Introduction

High flow oxygen therapy (HFOT) is a form of respiratory support used in the hospital where humidified oxygen is delivered to a patient at rates of up to 60L/min, opposed to the max flow of 15L/min possible with standard oxygen delivery methods.

AIM

Analyse patients treated with HFOT on ICU over 4 months. We recorded

- Diagnosis
- Time of therapy
- Escalation to intubation
- Requirement of ICU for other support

In order to recognise patients who could have been treated on wards if High flow oxygen available.

METHODS

Retrospective review of patients who received HFOT in ICU over 16 weeks (Nov-February 2018) and a prospective over 4 weeks (15 April - 15 May 2018)

RESULTS

Total number of patients receiving HOFT: 62. The mean duration of HOFT: 3 days

7(11.3%) cases finish with intubation

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>Patient No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pneumonia</td>
<td>21</td>
</tr>
<tr>
<td>Influenza</td>
<td>11</td>
</tr>
<tr>
<td>COPD/Bronchiectasis/Asthma</td>
<td>7</td>
</tr>
<tr>
<td>Surgical</td>
<td>10</td>
</tr>
<tr>
<td>LVF/MI</td>
<td>3</td>
</tr>
<tr>
<td>PE</td>
<td>2</td>
</tr>
<tr>
<td>Other</td>
<td>10</td>
</tr>
</tbody>
</table>

CONCLUSION

HFOT was used to treat respiratory failure in different aetiologies. 27 cases of 62 (43.5%), were medical (not post-op) patients who did not require other ITU-specific support, and could have been managed on wards if HFOT available.

ACTION

We aim to discuss with ICU and respiratory teams, the use of HFOT outside ICU. This will require education of medical/nursing staff about its use, as well as protocols with clear indication for use, starting, stopping and escalating treatment.

References:


