

colchicine

06-colchicine (CAS# 64-86-8)																	
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	Lambert 1981	1	AdF	S	0.028	ED	15	(a)	0.005	0.0125			N R	N R	N R		
		2	AdM	S	0.049	ED	24	(a)	0.005	0.0125			N R	9h(f): HP	N R		
		3	AdF	S	0.063	ED	6	(a)	0.005	0.0125			N R	8h(f): HP	N R		
		4	AdM	S	0.028	ED	8	(a)	0.016	0.0401			N R	14h(f): HP	N R		
2	Gossweiler 1985	4					24		0.005	0.0125							
		5	Ad	N R	N R		6		0.006	0.0150			N R	N R	N R		
		6	Ad	N R	N R		3		0.005	0.0125			N R	N R	N R		
		7	Ad	N R	N R		22		0.005	0.0125			N R	N R	N R		
		3	Rochdi 1992	8	29M	S	0.02	(b)	4	pl	0.050	0.1252			V, CP	N R	N R
				8					8	pl, y	0.010	0.0250					
				8					102	pl	0.0017	0.0043					N R
9	50M	S	NR	(b)	3	pl	0.0105	0.0263			V	N R					
9					5	pl	0.0046	0.0115									
9					96	pl	0.00024	0.0006					N R				
10	24F	S	0.017	(b)	09:05	pl	0.005	0.0125				G, CP	N R				
10					14	pl, y	0.003	0.0075									
10					60	pl	0.001	0.0025						N R			
11	19M	S	0.02	(b)	24	pl	0.0067	0.0168				G, V, CP	N R				
11					93	pl	0.0009	0.0023						N R			
12	15F	S	0.008	(b)	11	pl	0.005	0.0125				V, CP	N R				
12					85	pl	0.0009	0.0023						N R			
13	21M	S	0.018	(b)	22	pl	0.006	0.0150				V, CP	N R				
13					65	pl	0.0009	0.0023						N R			
4	Henderson 1993	14	15F	S, A	0.015	(c)	15		<0.010	0.0250			ba/0h: G, V; 6h: F(g)	0h: ST			
		14					21		<0.010	0.0250			24h: RM(F); 7d: RM(G);				
		14											LS: N,ALCP		168		
5	Baud 1995	15	25F	S, A	0.06	(d)	27		0.024	0.0601			0h: CF,H; 3h: CP,BD;	0h: ST			
		15					40		0.012	0.0300			12h: F,PE; 15h: HF,KF	16h: i.v.FAB 6h			
		15					40	(e)	<0.0002	0.0005			16h: RM(CF);	(k)			
		15					58	(e)	0.004	0.0100			22h: RM(F,K)		240		
		15					228	(e)	0.0002	0.0005			14d: N,ALCP		600		
6	Danel 2001	16	44M	NR	NR, (h)		13	pl, p	0.0043	0.0109			V, G	ST	132		
		17	54F	A, Z	0.014, (i)		48	pl, p	0.012	0.0300			F,V,G, KF	(l)	144		
7	Sussman 2004	18	46F	A, Z	0.04, (j)		100		0.001	0.003			F,V,G	(l)			
		19	20F	S, A	0.018	ED, ET	3	sr	0.012	0.03			48h: BD	HD	168		

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Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]													
MW colchicine = 399.5													
(a) detection limit 0.005 mg/l.													
(b) detection limit 0.00015 mg/l.													
(c) detection limit 0.01 mg/l.													
(d) plus 900 mg phenobarbital (36 h: phenobarbital conc. 60 µM), and 750 mg opium extract.													
(e) unbound colchicine.													
(f) after ingestion.													
(g) leucocytosis.													
(h) ingested 40 flowers of Colchicum autumnale; previous history of depression and attempted suicide.													
(i) over a 6-week period; she had received 7x2 mg of intravenous colchicine.													
(j) over a period of months, she had received more than 20 i.v. 2-mg colchicine injections for chronic back pain.													
(k) colchicine antibodies.													
(l) total parenteral nutrition.													

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	Megarbane 2001	1	24 cases	NR	0.02	(a)		(b)	0.0041	0.01			CA, HF, KF, LF, RA, CA, (d)		(c)

Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]													
MW colchicine = 399.5													
(a) twenty-four patients, admitted from 1993-1999 in two intensive care units; included 12F and 12M, 36 years (median, 15-70); average dose 0.02 mg (range 5-94).													
(b) range 0.0007-0.069 mg/l (0.002-0.17 µM). No significant difference between survivors and non-survivors.													
(c) eighteen of 24 patients survived.													
(d) hematological toxicity.													

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.: μ M	Metabolite Blood conc.: mg/l	Metabolite Blood conc.: μ M	Symptoms and signs	Treatment	Time (exposure to death): h
1	Caplan 1980	1	39F	S, A	20	ED	2		0.25	0.626			0h: G,V,K; 32h: MA,R,LP		40
2	Lambert 1981	2	AdF	S	28	(a)	15		0.045	0.113			N R	N R	N R
		3	AdM	S	49	(a)	24		0.035	0.088			N R	12h: TR	144
		4	AdF	S	NR		(a)	120		0.044	0.110			N R	N R
3	Wells 1989	5	59M	S, A	NR	(b), ET	12	wb	0.090	0.225			0h: G,V; 6h: LP;		
		5											12h: K,R,CF,HA		E24
4	Schut 1990	6	61F	S, A	24		41	sr	0.020	0.050			0h: MS; 2,5h: G,V;		
		6											l: LP,KF; 38h: RA,BD,CP,		
		6											L,MA,R; 43h: CF		43
5	Borron 1996	7	41M		20	(c)	11	pl	0.012	0.030			V,KF,MA, LF, CF	ST,AR	72
6	Dehon 1999	8	42M	S, A	NR		24	wb	0.011	0.025			C,V,H,CF,KF,G	CR	26
7	Mullins 2000	9	30M	S, A	39.6	(d)	22	sr	0.029	0.073			G,CA,HF	ST, (e)	35
8	AAPCC 2000:402	10	34F	S, A	NR		48	sr	0.006	0.015			KF, LF, HF, ARDS	ST	480
9	Hung 2001	11	45M	S, A	NR		72	pl	0.006	0.015			H, F, MA, LF	(f)	288
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW colchicine = 399.5															
(a) detection limit 0.005 mg/l.															
(b) mixed poisoning: tylenol, codeine, desyrel, imodium (therapeutic blood concentrations) and ethanol (0.96 g/l); toxicology screen result of hemolysed blood clot.															
(c) multitude of medications: 15 mg phenobarbital, 12.5 mg of opium, and 50 mg of tiemonium iodide (an anticholinergic antispasmodic).															
(d) alcoholic; hepatitis C.															
(e) dopamine infusion.															
(f) granulocyte colony-stimulating factor (G-CSF) and antibiotics.															
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.: μ M	Metabolite Blood conc.: mg/l	Metabolite Blood conc.: μ M	Symptoms and signs	Treatment	Time (exposure to death): h
1	Jaeger 1985	1	Ad	N R	30				0.057	0.143			N R	N R	ET 72
2	Tracqui 1996	2	24M	N R	NR			(a)	0.096	0.240			N R	N R	N R
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW colchicine = 399.5															
(a) detection limit 0.0006 mg/l.															

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	Caplan 1980 (d)	1	39F	S, A	20	ED		(b)	0.010	0.025			0h: G,V,K; 32h: MA,R,LP		40
2	Davies 1988	2	28M	S, A	700	(a)	20		0.14	0.350			0h: MS; 18h:R,G,K; 28h:F,P,KF,L, BD,CP,MA N,LP: OL: P,L,K,G	0h: ST; 24h: AR	44.5
3	Henderson 1993	3	17M	S, A	12,5			(b)	0.100	0.250			0h: G, V; I: R,RA,LP,HCF, KF; OL: P(ARDS),H,G,L	0h: ST; I: AR	60
4	Deveaux 2004	5	39F	S, A	NR	(c)	52	(d)	0.013	0.033			0h: G,V; I: BD,F,KF,R,LP G,MA,KF,LF	0h: ST; I: AR ST	72 48
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW colchicine = 399.5															
(a) plus 50 mg desipramine + 2 glasses of wine (blood alcohol conc. 0.6 mM).															
(b) detection limit 0.01 mg/l.															
(c) also unknown amount of noctamide.															
(d) concentration in heart blood.															
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	Kintz 1997	1	42M	S, A	NR	(a)			0.062	0.155			V	NT	NR
2	Weakley-Jones 2001	2	41M	S, A	NR	(a), (b)	NR	s	0.16	0.400			G,CA,SZ,	CR	48
		2													
		3	35F	A, Z	NR	(b)	NR		0.17	0.430			V,G,LF	ST	48
		3													
3	Deveaux 2004	4	45M	S, A	NR		NR	(c)	0.066	0.165			LF,H	NR	NR
Footnotes [General Glossary (via link) lists definitions of common abbreviations (general terms, symptoms and signs, treatment)]															
MW colchicine = 399.5															
(a) probably acute on chronic dosage.															
(b) homicide.															
(c) concentration in heart blood.															