

Pediatric HFNC Survey

Please complete the survey on high-flow nasal cannula (HFNC) use below. Your responses will be confidential and will not be able to be linked to you or your institution. By completing the survey you are consenting for your responses to be used in the analysis of this survey.

For the purposes of this survey, HFNC is defined as any heated gas delivered by nasal cannula. Also, please include responses only in relation to patients who are not in the neonatal environment.

Please contact Andrew Miller BSRT RRT-ACCS, RRT-NPS at Millera19@email.chop.edu with any questions or additional comments.

Thank you!

Number of total pediatric hospital beds _____

Number of pediatric (do not include neonatal) ICU beds _____

Is your hospital a standalone children's hospital
 Yes
 No

Is your facility a tertiary or academic medical center?
 Yes
 No

What is your role within your department?
 Staff Therapist
 Supervisor/Clinical Specialist
 Manager/Director
 Other

Other _____

Do you utilize high-flow nasal cannula (HFNC) at your facility?
 Yes
 No

What patient populations use HFNC in your facility?
 Neonatal
 Pediatric
 Adult

Where in your facility is HFNC used? (Select all that apply)
 Emergency department
 Regular floors
 Step-down or intermediate care
 ICU

How does your facility define HFNC?
 Any heated/humidified and blended gas delivered via nasal cannula
 Heated gas delivered via Nasal cannula at flow greater or equal to the patient's inspiratory demand
 Nasal cannula flow above pre-defined thresholds based on the patient's age or weight
 Other-please comment

How is inspiratory flow determined?

What is/are the flow thresholds or criteria for HFNC?

Comment

What parameters are monitored during RT assessments?
(select all that apply)

- Respiratory rate
- Heart rate
- Heart rate via continuous ECG monitor
- Work of breathing
- Blood pressure
- Pulse oximetry (SpO2)
- Transcutaneous CO2
- Near infrared spectroscopy (NIRS)

How frequently are patients being assessed by an RT in the ED?

- Every 2 hours
- Every 4 hours
- Every 6 hours
- Other

How frequently are patients being assessed by respiratory therapy on step-down or intermediate care?

- Every 2 hours
- Every 4 hours
- Every 6 hours
- Other

How frequently are patients being assessed by respiratory therapy on general floors?

- Every 2 hours
- Every 4 hours
- Every 6 hours
- Other

How frequently are patients being assessed by respiratory therapy while in the ICU?

- Every 2 hours
- Every 4 hours
- Every 6 hours
- Other

In which disease states is HFNC utilized?

- Bronchiolitis
- Asthma
- Pneumonia
- Post-operative
- Post-operative cardiac
- ARDS
- Other (please specify)

Comment

What method is used to set the initial flow rate?

- Formula based
- Weight based (e.g. 1 L/kg/min)
- Age based (different flow for different ages)
- Per provider orders
- Per RT driven protocol
- Other

Comment

How is flow rate adjusted?

- Based upon vital signs (respiratory rate, heart rate, work of breathing)
 Per provider orders
 Per RT driven protocol
 Other

Comment

In general, when a patient's on HFNC oxygenation is below goal, what do you do first?

- Increase flow rate
 Increase FiO2
 Other (comment)

Comment

In general, what is the next step if a patient fails HFNC?

- CPAP
 Noninvasive Ventilation
 Intubation
 Other

Comment

Do you deliver aerosol therapy to patients receiving HFNC?

- Yes
 No

When delivering aerosolized medications to patients receiving HFNC do you (select all that apply):

- Deliver aerosol through HFNC set-up with vibrating mesh nebulizer
 Deliver aerosol through HFNC set-up with jet nebulizer
 Take patient off HFNC and deliver treatment with MDI or jet nebulizer
 Reduce HFNC flow

What medications do you deliver via HFNC? (select all that apply)

- Beta2 agonists (albuterol, levalbuterol, salbutamol)
 Mucolytics (dornase alfa, acetylcysteine, hypertonic saline)
 Corticosteroids (budesonide)
 Other

Comment

Where do you place the nebulizer in the HFNC set-up?

- On the dry side of the humidifier
 On the wet side of the humidifier
 Between cannula and circuit
 Other

Comment

Please enter any general comments about HFNC practice in your facility which were not part of our survey:
