VII. Pediatric Administration

A. Bradycardia / Cardiac Arrest
   1. Neonate/Infant/Child/Adolescent
      0.01 mg/kg (1:10,000) IV/IO, or
      0.1 mg/kg (1:1000) with 2 ml NS ET. Repeat IV/IO/ET dose every 3-5 minutes.

B. Anaphylaxis / Asthma with Impending Respiratory Failure
   • 0.01 mg/kg (1:1000) IM (maximum single dose 0.3 mg).

C. Croup / Inspiratory Stridor / Bronchiolitis
   • 3 ml solution (1:1000) in nebulizer.

D. EpiPen Jr. Auto-Injector - 0.15 mg Epi 1:1000 [BLS]
   • For patients under < 25 kg. For weights ≥ 25 kg, use an EpiPen instead of EpiPen Jr.
   • Inject into anterolateral aspect of thigh, not into the patient’s buttocks.
   • Some solution will remain in the Auto-Injector after use, however the patient has received the correct dosage.

VIII. Onset

   • IVP - 1-2 minutes
   • IM - 5-10 minutes

IX. Duration

   • IVP - 3-5 minutes
   • IM - 20 minutes

X. Precautions

   A. Epinephrine is inactivated by sodium bicarbonate. Flush the IV tubing before and after administration of sodium bicarbonate or establish a second venous access site.

   B. There is a high incidence of cardiovascular side effects with epinephrine use. Monitor blood pressure, pulse and ECG rhythm frequently after administration.

XI. Note

   A. The concentration of epinephrine (1:1000 or 1:10,000) to be used varies depending on patient age, route and indication. (Table 9-1)

   B. If using 1:1000 concentration for IVP or ET administration, it must be diluted with NS to produce a minimum volume of 5 ml for adults and 2 ml for pediatric patients.

Table 9-1: Epinephrine Concentration Chart

<table>
<thead>
<tr>
<th>Age/Route</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adult IV/IO 1st Dose</td>
<td>1:10,000</td>
</tr>
<tr>
<td>Pediatric IV/IO</td>
<td>1:10,000</td>
</tr>
<tr>
<td>Adult IV/IO after 1st Dose / Adult ET</td>
<td>1:1000</td>
</tr>
<tr>
<td>Adult/Ped. IM (anaphylaxis)</td>
<td>1:1000</td>
</tr>
<tr>
<td>Neonatal / Pediatric ET</td>
<td>1:1000</td>
</tr>
<tr>
<td>Pediatric Nebulizer (Croup/Bronchiolitis)</td>
<td>1:1000</td>
</tr>
</tbody>
</table>