



# COVID-19 Summary Guidelines

**British Association of Physicians of Indian Origin (Wales Chapter) - Scientific Working Group –**

Dr Samuel Moses (1); Dr Nidhika Berry (2); Professor Atul Kalhan (3); Dr Sonia Sathe (4); Dr Latha Srinivasan (5);  
Dr Viju Varadarajan (6); Dr Hasmukh Shah (7); Dr Keshav Singhal (8)

1 Consultant in Virology & Infection, 2 Consultant in Microbiology, 3 Consultant in Endocrinology, 4 Consultant in Intensive Care Medicine and  
Anaesthetics, 5 Consultant in Anaesthetics, 6 Consultant in Anaesthetics, 7 General Practitioner, 8 Consultant in Orthopaedic Surgery

---

## Evidence based guidelines

### Low and Medium Income Countries- May 2021

We note with concern, potential misinformation regarding treatment options being recommended to patients in India. We suggest the following evidence-based practice for the management of SARS CoV2 infection.

#### Article Information

Submitted 31 May 2021

Epub 31 May 2021

ISSN 2732-5164 (Online)

ISSN 2732-5156 (Print)



Cite as: Moses, S., Berry, N., Kalhan, A., Sathe, S., Srinivasan, L., Varadarajan, V., Shah, H. &  
Singhal, K. (2021) COVID-19 Evidence based guidelines. Sushruta J Health Pol & Opin vol 14;  
issue 2: 1-2 ePub 31.5.21 DOI <https://doi.org/10.38192/14.2.4>

---

## Approach to Diagnosis & Infection Control

	Test/Agent	Details
<b>RT-PCR</b>	CE marked Reverse Transcriptase - Polymerase Chain Reaction (RT- PCR) assays detect all variants.	The ideal time for PCR testing is between day 1-5 of symptoms.
<b>Imaging</b>	CT scan should not be the first line tool in diagnosing COVID-19, which is mostly a clinical and PCR diagnosis.	If required for inpatient care, the CT should be done in a COVID 19 safe environment
<b>Asymptomatic cases</b>	Nearly 1/3 <sup>rd</sup> of cases are asymptomatic or pre-symptomatic.	Transmission from such cases can be prevented by effective self-isolation (10 days), hand hygiene and social distancing.
<b>Infectivity</b>	The period of infective exposure starts from about 48 hours prior to onset of symptoms in the index case up to about 10 days in community cases, and 14 days in hospitalised, due to being a more vulnerable population.	Contact tracing, testing and appropriate isolation of such individuals, is key to infection control

---

## Approach to Therapy

	Treatment	Details
<b>Antibiotics</b>	There is no role for the use of antibiotics when there is no clear evidence of bacterial infections in patients with SARS CoV-2 infection.	The indiscriminate use of broad-spectrum antibiotics is likely to increase the risk of Multi Drug Resistant (MDR) bacterial infections.
<b>Corticosteroids</b>	Steroids are recommended for severe illness[1]	High dose steroids – 1 to 2 mg/kg/day methylprednisolone are known to cause severe immune suppression and an increased risk of opportunistic infections

## Test/Agent

## Details

<b>Corticosteroids II</b>	Data from multiple trials has shown that steroids should be trialled for a limited period of 3 to 10 days [2,3]	In patients with signs of clinical deterioration in infection, heralded by hypoxia with SpO2 <92%
<b>Corticosteroids III</b>	<p>There is no benefit of using steroids in patients with mild symptoms, not needing oxygen support.[4]</p> <p>Treatment should stop if discharged from hospital within the 10 days, although gradual weaning off from steroid therapy might be required in patients with severe infection or prolonged hospital stay.[1]</p>	<p><b>Dexamethasone:</b> Dose: 6mg PO/IV Once a Day for up to 10-days or</p> <p><b>Hydrocortisone:</b> Dose 50mg IV TDS for 7-10 days or</p> <p><b>Prednisolone:</b> Dose 40 mg Once a Day for up to 10-day, or</p> <p><b>Methylprednisolone:</b> Dose 32 mg once a Day for up to 10-days[2]</p> <p>Cautions: Monitor blood glucose every 6 hours, target levels 108-180mg/dl. If blood glucose levels high, consider starting insulin therapy</p>
<b>Proning</b>	Prone positioning improves outcomes in hypoxic and mechanically ventilated patients with severe infection. [4–6]	
<b>Thromboprophylaxis</b>	Current guidance suggests prophylactic doses of LMWH in patients with no evidence of venous thromboembolism. There is No benefit of full anticoagulation in patients with no evidence of VTE.[7,8]	(VTE)- 0.5mg Enoxaparin s/c once a day
<b>Convalescent plasma</b>	Convalescent Plasma has NOT provided any benefit in the treatment of patients with SARS CoV2 infection.[4,9]	The RECOVERY [10] and REMAP- CAP trials[11], as well as a large trial conducted in India – the PLACID Trial[12] – provided evidence that convalescent plasma did not improve outcomes.
<b>Other drugs</b>	In patients hospitalised with COVID-19, the RECOVERY trial has demonstrated no benefit of: a) Hydroxychloroquine[13] b) Azithromycin[14,15]	

	Test/Agent	Details
	c) Lopinavir-Ritonavir[16,17]	
<b>IL-6 Inhibitors</b>	<p>Interleukin 6 inhibitors: Tocilizumab/ Sarilumab.</p> <p>The RECOVERY and REMAP CAP Trials [18] found that tocilizumab significantly improved survival and other clinical outcomes in patients with hypoxaemia and systemic inflammation.</p>	<p>Please refer to the SPC for <a href="#">tocilizumab</a>. [19]</p> <p>Please refer to the SPC for <a href="#">sarilumab</a>. [18,20]</p>
<b>Ivermectin</b>	Current evidence does not support the use of Ivermectin for treatment or prophylaxis. [21,22]	
<b>Vaccination</b>	Vaccination against SARS-CoV-2 is the most effective tool for protecting individuals as well as protecting public health. [23,24]	Vaccination reduces the risk of hospitalisation by 80% and risk of mortality by 90%. This, along with the self- isolation of cases and close contacts, contact tracing and appropriate case management are the most important control measures.*

\*Transmission risk reduction averages between 50-70% across different data sets. Neutralising protection against infection after a first dose starts between 14-21 days for the different licensed vaccines. The adverse effects differ between different vaccines, but the benefits of vaccination in reducing risk of severe infection far outweighs the side effects (majority of which are minor and self-limited). It is important to maintain a COVID 19 safe environment at vaccination centres.

## References

- 1 RECOVERY Collaborative Group, Horby P, Lim WS, *et al.* Dexamethasone in Hospitalized Patients with Covid-19. *N Engl J Med* 2021;**384**:693–704. doi:10.1056/NEJMoa2021436
- 2 The Writing Committee for the REMAP-CAP Investigators, Angus DC, Derde L, *et al.* Effect of Hydrocortisone on Mortality and Organ Support in Patients With Severe COVID-19: The REMAP-CAP COVID-19 Corticosteroid Domain Randomized Clinical Trial. *JAMA* 2020;**324**:1317. doi:10.1001/jama.2020.17022
- 3 Corticosteroids for COVID-19. REMAP-CAP Trial. <https://www.remapcap.org/covid19publications/corticosteroid-for-covid-19> (accessed 1 Jun 2021).
- 4 Alhazzani W, Møller MH, Arabi YM, *et al.* Surviving Sepsis Campaign: Guidelines on the Management of Critically Ill Adults with Coronavirus Disease 2019 (COVID-19). *Critical Care Medicine* 2020;**48**:e440–69. doi:10.1097/CCM.0000000000004363
- 5 prone\_position\_in\_adult\_critical\_care\_2019.pdf. [https://www.ficm.ac.uk/sites/default/files/prone\\_position\\_in\\_adult\\_critical\\_care\\_2019.pdf](https://www.ficm.ac.uk/sites/default/files/prone_position_in_adult_critical_care_2019.pdf) (accessed 1 Jun 2021).
- 6 Bamford P, Bentley A, Dean J, *et al.* ICS Guidance for Prone Positioning of the Conscious COVID Patient 2020. ;:6.
- 7 INSPIRATION Investigators, Mazloomzadeh S, Khaleghparast S, *et al.* Effect of Intermediate-Dose vs Standard-Dose Prophylactic Anticoagulation on Thrombotic Events, Extracorporeal Membrane Oxygenation Treatment, or Mortality Among Patients With COVID-19 Admitted to the Intensive Care Unit: The INSPIRATION Randomized Clinical Trial. *JAMA* 2021;**325**:1620. doi:10.1001/jama.2021.4152
- 8 CAS-ViewAlert. <https://www.cas.mhra.gov.uk/ViewandAcknowledgment/ViewAlert.aspx?AlertID=103129> (accessed 1 Jun 2021).
- 9 Convalescent plasma in the management of moderate covid-19 in adults in India: open label phase II multicentre randomised controlled trial (PLACID Trial) | The BMJ. <https://www.bmj.com/content/371/bmj.m3939> (accessed 1 Jun 2021).
- 10 Convalescent plasma in patients admitted to hospital with COVID-19 (RECOVERY): a randomised, controlled, open-label, platform trial | medRxiv. <https://www.medrxiv.org/content/10.1101/2021.03.09.21252736v1> (accessed 1 Jun 2021).
- 11 Convalescent Plasma for COVID-19. REMAP-CAP Trial. <https://www.remapcap.org/covid19publications/convalescent-plasma-for-covid-19> (accessed 1 Jun 2021).
- 12 Convalescent plasma is ineffective for covid-19 | The BMJ. <https://www.bmj.com/content/371/bmj.m4072> (accessed 1 Jun 2021).
- 13 Effect of Hydroxychloroquine in Hospitalized Patients with Covid-19 | NEJM. <https://www.nejm.org/doi/10.1056/NEJMoa2022926> (accessed 1 Jun 2021).
- 14 azithromycin-recovery-statement-141220\_final.pdf. [https://www.recoverytrial.net/files/azithromycin-recovery-statement-141220\\_final.pdf](https://www.recoverytrial.net/files/azithromycin-recovery-statement-141220_final.pdf) (accessed 1 Jun 2021).
- 15 Gautret P, Lagier J-C, Parola P, *et al.* Hydroxychloroquine and azithromycin as a treatment of COVID-19: results of an open-label non-randomized clinical trial. *Int J Antimicrob Agents* 2020;:105949. doi:10.1016/j.ijantimicag.2020.105949
- 16 Cao B, Wang Y, Wen D, *et al.* A Trial of Lopinavir-Ritonavir in Adults Hospitalized with Severe Covid-19. *N Engl J Med* Published Online First: 18 March 2020. doi:10.1056/NEJMoa2001282
- 17 Lopinavir-ritonavir in patients admitted to hospital with COVID-19 (RECOVERY): a randomised, controlled, open-label, platform trial - The Lancet. [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(20\)32013-4/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)32013-4/fulltext) (accessed 1 Jun 2021).
- 18 REMAP-CAP Investigators, Gordon AC, Mouncey PR, *et al.* Interleukin-6 Receptor Antagonists in Critically Ill Patients with Covid-19. *N Engl J Med* 2021;**384**:1491–502. doi:10.1056/NEJMoa2100433
- 19 Group RC, Horby PW, Pessoa-Amorim G, *et al.* Tocilizumab in patients admitted to hospital with COVID-19 (RECOVERY): preliminary results of a randomised, controlled, open-label, platform trial. *medRxiv* 2021;:2021.02.11.21249258. doi:10.1101/2021.02.11.21249258
- 20 Della-Torre E, Campochiaro C, Cavalli G, *et al.* Interleukin-6 blockade with sarilumab in severe COVID-19 pneumonia with systemic hyperinflammation: an open-label cohort study. *Ann Rheum Dis* 2020;**79**:1277–85. doi:10.1136/annrheumdis-2020-218122
- 21 PINHO AC. EMA advises against use of ivermectin for the prevention or treatment COVID-19 outside randomised clinical trials. European Medicines Agency. 2021.<https://www.ema.europa.eu/en/news/ema-advises-against-use-ivermectin-prevention-treatment-covid-19-outside-randomised-clinical-trials> (accessed 1 Jun 2021).
- 22 WHO advises that ivermectin only be used to treat COVID-19 within clinical trials. <https://www.who.int/news-room/feature-stories/detail/who-advises-that-ivermectin-only-be-used-to-treat-covid-19-within-clinical-trials> (accessed 1 Jun 2021).
- 23 Chakravorty S. Vaccines against SARS-Cov-2: An Unprecedented Scientific Triumph and a Source of Hope in the Pandemic. *phy* 2021;**6**:1–3. doi:10.38192/1.6.3.11
- 24 The effects of virus variants on COVID-19 vaccines. <https://www.who.int/news-room/feature-stories/detail/the-effects-of-virus-variants-on-covid-19-vaccines> (accessed 1 May 2021).