Procedure Guidelines

<table>
<thead>
<tr>
<th>Protocol Title:</th>
<th>Intravenous Cannulation</th>
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<tr>
<td>Original Adoption Date:</td>
<td>08/2000</td>
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<tr>
<td>Past Protocol Updates</td>
<td>08/2000</td>
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<tr>
<td>Date of Most Recent Update:</td>
<td>December 26, 2013</td>
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<tr>
<td>Medical Director</td>
<td>Chad Torstenson M.D.</td>
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Indications:
1. Trauma: To replace lost fluids, electrolytes, or blood products
2. Medical: To maintain immediate access to the circulatory system for the administration of medications

Contraindications:
None

Possible Complications:
1. Pain at puncture site
2. Hematoma or infiltration
3. Local infection
4. Catheter shear
5. Inadvertent arterial puncture
6. Circulatory overload
7. Thrombophlebitis
8. Air embolism

Procedure:
1. Locate suitable site.
2. Place a constricting band to halt venous return if necessary, without obstructing arterial flow.
3. Locate a suitable vein.
4. Cleanse the site.
5. Insert needle and catheter. With the bevel up, enter the skin at about a 30-45 degree angle until you feel the needle pop into the vein or see a flashback of blood. Then reduce the angle with the skin and ease the catheter about 1 cm further.
6. While holding the needle hub, gently advance the catheter. Continue advancement until the catheter hub is about 1 cm from site.
7. Place one finger firmly on the vein just above the end of the catheter to occlude blood flow while you withdraw the needle.
8. Hold the catheter firmly in place and attach the IV administration set, allow the fluid to run.
9. Secure the catheter with tape or device.
10. Monitor for infiltration, local irritation.