PROTOCOL: PULSE OXIMETER OXYGEN SATURATION MEASUREMENT

I. Purpose: Non-invasive monitoring of the oxygen saturation of arterial blood.

II. Responsibility:

A. Training: Training will be conducted by a licensed RN or an LPN working under the direction of an RN who holds a current license in Connecticut.

B. Performance:
   1. Direct care staff who have completed:
      a. baseline competency training checklist of DDS
      b. procedure task specific training
   2. Trained staff will follow individual procedural guidelines including notifying the licensed nurse as indicated

C. Monitoring:
   1. The delegating RN or an LPN working under the direction of an RN
   2. Trained staff performing the task under the clinical direction of the licensed nurse will notify the nurse of issues and/or outcomes as directed by the nurse.

D. Documentation:
   1. Individuals who perform the tasks will record all pertinent information as instructed by the RN
   2. RN will ensure agency compliance with required documentation.

III. Training to Include:

A. Initial: overview of the procedure, its purpose. Demonstration of techniques by RN and return demonstration by the student.

B. Documentation of Training and Monitoring:
   1. Training: RN completes training record of staff on “DDS Nursing Delegation Procedure Performance Evaluation Form”.
   2. Monitoring: RN completes DDS “Nursing Delegation Task Competency Monitoring Form”

C. Frequency of Monitoring:
   1. Staff will be monitored in their proficiency at this skill as determined by the RN, but not to exceed 12 months.

IV. Related Knowledge:

A. Background of the disease
B. Medical history of the person
PROCEDURE: OXYGEN Saturation Measurement

Name: ___________________________ Baseline pulse ox: ___________________________

Residence: ___________________________________________________________________

Initial Physician’s Order Date: ____ /____ /____ Dates Renewed: ____ /____ /____ (in pencil)

Physician’s Order (if applicable):

________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________

I. Diagnosis: ________________________________________________________________________

II. Purpose of Procedure (why person needs procedure) __________________________________________

________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________

____________________________
________________________________________________________________________________________

Signature of Delegating RN

Date

III. Procedure

<table>
<thead>
<tr>
<th>Task</th>
<th>Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. Gather Equipment:</strong></td>
<td>• Needed to perform testing</td>
</tr>
<tr>
<td>1. Pulse oximeter</td>
<td>• Reduces transfer of microorganisms</td>
</tr>
<tr>
<td>2. Alcohol wipe</td>
<td>• Decreases anxiety and facilitates cooperation</td>
</tr>
<tr>
<td>3. Nail polish removed, if indicated</td>
<td>• Ensures that area is clean &amp; dry</td>
</tr>
<tr>
<td>4. Clean gauze</td>
<td>• Colored nail polish may interfere with pulse oximetry reading</td>
</tr>
<tr>
<td><strong>B. Perform Task:</strong></td>
<td>• Sensors that are not properly aligned will not yield an accurate reading</td>
</tr>
<tr>
<td>1. Wash hands</td>
<td>• The emitting sensors will transmit red and infrared light through the tissue</td>
</tr>
<tr>
<td>2. Explain procedure to individual</td>
<td>• Oxygen saturation will be measured by the data received from these units</td>
</tr>
<tr>
<td>3. Prepare site</td>
<td>• Each beep indicates a pulse detected by the pulse oximeter</td>
</tr>
<tr>
<td>4. Use alcohol wipe to gently cleanse site</td>
<td>• A desired reading would be between 90% and 100%</td>
</tr>
<tr>
<td>5. Remove nail polish from finger, if needed</td>
<td></td>
</tr>
<tr>
<td>6. Apply sensor unit</td>
<td></td>
</tr>
<tr>
<td>7. Place LED/photo detector unit onto chosen site</td>
<td></td>
</tr>
<tr>
<td>8. Ensure proper alignment. The LED/sensors should be directly opposite each other.</td>
<td></td>
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<tr>
<td>9. Turn the pulse oximeter to the ON position</td>
<td></td>
</tr>
<tr>
<td>10. Listen for beep and note bar of light on front of pulse oximeter.</td>
<td></td>
</tr>
<tr>
<td>11. Note reading on the display area.</td>
<td></td>
</tr>
<tr>
<td>12. Report reading to nurse as per established parameters</td>
<td></td>
</tr>
</tbody>
</table>

| **C. Other:** | • To prevent spread of infection |
| 1. Wash hands | |

| **D. Clean Equipment:** | • Reduces the transfer of microorganisms |
| 1. Utilize alcohol wipe or saturate clean gauze with alcohol | |
| 2. Wipe all surfaces of sensor and cable | |
3. Dry all surfaces with clean gauze

### E. Documentation

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Date and time</td>
</tr>
<tr>
<td>2.</td>
<td>Location of sensor</td>
</tr>
<tr>
<td>3.</td>
<td>Percentage of oxygen saturation</td>
</tr>
<tr>
<td>4.</td>
<td>Percentage of oxygen (or room air) client is receiving</td>
</tr>
<tr>
<td>5.</td>
<td>Any reporting/interventions that took place</td>
</tr>
</tbody>
</table>

- No task is completed until documentation & reporting occurs

**PLEASE NOTE:** NO TASK IS CONSIDERED COMPLETED UNTIL DOCUMENTATION AND REQUIRED REPORTING OCCURS. ANY CHANGE OR VARIATION FROM THE INDIVIDUAL’S BASELINE SHOULD BE REPORTED PROMPTLY TO THE NURSE.