Links to some of the latest information and resources on Nasal High Flow (NHF) use with COVID-19 patients

Recent evidence-based COVID-19 guidelines
Clinical webinars
Infection risk & uncertainty
Articles, studies, systematic reviews & opinions
Miscellaneous
Recent evidence-based COVID-19 guidelines
(MULTI-REGIONAL)

  (JAN 2021 UPDATE) GLOBAL

- NIH: COVID-19 treatment guidelines – oxygenation and ventilation
  (DEC 2020 UPDATE) USA

- Surviving Sepsis Campaign: Guidelines on the management of adults with COVID-19 in the ICU.
  (JAN 2021 UPDATE) EUROPE AND USA COMBINED

- Surviving Sepsis Campaign: Recommendation chart
  (JAN 2021 UPDATE) EUROPE AND USA COMBINED

  (OCT 2020 UPDATE) AUSTRALIA AND NEW ZEALAND

  AUSTRALIA AND NEW ZEALAND

  CHINA

  CHINA

  EUROPE

  USA

  GLOBAL

Click links for further reading on COVID-19 guidelines...
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Clinical webinars (MULTI-REGIONAL)

  - USA
  - 5:00 Summary of existing guidelines
  - 7:57 Technical differences and distinctions between NHF and NIV
  - 9:25 Indications for NIV
  - 27:00 NHF discussed
  - 30:10 Aerosol dispersion
  - 48:00 ROX index

- ER Cast: COVID-19 Inside NYC. Dr Reuben Strayer.
  - USA
  - 6:20 PPE discussed
  - 16:20 CPAP pre-oxygenation discussed
  - 18:10 NHF discussed
  - 23:10 Pre-oxygenation with NHF

- Philips: International Learning from COVID-19: EUROPE
  - Webinar Series 2.
    - 31:00 - 1:10:00 Non-invasive respiratory support strategies discussed
    - 1:21:00 Aerosolization discussed (Dr Hui, Hong Kong)
    - 1:26:00 Summary from Dr Mark Elliot (Chair, UK)

- Webinar Series 3.
  - 7:30 Italian experience with CPAP in COVID-19 (Dr Annalisa Carlucci)
  - 19:00 Temple University, USA, experience with NHF and early analysis of data
  - 37:00 Dr Nick Hart (London) discusses intubation strategies, pathophysiology of COVID-19 and oxygen supply
  - 1:16:00 Dr Wolfram Windisch (Germany) describes experience

- Webinar Series 4.
  - 1:34:50 Aerosolization and cross infection discussed

- FPH: Respiratory Care Webinar 1: Nasal high flow - moving forward with COVID-19, Dr Anil Patel.
  - UK
  - Aerosolization discussed.

- FPH: Respiratory Care Webinar 2: HFNO outside ICU, safety and effectiveness, Dr Audrey Créac’hcadec.
  - FRANCE
  - Local experience of NHF use in COVID-19 patients outside the ICU.

- FPH: Respiratory Care Webinar 3: High-flow nasal cannula for COVID-19 patients, Dr Jie Li.
  - USA
  - Aerosol dispersion in the hospital setting.

- FPH: Respiratory Care Webinar Discussion: Dr Nicholas Hart, Dr Alison Armstrong, Dr Swapna Mandel and Dr Chris Carlin.
  - UK
  - Value of NHF in preparation for the second wave of COVID-19 in the UK.

- FPH: NHF and COVID-19 JAPAN AND USA
  - From start: NHF as a respiratory support (Pr Gerard Criner)
  - 22:38 NHF and bio-aerosol dispersion (Dr Jie Li)
  - 36:25 Aerosol dispersion under oxygen delivery modes (Dr Kazuko Yamamoto)
  - 45:40 Video of particle dispersion (Takazono T et al)

Click links to view further information on COVID-19.
Infection risk & uncertainty (MULTI-REGIONAL)

Click links below for further reading on COVID-19 and aerosolization of the virus.

- WHO: Modes of transmission of virus causing COVID-19: implications for IPC precaution recommendations. GLOBAL
- Wilson N et al. The effect of respiratory activity, ventilatory therapy and facemasks on total aerosol emissions. MedRxiv pre-print. AUSTRALIA
- Takazono T et al. Effects of surgical masks on droplet dispersion under various oxygen delivery modalities. Critical Care. JAPAN
- Video: Experimental footage of particle dispersion.
- Li J et al. Placing a mask on COVID-19 patients during high-flow nasal cannula therapy reduces aerosol particle dispersion. ERJ Open Res. USA
- Leung C et al. Comparison of high-flow nasal cannula versus oxygen face mask for environmental bacterial contamination in critically ill pneumonia patients. J. Hosp. Infect. HONG KONG
- Li et al. High-flow aerosol dispersing – versus aerosol generating procedures. AJRCCM. USA
- Gaekle N et al. Aerosol generation from the respiratory tract with various modes of oxygen delivery. AJRCCM. USA
- Kaur R et al. Practical strategies to reduce nosocomial transmission to healthcare professionals providing respiratory care to patients with COVID-19. Critical Care. USA
- Kotoda M et al. Assessment of the potential for pathogen dispersal during high-flow nasal therapy. J. Hosp. Infect. JAPAN

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**Articles, studies, systematic reviews & opinions** (MULTI-REGIONAL)

  - USA

  - FRANCE

  - ITALY

  - CHINA

  - FRANCE

  - USA

  - USA

  - USA

  - CHINA

  - FRANCE

  - USA

  - SOUTH AFRICA

  - USA

  - USA

  - USA

* publication reports observations on both NHF outcomes as well as staff infection rates.

= new for this issue

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**Articles, studies, systematic reviews & opinions**

**Miscellaneous**
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**Europe**

**Articles, studies, systematic reviews & opinions** (MULTI-REGIONAL)

  ITALY

  ITALY

  CHINA

  USA

**SYSTEMATIC REVIEW:**

**GLOBAL**

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**ISSUE 4 MARCH 2021**
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GLOBAL

GLOBAL

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**USA AND CANADA**

- FPH: Respiratory Care Webinar 3: High-flow nasal cannula for COVID-19 patients, Dr Jie Li.
- ER Cast: COVID-19 – Inside NYC. Dr Reuben Strayer.
- Li et al. High-flow aerosol dispersing – versus aerosol generating procedures. *AJRCCM.*
- Gaeckle N et al. Aerosol generation from the respiratory tract with various modes of oxygen delivery. *AJRCCM.*
- Kaur R et al. Practical strategies to reduce nosocomial transmission to healthcare professionals providing respiratory care to patients with COVID-19. *Critical Care.*

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**ASIA & PACIFIC**

Click links below for more information on COVID-19...

- **ANZICS: COVID-19 Guidelines – V3.** (OCT 2020 UPDATE)
  AUSTRALIA AND NEW ZEALAND

- **National Health Commission of the People's Republic of China: diagnosis and treatment protocol for COVID-19 patients.**
  CHINA

- **National COVID-19 Clinical Evidence Taskforce: Respiratory support for adults with severe to critical COVID-19.**
  AUSTRALIA AND NEW ZEALAND

- **Handbook of COVID-19 Prevention and Treatment (first affiliated Chinese hospital).**
  CHINA

- **Kotoda M et al. Assessment of the potential for pathogen dispersal during high-flow nasal cannula therapy versus CPAP via different masks.** *Eur. Respir. J.*
  HONG KONG

- **Hui D et al. Exhaled air dispersion during high flow nasal cannula therapy versus CPAP via different masks.** *Eur. Respir. J.*
  HONG KONG

  NEW ZEALAND

- **Takazono T et al. Effects of surgical masks on droplet dispersion under various oxygen delivery modalities.** *Critical Care.*

  CHINA

- **Deng L et al. Outcome of early versus late HFNC in elderly COVID-19 ARDS patients.** *medRxiv.*
  CHINA

- **Wilson N et al. The effect of respiratory activity, ventilatory therapy and facemasks on total aerosol emissions.** *MedRxiv pre-print.*
  AUSTRALIA

  NEW ZEALAND

- **Leung C et al. Comparison of high-flow nasal cannula versus oxygen face mask for environmental bacterial contamination in critically ill pneumonia patients.** *J. Hosp. Infect.*
  HONG KONG

- **Takazono T et al. Effects of surgical masks on droplet dispersion under various oxygen delivery modalities.** *Critical Care.*

- **Video: Experimental footage of particle dispersion.**
  JAPAN

  CHINA

- **Deng L et al. Outcome of early versus late HFNC in elderly COVID-19 ARDS patients.** *medRxiv.*
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EUROPE & AFRICA

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- Surviving Sepsis Campaign: Recommendation chart. EUROPE AND USA

FPH: Respiratory Care webinars
- 1: Nasal high flow - moving forward with COVID-19. UK
- 2: HFNO outside ICU, safety and effectiveness. FRANCE
- Webinar Discussion: NHF and the second wave of COVID-19 in the UK. UK

- Webinar Series 2.
- Webinar Series 3.
- Webinar Series 4.

- Gattinoni L et al. COVID-19 pneumonia: different respiratory treatments for different phenotypes? Intensive Care Med. ITALY
- Gattinoni L et al. COVID-19 pneumonia: ARDS or not? Critical Care. ITALY

- Calligaro et al. The use of NHF for severe COVID-19 in a resource-constrained setting. EClinicalMedicine. SOUTH AFRICA
- Zucman N et al. Using the ROX index to predict outcome of NHF use during COVID-19 AHRF. Intensive Care Med. FRANCE

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GLOBAL

- The Internet Book of Critical Care – COVID podcast #5.
- The Internet Book of Critical Care – COVID podcast #7.

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