

**Philippine COVID-19 Living Clinical Practice Guidelines** 

Institute of Clinical Epidemiology, National Institutes of Health, UP Manila In cooperation with the Philippine Society for Microbiology and Infectious Diseases Funded by the Department of Health

## EVIDENCE SUMMARY

## **RESEARCH QUESTION:** Among COVID-19 patients, should colchicine be used for treatment?

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## RECOMMENDATION

Recommendation	Certainty of Evidence	Strength of Recommendation
We recommend against the use of colchicine in the treatment of COVID-19 patients.	Very Low	Strong

## **Consensus Issues**

The consensus panel recommends against the use of colchicine in the treatment of COVID-19 patients despite the certainty of evidence. This is mainly due to its potential harm without benefit in any of the critical outcomes, especially with the background of the local availability of other effective drugs for COVID-19. Most recent evidence showed that colchicine significantly increased risk of adverse events, without benefit in all-cause mortality, need for mechanical ventilation, hospital discharge within 28 days, need for hospitalization, need for ICU admission, need for hemodialysis or hemofiltration, clinical deterioration, and length of hospitalization. Although there were no studies among children, the panel opted to issue a blanket recommendation for adults and children against use of colchicine in COVID-19. Following the principle of "first do no harm," an intervention should not be prescribed without any evidence supporting its use. Although the effect of colchicine on the different variants could not be extracted, the studies were performed from 2020-2022, covering a wide span of time period, during which different variants were predominant.

## **KEY FINDINGS**

- Nineteen (19) randomized controlled trials (RCTs) investigated the effect of colchicine compared to standard of care as treatment for patients with COVID-19.
- Colchicine showed net potential harm (significant increase in adverse events) with no significant benefit in all-cause mortality, need for mechanical ventilation, hospital discharge within 28 days, need for hospitalization, need for ICU admission, need for hemodialysis or hemofiltration, clinical deterioration, and length of hospitalization.
- Several studies had risk of bias issues as there were concerns in allocation concealment, blinding, attrition, and selective reporting of outcome.
- The serious risk of bias and issues with inconsistency and imprecision in one critical outcome contributed to the downgrading of evidence to very low certainty of evidence.

## WHAT'S NEW IN THIS VERSION?

This version includes an additional 16 randomized controlled trials – 14 new studies and 2 studies which were previously included as preprint studies that have published versions available.



#### PREVIOUS RECOMMENDATION

As of 08 November 2021

We suggest against the use of colchicine in the treatment of COVID-19 patients. (Low certainty of evidence; Weak recommendation)

#### **Consensus Issues**

The addition of a large multicenter trial (RECOVERY trial) still showed that colchicine led to net potential harm (significant increase in adverse events) with no significant benefit in terms of all-cause mortality, clinical improvement (defined as hospital discharge) within 28 days, need for hospitalization, need for mechanical ventilation, and need for hemodialysis or hemofiltration. Hence, the consensus panel decided to maintain the previous recommendation against the use of colchicine in patients with COVID-19, regardless of hospitalization status.

#### INTRODUCTION

Colchicine is an anti-inflammatory agent currently being used for gout, familial Mediterranean fever, Behcet's syndrome, and pericarditis [1,2]. Colchicine has a unique anti-inflammatory property with a prolonged anti-inflammatory effect even after discontinuation [1]. Its primary mechanism of action is tubulin disruption leading to subsequent down regulation of multiple inflammatory pathways and modulation of innate immunity [3]. This anti-inflammatory mechanism may potentially have an effect on the clinical course of the patient with COVID-19 in terms of developing pneumonia and other lung complications [4]. In a 2020 good quality systematic review of adverse events associated with colchicine use, colchicine was shown to increase gastrointestinal adverse events specifically diarrhea. However, there was no increase rate of liver, sensory, muscle, infectious, or hematologic adverse events or death [5].

#### **REVIEW METHODS**

A systematic search was done from the date of the last search August 28, 2021 until January 3, 2023 using Medline and Cochrane Library with a combined MeSH and free text search using the terms coronavirus infections, COVID-19, severe acute respiratory syndrome coronavirus 2 or SARS-CoV-2, and colchicine. We also looked at the COVID-NMA Living Data[6] and searched for ongoing studies in the NIH *clinicaltrials.gov* and various trial registries. Preprints were also searched using medrxiv, chinaxiv, and biorxiv. Only randomized controlled trials that compared colchicine against placebo or standard of care were included in this review. Outcomes of interest included mortality, clinical deterioration or improvement, development of acute respiratory syndrome, need for mechanical ventilation, need for hospitalization, duration of hospitalization, time to clinical recovery, improvement of radiographic findings, virologic clearance, or adverse events. No limits were placed on age, COVID-19 severity, hospitalization status, and dosing strategy of colchicine. Subgrouping by severity and hospitalization status was planned.

#### RESULTS

We found 19 RCTs that included a total of 22,921 COVID-19 patients. There were 15 RCTs that involved hospitalized COVID-19 patients [7-15,18,19,21-24], 3 RCTs that involved outpatients [4,16,17], and 1 RCT that involved both hospitalized and ambulatory COVID-19 patients [20]. All 19 RCTs were published studies. Two of the RCTs were suspended early due to futility [11,16]. Standard of care used across these studies varied as they followed their respective local guidelines at the time the studies were conducted. Examples of standard of care used in the various RCTs include azithromycin, hydroxychloroquine, heparin, corticosteroids, remdesivir, tocilizumab, vitamins, faviripavir, inhaled budesonide, and baricitinib. The dose of colchicine varied from 0.5 to 1.2mg/day, while the duration of treatment with colchicine ranged from 5 to 30 days. Outcomes measured included all-cause mortality, need for mechanical ventilation, hospital discharge, clinical improvement (defined as improvement in symptoms), need for hospitalization, duration of hospitalization, and adverse events. No studies were found among children and adolescents. The characteristics of included studies are summarized in Appendix 3.



The overall certainty of evidence was rated very low because of serious risk of bias in the included studies, as well as issues with inconsistency and imprecision in 1 critical outcome (duration of hospitalization). Of the 19 included studies, 6 studies had unclear allocation concealment, 14 studies had serious risk of performance bias, 12 studies had serious risk of detection bias, 2 studies had serious risk of attrition bias and 2 studies had unclear risk of attrition bias, 1 study had serious risk of reporting bias and 2 studies had unclear risk of bias summary is shown in Appendix 4. The GRADE evidence profile is in Appendix 5.

Based on 19 RCTs, colchicine did not show any significant difference compared to standard care in reducing all-cause mortality (RR 0.99, 95% CI 0.93-1.06; I<sup>2</sup>=0%). Subgroup analysis by hospitalization status showed no difference in all-cause mortality for hospitalized patients (RR 0.99, 95% CI 0.93-1.06, 15 RCTs). Results were inconclusive for non-hospitalized patients (RR 0.82, 95% CI 0.43-1.56, 3 RCTs). Subgroup analysis according to disease severity showed inconclusive results for mild disease (RR 0.82, 95% CI 0.43-1.56), moderate disease (RR 0.39, 95% CI 0.09-1.63), moderate-to-severe disease (RR 0.64, 95% CI 0.32-1.28), severe disease (RR 0.71, 95% CI 0.30-1.66), and critical disease (RR 1.36, 95% CI 0.45-4.11).

Results were inconclusive for the outcome need for mechanical ventilation (RR 0.84, 95% CI 0.67-1.06, 8 RCTs). Subgroup analysis by hospitalization status showed no difference in need for mechanical ventilation for hospitalized patients (RR 0.93, 95% CI 0.86-1.01, 7 RCTs) and inconclusive evidence for non-hospitalized patients (RR 0.53, 95% CI 0.26-1.09, 1 RCT).

There was no difference in hospital discharge within 28 days between the colchicine and control groups (RR 1.00, 95% CI 0.97-1.03, 5 RCTs).

There was no significant reduction in length of hospitalization (MD 1.34 days shorter, 95% CI 2.79 days shorter to 0.12 days longer, 5 RCTs,  $I^2$ =67%). Five other studies also reported no significant reduction in length of hospitalization, but results could not be pooled due to inadequate data. One study reported length of hospital stay using hazards ratio (HR 1.13, 95% CI 0.76-1.66) [11]. The second study reported a median hospitalization stay of 8 days for colchicine group and 10 days for control group (p=0.60) [12]. The third study reported a mean hospital stay of 10.7 days for the colchicine group, and 8.8 days for control group (p=0.37) [23]. The fourth study reported that the mean hospital stay for both groups was 11.3 days, with no significant difference between the 2 groups (p=0.765) [14]. The fifth study reported median hospital stay of 6.5 days (IQR 5 to 8) for colchicine group and 8 days (IQR 5 to 11.3) for control group [24].

Results are inconclusive for need for ICU admission (RR 0.69, 95% CI 0.40-1.21, 5 RCTs). One study reported that the ICU length of stay did not differ between the colchicine and control groups, with a median stay of 0 days (IQR 0 to 0.75 days) for colchicine group and 0 days (IQR 0 to 1) for control group, p=0.29 [11].

Results are inconclusive for the outcomes need for hemodialysis or hemofiltration (RR 1.07, 95% CI 0.88-1.29, 1 RCT), and clinical deterioration defined as at least 2 grade deterioration in the WHO ordinal scale (RR 0.40, 95% CI 0.14-1.18, 2 RCTs).

One study reported on clinical improvement, defined as improvement of at least 2 points in the WHO scale. There was no significant benefit observed for colchicine (RR 1.23, 95% CI 0.97-1.55) [13]. One study reported no significant difference in change in WHO ordinal scale between the colchicine group and control group (MD 0.60 points, 95% CI -0.30 to 1.50) [23]. Another study reported on the response rate (defined as symptom resolution), with significant benefit for colchicine compared to control (RR 1.32, 95% CI 1.06-1.65) [20].

One study reported that the time to recovery was significantly shorter for the colchicine group compared to control group, both for those with moderate disease (12 days, 95% CI 10.2-13.8 for colchicine group; 14 days, 95% CI 13-15 for control group) and severe disease (14 days, 95% CI 12.5-15.5 for colchicine group;



19 days, 95% CI 15.9-22.1 for control group) [18]. One other study reported no significant difference in time to recovery, with the HR corresponding to an estimated of 1.14 days, 95% Bayesian credible interval -1.86 to 5.21 days) [16]. Results could not be pooled due to inadequate data.

Results are inconclusive for need for hospitalization among non-hospitalized patients given colchicine compared to control (RR 0.89, 95% CI 0.71-1.11, 3 RCTs).

#### Adverse events

Results are inconclusive for serious adverse events (RR 0.83, 95% CI 0.67-1.03, I<sup>2</sup>=0, 11 RCTs). Subgroup analysis by hospitalization status showed inconclusive results for hospitalized patients (RR 0.56, 95% CI 0.25-1.21, 8 RCTs) and non-hospitalized patients (RR 0.91, 95 % CI 0.65-1.29, 3 RCTs). The reported serious adverse events included pneumonia, pulmonary embolism, myocardial infarction, and dehydration.

There were significantly more adverse events among patients who received colchicine (RR 1.78, 95% Cl 1.36-2.32; I<sup>2</sup>=65%, 13 RCTs), with moderate heterogeneity. The most common reported adverse event was diarrhea while other adverse events included abdominal pain, nausea, and rash. Subgroup analysis by hospitalization status showed significant harm for both hospitalized patients (RR 1.92, 95% Cl 1.27-2.90, 11 RCTs) and for non-hospitalized patients (RR 1.56, 95% Cl 1.38-1.76, 1 RCT).

Regulatory Agency	Recommendation	Strength of Recommendation / Certainty of Evidence
NIH Covid-19 Guidelines	Recommends against the use of colchicine for the treatment of hospitalized patients with COVID-19.	Strong recommendation
(as of December 28, 2022)	Recommends against the use of colchicine for the treatment of non-hospitalized patients with COVID-19 [26].	Moderate recommendation
Australian COVID-19 Guidelines (as of December 20, 2022)	Do not use colchicine for the treatment of COVID-19. This recommendation applies to adults, children and adolescents, pregnant and breastfeeding women, older people living with frailty and those receiving palliative care [27].	Moderate recommendation
Infectious Diseases Society of America (as of November 21,	In hospitalized patients with COVID-19, the IDSA panel recommends against colchicine for treatment of COVID-19.	Strong recommendation, Moderate certainty of evidence
2022)	In ambulatory persons with COVID-19, the IDSA panel suggests against colchicine for treatment of COVID-19 [28].	Conditional recommendation, Moderate certainty of evidence
World Health Organization (WHO) Living Guidelines (as of October 6, 2022)	We recommend against treatment with colchicine [29].	Strong recommendation against

#### **RECOMMENDATIONS FROM OTHER GROUPS**



## **RESEARCH GAPS**

There are 8 ongoing trials registered. This review will be updated as soon as full results from these trials become available.

## ADDITIONAL CONSIDERATIONS FOR EVIDENCE TO DECISION (ETD) PHASE

#### COST

Colchicine is a widely used drug for treatment of acute gout. It is also used to treat familial Mediterranean fever, Behcet's syndrome and pericarditis. In the Philippines, colchicine is available in several drug stores and is sold under various brands and as a generic drug. The price of 1 colchicine 500mcg tablet is ₱2.10 based on the 2021 Philippine Drug Reference Index [25].



#### REFERENCES

- [1] Tan GM, Yan BP. What's old is new again a review of the current evidence of colchicine in cardiovascular medicine. Current Cardiology Reviews. 2017. 13:130-138.
- [2] Katsanos AH, Palaiodimou L, Price C, Giannopoulos S, Lemmens R, Kosmidou M, et al. Colchicine for stroke prevention in patients with coronary artery disease: a systematic review and meta-analysis. Eur J Neurol. 2020 Mar 5. doi: 10.1111/ene.14198. [Epub ahead of print]
- [3] Leung YY, Yao Hui LL, Kraus VB. Colchicine Update on Mechanisms of Action and Therapeutic Uses, Seminars in Arthritis and Rheumatism, http://dx.doi.org/10.1016/j.semarthrit.2015.06.013
- [4] Tardif JC, Bouabdallaoui N, L'Allier PL, Gaudet D, Shah B, Pillinger MH, et al. Efficacy of colchicine in non-hospitalized patients with COVID-19. Lancet Respir Med. 2021;9(8):924-932.
- [5] Stewart S, Yang KCK, Atkins K, Dalbeth N, Robinson PC. Adverse events during oral colchicine use: a systematic review and meta-analysis of randomised controlled trials. *Arthritis Res Ther* **22**, 28 (2020). https://doi.org/10.1186/s13075-020-2120-7
- [6] The COVID-NMA initiative: A living mapping and living systematic review of Covid-19 trials, https://covid-nma.com/
- [7] Lopes MIF, Bonjorno LP, Giannini MC, Amaral NB, Menezes PI, Dib SM, et al. Beneficial effects of colchicine for moderate to severe COVID-19: a randomised, double-blinded, placebo-controlled clinical trial. RMD Open. 2021;7(1):e001455. doi:10.1101/2020.08.06.20169573
- [8] Deftereos SG, Giannopoulos G, Vrachatis DA, Siasos GD, Giotaki SG, Gargalianos P, et al. Effect of colchicine vs standard care on cardiac and inflammatory biomarkers and clinical outcomes in patients hospitalized with coronavirus disease 2019: the GRECCO-19 randomized clinical trial. JAMA Netw Open 2020;3:e2013136. doi:10.1001/jamanetworkopen.2020.13136
- [9] Salehzadeh F, Pourfarzi F, Ataei S. The Impact of Colchicine on COVID-19 patients: A Clinical Trial Study. Mediterr J Rheumatol. 2022 Jun;33(2):232-236. doi: 10.31138/mjr.33.2.232.
- [10] RECOVERY Collaborative Group, Horby PW, Campbell M, Spata E, Emberson JR, Staplin N, et al. Colchicine in patients admitted to hospital with COVID-19 (RECOVERY): a randomised, controlled, open-label, platform trial. Lancet Respir Med. 2021 Dec;9(12):1419-1426.
- [11] Absalón-Aguilar A, Rull-Gabayet M, Pérez-Fragoso A, Mejía-Domínguez NR, Núñez-Álvarez C, Kershenobich-Stalnikowitz D, et al. Colchicine Is Safe Though Ineffective in the Treatment of Severe COVID-19: a Randomized Clinical Trial (COLCHIVID). J Gen Intern Med. 2022 Jan;37(1):4-14. doi: 10.1007/s11606-021-07203-8.
- [12] Alsultan M, Obeid A, Alsamarrai O, Anan MT, Bakr A, Soliman N, et al. Efficacy of Colchicine and Budesonide in Improvement Outcomes of Patients with Coronavirus Infection 2019 in Damascus, Syria: A Randomized Control Trial. Interdiscip Perspect Infect Dis. 2021 Dec 31;2021:2129006. doi: 10.1155/2021/2129006.
- [13] Bonifácio L, Ramacciotti E, Agati L, Vilar F, Tojal A, Souza H, et al. Efficacy of ixekizumab vs. IL-2 vs. colchicine vs. Standard of care for the treatment of hospitalized patients with COVID-19: Preliminary results of a randomized clinical trial (struck: Survival trial using cytokine inhibitors). Antimicrob Resist Infect Control. 2021;10(Suppl 1).
- [14] Cecconi A, Martinez-Vives P, Vera A, Lavilla Olleros C, Barrios A, Fonseca Aizpuru E, et al. Efficacy of short-course colchicine treatment in hospitalized patients with moderate to severe COVID-19 pneumonia and hyperinflammation: a randomized clinical trial. Sci Rep. 2022 Jun 2;12(1):9208. doi: 10.1038/s41598-022-13424-6.
- [15] Diaz R, Orlandini A, Castellana N, Caccavo A, Corral P, Corral G, et al.; ECLA PHRI COLCOVID Trial Investigators. Effect of Colchicine vs Usual Care Alone on Intubation and 28-Day Mortality in Patients Hospitalized With COVID-19: A Randomized Clinical Trial. JAMA Netw Open. 2021 Dec 1;4(12):e2141328. doi: 10.1001/jamanetworkopen.2021.41328.



- [16] Dorward J, Yu LM, Hayward G, Saville BR, Gbinigie O, Van Hecke O, et al.; PRINCIPLE Trial Collaborative Group. Colchicine for COVID-19 in the community (PRINCIPLE): a randomised, controlled, adaptive platform trial. Br J Gen Pract. 2022 Jun 30;72(720):e446-e455. doi: 10.3399/BJGP.2022.0083.
- [17] Eikelboom JW, Jolly SS, Belley-Cote EP, Whitlock RP, Rangarajan S, Xu L, et al. Colchicine and aspirin in community patients with COVID-19 (ACT): an open-label, factorial, randomised, controlled trial. Lancet Respir Med. 2022 Dec;10(12):1160-1168. doi: 10.1016/S2213-2600(22)00299-5.
- [18] Gorial FI, Maulood MF, Abdulamir AS, Alnuaimi AS, Abdulrrazaq MK, Bonyan FA. Randomized controlled trial of colchicine add on to the standard therapy in moderate and severe corona virus Disease-19 infection. Ann Med Surg (Lond). 2022 May;77:103593. doi: 10.1016/j.amsu.2022.103593.
- [19] Haroon MZ, Farooq U, Ashraf S, Zeb S, Gillani SY, Malik S, et al. Colchicine anti-inflammatory therapy for non-intensive care unit hospitalized COVID-19 patients: results from a pilot openlabel, randomized controlled clinical trial. J Physiol Pharmacol. 2022 Jun;73(3). doi: 10.26402/jpp.2022.3.09.
- [20] Jalal AM, Aref SF, Albustany DA. Effectiveness of Colchicine among Patients with COVID-19 Infection: A Randomized, Open-Labeled, Clinical Trial. Indian J Rheumatol. 2022;17(2):136-141.
- [21] Pascual-Figal DA, Roura-Piloto AE, Moral-Escudero E, Bernal E, Albendín-Iglesias H, Pérez-Martínez MT, et al.; COL-COVID Investigators. Colchicine in Recently Hospitalized Patients with COVID-19: A Randomized Controlled Trial (COL-COVID). Int J Gen Med. 2021 Sep 11;14:5517-5526. doi: 10.2147/IJGM.S329810.
- [22] Perricone C, Scarsi M, Brucato A, Pisano P, Pigatto E, Becattini C, et al.; COLVID-19 study group, under the auspices of the Italian Society of Rheumatology (SIR), the Italian Society of Infectious and Tropical Diseases (SIMIT) and the Italian Thoracic Society (ITS-AIPO). Treatment with COLchicine in hospitalized patients affected by COVID-19: The COLVID-19 trial. Eur J Intern Med. 2023 Jan;107:30-36. doi: 10.1016/j.ejim.2022.10.016.
- [23] Rabbani A, Rafique A, Wang X, Campbell D, Wang D, Brownell N, et al. Colchicine for the Treatment of Cardiac Injury in Hospitalized Patients With Coronavirus Disease-19. Front Cardiovasc Med. 2022 Jun 17;9:876718. doi: 10.3389/fcvm.2022.876718.
- [24] Rahman M, Datta PK, Islam K, Haque M, Mahmud R, Mallik U, et al. Efficacy of colchicine in patients with moderate COVID-19: A double-blinded, randomized, placebo-controlled trial. PLoS One. 2022 Nov 16;17(11):e0277790. doi: 10.1371/journal.pone.0277790.
- [25] The Philippine Drug Price Reference Index 9th edition. 2021. Available from https://caro.doh.gov.ph/wp-content/uploads/2021/09/2021DPRI-as-of-9-17-2021.pdf. Accessed 11 January 2023.
- [26] COVID-19 Treatment Guidelines Panel. Coronavirus Disease 2019 (COVID-19) Treatment Guidelines. National Institutes of Health. Available at https://www.covid19treatmentguidelines.nih.gov/. Accessed 4 January 2023.
- [27] Australian National COVID-19 Clinical Evidence Taskforce. Australian guidelines for the clinical cure of people with COVID-19 v70.1. Available at https://app.magicapp.org/#/guideline/L4Q5An. Accessed 4 January 2023.
- [28] Bhimraj A, Morgan RL, Shumaker AH, Lavergne V, Baden L, Cheng VC, et al. Infectious Diseases Society of America Guidelines on the Treatment and Management of Patients with COVID-19. Infectious Diseases Society of America 2021; Version 5.2.0. Available at https://www.idsociety.org/practice-guideline/covid-19-guideline-treatment-and-management/. Accessed 4 January 2023.



[29] World Health Organization. Therapeutics and COVID-19 Living Guidelines v12.2. Available at https://app.magicapp.org/#/guideline/nBkO1E/rec/nBMO8R. Accessed 4 January 2023.



## Appendix 1: Preliminary Evidence to Decision

## Table 1. Summary of initial judgements prior to the panel discussion (N=12/12)

FACTORS			IL		RESEARCH EVIDENCE/ADDITIONAL CONSIDERATIONS		
Problem	No	Yes (12)					<ul> <li>Yes, COVID-19 has affected millions of people worldwide and has caused substantial mortality and morbidity.</li> </ul>
Benefits	Large	Moderate (1)	Small (2)	Trivial (6)	Uncertain (3)		<ul> <li>Based on 19 RCTs, colchicine did not show any significant difference compared to standard care in reducing all-cause mortality (RR 0.99, 95% CI 0.93-1.06; I2=0%).</li> <li>There was no difference in hospital discharge within 28 days between the colchicine and control groups (RR 1.00, 95% CI 0.97-1.03, 5 RCTs). There was no significant benefit in reducing length of hospitalization (MD 1.34 days shorter, 95% CI 2.79 days shorter to 0.12 days longer, 5 RCTs).</li> <li>Results were inconclusive for the outcome need for mechanical ventilation (RR 0.84, 95% CI 0.67-1.06, 8 RCTs), need for ICU admission (RR 0.69, 95% CI 0.40-1.21, 5 RCTs), need for hemodialysis or hemofiltration (RR 1.07, 95% CI 0.88-1.29, 1 RCT), clinical deterioration defined as at least 2 grade deterioration in the WHO ordinal scale (RR 0.40, 95% CI 0.14-1.18, 2 RCTs) and need for hospitalization (RR 0.89, 95% CI 0.71-1.11, 3 RCTs).</li> </ul>
Harm	Large	Moderate (6)	Small (4)	Trivial (1)	Varies (1)	Uncertain	<ul> <li>Results are inconclusive for serious adverse events (RR 0.83, 95% Cl 0.67-1.03, I2=0, 11 RCTs).</li> <li>There were significantly more adverse events among patients who received colchicine (RR 1.78, 95% Cl 1.36-2.32; I2=65%, 13 RCTs). The most common was diarrhea. Other adverse events included abdominal pain, nausea, and rash.</li> </ul>



Certainty of Evidence	High	Moderate (1)	Low (3)	Very low (8)			<ul> <li>The overall certainty of evidence was rated very low because of serious risk of bias in the included studies, as well as issues with inconsistency and imprecision in 1 critical outcome.</li> </ul>
Balance of effects	Favors intervention	Probably favors intervention	Does not favor intervention or no intervention (1)	Probably favors no intervention (4)	Favors no intervention (7)	Varies	<ul> <li>Colchicine showed net potential harm (significant increase in adverse events) with no significant benefit in all-cause mortality, need for mechanical ventilation, hospital discharge within 28 days, need for hospitalization, need for ICU admission, need for hemodialysis or hemofiltration, clinical deterioration, and length of hospitalization.</li> </ul>
Values	Important uncertainty or variability	Possibly important uncertainty or variability (6)	Probably no important uncertainty or variability (4)	No important uncertainty or variability (2)			
Resources Required	Varies (1)	Large cost	Moderate Cost	Negligible cost or savings (10)	Moderate savings	Large savings (1)	<ul> <li>Colchicine is a widely used drug for treatment of acute gout. In the Philippines, colchicine is available in several drug stores and is sold under various brands and as a generic drug. The price of 1 colchicine 500mcg tablet is ₱2.10.</li> </ul>
Certainty of evidence of required resources	No included studies (3)	Very low (2)	Low (4)	Moderate (1)	High (2)		<ul> <li>The price of 1 colchicine 500mcg tablet is ₱2.10 based on the 2021 Philippine Drug Reference Index.</li> </ul>
Cost effectiveness	No included studies (9)	Favors using the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison (2)	Probably favors the invention	Varies (1)	
Equity	Don't know (3)	Varies (3)	Probably reduced	Probably no impact (6)	Probably increased	Increased	
Acceptability	Uncertain	Varies (1)	No (2)	Probably no (5)	Probably yes (3)	Yes (1)	
Feasibility	Uncertain	Varies (2)	No (1)	Probably no (4)	Probably yes (4)	Yes (1)	
Recommendation	For	Against (12)					
Strength	Weak (10)	Strong (2)					



## Appendix 2: Search Yield and Results

		DATE AND	RESULTS		
DATABASE	SEARCH STRATEGY / SEARCH TERMS	TIME OF SEARCH	Yield	Eligible	
Medline	<pre>{"Coronavirus Infections"[Mesh] OR "Coronavirus"[Mesh] OR coronavirus OR novel coronavirus OR NCOV OR "COVID-19" [Supplementary Concept] OR covid19 OR covid 19 OR covid-19 OR "severe acute respiratory syndrome coronavirus 2" [Supplementary Concept] OR severe acute respiratory syndrome coronavirus 2 OR SARS2 OR SARS 2 OR SARS COV2 OR SARS COV 2 OR SARS-COV- 2} AND (colchicine OR colchicine{Mesh}) Filters: August 29, 2021 to January 3, 2023</pre>	January 3, 2023 11:00PM	201	12	
CENTRAL	MeSH descriptor: [Coronaviridae Infections] explode all trees OR MeSH descriptor: [Coronavirus] explode all trees OR coronavirus OR novel coronavirus OR NCOV OR covid19 OR covid 19 OR covid-19 OR severe acute respiratory syndrome coronavirus 2 OR SARS2 OR SARS 2 OR SARS COV2 OR SARS COV 2 OR SARS-COV-2} AND (colchicine OR MeSH descriptor: [Colchicine] explode all trees Filters: August 29, 2021 to January 3, 2023	January 3, 2023 11:00PM	48	2	
COVID-NMA Initiative	Colchicine	January 3, 2023 11:00PM	13	1	
ClinicalTrials.gov	Colchicine and COVID19	January 3, 2023 11:00PM	8	8	
Chinese Clinical Trial Registry	Colchicine	January 3, 2023 11:00PM	12	0	
EU Clinical Trials Register	Colchicine and COVID	January 3, 2023 11:00PM	5	3	
Republic of Korea - Clinical Research Information Service	Colchicine	January 3, 2023 11:00PM	1	0	
Japan Primary Registries Network/ NIPH Clinical Trials Search	Colchicine	January 3, 2023 11:00PM	28	0	
CenterWatch	Colchicine and COVID	January 3, 2023 11:00PM	26	0	
		•			
chinaxiv.org	Colchicine	January 3, 2023 11:00PM	1	0	
Medrxiv.org	Colchicine Filters: August 29, 2021 to January 3, 2023	January 3, 2023 11:00PM	55	0	
Biorxiv.org	Colchicine and COVID Filters: August 29, 2021 to January 3, 2023	January 3, 2023 11:00PM	10	0	



## Appendix 3: Characteristics of Included Studies

Study ID	Patients (n) & Duration of Follow-up	Interventions	Outcomes	Method
Colchicine for community-treated patients with COVID- 19 (COLCORONA): A phase 3, randomised, double-blinded, adaptive, placebo- controlled, multicenter trial <i>Tardif et al. 2021</i> ( <i>Canada, USA,</i> <i>Brazil</i> ) [4]	N = 4488 Non-hospitalized patients with COVID-19 diagnosed by polymerase chain reaction (PCR) testing or clinical criteria at least 40 years of age <u>Duration of follow-up:</u> Approximately 30 days	EXPERIMENTAL: Colchicine (0.5mg twice daily for 3 days and once daily thereafter) CONTROL: Placebo	PRIMARY: Composite of death or hospitalization due to COVID-19 infection SECONDARY: Components of the composite primary endpoint; need for mechanical ventilation, serious adverse events, and non-serious adverse events	Randomized Parallel Double-blind
Beneficial effects of colchicine for moderate to severe COVID-19: a randomised, double- blinded, placebo-controlled clinical trial <i>Lopes et al., 2021</i> <i>(Brazil)</i> [7]	N = 75 Adults <b>hospitalized with</b> <b>moderate or severe</b> forms of COVID-19 diagnosed by RT-PCR in nasopharyngeal swab specimens and lung CT scan involvement compatible with COVID-19 pneumonia, <u>Duration of follow-up:</u> Up to 26 days	EXPERIMENTAL: Colchicine 0.5mg 3x daily for 5 days, then 0.5mg 2x daily for 5 days plus standard care CONTROL: Standard of care (azithromycin, hydroxychloroquine (HCQ), unfractionated heparin, methylprednisolone)	PRIMARY: Time of need for supplemental oxygen, time of hospitalization, need for admission and length of stay in ICU, death rate and causes of mortality SECONDARY: Adverse events	Randomized placebo- control double blind
Effect of Colchicine vs Standard Care on Cardiac and Inflammatory Biomarkers and Clinical Outcomes in Patients Hospitalized with Coronavirus Disease 2019 The GRECCO-19 Randomized Clinical Trial Deftereos et al., 2020 (Greece) [8]	N = 110 <b>Hospitalized</b> adult patients diagnosed with SARS- CoV-2 infection by RT- PCR <u>Duration of follow-up:</u> 21-25 days	EXPERIMENTAL: Colchicine administration (1.5- mg loading dose followed by 0.5mg after 60 min and maintenance doses of 0.5mg twice daily) with standard medical treatment CONTROL: Standard medical treatment (azithromycin, HCQ)	PRIMARY: Time to deterioration by 2 points on a 7-grade clinical status scale (WHO R&D Blueprint Ordinal Clinical Scale), ranging from able to resume normal activities to death SECONDARY: Need for mechanical ventilation, all-cause mortality, adverse events.	Randomized parallel
The Impact of Colchicine on the COVID-19 Patients: A Clinical Trial Study Salehzadeh et al. 2022 (Iran) [9]	N = 100 Pulmonary involvement seen in CT-Scan compatible with COVID-19 and Positive PCR of COVID-19. <u>Duration of follow-up:</u> 21 to 30 days	EXPERIMENTAL: HCQ + colchicine 1mg OD CONTROL: HCQ + placebo	PRIMARY: Length of hospitalization; symptoms and co- existed disease SECONDARY Mortality and morbidity, re-admission, and symptoms	Randomized double blind Placebo control



Colchicine in patients admitted to hospital with COVID-19 (RECOVERY): a randomised, controlled, open- label, platform trial <i>Horby et al. 2021</i> <i>(UK, Indonesia, Nepal)</i> [10]	N = 11,340 Clinically suspected or laboratory confirmed SARS-CoV-2 infection among patients admitted in a <b>hospital</b> <u>Duration of follow-up:</u> 28 days	EXPERIMENTAL: Colchicine 1mg after randomization followed by 500mcg 12 hours later and then 500mcg twice daily for 10 days in total or until discharge CONTROL: Usual care (corticosteroids, remdesivir, and tocilizumab)	PRIMARY: Mortality SECONDARY: Time to discharge from hospital, invasive mechanical ventilation non-invasive respiratory support, time to successful cessation of invasive mechanical ventilation, use of renal dialysis or hemofiltration, cause- specific mortality, and serious adverse reactions	Randomized controlled trial
Colchicine Is Safe Though Ineffective in the Treatment of Severe COVID-19: a Randomized Clinical Trial (COLCHIVID) Absalón-Aguilar et al. 2021 (Mexico) [11] NCT04367168	N=116 Hospitalized adult patients aged 18 to 70 years positive for at least one of the following: polymerase chain reaction (PCR) for SARS-CoV-2 in nasopharyngeal swab, rapid antigen test, or serum anti- SARS-CoV-2 IgG antibodies. All patients were classified as severe COVID-19	EXPERIMENTAL: Colchicine 1.5 mg followed by 500mcg twice daily for 10 days CONTROL: Placebo, usual care (dexamethasone)	PRIMARY: Death or progression to critical disease, defined as multiple organ failure, shock, or need for invasive mechanical ventilation. SECONDARY: Duration of intensive care unit (ICU) stay, the total length of hospital admission, the type and number of adverse	Triple-blind parallel non- stratified placebo- controlled clinical trial <b>Suspended</b> early due to futility
Efficacy of Colchicine and Budesonide in Improvement Outcomes of Patients with Coronavirus Infection 2019 in Damascus, Syria: A Randomized Control Trial Alsultan et al. 2021 (Syria) [12]	Adult patients with positive PCR test or negative PCR test but had clinical signs and symptoms of viral illness accompanied with chest CT scan showing the radiologic findings of viral pneumonia, AND oxygen saturation ≤93% (severe)	EXPERIMENTAL: 1. colchicine 1.5mg followed by 0.5mg after hour in day 1, then 0.5 mg twice daily for the next 4 days) 2. budesonide inhaler CONTROL: supportive care (oxygen supplementation, vitamins, anticoagulants, dexamethasone, prone position, noninvasive ventilation, antibiotics, and fluids)	events Median hospitalization days, median days on oxygen supplementation, mortality, recovery	Randomized 3-arm trial
Efficacy and safety of Ixekizumab vs. low- dose IL-2 vs. Colchicine vs. standard of care on the treatment of patients hospitalized with moderate to	N=60 Adult hospitalized with moderate to critical COVID-19, unvaccinated	EXPERIMENTAL Colchicine: 0.5 mg (PO) every 8 hours for three days, then 0.5 mg BID x 4 weeks CONTROL	PRIMARY clinical improvement (decrease of two points on the WHO ordinal scale of seven categories) SECONDARY	multicenter, open-label, randomized, adaptive study of 4 arms



	Standard care (oxygen, dexamethasone, anticoagulants)	Duration of hospitalization. Length of stay in the ICU. Duration of mechanical ventilation	
NL 000			
Hospitalized adult patients with moderate to severe COVID-19 pneumonia with at least 2 of the following 4 inflammatory criteria: C- reactive protein>4 mg/dL, D-dimer>1 mg/L, ferritin>1000 ng/mL or fever≥38 °C in the last 24 h	Colchicine (5 days of oral treatment: 1 mg loading dose and then 0.5 mg/day) CONTROL: Standard care (steroids, heparin)	Composite: non- invasive mechanical ventilation, admission to the intensive care unit, invasive mechanical ventilation requirement or death SECONDARY: hospital stay, adverse events	prospective, randomized controlled, observer- blinded endpoint (PROBE), investigator- initiated trial.
N=1279 Hospitalized adults (age ≥18 years) with confirmed or suspected COVID-19, mild to critical	EXPERIMENTAL: Colchicine 1.5 mg, followed by 0.5 mg orally within 2 hours, and subsequently 0.5 mg orally twice a day for 14 days or discharge CONTROL: Standard care	PRIMARY: composite of a new requirement for mechanical ventilation or death evaluated at 28 days SECONDARY: new requirement for mechanical ventilation or death from respiratory failure, new requirement for mechanical ventilation or death from nonrespiratory cause, mortality due to respiratory failure and mortality due to nonrespiratory cause, in-hospital death	open-label, multicenter, randomized clinical trial
N=4997 18–65 years with comorbidities or shortness of breath <b>Outpatient</b>	EXPERIMENTAL colchicine 500 µg daily for 14 days CONTROL: Standard care (antipyretics, inhaled budesonide)	PRIMARY: time to first-reported recovery defined as the first instance that a participant reports feeling recovered; admission to hospital or death related to COVID-19.	randomised, controlled, adaptive platform trial Suspended early due to futility
	with moderate to severe COVID-19 pneumonia with at least 2 of the following 4 inflammatory criteria: C- reactive protein>4 mg/dL, D-dimer>1 mg/L, ferritin>1000 ng/mL or fever≥38 °C in the last 24 h N=1279 Hospitalized adults (age ≥18 years) with confirmed or suspected COVID-19, mild to critical N=4997 18–65 years with comorbidities or shortness of breath	N=239EXPERIMENTAL: Colchicine (5 days of oral treatment: 1 mg loading dose and then 0.5 mg/day)N=239EXPERIMENTAL: Colchicine (5 days of oral treatment: 1 mg loading dose and then 0.5 mg/day)Pneumonia with at least 2 of the following 4 inflammatory criteria: C- reactive protein>4 mg/dL, D-dimer>1 mg/L, ferritin>1000 ng/mL or fever≥38 °C in the last 24 hCONTROL: Standard care (steroids, heparin)N=1279EXPERIMENTAL: Colchicine 1.5 mg, followed by 0.5 mg orally within 2 hours, and subsequently 0.5 mg orally twice a day for 14 days or dischargeN=4997EXPERIMENTAL colchicine 500 µg daily for 14 daysN=4997EXPERIMENTAL colchicine 500 µg daily for 14 daysN=4997EXPERIMENTAL colchicine 500 µg daily for 14 daysN=4997EXPERIMENTAL colchicine 500 µg daily for 14 daysN=4097EXPERIMENTAL colchicine 500 µg daily for 14 daysN=4097Experime for 4 daysStandard care (antipyretics, inhaled	N=239EXPERIMENTAL: Colhicine (5 days of oral treatment: 1 mg loading dose and the source COVID-19 pneumonia with at least 2 of the following 4 infianmatory criteria: C- reactive protein>4 mg/dL, D-dimers 1 mg/L, ferritin>1000 ng/mL or fever238 °C in the last 24 hEXPERIMENTAL: CONTROL: Standard care (steroids, heparin)PRIMARY Composite non- invasive mechanical ventilation, admission to the intensive care unit, invasive mechanical ventilation requirement or death SECONDARY: hospitalized adults (age 218 years) with confirmed or suspected COVID-19, mild to criticalPRIMARY: Contract Contract Contract Standard care followed by 0.5 mg orally within 2 hours, and subsequently 0.5 mg orally twice a day for 14 days or dischargePRIMARY: composite of a new requirement of anew requirement for mechanical ventilation or death trom norrespiratory cause, in-obspital y due to nonrespiratory cause, in-obspital or daily for 14 days for 14 days for 14 days for the days for 14 days for the days for the daysPRIMARY: met respiratory cause, in-obspital or death from nonrespiratory cause, in-obspital or daily for 14 daysN=4997 18-65 years with comorbidities or shortness of breathEXPERIMENTAL cohcine 500 µg daily for 14 days for 14 daysPRIMARY: time to first-reported respiratory failure and mortality due to nonrespiratory cause, in-obspital or death freat tex<



ISRCTN86534580 Colchicine and aspirin in community patients with COVID-19 (ACT): an open-label, factorial, randomised, controlled trial Eikelboom et al. 2022 (Canada) [17]	N=3881 Symptomatic laboratory- confirmed COVID-19 disease, at least 30 years old and within 7 days of diagnosis or worsening clinically (but not requiring hospitalisation). Patients younger than 70 years had to have at least one additional risk factor for disease progression, including male sex, body- mass index of at least 30 kg/m2, chronic cardio- vascular, respiratory, or renal disease, active cancer, or diabetes.	EXPERIMENTAL Colchicine 0.6 mg twice daily for 3 days and then 0.6 mg once daily for 25 days CONTROL: Standard care	early, sustained recovery, time to sustained recovery, duration of hospital admission, oxygen administration, intensive care unit admission, mechanical ventilation, World Health Organization (WHO) ordinal scale of clinical progression, serious adverse events, all- cause death or urgent, non-elective hospital admission PRIMARY hospitalisation or death SECONDARY hospitalisation or respiratory death and individual components of composites	outpatient, open-label, 2 × 2 factorial, randomised, controlled trial
Randomized	Outpatient N=160	EXPERIMENTAL:	PRIMARY	randomized
controlled trial of colchicine add on to the standard therapy in moderate and severe corona virus Disease-19 infection Gorial et al. 2022 (Iraq) [18] NCT05151614	adults aged 18 years and above, <b>hospitalized with</b> <b>moderate to severe</b> COVID19	colchicine 1 mg daily orally for 7 days then 0.5 mg daily for another 7 days CONTROL: Standard care (acetaminophen, vitamin C, zinc, vitamin d3, azithromycin, oxygen, dexamethasone or methylprednisolone)	Death up to 14 days SECONDARY time to recovery, adverse events	controlled open label trial
Colchicine anti- inflammatory therapy for non-intensive care unit hospitalized covid-19 patients: results from a pilot open-label, randomized controlled clinical trial	N=96 adults aged 18 years and above, <b>hospitalized with</b> <b>moderate to severe</b> COVID19	EXPERIMENTAL colchicine 1.5 mg followed by 0.5 mg dose every 12 hours for 14 days CONTROL Standard care (corticosteroids,	PRIMARY Recovery within 14 days SECONDARY Improvement of symptoms, all-cause mortality, need for ICU	randomized controlled open label trial



Haroon et al. 2022		anticoagulants,		
(Pakistan) [19]		antibiotics, PPI)		
NCT04667780				
Effectiveness of	N=80	EXPERIMENTAL	time of hospitalization,	Randomized,
Colchicine among Patients with COVID-	potiopto with mild	Colchicine 0.5 mg twice a day for 14	adverse events,	Open-Labeled, Clinical Trial
19 Infection: A	patients with mild, moderate, or severe	days		
Randomized, Open-	COVID-19 infection; either	uays		
Labeled, Clinical Trial	hospitalized or at home,	CONTROL		
	confirmed RTPCR and/or	Standard care		
Jalal et al. 2022 (Iraq)	computed tomography	(azithromycin,		
[20]	scan compatible with	LMWH, remdesivir,		
	COVID-19, between 18	faviripavir,		
NCT04867226	and 70 years old.	corticosteroids)		
Colchicine in	N=103	EXPERIMENTAL	PRIMARY	randomized
Recently Hospitalized		1.5 mg followed by	change in the WHO 7-	Phase III,
Patients with COVID-	adults aged 18 years and	0.5 mg every 12	points ordinal clinical	controlled and
19: A Randomized	above, <b>hospitalized</b> with	hours during the next	scale in 28 days	open-label
Controlled Trial (COL- COVID)	COVID19 (non-ICU, moderate to severe)	7 days and 0.5 mg every 24 hours until	SECONDARY	clinical trial
	moderate to severe)	the completion of 28	death, ICU admission,	
Pascual-Figal et al.		days of total	mechanical ventilation	
2021 (Spain) [21]		treatment	(non-invasive and	
		lioutinoni	invasive)	
		CONTROL		
		Standard care		
		(dexamethasone,		
		remdesivir,		
		tocilizumab,		
The star suct with	NI 450	baracitinib)		internetienel
Treatment with COLchicine in	N=152	EXPERIMENTAL	PRIMARY Composite - respiratory	interventional, multicenter,
hospitalized patients	hospitalized adult	colchicine 0.5 mg three times a day if	failure requiring	randomized,
affected by COVID-	COVID-19 patients, critical	weight was less than	mechanical ventilation;	phase 2 study
19: The COLVID-19	(with ARDS), unvaccinated	100 kg or 1 mg twice	patients with other	phase 2 study
trial		a day if weight was	organ failure who	
		more than 100 kg for	needed ICU monitoring	
Perricone et al. 2023		a maximum of 30	and treatment; death.	
(Italy) [22]		days or until hospital		
		discharge	SECONDARY	
NCT04375202.			Adverse events	
		CONTROL		
		Standard care (dexamethasone)		
Colchicine for the	N=93	EXPERIMENTAL	PRIMARY	multicenter
Treatment of Cardiac		colchicine 0.6 mg	Composite - all-cause	open-label
Injury in Hospitalized	hospitalized adult	twice daily for 30	mortality, need for	RCT
Patients With	patients with documented	days	mechanical ventilation,	
Coronavirus Disease-	COVID-19 and evidence of	J -	or need for MCS at 90	
19	cardiac injury	CONTROL	days	
		Standard care		
Rabbani et al. 2022			SECONDARY	
(USA) [23]			individual components	
NOTO			of the primary endpoint,	
NCT04355143			time to the primary	
			endpoint, change in the WHO R&D Blueprint	
			Ordinal Scale at 30	
			days, and at least 2-	
			grade reduction (i.e.,	
	1	1	9.440 104404011 (1.0.,	



## Philippine COVID-19 Living Clinical Practice Guidelines

Efficacy of colchicine in patients with moderate COVID-19: A double-blinded, randomized, placebo- controlled trial Rahman et al. 2022 (Bangladesh) [24]	N=300 Adult <b>hospitalized</b> with <b>moderate</b> COVID-19 based on a positive RT- PCR result	EXPERIMENTAL 1.2 mg of colchicine 12 h divided doses on day 1 followed by 0.6 mg for 13 days CONTROL Standard care (paracetamol,	clinical improvement) in the WHO Ordinal Scale at 30 days, re- hospitalization at 90 days PRIMARY time to clinical deterioration SECONDARY length of hospital stay, proportion of participants requiring supplemental oxygen,	double- blinded, randomized, placebo- controlled trial
(Bangladesh) [24] NCT04527562		(paracetamol, antihistamines, oxygen, LMWH, antibiotics, remdesivir)	supplemental oxygen, proportion of participants requiring mechanical ventilation; all-cause mortality days 14 and 28	



## Appendix 4: Study Appraisal

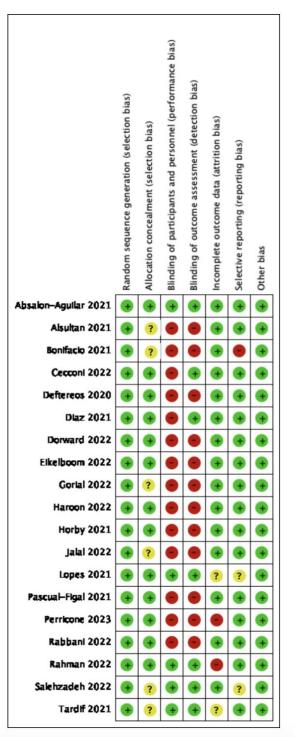


Figure 1. Risk of bias summary table



## Appendix 5: GRADE Evidence Profile

# Author(s): Carol Stephanie C. Tan-Lim, MD, MSc Question: Colchicine for treatment of COVID-19

	Certainty assessment				№ of patients		Effect					
№ of studie s	Study design	Risk of bias	Inconsistenc y	Indirectness	Imprecision	Other consideratio ns	All-cause mortality	placebo	Relative (95% CI)	Absolute (95% Cl)	Certainty	Importan ce
All-caus	se mortality											
19	randomis ed trials	serious ª	not serious	not serious	not serious	publication bias strongly suspected <sup>b</sup>	1358/11402 (11.9%)	1405/11519 (12.2%)	<b>RR 0.99</b> (0.93 to 1.06)	1 fewer per 1,000 (from 9 fewer to 7 more)	⊕⊕⊖⊖ Low	CRITICA L
Need fo	r mechanica	al ventilati	on									
8	randomis ed trials	serious c	not serious	not serious	serious <sup>d</sup>	none	896/6548 (13.7%)	1008/6706 (15.0%)	<b>RR 0.84</b> (0.67 to 1.06)	<b>24 fewer per</b> <b>1,000</b> (from 50 fewer to 9 more)	⊕⊕⊖⊖ Low	CRITICA L
Hospita	l discharge	within 28	days									
5	randomis ed trials	serious e	not serious	not serious	not serious	none	4029/5755 (70.0%)	4156/5877 (70.7%)	<b>RR 1.00</b> (0.97 to 1.03)	0 fewer per 1,000 (from 21 fewer to 21 more)	⊕⊕⊕⊖ Moderat e	CRITICA L
Length	of hospitaliz	zation										
5	randomis ed trials	serious e	serious <sup>f</sup>	not serious	serious <sup>d</sup>	none	249	248	-	MD <b>1.34</b> <b>lower</b> (2.79 lower to 0.12	⊕⊖⊖ ⊖ Very low	CRITICA L

Need for ICU admission

to 0.12 higher)



			Certainty a	ssessment			Nº of p	atients	E	ffect		
№ of studie s	Study design	Risk of bias	Inconsistenc y	Indirectness	Imprecision	Other consideratio ns	All-cause mortality	placebo	Relative (95% CI)	Absolute (95% CI)	Certainty	Importan ce
5	randomis ed trials	serious g	not serious	not serious	serious <sup>d</sup>	none	20/442 (4.5%)	30/440 (6.8%)	<b>RR 0.69</b> (0.40 to 1.21)	21 fewer per 1,000 (from 41 fewer to 14 more)	⊕⊕⊖⊖ Low	CRITICA L

#### **Clinical deterioration**

2	randomis ed trials	serious h	not serious	not serious	serious <sup>d</sup>	none	4/198 (2.0%)	11/197 (5.6%)	<b>RR 0.40</b> (0.14 to 1.18)	<b>34 fewer per</b> <b>1,000</b> (from 48 fewer to 10 more)	⊕⊕⊖⊖ Low	CRITICA L	
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#### Need for hospitalization

#### Serious adverse events

11	randomis ed trials	serious <sup>j</sup>	not serious	not serious	serious <sup>d</sup>	none	152/4824 (3.2%)	184/4818 (3.8%)	<b>RR 0.83</b> (0.67 to 1.03)	6 fewer per 1,000 (from 13 fewer to 1 more)	⊕⊕⊖⊖ Low	CRITICA L	
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#### Adverse events

13	randomis ed trials	serious <sup>k</sup>	serious <sup>t</sup>	not serious	not serious	none	924/3556 (26.0%)	630/3625 (17.4%)	<b>RR 1.78</b> (1.36 to 2.32)	<b>136 more</b> <b>per 1,000</b> (from 63 more to 229 more)	⊕⊕⊖⊖ Low	IMPORT ANT	
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CI: confidence interval; MD: mean difference; RR: risk ratio

#### Explanations

a. Lack of blinding in 14 studies, attrition bias in 2 studies, selective reporting bias in 1 study b. Asymmetric funnel plot c. Lack of blinding in 6 studies, attrition bias in 3 studies



d. Wide confidence interval

e. Lack of blinding in 4 studies, unclear attrition and selective reporting bias in 1 study

f. I2>50%

g. Lack of blinding in 4 studies, attrition bias in 2 studies

h. Lack of blinding in 1 study, attrition bias in 1 study

i. Lack of blinding in 2 studies, unclear allocation concealment and attrition bias in 1 study

j. Lack of blinding in 8 studies, attrition bias in 3 studies, unclear allocation concealment and selective reporting in 1 study

k. Lack of blinding in 9 studies, attrition bias in 4 studies, unclear allocation concealment in 4 studies, unclear selective reporting in 1 study



## Appendix 6: Forest Plots

	Colchi	cine	Cont	rol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight I	M-H, Random, 95% CI	M–H, Random, 95% Cl
1.9.1 Hospitalized							
Absalon-Aguilar 2021	4	56	6	60	0.3%	0.71 [0.21, 2.40]	
Alsultan 2021	2	7	4	11	0.2%	0.79 [0.19, 3.21]	
Bonifacio 2021	0	5	1	5	0.0%	0.33 [0.02, 6.65]	
Cecconi 2022	7	119	10	120	0.5%	0.71 [0.28, 1.79]	
Deftereos 2020	1	56	4	54	0.1%	0.24 [0.03, 2.09]	
Diaz 2021	131	640	142	639	10.0%	0.92 [0.75, 1.14]	-
Gorial 2022	1	60	3	60	0.1%	0.33 [0.04, 3.14]	
Haroon 2022	4	48	3	46	0.2%	1.33 [0.32, 5.64]	
Horby 2021	1173	5610	1190	5730	86.3%	1.01 [0.94, 1.08]	
Lopes 2021	0	38	2	37	0.0%	0.19 [0.01, 3.93]	·
Pascual-Figal 2021	0	52	2	51	0.0%	0.20 [0.01, 3.99]	· · · · · · · · · · · · · · · · · · ·
Perricone 2023	7	77	5	75	0.4%	1.36 [0.45, 4.11]	
Rabbani 2022	6	48	6	45	0.5%	1.25 [0.47, 3.32]	
Rahman 2022	2	146	5	146	0.2%	0.40 [0.08, 2.03]	
Salehzadeh 2022	0	50	0	50		Not estimable	
Subtotal (95% CI)		7032		7151	98.9%	0.99 [0.93, 1.06]	•
Total events	1340		1383				
Heterogeneity: $Tau^2 = 0$ Test for overall effect: Z				(P = Q.7	9); = 0%		
Heterogeneity: Tau <sup>2</sup> = 0 Test for overall effect: Z 1.9.2 Non-hospitalized	: = 0.26 (P			(P = 0.7	9); = 0,4		
Test for overall effect: Z	: = 0.26 (P			(P = 0.7 133	9); F = 0% 0.0%	0.26 [0.01, 6.93]	
Test for overall effect: Z 1.9.2 Non-hospitalized	: = 0.26 (P d	e 0.79	)				
Test for overall effect: Z 1.9.2 Non-hospitalized Dorward 2022 Elkelboom 2022 Tardif 2021	: = 0.26 (P d 0	= 0.79 156	) 1	133 1942 2253	0.0%	0.26 [0.01, 6.93]	
Test for overall effect: Z 1.9.2 Non-hospitalized Dorward 2022 Elkelboom 2022	: = 0.26 (P d 12	= 0.79 156 1939	) 1 11	133 1942	0.0% 0.7%	0.26 [0.01, 6.93] 1.09 [0.48, 2.47]	
Test for overall effect: Z 1.9.2 Non-hospitalized Dorward 2022 Elkelpoom 2022 Tardif 2021 Subtotal (95% CI) Total events	d 0 12 5 17	156 1939 2235 4330	) 11 9 21	133 1942 2253 4328	0.0% 0.7% 0.4% 1.1%	0.28 [0.01, 6.93] 1.09 [0.48, 2.47] 0.56 [0.19, 1.67]	
Test for overall effect: Z 1.9.2 Non-hospitalized Dorward 2022 Elkelboom 2022 Tardif 2021 Subtotal (95% CI)	d 0 12 5 17 0.00; Chi <sup>2</sup>	156 1939 2235 4330 = 1.37,	) 11 9 21 df = 2 (F	133 1942 2253 4328	0.0% 0.7% 0.4% 1.1%	0.28 [0.01, 6.93] 1.09 [0.48, 2.47] 0.56 [0.19, 1.67]	
Test for overall effect: Z 1.9.2 Non-hospitalized Dorward 2022 Eikelboom 2022 Tardff 2021 Subtotal (95% CI) Total events Heterogeneity: Tau <sup>2</sup> = 0	z = 0.26 (P d 12 5 17 0.00; Chi <sup>2</sup> z = 0.60 (P	156 1939 2235 4330 = 1.37, - 0.55	) 11 9 21 df = 2 (P	133 1942 2253 4328	0.0% 0.7% 0.4% 1.1%	0.28 [0.01, 6.93] 1.09 [0.48, 2.47] 0.56 [0.19, 1.67]	
Test for overall effect: Z 1.9.2 Non-hospitalized Dorward 2022 Eikelboom 2022 Tardif 2021 Subtotal (95% CI) Total events Heterogeneity: Tau <sup>2</sup> = 0 Test for overall effect: Z	z = 0.26 (P d 12 5 17 0.00; Chi <sup>2</sup> z = 0.60 (P	156 1939 2235 4330 = 1.37, - 0.55	) 11 9 21 df = 2 (P	133 1942 2253 4328	0.0% 0.7% 0.4% 1.1% ); f <sup>2</sup> = 0%	0.28 [0.01, 6.93] 1.09 [0.48, 2.47] 0.56 [0.19, 1.67]	
Test for overall effect: Z 1.9.2 Non-hospitalized Dorward 2022 Eikelboom 2022 Tardif 2021 Subtotal (95% CI) Total events Heterogeneity: Tau <sup>2</sup> = 0 Test for overall effect: Z 1.9.3 Hospitalized and	z = 0.26 (P d 12 5 17 0.00; Chi <sup>2</sup> z = 0.60 (P I non-hos	156 1939 2235 4330 = 1.37, = 0.55 pitalize	) 11 9 21 df = 2 (P ) d	133 1942 2253 4328 9 = 0.50	0.0% 0.7% 0.4% 1.1% ); f <sup>2</sup> = 0%	0.28 [0.01, 6.93] 1.09 [0.48, 2.47] 0.56 [0.19, 1.67] 0.82 [0.43, 1.56]	
Test for overall effect: Z 1.9.2 Non-hospitalized Dorward 2022 Eikelboom 2022 Tardif 2021 Subtotal (95% CI) Total events Heterogeneity: Tau <sup>2</sup> = 0 Test for overall effect: Z 1.9.3 Hospitalized and Jalal 2022	z = 0.26 (P d 12 5 17 0.00; Chi <sup>2</sup> z = 0.60 (P I non-hos	156 1939 2235 4330 = 1.37, = 0.55 pitalize 40	) 11 9 21 df = 2 (P ) d	133 1942 2253 4328 • = 0.50 40	0.0% 0.7% 0.4% 1.1% ); f <sup>2</sup> = 0%	0.28 [0.01, 6.93] 1.09 [0.48, 2.47] 0.56 [0.19, 1.67] 0.82 [0.43, 1.56] 1.00 [0.06, 15.44]	
Test for overall effect: Z 1.9.2 Non-hospitalized Dorward 2022 Elkelboom 2022 Tardif 2021 Subtotal (95% CI) Total events Heterogeneity: Tau <sup>2</sup> = 0 Test for overall effect: Z 1.9.3 Hospitalized and Jalai 2022 Subtotal (95% CI)	2 = 0.26 (F 0 12 5 17 0.00; Chi <sup>2</sup> = 0.60 (F 1 non-hos 1 1 Iccable	2 = 0.79 156 1939 2235 4330 = 1.37, 2 = 0.55 pitalize 40 40	) 11 9 21 df = 2 (P ) d 1	133 1942 2253 4328 • = 0.50 40	0.0% 0.7% 0.4% 1.1% ); f <sup>2</sup> = 0%	0.28 [0.01, 6.93] 1.09 [0.48, 2.47] 0.56 [0.19, 1.67] 0.82 [0.43, 1.56] 1.00 [0.06, 15.44]	
Test for overall effect: Z 1.9.2 Non-hospitalized Dorward 2022 Eikelboom 2022 Tardif 2021 Subtotal (95% CI) Total events Heterogeneity: Tau <sup>2</sup> = 0 Test for overall effect: Z 1.9.3 Hospitalized and Jalai 2022 Subtotal (95% CI) Total events Heterogeneity: Not appl Test for overall effect: Z	2 = 0.26 (F 0 12 5 17 0.00; Chi <sup>2</sup> = 0.60 (F 1 non-hos 1 1 Iccable	2 = 0.79 156 1939 2235 4330 = 1.37, 2 = 0.55 pitalize 40 40 2 = 1.00	) 11 9 21 df = 2 (P ) d 1	133 1942 2253 4328 • = 0.50 40 40	0.0% 0.7% 0.4% 1.1% ); i <sup>2</sup> = 0% 0.1%	0.28 [0.01, 6.93] 1.09 [0.48, 2.47] 0.56 [0.19, 1.67] 0.82 [0.43, 1.56] 1.00 [0.06, 15.44] 1.00 [0.06, 15.44]	
Test for overall effect: Z 1.9.2 Non-hospitalized Dorward 2022 Elkelboom 2022 Tardif 2021 Subtotal (95% CI) Total events Heterogeneity: Tau <sup>2</sup> = 0 Test for overall effect: Z 1.9.3 Hospitalized and Jalal 2022 Subtotal (95% CI) Total events Heterogeneity: Not appl Test for overall effect: Z Total (95% CI)	2 = 0.26 (F d 12 5 17 2.00; Ch <sup>2</sup> 2 = 0.60 (F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 = 0.79 156 1939 2235 4330 = 1.37, 2 = 0.55 pitalize 40 40	) 11 9 21 df = 2 (P ) d 1 1	133 1942 2253 4328 • = 0.50 40 40	0.0% 0.7% 0.4% 1.1% ); f <sup>2</sup> = 0%	0.28 [0.01, 6.93] 1.09 [0.48, 2.47] 0.56 [0.19, 1.67] 0.82 [0.43, 1.56] 1.00 [0.06, 15.44]	
Test for overall effect: Z 1.9.2 Non-hospitalized Dorward 2022 Eikelboom 2022 Tardif 2021 Subtotal (95% CI) Total events Heterogeneity: Tau <sup>2</sup> = 0 Test for overall effect: Z 1.9.3 Hospitalized and Jalai 2022 Subtotal (95% CI) Total events Heterogeneity: Not appl Test for overall effect: Z	: = 0.26 (F d 0 12 5 17 ).00; Ch <sup>2</sup> : = 0.60 (F 1 non-hos 1 1 licable : = 0.00 (F 1356 ).00; Ch <sup>2</sup>	<pre>- 0.79 156 1939 2235 4330 - 1.37, - 0.55 pitalize 40 40 - 1.00 11402 - 10.45</pre>	) 11 9 21 df = 2 (P 1 1 1 1 1 405 , df = 17	133 1942 2253 4328 - 0.50 40 40 40	0.0% 0.7% 0.4% 1.1% ); i <sup>2</sup> = 0% 0.1% 100.0%	0.28 [0.01, 6.93] 1.09 [0.48, 2.47] 0.56 [0.19, 1.67] 0.82 [0.43, 1.56] 1.00 [0.06, 15.44] 1.00 [0.06, 15.44] 0.99 [0.93, 1.06]	0.01 0.1 1 10 10 Favours Colchicine Favours Control

Figure 2. All-cause mortality (by hospitalization status)



	Colchi		Cont			Risk Ratio	Risk Ratio
Study or Subgroup 1.1.1 Mild	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	M–H, Random, 95% Cl
Dorward 2022	0	156	1	133	0.0%	0.28 [0.01, 6.93]	
Elkelboom 2022	12	1939	11	1942	0.7%	1.09 [0.46, 2.47]	
Tardif 2021	5	2235	9	2253	0.4%	0.56 [0.19, 1.67]	
Subtotal (95% CI)		4330		4328	1.1%	0.82 [0.43, 1.56]	-
Total events	17		21				
<ul> <li>Heterogeneity: Tau<sup>2</sup> = (</li> <li>Test for overall effect: 2</li> </ul>				= 0.50	); = 0%		
rest for overall effect.	0.40 (i	0.33)					
1.1.2 Moderate							
Gorial 2022	0	40	1	40	0.0%	0.33 [0.01, 7.95]	· · · · · · · · · · · · · · · · · · ·
Rahman 2022	2	146	5	146	0.2%	0.40 [0.08, 2.03]	
Subtotal (95% CI)	2	186		186	0.2%	0.39 [0.09, 1.63]	
Total events Heterogeneity: Tau <sup>2</sup> = (		- 0.01	q df = 1 /9	- 0.92	). <b>P - A</b> M		
Test for overall effect: 2				- 0.02	//· = •/•		
		,					
1.1.3 Moderate-sever							
Cecconi 2022	7	119	10	120	0.5%	0.71 [0.28, 1.79]	
Deftereos 2020 Haroon 2022	1 4	56 48	4	54 48	0.1% 0.2%	0.24 [0.03, 2.09] 1.33 [0.32, 5.64]	
Lopes 2021	ō	36	2	37	0.0%	0.19 [0.01, 3.93]	
Pascual-Figal 2021	õ	52	2	51	0.0%	0.20 [0.01, 3.99]	
Subtotal (95% CI)		313		310	0.9%	0.64 [0.32, 1.28]	◆
Total events	12		21	•			
Heterogeneity: Tau <sup>2</sup> = (				= 0.55	);		
Test for overall effect: 7	. = 1.27 ()	r = (J.21)	,				
1.1.4 Severe							
Absalon-Aguilar 2021	4	56	6	60	0.3%	0.71 [0.21, 2.40]	
Alsultan 2021	2	7	4	11	0.2%	0.79 [0.19, 3.21]	
Gortal 2022	1	40	2	40	0.1%	0.50 [0.05, 5.30]	
Subtotal (95% CI)	-	103	10	111	0.6%	0.71 [0.30, 1.66]	-
Total events Heterogeneity: Tau <sup>2</sup> = (	7 1 00- Chế	-011	12 df - 2 /8	- 0.95			
Test for overall effect: 2				- 0.55	/, · - •/		
1.1.5 Critical							
Perricone 2023	7	77	5	75	0.4%	1.36 [0.45, 4.11]	
Subtotal (95% CI)	-	77	5	75	0.4%	1.36 [0.45, 4.11]	
Total events Heterogeneity: Not app	7 licable		,				
Test for overall effect: 2		P = 0.58)	•				
1.1.6 Mild to severe							
Jalai 2022 Subtotal (95% CI)	1	40 40	1	40 40	0.1% 0.1%	1.00 [0.06, 15.44] 1.00 [0.06, 15.44]	
Total events	1	40	1	40	0.1%	1.00 [0.00, 13.44]	
Heterogeneity: Not app			1				
Test for overall effect: 7		P = 1.00)	•				
1.1.7 Mild to critical							
Diaz 2021	131 1173	640	142	639 5730	10.0% 86.2%	0.92 [0.75, 1.14]	
Horby 2021 Subtotal (95% CI)	1173	5610 6250	1190	6369	96.2%	1.01 [0.94, 1.08] 1.00 [0.93, 1.07]	<b>—</b>
Total events	1304		1332				
Heterogeneity: Tau <sup>2</sup> = (		= 0.61, -		= 0.43	); i² = 0%		
Test for overall effect: 2							
1.1.8 Moderate to crit	ical						
Bonifacio 2021	icai 0	5	1	5	0.0%	0.33 [0.02, 6.65]	
Subtotal (95% CI)	v	5	1	5	0.0%	0.33 [0.02, 6.65]	
Total events	0		1				
Heterogeneity: Not app							
Test for overall effect: 2	z = 0.72 (i	P = (0.47)	ł				
1.1.9 Unclear severity							
Rabbani 2022	8	48	6	45	0.5%	1.25 [0.47, 3.32]	_ <b>_</b>
Salehzadeh 2022	ŏ	50	ŏ	50		Not estimable	
Subtotal (95% CI)	2	98	-	95	0.5%	1.25 [0.47, 3.32]	
Total events	8		6				
Heterogeneity: Not app							
Test for overall effect: 2	c = 0.45 (i	r = 0.65)	ł				
Total (95% CI)		11402		11519	100.0%	0.99 [0.93, 1.06]	
Total events	1358		1405				
Heterogeneity: Tau <sup>2</sup> = (		= 10.32		(P = 0.	92);	)%	0.01 0.1 1 10 100
Test for overall effect: 2					7		Favours Colchicine Favours Control
Test for subgroup diffe	rences: Ch	r = 5.19	, df = 6	(P = 0.7	(4), $f' = 0$	Ni la	

Figure 3. All-cause mortality (by severity)



	Colchi	cine	Cont	rol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M–H, Random, 95% Cl
1.2.1 Hospitalized							
Cecconi 2022	21	119	28	120	16.1%	0.76 [0.46, 1.25]	
Deftereos 2020	1	56	6	54	1.2%	0.16 [0.02, 1.29]	
Horby 2021	852	3615	941	3962	66.8X	0.94 [0.67, 1.02]	
Pascual-Figal 2021	1	52	3	51	1.0%	0.33 [0.04, 3.04]	
Perricone 2023	4	77	3	75	2.4%	1.30 [0.30, 5.61]	
Rabbani 2022	4	48	2	45	1.9%	1.88 [0.36, 9.74]	
Rahman 2022	2		4		1.6%		
Subtotal (95% CI)		4313		4453	91.2%	0.93 [0.86, 1.01]	•
Total events	885		987				
Heterogeneity: Tau <sup>2</sup> =	0.00; Cl	hľ = 5.	70, df =	6 (P =	0.46); 🖻	- 0%	
Test for overall effect:	Z = 1.71	L (P = (	).09}				
1.2.2 Nonhospitalize	d						
Tardif 2021	11	2235	21	2253	6.6%	0.53 [0.26, 1.09]	_ <b></b> +
Subtotal (95% CI)		2235		2253	8.8%	0.53 [0.26, 1.09]	
Total events	11		21				
Heterogeneity: Not app	plicable						
Test for overall effect:	Z = 1.72	2 (P = (	).09)				
Total (95% CI)		6548		6706	100.0%	0.84 [0.67, 1.06]	•
Total events	896		1008				
Heterogeneity: Tau <sup>2</sup> =	0.02; CI	ht² = 6.	04, df =	7 (P =	0.33); P	- 13%	
Test for overall effect:							0.01 0.1 1 10 100 Favours Colchicine Favours Control
Test for subgroup diffe				= 1 (P	= 0.13),	r <sup>2</sup> = 56.9%	ravours colonicine Favours Control
		-					

Figure 4. Need for Mechanical Ventilation

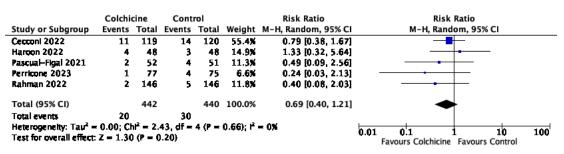
	Colchi	cine	Cont	rol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
Alsultan 2021	5	7	7	11	0.2%	1.12 [0.59, 2.14]	
Haroon 2022	36	48	37	48	1.7%	0.97 [0.78, 1.22]	
Horby 2021	3901	5610	4032	5730	61.6%	0.99 [0.96, 1.01]	
Lopes 2021	35	38	32	37	3.3%	1.06 [0.91, 1.25]	- <b>T</b> +
Pascual-Figal 2021	52	52	48	51	13.0%	1.06 [0.98, 1.15]	+
Total (95% CI)		5755		5877	100.0%	1.00 [0.97, 1.03]	
Total events	4029		4156				
Heterogeneity: Tau2 -	= 0.00; Cl	ht² = 4.	18, df =	4 (P =	0.38); P	- 4%	
Test for overall effect				•		-	0.5 0.7 1 1.5 2 Favours [experimental] Favours [control]
							ravous (experimental) Tavous (control)

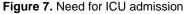
Figure 5. Hospital discharge within 28 days

	Co	lchicin	e	с	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
Haroon 2022	6.5	2.29	48	8.1	4.81	48	24.8%	-1.60 [-3.11, -0.09]	
jalal 2022	18.4	5.81	22	24.24	8.63	24	6.6%	-5.84 [-10.06, -1.62]	
Pascual-Figal 2021	6.6	3.86	52	5.76	4.89	51	23.1%	0.84 [-0.86, 2.54]	- <b>+</b>
Perricone 2023	14.1	10.4	77	14.7	8.1	75	14.1%	-0.60 [-3.56, 2.36]	
Salehzadeh 2022	6.28	2.51	50	8.12	2.66	50	29.1%	-1.84 [-2.85, -0.83]	
Total (95% CI)			249			248	100.0%	-1.34 [-2.79, 0.12]	•
Heterogeneity: Tau <sup>2</sup> = Test for overall effect					$(\mathbf{P}=0)$	02); l²	- 67%		-10 -5 0 5 10
rest for overall effect	<b>Z</b> = 1.0	50 \r -	0.077						Favours Colchicine Favours Control

Figure 6. Length of hospitalization (in days)







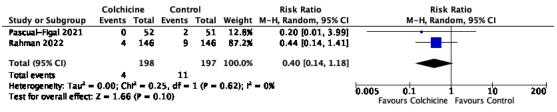
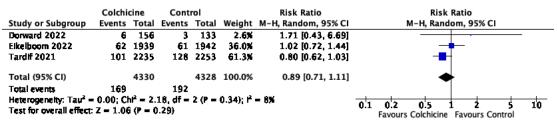
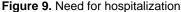
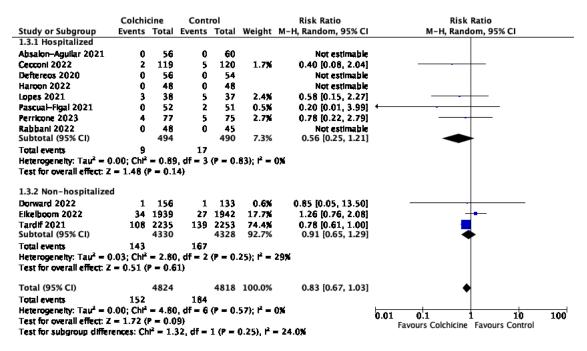
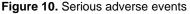


Figure 8. Clinical deterioration (at least 2 grade deterioration in WHO ordinal scale)











	Colchi	cine	Cont	rol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M–H, Random, 95% CI
1.10.1 Hospitalized							
Absalon-Aquilar 2021	15	56	7	60	7.3%	2.30 [1.01, 5.21]	
Bonifacio 2021	0	5	1	5	0.8%	0.33 [0.02, 6.65]	
Cecconi 2022	4	119	2	120	2.3%	2.02 [0.38, 10.80]	
Diaz 2021	245	612	229	665	22.6%	1.16 [1.01, 1.34]	-
Gortal 2022	11	80	1	80	1.6%	11.00 [1.45, 83.21]	· · · · · · · · · · · · · · · · · · ·
Haroon 2022	2	48	1	48	1.2%	2.00 [0.19, 21.33]	
Lopes 2021	10	38	6	37	7.4%	1.22 [0.54, 2.74]	
Pascual-Figal 2021	18	52	12	51	10.5%	1.47 [0.79, 2.73]	<b>+-</b> -
Perricone 2023	21	77	9	75	8.6%	2.27 [1.11, 4.64]	<b>_</b>
Rabbani 2022	7	48	0	45	0.9%	14.08 [0.83, 239.65]	
Rahman 2022	51	146	16	146	12.7%	3.19 [1.91, 5.32]	
Subtotal (95% CI)		1281		1332	76.2%	1.92 [1.27, 2.90]	◆
Total events	364		286				
Heterogeneity: Tau <sup>2</sup> = 0 Test for overall effect: Z				10 (P -	0.002);	<sup>2</sup> = 64%	
1.10.2 Non-hospitaliz	ed						
Tardif 2021 Subtotal (95% CI)	532	2235 2235	344	2253 2253	23.0% 23.0%	1.56 [1.38, 1.76] 1.56 [1.38, 1.76]	
Total events	532		344				
Heterogeneity: Not appl Test for overall effect: Z	licable	P < 0.0	0001)				
1.10.3 Hospitalized an	d non-h	ospitali	ized				
jalal 2022	8	40	0	40	0.9%	17.00 [1.01, 284.96]	
Subtotal (95% CI)	•	40	•	40	0.9%	17.00 [1.01, 284.96]	
Total events	8		0				
Heterogeneity: Not appl	icable		•				
Test for overall effect: Z		P = 0.0	5)				
Total (95% CI)		3556		3625	100.0%	1.78 [1.36, 2.32]	•
Total events	924		630				•
Heterogeneity: $Tau^2 = 0$ Test for overall effect: Z	).08; Chl <sup>2</sup>		2, df =	12 (P -	0.0007);	; l <sup>2</sup> = 65%	0.01 0.1 1 10 100 Favours Colchicine Favours Control
Test for subgroup differ				2 (P =	0.16), i <sup>2</sup> ·	- 44.9%	ravours colonicine ravours control

Figure 11. Adverse events

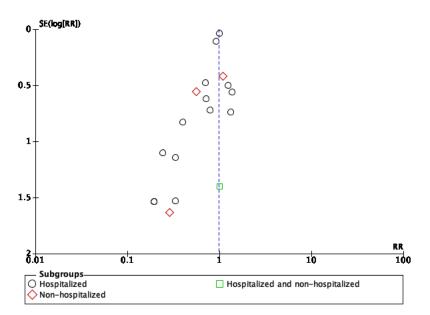


Figure 12. Funnel plot (mortality)



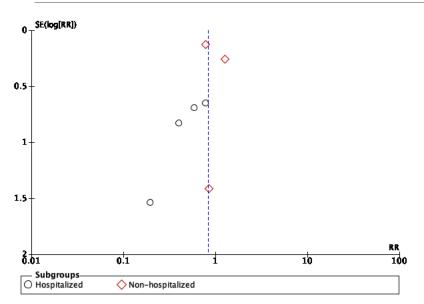


Figure 13. Funnel plot (serious adverse events)

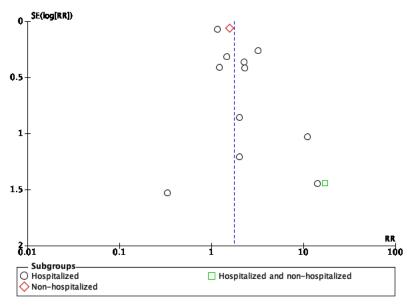


Figure 14. Funnel plot (adverse events)



## Appendix 7: Characteristics of Ongoing Studies

Study Title	Patients (n)	Interventions	Outcomes	Method
1. Study to Evaluate the Efficacy and Safety of Colchicine Tablets in Patients With COVID-19	18 to 65 years old, confirmed positive for SARS-CoV-2; symptoms appeared ≤ 5 days before randomization	Experimental: Colchicine plus Standard treatment Control: Standard treatment	Primary: Recovery rate of clinical symptoms	Randomized, Single-Center, Open-Lable, Standard Therapy Controlled Study
2. Preemptive Therapy with Colchicine in Patients Older Than 60 Years with High Risk of Severe Pneumoniae Due to Coronavirus SARS- Cov-2 (COVID-19)	At least two high-risk criteria, diagnosis of COVID-19 infection in the last 72 hours and confirmed by PCR Patients in outpatient follow-up or institutionalized in senior centers/residences	Experimental: Colchicine plus symptomatic treatment. Control: Symptomatic treatment	Primary: Death, need for hospitalization	Randomized, parallel assignment, open-label
3. Colchicine and Post- COVID-19 Pulmonary Fibrosis	Patients who are confirmed to have COVID-19 clinically, radiologically and PCR Age above 18 years old	Experimental: Colchicine plus Standard treatment Control: Standard treatment	Primary: Clinical status, pulmonary fibrosis	Randomized, parallel assignment, Single-masked
4. Double Blind Randomized Clinical Trial of Use of Colchicine Added to Standard Treatment in Hospitalized With Covid-19	<ul> <li>&gt; 18 years.</li> <li>&lt;2 weeks from the onset of symptoms.</li> <li>Admitted (with or without pneumonia) and ambulant (with pneumonia demonstrated by X- ray or CT)</li> <li>Microbiologically confirmed infection by SARS-CoV-2</li> </ul>	Experimental: Colchicine plus Standard treatment Control: Standard treatment	Primary Proportion of patients who present death, need for mechanical ventilation or respiratory distress	Randomized, parallel assignment, triple-masked
5. Adding Colchicine to Tocilizumab in Patients With Severe COVID-19 Pneumonia.	> 18 years old Severe COVID- 19 pneumonia	Experimental: Colchicine plus tocilizumab Control: tocilizumab	Primary Rate of invasive mechanical ventilation	Randomized Open Label Trial
6. Impact of Colchicine and Low-dose Naltrexone on COVID-19 (COLTREXONE)	Requiring admission to Methodist or Regions Hospital due to laboratory-confirmed COVID-19, only up to moderate COVID-19 disease	Experimental: Colchicine-Only Arm Experimental: Colchicine and Naltrexone ("Combined") Arm Experimental: Naltrexone-Only Arm No Intervention: Standard of Care Arm	Primary: Progression of COVID-19 from "moderate" classification to "severe/critical"	Randomized Open Label Trial
7. Treatment for Moderate/Severe COVID-19 in a Fragile and Vulnerable Population, Admitted to a Geriatric Hospital Unit or in a Transitional Care Center	At least 65 years old and admitted to the Geriatrics Unit of the Internal Medicine Service (Hospital Clínic de Barcelona) or to a transitional care center Clinical diagnosis compatible with COVID-19, moderate to severe	Experimental: Colchicine plus prednisone Control: Standard treatment	Primary: Reduction of mortality on day 28	Randomized Parallel assignment Open label
8. Anti-Coronavirus Therapies to Prevent Progression of COVID-19, a Randomized Trial	Outpatient trial: Symptomatic and laboratory-confirmed diagnosis of COVID-19, age ≥18 years. High risk: either age ≥70 or one of the following: male; obesity (BMI ≥30); chronic cardiovascular, respiratory or renal disease; active cancer; diabetes.	Experimental 1: Colchicine 0.6mg twice daily for 3 days, then 0.6mg once daily for 25 days (total 28 days) Experimental 2: Interferon Beta Experimental 3: Aspirin (ASA) Experimental 4: Rivaroxaban 2.5 mg Control: Usual care	Primary: Outpatient trial - hospitalization or death Inpatient trial - invasive mechanical ventilation or death	Randomized parallel group factorial Open-label