THE LANCET Respiratory Medicine

Supplementary appendix

This appendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

Supplement to: Gorman E, Connolly B, Couper K, et al. Non-invasive respiratory support strategies in COVID-19. *Lancet Respir Med* 2021; published online April 16. http://dx.doi.org/10.1016/S2213-2600(21)00168-5.

Table: Guideline recommendations on non-invasive ventilation strategies for adult patients with COVID-19 acute hypoxaemic respiratory failure

	Organisation	Guideline	Overview of non-invasive respiratory strategies*		
			HFNO	СРАР	BIPAP/NIV
GLOBAL					
	World Health Organization	Clinical management of COVID 19 (May 2020) https://www.who.int/publications/i/item/clinical-management-of-covid-19	Conditional recommendation	Conditional recommendation	Conditional recommendation
	Surviving Sepsis Campaign	Guidelines on the Management of Critically III Adults with Coronavirus Disease 2019 (COVID-19) (January 2021)	Weak recommendation	Not specifically mentioned	Weak recommendation
		https://journals.lww.com/ccmjournal/Abstract/9000/Surviving Sepsis Campaign Guidelines on the.95371.aspx			
UK		psis campaign duidennes on the 93371.aspx			
	NHS England∼	Guidance for the role and use of non-invasive respiratory support in adult patients with COVID-19 (November 2020) https://www.nice.org.uk/guidance/ng191/chapter/Recommendations	Does not support	Supports	Only for hypercapnic acute-on-chronic ventilatory failure
	British Thoracic Society/Intensive Care Society	Respiratory care in patients with Acute Hypoxaemic Respiratory Failure associated with COVID-19 (January 2021) https://www.brit-thoracic.org.uk/covid-19/covid-19-information-for-the-respiratory-community/	Supports (trial enrolment suggested#)	Supports (trial enrolment suggested#)	Not specifically mentioned
	Faculty of Intensive Care Medicine/Intensive Care Society/Association of Anaesthetists/Royal College of Anaesthetists	Clinical guide for the management of critical care for adults with COVID-19 during the coronavirus pandemic (October 2020) https://icmanaesthesiacovid-19.org/clinical-guide-for-the-management-of-critical-care-for-adults-with-covid-19-during-the-coronavirus-pandemic	Supports in the context of trial enrolment#	Supports	Consider for hypercapnic acute-on-chronic ventilatory failure

EUROPE					
	Italian Thoracic Society/Italian Respiratory Society	Managing the respiratory care of patients with COVID-19 (March 2020)	Supports	Supports	Supports
	Cariata da Brassana da sia	https://ers.app.box.com/s/j09ysr2kdhmkcu1ulm8y8dxnosm6yi0h			
	Societe de Pneumologie de Langue Francaise	Procedure for pulmonary management of non-ICU patients hospitalized in the context of the COVID-19 pandemic (April 2020)	Conditional recommendation	Conditional recommendation	Conditional recommendation
		https://splf.fr/covid-19-docs-english-version/			
	Irish Thoracic Society	Respiratory Management of Patients with COVID-19 (January 2021)	Supports	Supports	Only for hypercapnic acute-on-chronic
		https://irishthoracicsociety.com/wp- content/uploads/2020/03/Respiratory-Mgt-Guideline-V2-Jan- 2021.20.01.pdf			ventilatory failure
	German Respiratory Society	Position statement for the State-of-the-Art Application of Respiratory Support in Patients with COVID-19 (June 2020)	Conditional recommendation	Conditional recommendation	Conditional recommendation
		https://www.karger.com/Article/FullText/509104			
		German recommendations for critically ill patients with COVID-19 (April 2020)			
		https://link.springer.com/article/10.1007/s00063-020-00689-w			
AUSTRAL	IA/NEW ZEALAND				
	Australia and New Zealand Intensive Care	COVID-19 Guidelines (January 2021	;	Not specifically mentioned	Conditional recommendation
	Society/National COVID-	https://www.anzics.com.au/coronavirus-guidelines/			
	19 Clinical Evidence	https://covid19evidence.net.au;			
	Taskforce	https://www.anzics.com.au/coronavirus-guidelines/			

NORTH AMERICA						
	Government of Canada	Clinical management of patients with moderate to severe COVID 19 – interim guidance (August 2020)	Conditional recommendation	Not specifically mentioned	Conditional recommendation	
		https://www.canada.ca/en/public-health/services/diseases/2019-novel-coronavirus-infection/clinical-management-covid-19.html				
	National Institutes of Health (NIH)	Care of critically ill patients with COVID-19 (December 2020)	Moderate recommendation	Not specifically mentioned	Moderate recommendation	
		https://www.covid19treatmentguidelines.nih.gov/critical-care/				
ASIA						
	China National Health	Chinese Clinical Guidance for COVID-19 Pneumonia Diagnosis and	Supports	Not specifically	Supports	
	Commission	Treatment (March 2020)		mentioned		
		http://kjfy.meetingchina.org/msite/news/show/cn/3337.html				

Notes: *Most recent version of available guidelines used, please refer to links to source documents for full detail. Where documents are available as formal guidelines, specific wording with regards to strength of recommendation are used. Where documents are available as guidance for clinical pathways, use of the term 'Supports' has been used where a modality is included in the content. "This guidance is now being incorporated into NICE Guideline NG191 COVID-19 rapid guideline: managing COVID-19; as of 12th April 2021 NICE is reviewing the evidence for respiratory support and further recommendations will be added to updated guideline versions available at the link provded. "Perkins GD, Couper K, Connolly B, et al. RECOVERY- Respiratory Support: Respiratory Strategies for patients with suspected or proven COVID-19 respiratory failure; Continuous Positive Airway Pressure, High-flow Nasal Oxygen, and standard care: A structured summary of a study protocol for a randomised controlled trial. *Trials* 2020;21(1):687. doi: 10.1186/s13063-020-04617-3

Abbreviations: HFNO = high-flow nasal oxygen, CPAP = continuous positive airway pressure, BIPAP = bilevel positive airway pressure, NIV = non-invasive ventilation