

Ketamine IV Dosing Chart (High-Risk Medication)

Concentration: **500 mg/10 mL (i.e., 50 mg/mL)**

Dose: 0.25 mg/kg (IV route only)

This chart is only applicable to the **50 mg/mL concentration** of ketamine. Use this chart to determine the appropriate **IV ketamine dose based on weight**.

Always dilute and administer slowly over 2–3 minutes.

Pediatric Dosing	
Maximum dose as per the Medical Directive without a patch	

Tip: Paramedics may round the ketamine volume to the nearest **0.05 mL** to simplify preparation and improve dosing accuracy.

Weight (Kg)	Dose (mg)	Volume (ml)
12	3	0.06
14	3.5	0.07
16	4	0.08
18	4.5	0.09
20	5	0.1
22	5.5	0.11
24	6	0.12
26	6.5	0.13
28	7	0.14
30	7.5	0.15
32	8	0.16
34	8.5	0.17
36	9	0.18
38	9.5	0.19
40	10 (maximum dose for a patient ≥ 1 years to < 18 years old.)	0.2
42	10.5	0.21
44	11	0.22
46	11.5	0.23
48	12	0.24
50	12.5	0.25
52	13	0.26
54	13.5	0.27
56	14	0.28
58	14.5	0.29
60	15	0.3
62	15.5	0.31
64	16	0.32
66	16.5	0.33
68	17	0.34
70	17.5	0.35
72	18	0.36
74	18.5	0.37
76	19	0.38
78	19.5	0.39
80 (80kg and up receives the full dose)	20	0.4

For patients ≥ 40 kg, volume continues to increase by 0.01 mL per 2 kg, up to a **maximum of 20 mg (0.4 mL)** for adults.

Intranasal dosing chart (50mg/ml concentration): Dose 1mg/kg

Weight (kg)	Dose (mg)	Volume (ml)
		500mg/10ml
12	12	0.24
14	14	0.28
16	16	0.32
18	18	0.36
20	20	0.4
22	22	0.44
24	24	0.48
26	26	0.52
28	28	0.56
30	30 (maximum dose for a patient ≥ 1 years old to <18)	0.6
32	32	0.64
34	34	0.68
36	36	0.72
38	38	0.76
40	40	0.8
42	42	0.84
44	44	0.88
46	46	0.92
48	48	0.96
50	50	1
52	52	1.04
54	54	1.08

56	56	1.12
58	58	1.16
60	60	1.2
62	62	1.24
64	64	1.28
66	66	1.32
68	68	1.36
70	70	1.4
72	72	1.44
74	74	1.48
75 (75kg and over should receive the maximum dose)	75	1.5