Implementing High Flow Nasal Cannula Therapy in Acute Care Settings – This May Get Heated!

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Sunday, July 23, 2017, 10:15 - 11:30 am

Disclosure

We have no relevant financial relationships with the manufacturers of any commercial products and/or provider of commercial services discussed in this CME activity.

We do not intend to discuss an unapproved/investigative use of a commercial product/device in this presentation.
Learning Objectives

• Review current evidence on the use of high flow nasal cannula (HFNC) in pediatric wards.
• Compare practice patterns of high flow nasal cannula use outside of intensive care units in both university-affiliated and community hospital settings.
• Build a tool-kit for a robust implementation plan for HFNC in pediatric wards.

Session Timeline

10:15 – 10:20 Introduction
10:20 – 10:30 HFNC Practice Patterns
10:30 – 10:50 Breakout Session # 1
10:55 – 11:15 Breakout Session # 2
11:20 – 11:30 Conclusion
HFNC outside the ICU Practice Patterns

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Can you implement HFNC outside the ICU?
What’s going to tip the scale at your institution?

HFNC Outcomes

- **ICU Utilization**
  - Instituting a HFNC guideline outside the ICU may be associated with increased use of HFNC without a change in length of stay, or ICU transfer rate
  - Patients who will require ICU admission can be identified in 1st hour of admission by HR and RR changes.
HFNC Outcomes

• Predictors of HFNC Failure
  – High FiO2 needs, prior intubation, and cardiac co-morbidities are associated with HFNC failure
  – Hypercarbia and lesser degree of tachypnea at onset of HFNC along with no change after HFNC initiation may be associated with HFNC failure

HFNC Outcomes

• Decreasing Intubation Rates
  – Early use of HFNC in the ED may reduce intubation rates
  – HFNC outside the ICU may result in a trend toward decreasing intubation
  – HFNC use in the ICU reduces the need for intubation
Building Your Team Without Losing Your Mind!

Who is in the audience?

What stage are you?
- Planning
- Implementation
- Post-Implementation

What kind of setting?
- Community
- University Affiliated

Saturday, July 22, 2017, 4:15 - 5:30 pm
Breakout Sessions

• Rotate through 2 of 4 facilitated small group discussions for 20 min each
  - Topic 1 with Vineeta: Defining a Safe Population and Safety Metrics
  - Topic 2 with Matt: Building a Project Team and Leadership Support
  - Topic 3 with Tina: Developing Staff Education Strategies
  - Topic 4 with Irini & Nicole: Developing and Evaluating a HFNC Protocol

• Large Group Report-Out (5 min) by each workshop leader to summarize highlights from discussion

Breakout Session 1
10:30 – 10:50

Please refer to worksheet
### Table 1: Defining a Safe Population and Setting/Identifying Safety Metrics

<table>
<thead>
<tr>
<th>Task</th>
<th>Topic</th>
<th>Action Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>How to define the ideal HNC patient population and setting? What safety metrics should be considered for implementation?</td>
<td>Key Drivers, Stakeholders, Action Items</td>
</tr>
<tr>
<td>2.</td>
<td>Who gets HNC at your institution? How can we consistently access it?</td>
<td>Key Drivers, Stakeholders, Action Items</td>
</tr>
<tr>
<td>3.</td>
<td>What data is already being tracked? What may you want to track in the future?</td>
<td>Key Drivers, Stakeholders, Action Items</td>
</tr>
<tr>
<td>4.</td>
<td>What NQF/AVC staffing models exist for HNC patients? What changes may be needed?</td>
<td>Key Drivers, Stakeholders, Action Items</td>
</tr>
</tbody>
</table>

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**Breakout Session 2**

**10:55 – 11:15 am**

Please refer to worksheet
Report Out

- **Topic 1 with Vineeta**: Defining a Safe Population and Safety Metrics
- **Topic 2 with Matt**: Building a Project Team and Leadership Support
- **Topic 3 with Tina**: Developing Staff Education Strategies
- **Topic 4 with Irini & Nicole**: Developing and Evaluating a HFNC Protocol

Take Home Points

- Start at the top and secure leadership commitment
- Build rapport in small groups
  - Identify allies and adversaries
- Review recent safety events/RCAs to get a pulse
- What is the data these leaders want to see?
- Talk with Finance and Case Management Departments
Questions/Comments?

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