

Novaferon vs. Lopinavir+Ritonavir for COVID-19

Author(s): Cruciani F, De Crescenzo F, Vecchi S, Saulle R, Mitrova Z, Amato L, Davoli M.

Question: Should Novaferon versus Lopinavir/Ritonavir be used for COVID-19?

Setting: Inpatient

Certainty assessment							№ of patients		Effect		Certainty
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Novaferon	Lopinavir/Ritonavir	Relative (95% CI)	Absolute (95% CI)	
SARS-CoV-2 clearance											
1 ^{1,a}	randomised trials	serious _b	not serious	not serious	very serious _c	none	17/30 (56.7%)	15/29 (51.7%)	RR 1.10 (0.68 to 1.75)	52 more per 1.000 (from 166 fewer to 388 more)	⊕○○○ VERY LOW
Progression of COVID-19 severity											
1 ¹	randomised trials	serious _b	not serious	not serious	very serious _c	none	0/28 (0.0%)	4/28 (14.3%)	RR 0.11 (0.01 to 1.97)	127 fewer per 1.000 (from 141 fewer to 139 more)	⊕○○○ VERY LOW
Number of patients with adverse events											
1 ¹	randomised trials	serious _b	not serious	not serious	very serious _c	none	0/30 (0.0%)	4/29 (13.8%)	RR 0.11 (0.01 to 1.91)	123 fewer per 1.000 (from 137 fewer to 126 more)	⊕○○○ VERY LOW
Number of patients with severe adverse events											
1 ¹	randomised trials	serious _b	not serious	not serious	very serious _c	none	No serious adverse event in both groups			⊕○○○ VERY LOW	

CI: Confidence interval; **RR:** Risk ratio

Explanations

- a. * The study authors define Novaferon as a recombinant antitumor and antiviral protein
- b. Downgraded of one level for high risk of performance bias and unclear risk of selection bias
- c. Downgraded of two levels for very few events and small sample size

References

1. Zheng F, Zhou Y, Zhou Z, et al. SARS-CoV-2 clearance in COVID-19 patients with Novaferon treatment: A randomized, open-label, parallel-group trial [published online ahead of print, 2020 Aug 3]. *Int J Infect Dis.* 2020;99:84-91. doi:10.1016/j.ijid.2020.07.053