# Cardiac Arrest and Emergency Drugs in the Adult Population

IV push - indicates the medication is administered as rapidly as possible  
FOLLOW ALL IV PUSH MEDS WITH A FLUSH (either in line or push) OF 20 mL NS

<table>
<thead>
<tr>
<th>Drug</th>
<th>Supplied</th>
<th>Bolus Dose</th>
<th>Infusion</th>
</tr>
</thead>
</table>
| Adenosine         | Prefilled syringes: 6 mg/2 mL 12 mg/4 mL | undiluted  
  - 6 mg IV over 1-2 seconds followed rapidly with 20 mL NS flush  
  IF NOT EFFECTIVE IN 1-2 MINUTES  
  - 12 mg IV over 1-2 seconds followed rapidly by 20 mL NS flush | N/A                                               |
| Amiodarone        | 150 mg/3 mL ampoule        | For VF, VT, and wide complex tachycardia  
  - First bolus: 300 mg IV push  
  - Supplementary bolus: 150 mg IV push | Equipment to run infusion is not on the arrest cart; available in stepdowns and critical care units only. |
| Atropine          | 1 mg/10 mL minijet or 1 mg/mL vial | Cardiac arrest: PEA, asystole  
  - 1 mg IV push  
  - repeat q3-5 minutes to total of 0.03-0.04 mg/kg or 2-3 mg  
  can be given by ET tube at 2-2.5 times the IV dose  
  Symptomatic bradycardia:  
  - 0.5 mg - 1 mg IV push  
  - repeat q3-5 minutes to total of 0.03-0.04 mg/kg or 2-3 mg | N/A                                               |
| Dopamine          | premixed: 400 mg/250 mL D5W | N/A                                             | Refer to dopamine infusion chart-run in mcg/kg/minute  
  - for most people start the drip at:  
  10-15 mL/hr for 5 mcg/kg/minute  
  20-30 mL/hr for 10 mcg/kg/minute |
| Epinephrine       | 1 mg/10 mL minijet or 1 mg/mL vial | Cardiac Arrest:  
  - 1 mg IV push q3-5 minutes during resuscitation  
  - can be given by ET tube at 2-2.5 times the IV dose | Mix 5 mg in 500 mL D5W (10 mcg/mL)  
  Refer to epinephrine infusion chart |
| Lidocaine         | Bolus: 100 mg/5 mL minijet  
  Infusion: premixed 2 g/500 mL D5W | VF or VT without a pulse:  
  - 1.5 mg/kg IV at 50 mg/minute  
  - DEFIB- if unsuccessful repeat in 3-5 minutes  
  VT with a pulse:  
  - 1-1.5 mg/kg IV at 50 mg/minute  
  - in 5-10 minutes may give second bolus of  
  0.5-0.75 mg/kg IV at 50 mg/minute  
  - total bolus of 3 mg/kg | Maintenance Infusion: premixed  
  - 2 mg/minute = 30 mL/hr  
  - 3 mg/minute = 45 mL/hr  
  - 4 mg/minute = 60 mL/hr |

Approved by Cardiac Arrest Committee, March 2002
<table>
<thead>
<tr>
<th>DRUG</th>
<th>SUPPLIED</th>
<th>BOLUS DOSE</th>
<th>INFUSION</th>
</tr>
</thead>
</table>
| MAGNESIUM       | 1 g/2 mL ampoule | VF - used in refractory VF after lidocaine  
Cardiac Arrest - torsades de pointes or hypomagnesemia  
1-2 g IV push diluted in 10 mL D5W administered over 1-2 minutes | N/A      |
| METOPROLOL      | 5 mg/5 mL ampoule | 5 mg IV push over 1-2 minutes  
May be repeated q5 minutes to maximum of 15 mg | N/A      |
| NALOXONE        | 0.4 mg/mL vial | Can be given direct IV over 1 minute - follow with 20 mL flush OR dilute dose in 9 mL N/S (yields 0.04 mg/mL)  
Narcotic reversal: 0.4 mg-2 mg IV q2 minutes  
Use higher doses for complete narcotic reversal  
Can give up to 10 mg total over < 10 minutes  
Opiate addiction: 0.2 mg q2 minutes x 3 then 1.4 mg IV push  
Titrate until ventilations adequate | N/A      |
| NOREPINEPHRINE  | 4 mg/4 mL vial | N/A                                                                                                                                                                                                       | Mix 4 mg in 250 mL D5W (16 mcg/mL)  
Refer to norepinephrine infusion chart  
Start the drip at 4-12 mcg/min  
4 mcg/minute = 15 mL/hr  
8 mcg/minute = 30 mL/hr |          |
| PROCAINAMIDE    | 1000 mg/10 mL ampoule | Usually 500-1000 mg IV - up to a total dose of 17 mg/kg  
Mix the dose in 100 mL D5W  
Run 500 mg IV over 30 minutes (do not exceed 20-30 mg/min)  
Run 1000 mg IV over 60 minutes  
In CARDIAC ARREST - 100 mg IV push every 5 minutes is acceptable | Mix 1000 mg in 250 mL D5W (4 mcg/mL)  
Start 2 mg/min = 30 mL/hr  
3 mg/min = 45 mL/hr  
4 mg/min = 60 mL/hr |          |
| VASOPRESSIN     | 20 units/mL vial | VF/VT without a pulse:  
40 units IV push one time only | N/A      |
| VERAPAMIL       | 5 mg/2 mL ampoule | 1st dose: 2.5 - 5.0 mg IV over 2 minutes  
2nd dose: 15-30 minutes after 1st dose  
5-10 mg IV over 2 minutes  
Maximum dose: 20 mg | N/A      |