

Non-invasive ventilation interface decision tool



Patient requirement for Non-invasive respiratory support identified



Discussion with the clinical team regarding appropriate therapy and interface

Reasons to consider nasal interface

- Frequent suction requirements would interrupt therapy more than once an hour
- Patient is currently prone to vomiting
- Patient will find it extremely difficult to settle without a dummy.

Reasons to consider oronasal interface

- Success of therapy relies heavily on the delivery of reliable pressure
- A large leak is expected from the mouth which will compromise success of therapy
- None of the indications for nasal interface apply

Nasal Mask selection tool

Oronasal/Full face Mask selection tool

Before opening check sizing of mask with available sizing tools and sample masks and confirm selection is appropriate with a member of senior nursing team



Non-invasive ventilation interface decision tool- Nasal



Infant



Toddler



*Pre-
schooler*



School age



Adolescent

Option 1
Weight range here

Name and size of
mask



Option 2
Weight range here

Name and size of
mask



Option 1
Weight range here

Name and size of
mask



Option 2
Weight range here

Name and size of
mask



Option 1
Weight range here

Name and size of
mask



Option 2
Weight range here

Name and size of
mask



Option 1
Weight range here

Name and size of
mask



Option 2
Weight range here

Name and size of
mask



Option 1
Weight range here

Name and size of
mask



Option 2
Weight range here

Name and size of
mask



Non-invasive ventilation interface decision tool- Oronasal/Full face



Infant



Toddler



Pre-schooler




School age



Adolescent


Option 1
Weight range here

Name and size of mask




Option 1
Weight range here

Name and size of mask




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Option 2
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Name and size of mask




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Option 2
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Name and size of mask




Option 2
Weight range here

Name and size of mask



Option 2
Weight range here

Name and size of mask



Top tips for achieving a good fit



- Follow decision tool and seek senior support
- 2 person technique to apply mask
- If you can only achieve a good seal by tightening the interface to the point where it looks uncomfortable, you may need to reconsider sizing or mask choice.
- Although you should aim for a good seal, most ventilators can overcome a degree of leak so excessively tightening masks is unnecessary.
- The use of Siltape, Duoderm and other skin protection is **not required as standard**. Good practice in relation to mouth care, skin care and regular pressure relieving is often adequate.
- Dirt oils and residues can add to leak, regularly cleaning the mask as per manufacturer instructions will avoid this.
- If the patient has a high flow therapy set then keep this for intermittent use when performing pressure relief , skin and mouth care