Procedure Competency Assessment Tool – Umbilical Vein Cannulation (Neonatal)

Provider: ____________________________ Date: __________

How many of this procedure have you completed thus far? ________________

Please circle the descriptor corresponding to the candidate’s performance in each category, irrespective of the training level.

### Indication/Informed Consent:

<table>
<thead>
<tr>
<th>Novice</th>
<th>Competent</th>
<th>Expert</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not sure of the patient’s history, context of the procedure, or has</td>
<td>Understands the general indications, contraindications, potential</td>
<td>Clearly articulates the clinical value, potential complications, and</td>
</tr>
<tr>
<td>knowledge gaps in procedure contraindications or potential complications</td>
<td>complications, and clinical value of procedure; able to explain to</td>
<td>alternatives; able to accurately answer all questions to obtain</td>
</tr>
<tr>
<td></td>
<td>parent/guardian</td>
<td>informed consent</td>
</tr>
</tbody>
</table>

### Knowledge of Specific Procedure:

<table>
<thead>
<tr>
<th>Novice</th>
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<th>Expert</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deficient knowledge; unable to articulate procedure steps</td>
<td>Able to articulate all important steps of procedure</td>
<td>Demonstrates familiarity with all aspects of procedure</td>
</tr>
</tbody>
</table>

### Procedure Setup:

<table>
<thead>
<tr>
<th>Novice</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Does not gather required supplies, poor catheter selection, or does</td>
<td>Gathers key instruments and supplies; selects appropriate catheter size;</td>
<td>Anticipates supplies needed for unexpected complications; ergonomic</td>
</tr>
<tr>
<td>not properly identify landmarks</td>
<td>maintains sterile technique</td>
<td>setup of all instruments and supplies</td>
</tr>
</tbody>
</table>

### Catheter Positioning:

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>Corrections needed to properly identify vein or direct catheter to</td>
<td>Independently identifies, dilates, and cannulates umbilical vein to</td>
<td>Easily and efficiently cannulates vein to appropriate depth; appropriately and independently secures catheter in place</td>
</tr>
<tr>
<td>appropriate depth</td>
<td>appropriate depth</td>
<td></td>
</tr>
</tbody>
</table>

### Procedure Flow and Efficiency:

<table>
<thead>
<tr>
<th>Novice</th>
<th>Competent</th>
<th>Expert</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequently stops procedure and seems unsure of next move; many</td>
<td>Demonstrates some forward planning with reasonable progression of procedure; efficient time/motion but some unnecessary moves</td>
<td>Obviously plans course of procedure with effortless flow from one move to the next; clear economy of movement and maximum efficiency</td>
</tr>
<tr>
<td>unnecessary moves</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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### Instrument Handling:

<table>
<thead>
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<th>Expert</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repeatedly makes tentative or awkward moves with instruments by inappropriate use of instruments</td>
<td>Competent use of instruments but occasionally appears stiff, awkward, or uncertain</td>
<td>Fluid moves with instruments without awkwardness; comfortable with application and extraction</td>
</tr>
</tbody>
</table>

### Management of Complications: [ ] Not Applicable

<table>
<thead>
<tr>
<th>Novice</th>
<th>Competent</th>
<th>Expert</th>
</tr>
</thead>
<tbody>
<tr>
<td>Does not recognize or appropriately address developing complication, or does not appropriately halt procedure with failed attempts</td>
<td>Recognizes and appropriately addresses developing complication; halts the procedure appropriately</td>
<td>Immediately recognizes developing complication; manages with precise direction and without hesitation</td>
</tr>
</tbody>
</table>

**Overall on this task did the provider demonstrate competency to perform this procedure independently?**

Yes ______ No ______

**Comments:**

__________________________________________________________

__________________________________________________________

__________________________________________________________

**Attending Name (Print):** ____________________________  **Signature/Date:** ____________________________