

INTERMITTENT NARCOTIC ANALGESIA DOSING FOR INFANTS AND CHILDREN*

	MORPHINE* IV/SC	MORPHINE* PO/PR	CODEINE* PO/IM	MEPERIDINE* IV/SC/IM/PO
Usual Dose	0.05-0.1mg/kg/dose IV/SC q2-4h	0.15-0.3mg/kg/dose po/pr q4h	3-6mg/kg/day po/IM ÷ q4-6h prn (Avoid IM route if possible)	1-1.5mg/kg/dose IV/SC/IM/po q3-4h prn
Wt (kg)	Usual Single Dose IV/SC (mg)	Usual Single Dose PO/PR (mg)	Maximum Single Dose PO/IM (mg)	Usual Single Dose IV/SC/IM/PO (mg)
3	0.15 - 0.3	0.45 - 0.9	4.5	3 - 4.5
4	0.2 - 0.4	0.6 - 1.2	6	4 - 6
5	0.25 - 0.5	0.75 - 1.5	7.5	5 - 7.5
6	0.3 - 0.6	0.9 - 1.8	9	6 - 9
7	0.35 - 0.7	1.05 - 2.1	10.5	7 - 10.5
8	0.4 - 0.8	1.2 - 2.4	12	8 - 12
9	0.45 - 0.9	1.35 - 2.7	13.5	9 - 13.5
10	0.5 - 1	1.5 - 3	15	10 - 15
11	0.55 - 1.1	1.65 - 3.3	16.5	11 - 16.5
12	0.6 - 1.2	1.8 - 3.6	18	12 - 18
13	0.65 - 1.3	1.95 - 3.9	19.5	13 - 19.5
14	0.7 - 1.4	2.1 - 4.2	21	14 - 21
15	0.75 - 1.5	2.25 - 4.5	22.5	15 - 22.5
16	0.8 - 1.6	2.4 - 4.8	24	16 - 24
17	0.85 - 1.7	2.55 - 5.1	25.5	17 - 25.5
18	0.9 - 1.8	2.7 - 5.4	27	18 - 27
19	0.95 - 1.9	2.85 - 5.7	28.5	19 - 28.5
20	1 - 2	3 - 6	30	20 - 30
25	1.25-2.5	3.75-7.5	37.5	25-37.5
30	1.5-3	4.5-9	45	30-45
35	1.75-3.5	5.25-10.5	52.5	35-52.5
40	2-4	6-12	60	40-60
>40	Maximum 15mg/dose (no dose limit for palliative care)	0.15-0.3mg/kg/dose (no dose limit for palliative care)	Maximum 1.5mg/kg/dose (usual adult dose is 15-60mg per dose)	Maximum IV/IM/SC: 2mg/kg/dose or 100mg/dose whichever is less Maximum po: 4mg/kg/dose or 150mg/dose whichever is less

Doses based on 2000-2001 HSC Formulary of Drugs.

- * All dosage forms of single-agent narcotic analgesics (i.e. codeine, morphine, meperidine, hydromorphone, fentanyl) are potentially highly toxic drugs. This does not apply when narcotic doses are administered by Anesthetists and CCU physicians (see HSC Formulary, Section III-Doctors' Orders)
- * The dose must be independently recalculated by a physician, nurse, or pharmacist prior to administration. The person who recalculated the dose initials beside the order on the doctors' order form. If the dose is outside the usual dose range, the prescriber must be contacted for further verification.
- * The amount of drug to be given (e.g. volume of a liquid) must be independently calculated, and the measurement of each dose must be checked by two nurses or a nurse and one of a pharmacist, physician, or specially trained pharmacy technician.

Prepared by the Drug Information Service for the Medication Incident Subcommittee at the Hospital for Sick Children, Toronto, Ontario, March, 2000