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

- 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
- F&P Healthcare COVID-19 Resource Center. GLOBAL
Links to some of the latest information and resources on Nasal High Flow (NHF) use with COVID-19 patients

Clinical webinars (all regions)

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

→ FOAMcast - Emergency Medicine
  Core Content: The State of Our Current Respiratory Management.
  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

→ ATS Webinar: Nicholas Hill:
  Non-invasive techniques in the COVID-19 Pandemic.
  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 Carlucci)
  • 19:00 Temple University, USA, experience with NHF and early analysis of data
  • 37:00 Dr Nick Hart (Guys & St Thomas’, 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)

Click links to view further information on COVID-19.

COVID-19 guidelines
Clinical webinars
Updates on aerosolization
Articles, studies and opinions
Links to some of the latest information and resources on Nasal High Flow (NHF) use with COVID-19 patients

**Aerosolization-related (all regions)**

- 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]
- 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]
- Kotoda, M. et al. Assessment of the potential for pathogen dispersal during high-flow nasal therapy. [J Hosp Infect. JAPAN]

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

- COVID-19 guidelines
- Clinical webinars
- Updates on aerosolization
- Articles, studies and opinions
Links to some of the latest information and resources on Nasal High Flow (NHF) use with COVID-19 patients

**Articles, studies and opinions (all regions)**

- Retrospective analysis of COVID-19 patients admitted to Temple University Hospital. USA
- Toronto Centre of Excellence Message to Respiratory Therapists. CANADA
- TIME: Why ventilators may not be working as well for COVID-19 patients as doctors hoped. USA
- NY Times: New Jersey's first Coronavirus patient. USA
- 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
- Gattinoni, L. et al. COVID-19 pneumonia: ARDS or not? *Critical Care.* ITALY
- Professor Kim Woo-Ju, Korea University talks about Korea's approach. KOREA
- NY Times: New Jersey's first Coronavirus patient. USA
- Retrospective analysis of COVID-19 patients admitted to Temple University Hospital. USA
- TIME: Why ventilators may not be working as well for COVID-19 patients as doctors hoped. USA
- Professor Kim Woo-Ju, Korea University talks about Korea's approach. KOREA
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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
- Q&A with University of Chicago Medicine physicians on COVID-19. USA
- ATS: Nicholas Hill: Non-invasive techniques in the COVID-19 pandemic. USA
- Whittle, S. et al. Respiratory support for adult patients with COVID-19. JACEP Open. 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

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**Americas**

- Q&A with University of Chicago Medicine physicians on COVID-19. USA
- ATS: Nicholas Hill: Non-invasive techniques in the COVID-19 pandemic. USA
- Whittle, S. et al. Respiratory support for adult patients with COVID-19. JACEP Open. USA

**Global**

- EMCrit - Stop Kneejerk intubating. 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
- Retrospective analysis of COVID-19 patients admitted to Temple University Hospital. USA
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ASIA & PACIFIC

AUSTRALIA NEW ZEALAND

AUSTRALIA NEW ZEALAND

CHINA

HONG KONG

JAPAN

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

Click links below for more information on COVID-19...
Links to some of the latest information and resources on Nasal High Flow (NHF) use with COVID-19 patients.

EUROPE

- Surviving Sepsis Campaign: Guidelines for COVID-19 management. EUROPE AND USA
- Philips: International Learning from COVID-19 - Webinar Series 2. EUROPE
- Philips: International Learning from COVID-19 - Webinar Series 3. EUROPE
- COVID 19: how to minimize the risk of air dispersion during respiratory support. ITALY
- Leung, C. et al. Comparison of high-flow nasal cannula versus oxygen face mask for environmental bacterial contamination in critically ill pneumonia patients. Journal of Hospital Infection. EUROPE
Links to some of the latest information and resources on Nasal High Flow (NHF) use with COVID-19 patients

GLOBAL

- 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

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