

Clinical Guideline

COVID-19 THERAPIES FOR ADULT IN-PATIENTS

SETTING Adult patients on in-patient wards

FOR STAFF Doctors, nursing staff, pharmacists

PATIENTS Adult patients presenting with COVID-19 pneumonitis & admitted adult patients

with an incidental finding/hospital-acquired COVID

Therapeutics

COVID-19 therapies for adult patients can be split into three groups: all three groups assume the patient has a new positive COVID-19 test result:

- No new oxygen requirement
- New low flow oxygen requirement attributable to COVID
- New high flow oxygen requirement

(See also COVID-19 therapies July 2024)

No new oxygen requirement

Inclusion criteria:

- New positive COVID-19 test result, and
- Symptom onset within 5-7 days
- Meet the criteria for high risk of progression to severe disease (link to <u>NICE TA878</u>, risk factors for progression to severe COVID)

For Paxlovid therapy only:

- Patient falls into an expanded access group (link to NICE TA878)
- Expanded access group includes:
- People aged 70 years and over, or who have a BMI of 35 kg/m² or more, diabetes or heart failure, and:
 - o are resident in a care home, or
 - are already hospitalised

N.B. The expanded access group also includes those NOT in hospital but is outside of the scope of this guidance. See NICE TA878 for detail. Included in this group are: people aged 85 years and over, those with end-stage heart failure who have a long-term ventricular assistance device, those on the organ transplant list.

Drug	Dose	Duration	N.B.
	Nirmatrelvir 300mg PO BD		Multiple significant drug interactions can
Paxlovid	plus ritonavir 100mg PO		occur –d/w pharmacist or see Paxlovid SPC
(nirmatrelvir	BD	5 days	
plus ritonavir)	(reduce dose of		Complete a form
Oral antiviral	nirmatrelvir to 150mg PO BD if eGFR ≥30-60ml/min)		Do NOT use in pregnancy
If Paxlovid	Loading dose:		Complete a form
inappropriate:	200mg IV OD		
Remdesivir	Followed by:	3 days total	For use in pregnancy, d/w obstetrics, see RCOG guidance

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	100mg IV OD for 2 more days		
If above unsuitable: Sotrovimab	500mg IV infusion	Single dose	Complete a form Sotrovimab is a monoclonal antibody and activity against the current circulating variant is unknown. In pregnancy, d/w obstetrics

Further information:

If time from symptom onset allows and the patient does not require admission, treatment can be given on the next working day by the CMDU service: Refer via:

(There is no expectation that any of the above treatments need to be started out-of-hours for the cohort above [no new oxygen requirement]: drug supply can be sought from pharmacy the following day).

New low-flow oxygen requirement attributable to COVID

Inclusion criteria:

- New positive COVID-19 test result, and
- High risk of severe disease, consider the addition of remdesivir (link to

Drug	Dose	Duration	N.B.
			Offer to all patients needing O2 for
Dexamethasone			COVID pneumonitis
0 1 11/	6mg OD	5 days	
Oral or IV alternative			Use hydrocortisone if dexamethasone
alternative			C/I
			Pregnant: prednisolone 40mg OD for 10
			days
Consider			
addition of	Loading dose:	5 days	Complete a form
Remdesivir	200mg IV OD		
D.C. C. S. I.		May be extended	For use in pregnancy, d/w obstetrics, see RCOG guidance
IV antiviral	Followed by:	to 10 days in	NOOG guidarioc
	100mg IV OD for 4 more days	immunosuppressed	
	ioi 4 more days		

New high flow oxygen requirement

Inclusion criteria:

- New positive COVID-19 test result, and
- New high flow O2 requirement or mechanical ventilation attributable to COVID, or

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Failure to respond to dexamethasone

All treatments below may be considered additive if appropriate for the patient and clinical condition.

Ensure treatment with any immunosuppressive therapy is documented on the discharge summary.

Drug	Dose	Duration	N.B.
Diug	D036	Duration	
Dexamethasone Oral or IV alternative	6mg OD	5 days	Offer to all patients needing O2 for COVID pneumonitis Use hydrocortisone if dexamethasone C/I Pregnant: prednisolone 40mg OD for 10 days
Consider addition of tocilizumab to steroid therapy, particularly if CRP >75mg/L Tocilizumab IV infusion MAb	8mg/kg (see weight banded dosing in appendix 1)	Single dose	 Do not administer if: Thrombocytopaenia (platelets <50x10⁹/L) Neutropaenia (<1x10⁹/L) Liver enzymes ≥ 10x ULN Pregnancy- do not use, use effective contraception for up to 3 months after treatment see for breast-feeding advice & further cautions (no evidence of bacterial or other viral infection, pre-existing condition or treatment causing immunosuppression) (Document batch numbers in clinical notes) Complete a
Consider addition of: Baricitinib JAK 1 & 2 inhibitor PO therapy	4mg PO OD Renal dose: 2mg PO once daily (eGFR 30 to <60mL/min/1.73m²) OR 2mg PO alternate days (eGFR 15 to <30mL/min/1.73m²)	10 days (or until discharge)	Note can also be added if clinical deterioration despite treatment with tocilizumab or if tocilizumab cannot be given. Do not administer if: Pregnancy (use effective contraception for at least 1 week after treatment) & breast-feeding Neutrophil count (ANC) <0.5 x 10 ⁹ cells/L Active TB or significant other active infection eGFR<15ml/min See for further advice/cautions Complete a one-off non-formulary request N.B: Off label use



REFERENCES	NICE TA878, Nirmatrelvir plus ritonavir, sotrovimab and tocilizumab for treating COVID-NICE TA971, Remdesivir and tixagevimab plus cilgavimab for treating COVID-19	<u>19</u>
RELATED DOCUMENTS AND PAGES		
AUTHORISING BODY	ASG	
SAFETY		
QUERIES AND CONTACT	Antimicrobial pharmacist; extn: Microbiology: extn:	
AUDIT REQUIREMENTS	Antimicrobial compliance audits	

Document Change Control

Date of	Version	Lead for	Type of	Description of Revision
Version	Number	Revisions	Revision	

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July 2022	5.0	Consultant Pharmacist Anti- infectives	Major	Addition of COVID patient groups Group 2 patient information added for clarity Molnupiravir section added Enhanced VTE prophylaxis table removed
Aug 2023	6	Consultant Pharmacist Anti- infectives	Major	Up-dated according to NICE Technology Appraisal [TA878], June 2023
July 2024	7	Consultant Pharmacist Anti- infectives	Major	Re-written as per 2024 NICE guidance

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Appendix 1: Tocilizumab dose banding

Estimated or measured weight	Tocilizumab dose
<41 kg	8mg/kg to nearest 20mg
≥ 41 and ≤ 45 kg	1 x 200mg + 2 x 80mg = 360mg
≥ 46 and ≤ 55 kg	1 x 200mg + 3 x 80mg = 440mg
≥ 56 and ≤ 60 kg	1 x 400mg + 1 x 80mg = 480mg
≥ 61 and ≤ 65 kg	1 x 200mg + 4 x 80mg = 520mg
≥ 66 and ≤ 70 kg	1 x 400mg + 2 x 80mg = 560mg
≥ 71 and ≤ 75kg	1 x 400mg + 1 x 200mg = 600mg
≥ 76 and ≤ 80kg	1 x 400mg + 3 x 80mg = 640mg
≥ 81 and ≤ 85 kg	1 x 400mg + 1 x 200mg + 1x 80mg = 680mg
≥ 86 and ≤ 90 kg	1 x 400mg + 4 x 80mg = 720mg
≥ 91kg	2 x 400mg = 800 mg