15F	S	23		2		500	3620			0h: V, MS	0h: ST	24
3	SPC 1982:6	3	15F	A	50		3		910.8	6600			0h: V, MS	0h: ST	
		3					15		331.2	2400				I: FD, PD	72
4	SPC 1988:8	4	18F		50	(c)	1		1145.4	8300			0h: MS	0h: ST, RC, FD	
		4					3		938.4	6800			I: E	I: UL	
		4					6,5		386.4	2800					
		4					9		317.4	2300					24
5	SPC 1989:5	5	17F		75		2		732	5300			0h: V, MS	0h: ST	
		5				ET	30	(d)	189	1370			I: F, K	24h: HD	72
6	SPC 1989:6	6	24M		40		2		703	5090			0h: MS	0h: ST	
		6				ET	20	(d)	163	1180			I: SZ, MA, E, F	I: AB, UL, HD	48
7	SPC 1990	7	31M		50		12		869.4	6300			0h: MS, R	0h: FD, UL	
		7					50		910.8	6600			12h: RA; I: P	12h: AR; I: HD	96
8	Levy 1967	8	28F	S	45		30	(e)	1140	8255			0h: F, LP, C	0h: ST	
		8					33		620	4488.8			3h: R	1h: HD 11h	
		8					36		430	3113.2			12h: LP, KF	3h: AR	
		8					42		235	1701.4			4d: NP; 4w: LS		672
9	Done 1960	9	21		NR		4		880	6371.2			0h: MS		
		9	16		NR		16		640	4633.6			0h: V, MS		
10	Beveridge 1964	10	18F		33		7		970	7022.8			0h: MS, G	0h: ST, FD	
		10					8		950	6878			I: LP, E (i)		
		10					9		860	6226.4					
		11	34M		42		4		860	6226.4			0h: MS, E (i)	0h: ST, FD	
		11					5		890	6443.6					
		11					6		830	6009.2					
		12	48M		100		12		670	4850.8			0h: MS, E (i)	0h: ST, FD	
		12					13		730	5285.2					
		12					14		670	4850.8					
		13	33F		23		2		430	3113.2			0h: MS, E (i)	0h: ST, FD	
		13					3		540	3909.6			I: LP		
		13					4		660	4778.4					
		14	33F		20		14		640	4633.6					
		14					16		500	3620					
		15	34F		100		30		670	4850.8			0h: MS,LP; I: C,P	0h: ST; I: HD	
		16	57M		33		12		790	5719.6			0h: MS,LP; 3h: CF	0h: ST; I: HD	

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11	Cumming 1964	17	16F		NR		4		760	5502.4			0h: MS, V	0h: ST, FD, UL	
		17					6	p	850	6154					
		17					14		400	2896					
		18	43M		NR		14		880	6371.2			0h: MS	0h: ST, FD, UL	
		18					24		300	2172					
		19	58M		NR		6		840	6081.6			0h: MS	0h: ST, FD, UL	
		19					16		300	2172					
		20	18M		NR		12		630	4561.2			0h: MS	0h: ST, FD, UL	
		20					18		300	2172					
12	Tashima 1964	21	27F		24	ET	5		609	4410			0h: PE, E	0h: ST	72
13	James 1975	22	22F		75		10		1400	10137			0h: C, MA	0h: ST, PD	
		22					14		1100	7964					
		22					19		940	6805.6					
		22					25		680	4923.2					
		22					33		460	3330.4					
		22					42		340	2461.6					
14	Broderick 1976	23	58F	Z	NR		48		530	3838			0h: PE	0h: ST, AR	
		23					96		280	2027.2					240
15	Hormaechea 1979	24	54F		60	X	6		960	6951			0h: MS	0h: ST (f)	
		24					16		820	5936.8			11h: LP, K, P		
		24					28		330	2389.2					
		24					46		0	0					96
		25	38F		50	X	9		920	6662			0h: MS	0h: ST	
		25					12		880	6371.2			8h: PE	12h: AR (f)	
		25					19		830	6009.2			16h: LP, K, MA		
		25					26		620	4488.8					
		25					32		350	2534					
		25					42		0	0					120
16	Boldy 1986	26	50M		100		24		722	5228			0h: MS	0h: ST, RC	
17	Pei 1987	27	62M		43	X, (g), ET	6		1063	7700			0h: MS	0h: NT	
		27				ET	14		910.8	6600			6h: F, LP, K	8h: ST, UL, FD	
		27				ET	22		648.6	4700			8h: PE, CF, MA		
		27				ET	38		193.2	1400					
		27				ET	44		0	0					48
18	Jacobsen 1988	28	27F	A	NR	ET	4		1228.2	8900			0h: C, AP	0h: ST; 3h: HD3h	
		28				ET	7		828	6000					
		28				ET	10		276	2000					144
		29	19M		A, 65		6		952.2	6900			0h: MS	0h: ST, FD, UL	
		29					10	m	800.4	5800			5h: C	7h: HP 2+5h	
		29					13		745.2	5400					
		29					21		276	2000					182

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19	Leventhal 1989	30	X, 42F	S	40		18		1140	8255			0h: MS	0h: ST, HD	
		30					42		652	4720.5			48h: K (h)		
		30					66		490	3547.6					
		30					90		280	2027.2					
		30					114		113	818.1					
		30					138		49	354.8					
		30					162		32	231.7					336
20	Muhlebach 1997	31	29M	S	345		6 h		467	3382			MS, V, MA, R	ST	18
		31			mg/kg										
		32	22M	S	375		8		375	2715			MS, V, MA, R	ST	18
		32			mg/kg										
		33	19M	S	420		3		700	5068			MS, V, MA, R	ST	18
		33			mg/kg										
		34	21F	S	460		6		763	5525			MS, V, MA, R	ST	18
		34			mg/kg										
21	Higgins 1998	35	43M	S	135	(j)	7		718	5200			MS, SZ, V, R	UL	72
		35													
		36	43M	S	105				953	6900			MS, SZ, V	ST	72
		37	57F		15				856	6200			MS, SZ, V	ST	24
		37													
22	Meghjee 1998	38	37M	S	NR				858	6213					
		38													
		38													
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW salicylic acid (salicylate) 138.1															
(a) time to remission/(time at hospital).															
(b) asthmatic disease.															
(c) also ethyl.															
(d) value after HD.															
(e) extrapolated peak value 2200 mg/l.															
(f) albumin infusion.															
(g) dose over two days.															
(h) rhabdomyolysis, creatine kinase max 36200 IU/dl.															
(i) hypokalemia.															
(j) also 150 ml whisky.															

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
															(a)
1	SPC 1989:1	1	53M		NR				469.2	3400			0h: C	0h: AR	
		1											I: MA, L, R, PE		312
2	SPC 1978:3	2	54M		50	(b)			704	5100			0h: F, MS	0h: ST; I: FD	72(168)
3	SPC 1978:6	3	25F		25				759	5500			0h: MS		
4	Lawson 1969	4	58F		NR	(c)		(d)	830	6010					
		5	38F		NR	(c)		(d)	780	5648					
		6	63F		NR	(c)		(d)	880	6372					
		7	60M		NR	(c)		(d)	850	6155					
		8	20F		NR	(c)		(d)	760	5503					
		9	35F		NR	(c)		(d)	760	5503					
		10	36M		NR	(c)		(d)	750	5430					
		11	43M		NR	(c)		(d)	710	5141					
		12	31F		NR	(c)		(d)	810	5865					
		13	46M		NR	(c)		(d)	800	5793					
		14	59F		NR	(c)		(d)	780	5647.2					
		15	27M		NR	(c)		(d)	760	5503					
		16	43F		NR	(c)		(d)	740	5348					
		17	17M		NR	(c)		(d)	740	5358					
		18	20F		NR	(c)		(d)	730	5286					
5	Velez 2001	19	19F		16.25				317	2300			0h: MS		
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW salicylic acid (salicylate) 138.1															
(a) time to admission/(time at hospital).															
(b) dose over 2-3 days.															
(c) no mixed poisoning; all patients alert at arrival.															
(d) all patients with peak levels > 700 mg/l.															

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 1974:12	1	47F	NR	NR	ET	54		570	4127			0h: R, MA, DC	24h: CR, AR	
		1				ET	78		410	2968.4			24h: RA, CA	48h: PD	
		1				ET	102		310	2244.4			48h: K, B		
		1				ET	126		240	1737.6					
		1				ET	150		120	868.8					
		1				ET	174		35	253.4					312
2	AAPCC 1986:137	2	32	S	NR		3		1110	8036.4					
3	AAPCC 1986:141	3	54	S	NR		11		850	6154					
4	AAPCC 1987:137	4	20	S	NR		11		1300	9412					
5	AAPCC 1987:138	5	21F	S, U	18	(b), ET	12		750	5430			0h: MS	0h: ST, AB	
		5					19		790	5719.6			7h: MA, PE	14h: AR	ET26
6	AAPCC 1987:139	6	27	S	NR		17.5		900	6516					
7	AAPCC 1987:141	7	32F	S	98		2.5		520	3764.8			0h: NS	7h: ST, AB	
		7					7		650	4706			4h: R		
		7					20		690	4995.6			7h: MA		
		7					24	i	780	5647.2			28 h: SZ, HA		24
8	AAPCC 1987:143	8	32	S	NR		24		944	6834.6					
9	AAPCC 1987:145	9	49	S	NR		11		1300	9412					
10	AAPCC 1987:148	10	67	S	NR		13		901	6523.2					
11	AAPCC 1988:177	11	16M	S	57		5		698	5053.5			0h: MS	3h: ST	
		11					8		897	6494.3			8h: MA	8h: AB, AC	
		11					10.5	i	1170	8470.8			14h: F, R, KF, CA		14
12	AAPCC 1988:178	12	23	S	NR		3		1560	11294.4					
13	AAPCC 1988:181	13	40	S	NR		33		1074	7775.8					
14	AAPCC 1989:225	14	15	S	NR		16		1170	8470.8					
15	AAPCC 1989:227	15	36	S	NR		24		1260	9122.4					
16	AAPCC 1989:230	16	42	S	NR		7		1000	7240					
17	AAPCC 1989:231	17	44	S	NR		9		1120	8110					
18	AAPCC 1989:232	18	44	S	NR		7		1150	8326					
19	AAPCC 1989:241	19	61	S, U	NR		2.5		695	5031.8					
20	AAPCC 1990:235	20	19	S	NR		6		1240	8979					
21	AAPCC 1990:236	21	34	S	NR		8		1300	9412					
22	AAPCC 1990:237	22	35M	S	98	(c)	2		780	5647.2			0h: MS; 13h: C, K	0h: ST	
		22					15		1120	8108.8			18h: MA, R, KF	20h: AR	
		22											22h: F, RA, CA		22
23	AAPCC 1990:238	23	37	S	NR		10		720	5212.8					
24	AAPCC 1990:239	24	60	S	NR		24		680	4923.2					
25	AAPCC 1991:276	25	16	S	NR		16		1290	9339.6					
26	AAPCC 1991:278	26	17	S	NR		13		1280	9267.2					
27	AAPCC 1991:280	27	26	S	NR		16		900	6516					
28	AAPCC 1991:288	28	45	S	NR		14		880	6371.2					
29	AAPCC 1991:290	29	50	S	NR		48		740	5357.6					

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30	AAPCC 1991:291	30	56	S	NR		12		570	4126.8					
31	AAPCC 1992:228	31	18	S	NR		6.5		1070	7748					
32	AAPCC 1992:229	32	22	S	NR		7		1500	10862					
33	AAPCC 1992:240	33	58	S	NR		6.5		1090	7892					
34	AAPCC 1993:222	34	15	A, S	NR		5		1070	7746.8					
35	AAPCC 1993:226	35	32	A, S	NR		6		980	7095.2					
36	AAPCC 1993:227	36	33	A, S	NR		2.5		960	6950.4					
37	AAPCC 1993:236	37	59	A, S	NR		10		1170	8470.8					
38	AAPCC 1993:238	38	67	S	NR		6		780	5647.2					
39	Beveridge 1964	39	57M	S	60		9		750	5430			0h: MS; 3h: DC	0h: ST	
		39					12		1150	8326					
40	Ferguson 1970	40	23F	S	NR	(d)	2		465	3366.6			0h: MS	0h: ST	
		40					10	p	1152	8340.5			4h: F	72h: AR	
		40					14		1040	7529.6			8h: MA		
		40					17		819	5929.6			24h: C, R		
		40					30		500	3620					
		40					59		400	2896					
41	McGuigan 1986	41	Ad(a)	A, S	82	ED, ET	6		1380	10000			0h: MS, MA	0h: ST	
		42				ET	9		1242	9000			E8h: C		
		42				ET	12	i	1656	12000					ET12
		43	Ad(a)	A, S	82	ET	6.5		924.6	6700			0h: MS, MA	0h: ST	
		43				ET	10		1021.2	7400			E8h: C		
		43				ET	17	i	1435.2	10400					ET17
		44	Ad(a)	A, S	82	ED, ET	7		952.2	6900			0h: MS, MA	0h: ST	
		44				ET	11		979.8	7100			E8h: C		
		44				ET	23	i	1117.8	8100					
		45	Ad(a)	A, S	82	ED, ET	7		869.4	6300			0h: MS, MA	0h: ST	
		45				ET	9		869.4	6300			E8h: C		
		45				ET	24	i	1628.4	11800					ET24
		46	Ad(a)	A, S	82	ED, ET	7		786.6	5700			0h: MS, MA	0h: ST	
		46				ET	14		869.4	6300			E8h: C		
		46				ET	25	i	1490.4	10800					ET25
42	Chapman 1989	47	44F	S	NR		2.5		1170	8470.8			0h: C, SZ, CA		4
43	AAPCC 2001:395	48	48M	S	NR		14		740	5397			0h:MS	0h: ST	24
		48					24		1103	8045					
44	AAPCC 2001:392	49	45F	S	NR		4		800	5835					
		49					10		1090	7950			0h: MS, G, C	0h: ST	10 or 12
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW salicylic acid (salicylate) 138.1															
(a) symptoms and treatment outlined schematically.															
(b) over 2 days.															
(c) plus ethanol 50 g/l.															
(d) some propoxyphene, also chlordiazepoxide, secobarbital, amobarbital, and chloral hydrate.															

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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
															(a)
1	SPC	1	NR						498	3606					
2	AAPCC 1986:136	2	24		NR				1250	9050					
3	AAPCC 1986:138	3	44	S	NR				1250	9050					
4	AAPCC 1986:139	4	48	S	NR				1440	10425.6					
5	AAPCC 1986:140	5	51	S	NR				1310	9484.4					
6	AAPCC 1987:142	6	32		NR				1001	7247.2					
7	AAPCC 1987:144	7	42	S	NR		>6		820	5936.8					
8	AAPCC 1987:146	8	46	S	NR				1230	8905.2					
9	AAPCC 1987:154	9	51		NR				780	5647.2					
10	AAPCC 1988:179	10	29	S	NR				1122	8123.3					
11	AAPCC 1988:185	11	60	S	NR				1020	7384.8					
12	AAPCC 1988:186	12	62	S	NR				1270	9194.8					
13	AAPCC 1989:233	13	45	S	NR				1210	8760.4					
14	AAPCC 1989:235	14	50	S	NR				730	5285.2					
15	AAPCC 1989:238	15	56	S	NR				847	6132.3					
16	AAPCC 1989:242	16	62	S	NR				1310	9484.4					
17	AAPCC 1989:243	17	66	S	NR				900	6516					
18	AAPCC 1989:247	18	29	S	NR				1070	7746.8					
19	AAPCC 1990:234	19	18	S	NR		>8.5		1140	8253.6					
20	AAPCC 1990:241	20	62	S	NR				480	3475.2					
21	AAPCC 1991:275	21	15	S	NR				970	7022.8					
22	AAPCC 1991:287	22	44		NR				1410	10208.4					
23	AAPCC 1991:289	23	46	S	NR				1280	9267.2					
24	AAPCC 1991:293	24	59	S	NR				590	4271.6			ba: CA		
25	AAPCC 1991:294	25	67		NR				1130	8181.2					
26	AAPCC 1991:295	26	68		NR				1240	8977.6					
27	AAPCC 1991:297	27	69	S	NR				970	7022.8					
28	AAPCC 1992:231	28	24	S	NR				1160	8389.4					
29	AAPCC 1992:232	29	27	S	NR		>31		1490	10787.6					
30	AAPCC 1992:233	30	34	S	NR				1360	9846.4					
31	AAPCC 1992:235	31	47	S	NR				760	5502.4					
32	AAPCC 1992:237	32	52	S	NR				1920	13900.8					
33	AAPCC 1992:241	33	69	S	NR				1090	7891.6					
34	AAPCC 1993:223	34	23	A, S	NR				1200	8688					
35	AAPCC 1993:224	35	29	S	NR				1340	9701.6					
36	AAPCC 1993:228	36	40	A, S	NR				600	4344					
37	AAPCC 1993:230	37	42	A, S	NR				1310	9484.4					
38	AAPCC 1993:231	38	46	A	NR				1000	7240					
39	Lawson et al 1969	39	16F		NR			p	600	4344			0h: MS	AR	
		39							200	1448			16h: RA		96
40	McGuigan 1987	40	10 cases	A	NR				800	5800			0h: C, OL: G,P(B)	ST (b)	
41	AAPCC 1998:293	41	52F	S	250				950	6879			RA, H	ST	NR

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42	AAPCC 2000:357	42	15F	S	NR				910	6637			V, F	ST	20
43	AAPCC 2000:366	43	35F	S	NR				480	3501			V, H, SZ, MS	ST	6.5
44	AAPCC 2000:359	44	18	S	NR				920	6662					
45	AAPCC 2000:360	45	19	S	NR				900	6565					
46	AAPCC 2000:361	46	22	S	NR				1200	8753					
47	AAPCC 2000:362	47	26	S	NR				706	5149					
48	AAPCC 2000:363	48	30	S	NR				710	5179					
49	AAPCC 2000:365	49	34	S	NR				936	6827					
50	AAPCC 2000:367	50	38	S	NR				643	4690					
51	AAPCC 2000:368	51	40	S	NR				1400	10211					
52	AAPCC 2000:369	52	43	S	NR				1176	8578					
53	AAPCC 2000:370	53	45	S	NR				1175	8570					
54	AAPCC 2001:384	54	16	S	NR				1046	7629					15
55	AAPCC 2001:388	55	23	S	NR				1130	8242					
56	AAPCC 2001:403	56	65	S	NR				1210	8826					10
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW salicylic acid (salicylate) 138.1															
(a) time to admission/(time at hospital).															
(b) no HD in any case.															

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 1987: 138	1	21F	U	NR	(a), ET	26		870	6300			R, (b)		
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW salicylic acid (salicylate) 138.1															
(a) ingested 55 tablets of aspirin over 2 days for a toothache.															
(b) alveolar damage.															
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 1987:153	1	48		NR				671	4858					
2	AAPCC 1989:236	2	53	S	NR				140	1013.6					
3	AAPCC 1991:279	3	23	S	NR				990	7167.6					
4	AAPCC 1991:285	4	40	S	NR				540	3909.6			ba: CA	NT	
5	AAPCC 1993:229	5	41	S	NR				2980	21575.2					
6	Rehling 1967	6	62 cases					(c)	675	4890					
7	McGuigan 1987	7	16 cases	A, S	NR	(a)		sr, (c)	510	3700			I: G, P, B	NT	
		8	12 cases	A, S	NR	(b)		sr, (c)	660	4800			I: G, P, B	ST (c)	
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW salicylic acid (salicylate) 138.1															
(a) found comatose.															
(b) treated in hospital (average 13 h).															
(c) mean value.															
(d) no HD in any case.															