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
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**Recent evidence-based COVID-19 guidelines** (MULTI-REGIONAL)

- WHO: Clinical management of SARI when COVID-19 is suspected. [GLOBAL]
- NIH COVID-19 Guidelines. [USA]
- ANZICS: COVID-19 Guidelines – V1. [AUSTRALIA NEW ZEALAND]
- ANZICS: COVID-19 Guidelines – V2. [AUSTRALIA NEW ZEALAND]
- Surviving Sepsis Campaign: Guidelines for COVID-19 management. [EUROPE AND USA COMBINED]
- Society Critical Care Medicine (SCCM) summary video of NHF use in COVID-19 Respiratory Failure. [USA]
- The Internet Book of Critical Care. [GLOBAL]
- Saudi Ministry of Health. Use of high flow nasal cannula in respiratory failure in adult patients with COVID-19 respiratory failure. [MIDDLE EAST]
- Physiotherapy care of patients with COVID-19 - A Brazilian experience. [BRAZIL]
- WHO: TECHNICAL SPECIFICATIONS for invasive and non-invasive ventilators for COVID-19. [GLOBAL]
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Clinical webinars (MULTI-REGIONAL)

- EMCrit - Stop Kneejerk intubating.
  USA
  • 00:44 Early intubation discussed
  • 7:20 Aerosolization discussed

  USA
  • 4:30 Aerosols during coughing and intubation
  • 7:00 NHF and proning discussed

- 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

- Thinking Critical Care - COVID Clinical Discussion with Cameron Kyle-Sidell: NYC ED/ICU Doc in the trenches.
  USA
  • 1:10 Local experience of COVID-19 discussed
  • 12:25 NHF use and “triggers” for intubation

- Q&A with University of Chicago Medicine physicians on the frontlines treating COVID-19.
  USA
  • 8:35 NIV helmet assemblies described
  • 9:30 NHF comments and experience
  • 17:10 CPAP use in COVID-19

- Evidence-based recommendations for preventing nosocomial transmission during respiratory care for COVID-19 patients.
  USA

  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

  EUROPE
  • 7:30 Italian experience with CPAP in COVID-19 (Dr Annalisa Carlucchi)
  • 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
  • 1:46:00 Dr Mark Elliot (Chair, UK) discusses CPAP v NHF in COVID-19 survey results

  EUROPE
  • 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)

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

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

- WHO: Infection prevention and control when coronavirus infection is suspected. GLOBAL
- Whittle, S. et al. Respiratory support for adult patients with COVID-19. JACEP Open. USA
- WHO: Modes of transmission of virus causing COVID-19: implications for IPC precaution recommendations. GLOBAL
- Evidence-based recommendations for preventing nosocomial transmission during respiratory care for COVID-19 patients. The International Society for Aerosols in Medicine. GLOBAL
- Video and slide presentation
- 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. EUROPE
- COVID 19: how to minimize the risk of air dispersion during respiratory support. ITALY
  - Video

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# ISSUES
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AUGUST 2020

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

- Retrospective analysis of COVID-19 patients admitted to Temple University Hospital. USA
- Toronto Centre of Excellence Message to Respiratory Therapists. CANADA
- NY Times: What doctors on the front lines wish they’d known a month ago. USA
- NPR: Ventilators are no panacea for critically ill COVID-19 patients. USA
- NY Times: New Jersey’s first Coronavirus patient. USA
- Hu et al. Application of high-flow nasal cannula in hypoxemic patients with COVID-19: a retrospective cohort study. CHINA
- Deng, L. et al. Outcome of early versus late HFNC in elderly COVID-19 ARDS patients. GLOBAL
- Professor Kim Woo-Ju, Korea University talks about Korea’s approach. KOREA
- Zucman, N. et al. Using the ROX index to predict outcome of NHF use during COVID-19 AHRF. Intensive Care Med. EUROPE
- How I do it: High flow, non-invasive ventilation and awake (non-intubation) proning in COVID-19 patients with respiratory failure. USA

= new for this issue

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**USA AND CANADA**

- NIH COVID-19 Guidelines. USA
- Surviving Sepsis Campaign: Guidelines for COVID-19 management. EUROPE AND USA
- Society Critical Care Medicine: summary video of NHF use in COVID-19 respiratory failure. USA
- NIH COVID-19 Guidelines. USA
- Q&A with University of Chicago Medicine physicians on COVID-19. USA
- EMCrit - Stop Kneejerk intubating. USA
- ATS: Nicholas Hill: Non-invasive techniques in the COVID-19 pandemic. USA
- ER Cast: COVID-19 – Inside NYC. Dr Reuben Strayer. USA
- Thinking Critical Care – COVID Clinical Discussion with NYC ED/ICU Doctor. USA
- FoAMcast - The State of Our Current Respiratory Management. USA
- Whittle, S. et al. Respiratory support for adult patients with COVID-19. JACEP Open. USA
- How I do it: High flow, non-invasive ventilation and awake (non-intubation) proning in COVID-19 patients with respiratory failure. USA
- Retrospective analysis of COVID-19 patients admitted to Temple University Hospital. USA
- Toronto Centre of Excellence Message to Respiratory Therapists. CANADA
- NY Times: What doctors on the front lines wish they'd known a month ago. USA
- TIME: Why ventilators may not be working as well for COVID-19 patients as doctors hoped. USA
- Society Critical Care Medicine: summary video of NHF use in COVID-19 respiratory failure. USA
- Physiotherapy care of patients with COVID-19. BRAZIL
- FOAMcast - The State of Our Current Respiratory Management. USA
- Time Critical Care – COVID Clinical Discussion with NYC ED/ICU Doctor. USA
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ASIA & PACIFIC

- ANZICS: COVID-19 Guidelines – V1. AUSTRALIA NEW ZEALAND
- ANZICS: COVID-19 Guidelines – V2. AUSTRALIA NEW ZEALAND
- Saudi Ministry of Health. Use of high flow nasal cannula in respiratory failure in adult patients with COVID-19 respiratory failure. MIDDLE EAST

Hui, D. et al. Exhaled air dispersion during high flow nasal cannula therapy versus CPAP via different masks. European Respiratory Journal. HONG KONG

Kotoda, M. et al. Assessment of the potential for pathogen dispersal during high-flow nasal therapy. Journal of Hospital Infection. JAPAN

Professor Kim Woo-Ju, Korea University talks about Korea’s approach. KOREA

Hu et al. Application of high-flow nasal cannula in hypoxemic patients with COVID-19: a retrospective cohort study. CHINA


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EUROPE

Surviving Sepsis Campaign: Guidelines for COVID-19 management.


COVID 19: how to minimize the risk of air dispersion during respiratory support.


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- WHO: Clinical management of severe acute respiratory infection when COVID-19 is suspected.
- The Internet Book of Critical Care.
- The Internet Book of Critical Care – Covid podcast #5.
- WHO: Infection prevention and control when coronavirus infection is suspected.
- Evidence-based recommendations for preventing nosocomial transmission during respiratory care for COVID-19 patients. The International Society for Aerosols in Medicine. Video and slide presentation