

Corloпам Protocol

Standard Concentration: 40mcg/ml
 Stable for 24 hours at room temperature

Dosing:

Rate initiation should be based on one of the following dosing charts
 Initial doses of 0.03-0.1mcg/kg/min are associated with less reflex tachycardia and are preferred to higher initial doses (i.e. 0.3mcg/kg/min)

DO NOT USE A BOLUS!!!!

Most of the effects of a given infusion rate are attained by 15 minutes. Therefore, doses should be titrated no sooner than every 15 minutes.

Recommended increments for titration are 0.05-0.1mcg/kg/min

Mild to Moderate Hypertensive Patients

| Time Point and Mean Change From Time | Infusion Rate (mcg/kg/min) | | | |
|--------------------------------------|----------------------------|------------|------------|------------|
| | 0.04 n=7 | 0.1 n=7 | 0.4 n=5 | 0.8 n=6 |
| Zero +/- SE | | | | |
| 15 Minutes of Infusion | | | | |
| Systolic BP | -15 ± 6 | -19 ± 8 | -14 ± 4 | -24 ± 6 |
| Diastolic BP | -5 ± 3 | -12 ± 4 | -15 ± 3 | -20 ± 4 |
| Heart Rate | +3 ± 2 | +5 ± 1 | +16 ± 3 | +19 ± 3 |
| 30 Minutes of Infusion | | | | |
| Systolic BP | -17 ± 6 | -18 ± 6 | -14 ± 8 | -26 ± 6 |
| Diastolic BP | -7 ± 3 | -16 ± 4 | -14 ± 3 | -20 ± 2 |
| Heart Rate | +3 ± 2 | +10 ± 3 | +18 ± 3 | +23 ± 3 |
| 1 Hour of Infusion | | | | |
| Systolic BP | -22 ± 7 | -22 ± 7 | -26 ± 9 | -22 ± 9 |
| Diastolic BP | -9 ± 2 | -18 ± 4 | -19 ± 4 | -21 ± 1 |
| Heart Rate | +5 ± 2 | +12 ± 3 | +19 ± 4 | +25 ± 4 |
| 4 Hours of Infusion | | | | |
| Systolic BP | -16 ± 9 | -31 ± 15 | -22 ± 11 | -25 ± 7 |
| Diastolic BP | -8 ± 4 | -19 ± 9 | -25 ± 3 | -20 ± 1 |
| Heart Rate | +6 ± 3 | +10 ± 4 | +21 ± 2 | +27 ± 7 |
| 24 Hours of Infusion | | | | |
| Systolic BP | -23 ± 8 | -35 ± 7 | -22 ± 6 | -23 ± 11 |
| Diastolic BP | -11 ± 5 | -23 ± 10 | -22 ± 5 | -13 ± 3 |
| Heart Rate | +5 ± 3 | +13 ± 2 | +17 ± 4 | +15 ± 3 |
| 48 Hours of Infusion | | | | |
| Systolic BP | -31 ± 6 | -22 ± 8 | -9 ± 6 | -14 ± 10 |
| Diastolic BP | -10 ± 6 | -9 ± 7 | -9 ± 2 | -9 ± 3 |
| Heart Rate | 0 ± 4 | +1 ± 4 | +12 ± 3 | +8 ± 3 |

Hypertensive Emergency Patients

| Time Point and Mean Change From Time | Infusion Rate (mcg/kg/min) | | | |
|--------------------------------------|----------------------------|------------|------------|------------|
| | 0.04 n=7 | 0.1 n=7 | 0.4 n=5 | 0.8 n=6 |
| Zero +/- SE | | | | |
| Pre-Infusion Baseline | | | | |
| Systolic BP | 210 ± 21 | 208 ± 26 | 205 ± 24 | 211 ± 17 |
| Diastolic BP | 136 ± 16 | 135 ± 11 | 133 ± 14 | 136 ± 15 |
| Heart Rate | 87 ± 20 | 84 ± 14 | 81 ± 19 | 80 ± 14 |
| 15 Minutes of Infusion | | | | |
| Systolic BP | -5 ± 4 | -7 ± 4 | -16 ± 4 | -19 ± 4 |
| Diastolic BP | -5 ± 3 | -8 ± 3 | -12 ± 2 | -21 ± 2 |
| Heart Rate | -2 ± 3 | +1 ± 1 | +2 ± 1 | +11 ± 2 |
| 30 Minutes of Infusion | | | | |
| Systolic BP | -6 ± 4 | -11 ± 4 | -21 ± 3 | -16 ± 4 |
| Diastolic BP | -10 ± 3 | -12 ± 3 | -17 ± 3 | -20 ± 2 |
| Heart Rate | -2 ± 3 | -1 ± 1 | +3 ± 2 | +12 ± 3 |
| 1 Hour of Infusion | | | | |
| Systolic BP | -5 ± 3 | -9 ± 4 | -19 ± 4 | -22 ± 4 |
| Diastolic BP | -8 ± 3 | -13 ± 3 | -18 ± 2 | -23 ± 2 |
| Heart Rate | -1 ± 3 | 0 ± 2 | +3 ± 2 | +11 ± 3 |
| 4 Hours of Infusion | | | | |
| Systolic BP | -14 ± 4 | -20 ± 5 | -23 ± 4 | -37 ± 4 |
| Diastolic BP | -12 ± 3 | -18 ± 3 | -21 ± 3 | -29 ± 3 |
| Heart Rate | -2 ± 4 | 0 ± 2 | +4 ± 2 | +11 ± 2 |

Corlopam Protocol (Continued)

| Patient Weight (kg) | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 105 | 110 | 115 | 120 | 125 | 130 |
|------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.05mcg/kg/min (ml/hr) | 3.4 | 3.8 | 4.1 | 4.5 | 4.9 | 5.3 | 5.6 | 6.0 | 6.4 | 6.8 | 7.1 | 7.5 | 7.9 | 8.3 | 8.6 | 9.0 | 9.4 | 9.8 |
| 0.1mcg/kg/min (ml/hr) | 6.8 | 7.5 | 8.3 | 9.0 | 9.8 | 10.5 | 11.3 | 12.0 | 12.8 | 13.5 | 14.3 | 15.0 | 15.8 | 16.5 | 17.3 | 18.0 | 18.8 | 19.5 |
| 0.15mcg/kg/min (ml/hr) | 10.1 | 11.3 | 12.4 | 13.5 | 14.6 | 15.8 | 16.9 | 18.0 | 19.1 | 20.3 | 21.4 | 22.5 | 23.6 | 24.8 | 25.9 | 27.0 | 28.1 | 29.3 |
| 0.2mcg/kg/min (ml/hr) | 13.5 | 15.0 | 16.5 | 18.0 | 19.5 | 21.0 | 22.5 | 24.0 | 25.5 | 27.0 | 28.5 | 30.0 | 31.5 | 33.0 | 34.5 | 36.0 | 37.5 | 39.0 |
| 0.25mcg/kg/min (ml/hr) | 16.9 | 18.8 | 20.6 | 22.5 | 24.4 | 26.3 | 28.1 | 30.0 | 31.9 | 33.8 | 35.6 | 37.5 | 39.4 | 41.3 | 43.1 | 45.0 | 46.9 | 48.8 |
| 0.3mcg/kg/min (ml/hr) | 20.3 | 22.5 | 24.8 | 27.0 | 29.3 | 31.5 | 33.8 | 36.0 | 38.3 | 40.5 | 42.8 | 45.0 | 47.3 | 49.5 | 51.8 | 54.0 | 56.3 | 58.5 |
| 0.35mcg/kg/min (ml/hr) | 23.6 | 26.3 | 28.9 | 31.5 | 34.1 | 36.8 | 39.4 | 42.0 | 44.6 | 47.3 | 49.9 | 52.5 | 55.1 | 57.8 | 60.4 | 63.0 | 65.6 | 68.3 |
| 0.4mcg/kg/min (ml/hr) | 27.0 | 30.0 | 33.0 | 36.0 | 39.0 | 42.0 | 45.0 | 48.0 | 51.0 | 54.0 | 57.0 | 60.0 | 63.0 | 66.0 | 69.0 | 72.0 | 75.0 | 78.0 |
| 0.45mcg/kg/min (ml/hr) | 30.4 | 33.8 | 37.1 | 40.5 | 43.9 | 47.3 | 50.6 | 54.0 | 57.4 | 60.8 | 64.1 | 67.5 | 70.9 | 74.3 | 77.6 | 81.0 | 84.4 | 87.8 |
| 0.5mcg/kg/min (ml/hr) | 33.8 | 37.5 | 41.3 | 45.0 | 48.8 | 52.5 | 56.3 | 60.0 | 63.8 | 67.5 | 71.3 | 75.0 | 78.8 | 82.5 | 86.3 | 90.0 | 93.8 | 97.5 |
| 0.55mcg/kg/min (ml/hr) | 37.1 | 41.3 | 45.4 | 49.5 | 53.6 | 57.8 | 61.9 | 66.0 | 70.1 | 74.3 | 78.4 | 82.5 | 86.6 | 90.8 | 94.9 | 99.0 | 103.1 | 107.3 |
| 0.6mcg/kg/min (ml/hr) | 40.5 | 45.0 | 49.5 | 54.0 | 58.5 | 63.0 | 67.5 | 72.0 | 76.5 | 81.0 | 85.5 | 90.0 | 94.5 | 99.0 | 103.5 | 108.0 | 112.5 | 117.0 |
| 0.65mcg/kg/min (ml/hr) | 43.9 | 48.8 | 53.6 | 58.5 | 63.4 | 68.3 | 73.1 | 78.0 | 82.9 | 87.8 | 92.6 | 97.5 | 102.4 | 107.3 | 112.1 | 117.0 | 121.9 | 126.8 |
| 0.7mcg/kg/min (ml/hr) | 47.3 | 52.5 | 57.8 | 63.0 | 68.3 | 73.5 | 78.8 | 84.0 | 89.3 | 94.5 | 99.8 | 105.0 | 110.3 | 115.5 | 120.8 | 126.0 | 131.3 | 136.5 |
| 0.75mcg/kg/min (ml/hr) | 50.6 | 56.3 | 61.9 | 67.5 | 73.1 | 78.8 | 84.4 | 90.0 | 95.6 | 101.3 | 106.9 | 112.5 | 118.1 | 123.8 | 129.4 | 135.0 | 140.6 | 146.3 |
| 0.8mcg/kg/min (ml/hr) | 54.0 | 60.0 | 66.0 | 72.0 | 78.0 | 84.0 | 90.0 | 96.0 | 102.0 | 108.0 | 114.0 | 120.0 | 126.0 | 132.0 | 138.0 | 144.0 | 150.0 | 156.0 |

Adverse reactions: headache, flushing, nausea, hypotension, reflex tachycardia