

APPENDIX B: KETAMINE DRIP DOSING TABLES

Ketamine drip (for sedation): Sedation loading dose first (1mg/kg IV/IO over 60 seconds).

MIX: 750mg (1.5 vials of 500mg/5mL) in 250mL of normal saline (3mg/mL solution).

Initial drip dose:

- **Best:** Using an IV pump, set to $\mu\text{g}/\text{kg}/\text{min}$ dose desired. Increase or decrease dose by 5–10 $\mu\text{g}/\text{kg}/\text{min}$ increments.
- **Better:** Using a dial flow adaptor, initial drip rate in mL/h equals the casualty's weight in kg divided by 2 (see mL/h table).
- **Minimum:** Count drip rate. Increase or decrease rate by 1–2 drips/min (very slowly) to achieve goal.

Drip adjustments: Increase or decrease drip by 0.25mg/kg/h (1 row).

Ketamine Drip Dosing Tables					
Ketamine drip rate for dial flow or IV pump (starting dose highlighted)					
Dose		Patient's Weight, kg			
		40	60	80	100
mg/kg/h	$\mu\text{g}/\text{kg}/\text{min}$	Infusion Rate, mL/h			
0.5	8	7*	10	13	17
0.75	13	10	15	20	25
1.0	17	13	20	27	33
1.25	21	17	25	34	42
1.5	25	20	30	40	50
1.75	29	24	35	47	59
2.0	33	27	40	53	67
Ketamine drip count for 15 drips/mL tubing (starting dose highlighted)					
		Infusion Rate, 1 drip/X seconds			
0.5	8	1/35	1/24	1/18	1/9
0.75	13	1/27	1/18	1/14	1/8
1.0	17	1/18	1/12	1/9	1/7
1.25	21	1/15	1/10	1/8	1/6
1.5	25	1/12	1/8	1/6	1/5
1.75	29	1/11	1/7	1/6	1/5
2.0	33	1/9	1/6	1/5	1/4
Ketamine drip count for 10 drips/mL tubing (starting dose highlighted)					
		Infusion Rate, 1 drip/X seconds			
0.5	8	1/53	1/36	1/27	1/14
0.75	13	1/41	1/27	1/21	1/12
1.0	17	1/27	1/18	1/14	1/11
1.25	21	1/23	1/15	1/12	1/9
1.5	25	1/18	1/12	1/9	1/8
1.75	29	1/17	1/11	1/9	1/8
2.0	33	1/14	1/9	1/8	1/6

Procedural Sedation

Step 1: Bolus (1.0–2.0mg/kg) 80–160mg ketamine IV/IO over 60 seconds (250–400mg IM if necessary).

Step 2: Consider adding (start low, give more):

- 25–100 μg fentanyl IV/IO
- 1–4mg midazolam IV/IO

Step 3: May need to repeat doses as below if procedure lasts longer than 10–15 minutes.

- Ketamine every 10–15 minutes
- Fentanyl every 15–30 minutes
- Midazolam every 30–60 minutes

*dial flow adaptor not accurate for rate < 10mL/h; use drip count