

Resources for simulation participants



Children's Health Queensland
Asthma Guideline



Managing acute asthma
Dr Simon Craig at DFTB



IV Magnesium Sulphate as a
Loading dose infusion



Nasal High Flow Therapy
using the Airvo™ 2

Mask options for BiPAP in children

BiPAP is rarely commenced in children, and as such many emergencies may face confusion when needing to initiate it in a child due to unfamiliarity, but also due to a lack of paediatric sized BiPAP masks.

BiPAP can be a life saving intervention that may mitigate the need to intubate an asthmatic patient and so it's important to still be able to deliver for children.

While paediatric BiPAP masks can be ordered, alternative work arounds include:

1. Small Nivairo + mask for larger children.

For an older child, a small adult mask may be suitable. Watch this video: [Fitting the F&P Nivairo NIV full face mask - YouTube](#) to see how to apply.

2. Second Option : Utilising a Face Mask

Standard anaesthetic masks are frequently used in mixed Eds for administration of procedural sedation such as Quantiflex. They form an appropriate seal and can be easily attached to the ventilator circuit. As such they can be an effective work around to administer BiPAP without an official paediatric mask.

The four point attachments can be used in conjunction with a fabric headgear to create a suitable sized BiPAP attachment. The weight of the vent circuit sitting horizontally from the mask tends to weigh down with time and disrupt the seal, so an elbow adaptor can be attached to angle the vent circuit down (not pictured).

