

How to ventilate non-invasively in a DGH: Acute & Chronic NIV MASTERCLASS

7TH KING'S JOHN PRICE PAEDIATRIC RESPIRATORY CONFERENCE,
9th July 2021

Overview

This masterclass will give attendees the opportunity to explore the application of acute and chronic non-invasive ventilation in the DGH. Morning sessions will cover the theory and physiology of NIV followed by equipment demonstrations. In the afternoon, you will be invited to join either the acute or chronic streams. With theory relevant to your preferred stream and the opportunity to apply and consolidate knowledge in the clinical scenario sessions; the acute stream will address NIV in the acutely deteriorating patient. Meanwhile the chronic stream will cover set up and management of patients requiring NIV mid to long term.

Target audience

Paediatric trainees | Paediatric Emergency medicine trainees | Advanced Nurse Practitioners | Paediatric nurses | Paediatric consultants | Specialist nurses / CNS

Learning aims, objectives and outcomes

- Introduction of role of acute NIV and Humidified High flow Nasal cannula (HHFNC) O2 in the DGH, in acutely unwell patients and those requiring chronic NIV / LTV
- Discussion of applied NIV physiology
- Provide an update on different forms of acute & chronic LTV
- Provide an update on advances in HHFNC O2 and its role in the acutely unwell child
- Provide practical skills around commencing and using NIV in the acute and chronic patients

Faculty:

Billie Coverly
Damian Griffiths
Kat Harman
Kamal Patel
Lynda Verhulst
Marti Pons
Simona Turcu
Tamsyn Hernandez

09:00	Welcome and Introduction Billie
9.15-09:45	Role of acute NIV ,chronic NIV & HHFNC in the DGH Faculty: Kamal Topics to covered: <ul style="list-style-type: none">• Current Practices & Evidence• Indications/Contraindications in the DGH• Types of NIV• Different Modes of NIV
09:45-10:15	Applied NIV Physiology Faculty: Marti Pons
10:15-10:25	Stretching break

10:25 – 10:55	From pathophysiology to practicalities: Acute NIV ,chronic NIV & HHFNC in the DGH Faculty: Kamal	
	Topics to covered: <ul style="list-style-type: none"> • Common Problems • Analysis of Respiratory failure • Monitoring • Weaning V's escalation 	
10:55- 11.05	Stretching Break.	
11.05- 11.25	Challenges with NIV in the Community- Cara Coleman	
11.25- 12:10	Hands on / Practicalities	
	Equipment Faculty: Billie and Tamsyn	
	<ul style="list-style-type: none"> • Ventilator Choices / Modes • Ventilator Familiarisation 	
12:10- 12:50	Mask Fitting / Advantages & Disadvantages of different masks <ul style="list-style-type: none"> • Faculty: Garry Rendal 	
	<ul style="list-style-type: none"> • Mask fitting/ Interfaces: Choice & fitting 	
12.50 - 13.30	Lunch	
	Delegate to choose one of the following streams (acute or chronic)	
13:30 - 16:30	Acute stream Case based discussions / Clinical scenario Faculty: Marti	Chronic Stream Case based discussions / Clinical scenario Chronic NIV / LTV Faculty: Simona/ Kat
13:30- 14:25	Suggested topics to cover: <ul style="list-style-type: none"> • Current Practice & Evidence • Acute CPAP in DGH or Kamal • Acute NIV in DGH • HHFNC O2 in DGH • Asynchrony 	Suggested topics to cover: <ul style="list-style-type: none"> • Current Practice & Evidence • Asynchrony • Initiation /Weaning • When to sleep study • Assessing a child on NIV in the community
14:25- 14:30	Stretching Break	

14:30-15:30	<p>Suggested topics to cover:</p> <ul style="list-style-type: none"> • How to commence • Analysis of failure / • Common Problems • Monitoring • Stepping down 	<p>Clinical scenarios Topics covered:</p> <ul style="list-style-type: none"> • Trouble shooting • Practicalities of discharging on NIV • Common Problems and compliance • Pressure sore management • Secretions management • Humidification and dry circuits
15:30-15:35	Stretching Break	
15:35-16:30	Clinical scenarios Lynda	Clinical scenarios Billie / Simona/ Kat
16:30	Close	