



## CLINICAL GUIDELINE

### Head Box Oxygen

<b>Scope (Staff):</b>	Nursing and Medical Staff
<b>Scope (Area):</b>	NICU KEMH, NICU PCH, NETS WA

This document should be read in conjunction with this [DISCLAIMER](#)

#### Aim

To provide adequate supplemental oxygen to maintain infant's oxygen saturation within the required range for gestational age; for infants with suspected or proven COVID-19.

#### Risks

- Transmission of COVID-19. Staff to wear correct PPE, and adhere to correct donning and doffing of PPE as per [HDWA Personal and Protective Equipment Don and Doff Sequence](#) and [HDWA COVID-19 PPE Policy](#)

#### Equipment


- Perspex head box
- Oxygen and air high flow meter (1-15LPM)
- Oxygen and air tubing with Y-connector
- Oxygen analyser
- Consider humidification if long term ongoing care, or thermoregulation concerns.

#### Procedure

- Calibrate oxygen analyser prior to commencement of head box oxygen. Ensure that the oxygen calibrator is positioned close the infant's face.
- Set up head box with air/oxygen tubing delivering a minimum of 6-8L/min of gas into the head box.
- Titrate gases until delivering the desired oxygen percentage to maintain the infant's oxygen saturation within the desired range. Refer to [Monitoring and Observation Frequency guideline](#).
  - Gases delivered to the infant should be directed away from the infant's head to prevent the infant from becoming cold. A hat should also be placed on the infant's head if temperature regulation is problematic.
- The infant is to have continuous cardiorespiratory monitoring.
- Monitor oxygen requirements and work of breathing. Document and report to shift coordinator and medical staff any increase in work of breathing or oxygen requirement.
- Position infant prone if appropriate, utilising appropriate position aids.
- If head box is to be removed for procedures or access, ensure adequate oxygen delivery is maintained via nasal prongs or mask.
  - If infant nursed in an incubator, consider the use of cot oxygen (at the same percentage) as well as oxygen into head box.

<b>Related CAHS internal policies, procedures and guidelines</b>
Neonatology guideline <ul style="list-style-type: none"> <li>• <a href="#">Monitoring and Observation Frequency guideline</a></li> </ul>

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