

SECTION: C-7

PROTOCOL TITLE: Adult Bradycardia

REVISED: 10 July 2006

GENERAL COMMENTS: When possible, a 12 lead may be helpful in determining origin of the rhythm.

BLS SPECIFIC CARE: *See Adult General Cardiac Care/ACS Protocol C-4*

ILS SPECIFIC CARE: *See Adult General Cardiac Care/ACS Protocol C-4*

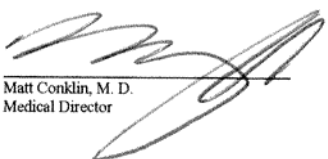
ALS SPECIFIC CARE: *See Adult General Cardiac Care/ACS Protocol C-4*

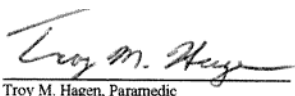
Rate Control

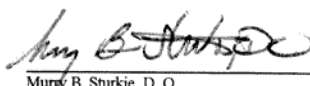
- Atropine Sulfate
 - IV: 0.5-1.0 mg every 5 minutes. To a max of 3 mg. (Use 0.04 mg/kg max for severely obese patients)
 - ETT: 2-2.5 mg
- Transcutaneous Pacing
 - Sedation/analgesia prior to pacing is highly desirable, but not mandatory. In event IV access cannot be obtained for prompt sedation, then pacing may still be performed.
 - *First line consideration for complete heart blocks.*
 - Set the initial rate at 60- 80 PPM.
 - Set the initial output to 60-80 ma.
 - See the Adult Pain Control and Sedation protocol M-12 for medications and doses.

Vasopressors

- Dopamine Hydrochloride for refractory bradycardia with hypotension <90 mm/Hg
 - Infusion: 2-20 mcg/kg/minute titrated for effect.
- **Epinephrine Infusion for severe refractory bradycardia with hypotension <90.**
 - 2-10 mcg/min


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Adult Bradycardia

Protocol C-7

PHYSICIAN PEARLS:

Dopamine Infusion Matrix

| Recommended Infusion Rates for Dopamine | | | | | | | | | | | | | | |
|--|----------------|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| Mix 400 mcg / 250 cc for a 1600mcg/1 cc concentration. | | | | | | | | | | | | | | |
| Dose | Patient Weight | | | | | | | | | | | | | |
| | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 |
| 5 | 8 | 9 | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 24 | 26 | 28 | 30 | 32 |
| 7 | 11 | 13 | 16 | 18 | 21 | 24 | 26 | 29 | 32 | 34 | 37 | 39 | 42 | 45 |
| 10 | 15 | 19 | 23 | 26 | 30 | 34 | 38 | 41 | 45 | 49 | 53 | 56 | 60 | 64 |
| 15 | 23 | 28 | 34 | 39 | 45 | 51 | 56 | 62 | 68 | 73 | 79 | 84 | 90 | 96 |
| 20 | 30 | 38 | 45 | 53 | 60 | 68 | 75 | 83 | 90 | 98 | 105 | 113 | 120 | 128 |

Epinephrine Infusion Matrix

| Recommended Infusion Rate for Epinephrine | | |
|---|--|---|
| DOSE Mcg/min | 1 mg/250 cc with microdrip 4 mcg/ml concentration | 1 mg/100 cc buritrol 10 mcg/ml concentration |
| 2 | 30 gtt/min (ml/hr) | 12 gtt/min (ml/hr) |
| 3 | 45 gtt/min (ml/hr) | 18 gtt/min (ml/hr) |
| 4 | 60 gtt/min (ml/hr) | 24 gtt/min (ml/hr) |
| 5 | 75 gtt/min (ml/hr) | 30 gtt/min (ml/hr) |
| 6 | 90 gtt/min (ml/hr) | 36 gtt/min (ml/hr) |
| 7 | 105 gtt/min (ml/hr) | 42 gtt/min (ml/hr) |
| 8 | 120 gtt/min (ml/hr) | 48 gtt/min (ml/hr) |
| 9 | 135 gtt/min (ml/hr) | 54 gtt/min (ml/hr) |
| 10 | 150 gtt/min (ml/hr) | 60 gtt/min (ml/hr) |

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