Our Lady’s Children’s Hospital
Continuous Positive Airways Pressure algorithm and recording sheet

This document must be used in conjunction with the Respiratory Observation chart

<table>
<thead>
<tr>
<th>Time</th>
<th>Settings checked with HCR</th>
<th>CPAP</th>
<th>Leak Litres/min</th>
<th>Humidifier Temp (0 C)</th>
<th>Humidifier water (Y/N)</th>
<th>Work of breathing As per observation chart</th>
<th>Snoring (Mask on or off)</th>
<th>Time CPAP tolerated</th>
<th>Markings on skin</th>
<th>Initials NMBI</th>
</tr>
</thead>
</table>

Created by CPAP/BIPAP group March 2015
CPAP Algorithm

1. Turn on the machine and check prescribed CPAP against the prescription in the HCR.
2. Change water in chamber daily. Ensure water is filled to the marked level.
3. Apply facemask to child and ensure it is a snug fit by adjusting the straps on both sides of face at the same time. (refer to DVD)
4. Connect facemask to machine tubing and ensure you turn the machine on once mask is applied to the child's face.
5. Check for excessive air leak.
6. Check facial pressure areas.

If CPAP setting is incorrect contact Clinical Engineering or respiratory consultant.

Complete CPAP recording sheet with usual Respiratory Observation sheet as prescribed noting:
- Snoring
- Excess air leak
- Agitation
- Desaturation

Check exhalation port present and patent.

Check anti asphyxiation port in situ and patent for full and total facemasks.

Excessive air leak:
- Loosen straps on both sides of face and readjust
- Tighten straps equally on both sides of face to a snug fit but not over tight
- Ask Clinical engineering to review mask size

Skin integrity. Refer to DVD:
- Inspect face daily for signs of skin breakdown
- Apply duoderm extra thin to red areas prior to commencing CPAP
- Review face mask application technique
- Ask Clinical Engineering to review mask size

Created by AM, CNF St Peters ward, Oct 2014