

# Paediatric morphine Infusion

Concentration: 1 mg/mL

**Admixture:**

20 mg diluted to a total volume of 20 mL for 1 mg/mL

or

50 mg diluted to a total volume of 50 mL for 1 mg/mL

DOSE (mcg/kg/h)	PATIENT WEIGHT (kg)																			
	2	4	6	8	10	12	14	16	18	20	25	30	35	40	45	50	55	60	65	70
	INFUSION RATE (mL/h)																			
2.5	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.08	0.09	0.1	0.11	0.13	0.14	0.15	0.16	0.18
5	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.1	0.13	0.15	0.18	0.2	0.23	0.25	0.28	0.3	0.33	0.35
7.5	0.02	0.03	0.05	0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.19	0.23	0.26	0.3	0.3	0.4	0.4	0.5	0.5	0.5
10	0.02	0.04	0.06	0.08	0.1	0.12	0.14	0.16	0.18	0.2	0.25	0.3	0.35	0.4	0.5	0.5	0.6	0.6	0.7	0.7
12.5	0.03	0.05	0.08	0.1	0.13	0.15	0.18	0.2	0.23	0.25	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9
15	0.03	0.06	0.09	0.12	0.15	0.18	0.21	0.24	0.27	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1	1.1
17.5	0.04	0.07	0.11	0.14	0.18	0.21	0.25	0.28	0.32	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.1	1.2
20	0.04	0.08	0.12	0.16	0.2	0.24	0.28	0.32	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4
25	0.05	0.1	0.15	0.2	0.25	0.3	0.4	0.4	0.5	0.5	0.6	0.8	0.9	1	1.1	1.3	1.4	1.5	1.6	1.8
30	0.06	0.12	0.18	0.24	0.3	0.4	0.4	0.5	0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.5	1.7	1.8	2	2.1
35	0.07	0.14	0.21	0.28	0.4	0.4	0.5	0.6	0.6	0.7	0.9	1.1	1.2	1.4	1.6	1.8	1.9	2.1	2.3	2.5
40	0.08	0.16	0.24	0.3	0.4	0.5	0.6	0.6	0.7	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8
45	0.09	0.18	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.1	1.4	1.6	1.8	2	2.3	2.5	2.7	2.9	3.2
50	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.3	1.5	1.8	2	2.3	2.5	2.8	3	3.3	3.5
55	0.11	0.22	0.3	0.4	0.6	0.7	0.8	0.9	1	1.1	1.4	1.7	1.9	2.2	2.5	2.8	3	3.3	3.6	3.9
60	0.12	0.24	0.4	0.5	0.6	0.7	0.8	1	1.1	1.2	1.5	1.8	2.1	2.4	2.7	3	3.3	3.6	3.9	4.2
65	0.13	0.26	0.4	0.5	0.7	0.8	0.9	1	1.2	1.3	1.6	2	2.3	2.6	2.9	3.3	3.6	3.9	4.2	4.6
70	0.14	0.28	0.4	0.6	0.7	0.8	1	1.1	1.3	1.4	1.8	2.1	2.5	2.8	3.2	3.5	3.9	4.2	4.6	4.9
75	0.15	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.5	1.9	2.3	2.6	3	3.4	3.8	4.1	4.5	4.9	5.3
80	0.16	0.3	0.5	0.6	0.8	1	1.1	1.3	1.4	1.6	2	2.4	2.8	3.2	3.6	4	4.4	4.8	5.2	5.6

Flow rates not listed above may be calculated using the following equation:

Values have been rounded off

$$\text{mL/h} = \frac{\text{dose (mcg/kg/h)} \times \text{weight (kg)}}{\text{concentration of infusion solution (mg/mL)} \times 1000}$$