

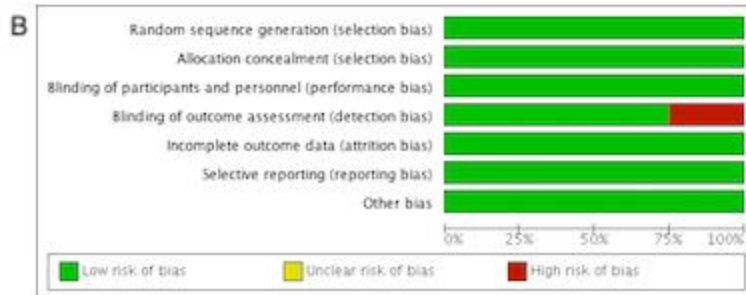
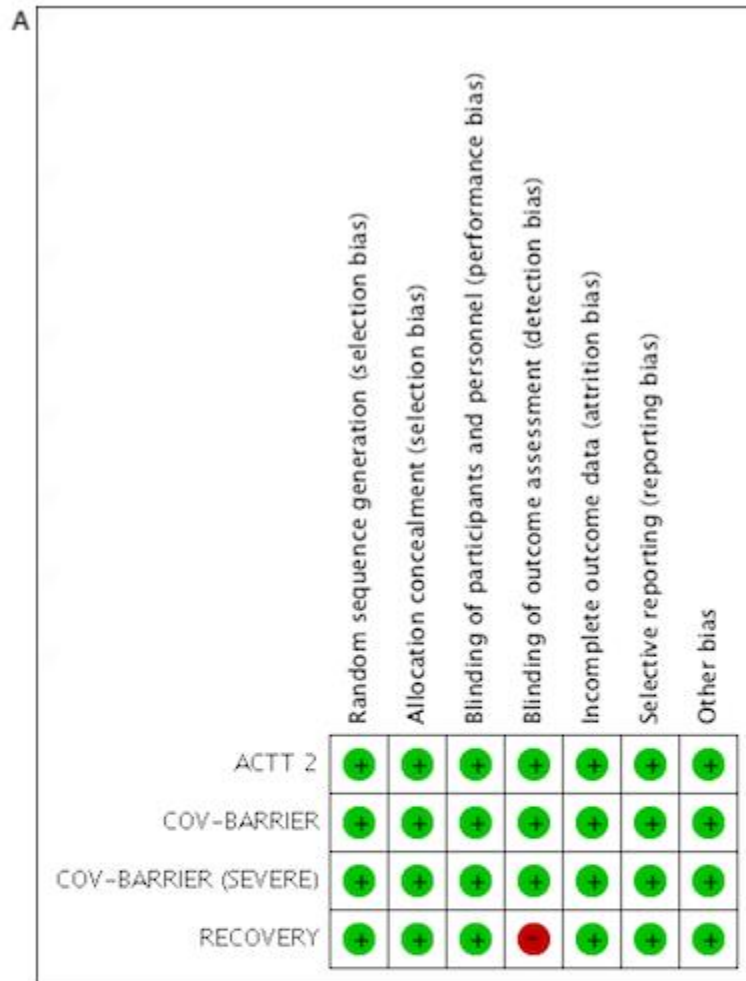
Supplementary Table 1. Exclusion criteria in the selected trials

| Reference | Exclusion Criteria |
|----------------------|--|
| ACTT-2 | Alanine aminotransferase (ALT) or an aspartate aminotransferase (AST) > 5 times the upper limit of the normal range; impaired renal function as determined by calculating an estimated glomerular filtration rate (eGFR) or need for hemodialysis or hemofiltration; allergy to study product; pregnancy or breast-feeding; and anticipated discharge from the hospital or transfer to another hospital within 72 hours of enrollment. |
| COV-BARRIER | At study entry, if patients required invasive mechanical ventilation (National Institute of Allergy and Infectious Disease Ordinal Scale [NIAID-OS] score 7); were receiving immunosuppressants (high-dose corticosteroids, biologics, T-cell-targeted or B-cell-targeted therapies, interferon, or JAK inhibitors); had ever received convalescent plasma or intravenous immunoglobulin for COVID-19; or had neutropenia (absolute neutrophil count |
| COV-BARRIER (Severe) | Patients on high dose corticosteroids (>20 mg per day [or prednisone equivalent] administered for >14 consecutive days in the month before study, unless indicated per SOC for a concurrent condition, such as asthma, chronic obstructive pulmonary disease, or adrenal insufficiency), immunosuppressants, biologics, T cell or B cell targeted therapies, interferon, or JAK inhibitors; receipt of convalescent plasma or intravenous immunoglobulin for COVID-19; or suspected serious active bacterial, fungal, or other infection, or untreated tuberculosis infection. |
| RECOVERY | Age < 2 years, eGFR < 15 ml/min/1.73 m ² , or on dialysis or hemofiltration, neutrophil count < 0.5 x 10 ⁹ /L, had evidence of TB infection, or were pregnant or breast feeding. |

Supplementary Table 2. Pooled Odds Risk of Clinical Outcomes Using Fixed-Effects Model

| Trial | Baricitinib versus placebo/usual care OR (95% CI) |
|--|--|
| 28-day mortality | 0.82, 95% CI 0.73-0.92; I ² = 65% |
| Progression to respiratory failure needing positive pressure ventilation or death | 0.89, 95% CI 0.80-0.99; I ² = 0% |
| Progression to invasive mechanical ventilation or ECMO | 0.80, 95% CI 0.69-0.94; I ² = 49% |

Supplementary Figure 1. Cochrane Risk of Bias



Supplementary Figure 2. Subgroup analysis of 28-day mortality in non-critically ill patients

