

esmolol loading dose and maintenance infusion dosing chart (atrial fibrillation/flutter)

loading dose: use appropriate volume of 10 mg/mL vial

infusion: premixed bag 2500 mg / 250 mL NS (10 mg/mL)

| WEIGHT (kg) | LOADING DOSE (0.5 mg / kg) | MAINTENANCE INFUSION 10 mg/mL | | | | | | | |
|----------------|-------------------------------|-------------------------------|------|-----|------|------|------|-----|--------------|
| | | 0.05 | 0.08 | 0.1 | 0.13 | 0.15 | 0.18 | 0.2 | mg/kg/minute |
| 50 | 25 mg | 15 | 24 | 30 | 39 | 45 | 54 | 60 | mL/hour |
| 55 | 27.5 mg | 17 | 26 | 33 | 42 | 50 | 59 | 66 | mL/hour |
| 60 | 30 mg | 18 | 29 | 36 | 47 | 54 | 65 | 72 | mL/hour |
| 65 | 32.5 mg | 20 | 31 | 39 | 51 | 59 | 70 | 78 | mL/hour |
| 70 | 35 mg | 21 | 34 | 42 | 55 | 63 | 76 | 84 | mL/hour |
| 75 | 37.5 mg | 23 | 36 | 45 | 59 | 68 | 81 | 90 | mL/hour |
| 80 | 40 mg | 24 | 38 | 48 | 62 | 72 | 86 | 96 | mL/hour |
| 85 | 42.5 mg | 26 | 41 | 51 | 66 | 77 | 92 | 102 | mL/hour |
| 90 | 45 mg | 27 | 43 | 54 | 70 | 81 | 97 | 108 | mL/hour |
| 95 | 47.5 mg | 29 | 46 | 57 | 74 | 86 | 103 | 114 | mL/hour |
| 100 | 50 mg | 30 | 48 | 60 | 78 | 90 | 108 | 120 | mL/hour |
| 105 | 52.5 mg | 32 | 50 | 63 | 82 | 95 | 113 | 126 | mL/hour |
| 110 | 55 mg | 33 | 53 | 66 | 86 | 99 | 119 | 132 | mL/hour |
| 115 | 57.5 mg | 35 | 55 | 69 | 90 | 104 | 124 | 138 | mL/hour |
| 120 | 60 mg | 36 | 58 | 72 | 94 | 108 | 130 | 144 | mL/hour |

$$\text{FLOW RATE (mL/hour)} = \frac{\text{dose (mg/kg/minute)} \times \text{weight (kg)} \times 60}{\text{solution concentration (mg/mL)}}$$