

dexmedetomidine 4 mcg/mL dosage chart for sedation

Patient Weight (kg)	Loading IV infusion over 10 minutes		Maintenance infusion mcg/kg/hour should not exceed 24 hours													
	0.5 mcg/kg	1 mcg/kg	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	
	volume (mL)		infusion rate (mL/hour)													
40	5	10	2	3	4	5	6	7	8	9	10	11	12	13	14	
45	5.6	11.3	2.3	3.4	4.5	5.6	6.8	7.9	9	10.1	11.3	12.4	13.5	14.6	15.8	
50	6.3	12.5	2.5	3.8	5	6.3	7.5	8.8	10	11.3	12.5	13.8	15	16.3	17.5	
55	6.9	13.8	2.8	4.1	5.5	6.9	8.3	9.6	11	12.4	13.8	15.1	16.5	17.9	19.3	
60	7.5	15	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	
65	8.1	16.3	3.3	4.9	6.5	8.1	9.8	11.4	13	14.6	16.3	17.9	19.5	21.1	22.8	
70	8.8	17.5	3.5	5.3	7	8.8	10.5	12.3	14	15.8	17.5	19.3	21	22.8	24.5	
75	9.4	18.8	3.8	5.6	7.5	9.4	11.3	13.1	15	16.9	18.8	20.6	22.5	24.4	26.3	
80	10	20	4	6	8	10	12	14	16	18	20	22	24	26	28	
85	10.6	21.3	4.3	6.4	8.5	10.6	12.8	14.9	17	19.1	21.3	23.4	25.5	27.6	29.8	
90	11.3	22.5	4.5	6.8	9	11.3	13.5	15.8	18	20.3	22.5	24.8	27	29.3	31.5	
95	11.9	23.8	4.8	7.1	9.5	11.9	14.3	16.6	19	21.4	23.8	26.1	28.5	30.9	33.3	
100	12.5	25	5	7.5	10	12.5	15	17.5	20	22.5	25	27.5	30	32.5	35	
105	13.1	26.3	5.3	7.9	10.5	13.1	15.8	18.4	21	23.6	26.3	28.9	31.5	34.1	36.8	
110	13.8	27.5	5.5	8.3	11	13.8	16.5	19.3	22	24.8	27.5	30.3	33	35.8	38.5	
115	14.4	28.8	5.8	8.6	11.5	14.4	17.3	20.1	23	25.9	28.8	31.6	34.5	37.4	40.3	
120	15	30	6	9	12	15	18	21	24	27	30	33	36	39	42	
125	15.6	31.3	6.3	9.4	12.5	15.6	18.8	21.9	25	28.1	31.3	34.4	37.5	40.6	43.8	
130	16.3	32.5	6.5	9.8	13	16.3	19.5	22.8	26	29.3	32.5	35.8	39	42.3	45.5	

dexmedetomidine 4 mcg/mL: dilute 200 mcg (2 mL of 100 mcg/mL injectable) in NS 50 mL.

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

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