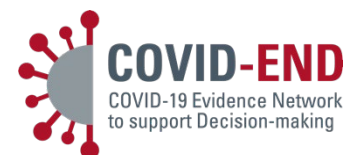


Global spotlight 10.1: Key additions for the first half of October 2021



There are five newly added evidence syntheses in the public-health measures parts of the COVID-END inventory of 'best' evidence syntheses*, 13 newly added evidence syntheses and 10 updates to evidence syntheses already included in the clinical management parts of the inventory, and two newly added evidence syntheses in the health-system arrangements parts of the inventory.

**COVID-END assigns 'best' status to evidence syntheses based on an assessment of how up-to-date they are (i.e., the date of the last search, with priority given to living reviews), quality (using the AMSTAR tool), and whether there is an evidence profile available (e.g., GRADE).*

Taxonomy section	Title	Type of synthesis	Criteria for best evidence synthesis		
			Date of last search	Quality (AMSTAR) rating	Evidence profile (e.g., GRADE) available
Public-health measures	[CT scan] Using CT-based radiomics to distinguish COVID-19 from other viral pneumonia had a pooled sensitivity of 88.5% and a pool specificity of 81.1% [Review of studies of low to moderate quality and important heterogeneity among some of their outcomes]	Newly added full review	2021-02-26	7/11	No
Public-health measures	Although no evidence has demonstrated a reduction of COVID-19 transmission using mouthwashes, rinsing with a solution 1% PVP-I or Listerine has shown to reduce the viral load [Review of observational studies of moderate quality]	Newly added full review	2021-02-01	7/10	No
Public-health measures	Evidence has shown that HEPA purifiers are the most efficient filters to decontaminate the air from particles in the range of sizes relevant to SARS-CoV-2 [Review of observational studies of unknown quality]	Newly added full review	2021-01-14	7/10	No
Public-health measures	Limited evidence is available on how to handle rapid diagnostic tests for COVID-19 in a fully vaccinated population [Review of studies of mainly moderate quality]	Newly added rapid review	2021-06-15	7/9	No
Public-health measures	COVID-19 screening among vaccinated or partially vaccinated populations has been most commonly conducted using PCR complemented with rapid antigen tests [Review of studies of unclear quality]	Newly added rapid review	2021-06-14	6/10	No
Clinical management of COVID-19 and pandemic-related health issues	[Interferon alpha-2b] The effects of using interferon alpha-2b in patients hospitalized with COVID-19 are currently uncertain	Newly added living review	2021-10-08	10/11	Yes
Clinical management of COVID-19 and pandemic-related health issues	[Lopinavir + ritonavir vs hydroxychloroquine] Compared to hydroxychloroquine, lopinavir + ritonavir may slightly increase viral negative conversion, while it probably slightly increases the serious adverse events; the effects on other outcomes are uncertain	Newly added living review	2021-10-08	10/11	Yes
Clinical management of COVID-19 and pandemic-related health issues	[Bamlanivimab] Bamlanivimab may decrease hospital admissions and may not increase adverse events among non-hospitalized COVID-19 patients; in hospitalized patients, it may not have	Newly added living review	2021-06-17	11/11	Yes

	an effect on mortality and duration of hospitalization				
Clinical management of COVID-19 and pandemic-related health issues	[Bamlanivimab + etesevimab] Among non-hospitalized COVID-19 patients, bamlanivimab + etesevimab may decrease mortality and hospital admissions, while it may increase the risk of serious adverse events; its effects on other outcomes are uncertain	Newly added living review	2021-06-17	11/11	Yes
Clinical management of COVID-19 and pandemic-related health issues	[Regdanvimab] Among non-hospitalized COVID-19 patients, regdanvimab may reduce hospital admissions or death, and it may increase the risk of serious adverse events; its effects on other outcomes are uncertain	Newly added living review	2021-06-17	11/11	Yes
Clinical management of COVID-19 and pandemic-related health issues	[REGEN-COV (casirivimab and imdevimab)] Casirivimab + imdevimab may substantially reduce hospital admissions or death, while its safety and effects on other outcomes are uncertain among non-hospitalized COVID-19 patients; in hospitalized patients, it probably has little to no effect on mortality, clinical progressions and duration of hospitalization	Newly added living review	2021-06-17	11/11	Yes
Clinical management of COVID-19 and pandemic-related health issues	[Sotrovimab] Among non-hospitalized COVID-19 patients, sotrovimab may substantially reduce oxygen requirement and hospital admissions or death, while it may not increase serious adverse events; its effects on other outcomes are uncertain	Newly added living review	2021-06-17	11/11	Yes
Clinical management of COVID-19 and pandemic-related health issues	[Remdesivir] Remdesivir probably has little or no difference on mortality and may not have an effect on clinical improvement, while it probably decreases the risk of adverse events	Newly added living review	2021-04-16	10/11	Yes
Clinical management of COVID-19 and pandemic-related health issues	Evidence showed that photobiomodulation and antimicrobial photodynamic therapy may reduce oral manifestations among patients with COVID-19 [Review of observational studies of moderate quality]	Newly added full review	2021-05-23	7/11	No
Clinical management of COVID-19 and pandemic-related health issues	Evidence shows that patients with Parkinson's disease may see an exacerbation of cognitive symptoms after contracting COVID-19 [Review of studies of mainly low quality]	Newly added full review	2021-05-01	4/9	No
Clinical management of COVID-19 and pandemic-related health issues	Among severe/critical COVID-19 patients, evidence has shown a slight increase in oxygenation in patients receiving nitric oxide, but no effect on mortality has been reported [Review of mainly observational studies of unclear quality]	Newly added full review	2021-04-20	5/10	No
Clinical management of COVID-19 and pandemic-related health issues	The incidence of pneumothorax among COVID-19 patients is reported as 0.3%, but it substantially increased to 12-24% for COVID-19 patients requiring invasive mechanical ventilation, and it is likely produced due to the inflammatory insult from COVID-19 [Review of studies of mainly moderate quality]	Newly added full review	2021-01-30	5/10	No
Clinical management of COVID-19 and pandemic-related health issues	Normal echocardiographic examination has been reported in the majority of COVID-19 critical patients, with inconsistent reports on ventricular dysfunction among studies [Review of studies of unclear quality]	Newly added full review	2021-01-15	4/9	No
Clinical management of COVID-19 and	[Azithromycin + hydroxychloroquine] In hospitalized COVID-19 patients, azithromycin + hydroxychloroquine may not have an effect on	Update to living review	2021-10-08	10/11	Yes

<p>pandemic-related health issues</p>	<p>clinical improvement and disease progression, while it may lead to an increase in adverse events; among mild outpatients, it may not have an effect on viral negative conversion and hospitalization or death</p>				
<p>Clinical management of COVID-19 and pandemic-related health issues</p>	<p>[Budesonide] Budesonide may reduce hospitalization or death among mild COVID-19 outpatients; its effects on other outcomes are uncertain</p>	<p>Update to living review</p>	<p>2021-10-08</p>	<p>10/11</p>	<p>Yes</p>
<p>Clinical management of COVID-19 and pandemic-related health issues</p>	<p>[Colchicine] In hospitalized patients, colchicine may reduce mortality at 28 days, it probably makes little or no difference in clinical improvement, and it probably reduce disease progression; it may slightly increase any adverse events</p>	<p>Update to living review</p>	<p>2021-10-08</p>	<p>10/11</p>	<p>Yes</p>
<p>Clinical management of COVID-19 and pandemic-related health issues</p>	<p>[Favipiravir] In COVID-19 hospitalized patients, adding favipiravir to standard care may slightly increase viral negative conversion and may make little or no difference in clinical improvement; the effects on other outcomes are uncertain</p>	<p>Update to living review</p>	<p>2021-10-08</p>	<p>10/11</p>	<p>Yes</p>
<p>Clinical management of COVID-19 and pandemic-related health issues</p>	<p>[Sarilumab] Using sarilumab for hospitalized COVID-19 patients may slightly reduce mortality ay 28 days, it probably makes little or no difference in clinical improvement and may not have an effect on disease progression; it may also slightly increase adverse events</p>	<p>Update to living review</p>	<p>2021-10-08</p>	<p>10/11</p>	<p>Yes</p>
<p>Clinical management of COVID-19 and pandemic-related health issues</p>	<p>[Colchicine] Colchicine may reduce mortality, mechanical ventilation, and probably reduces the duration of hospitalization in non-severe patients, but its effects are uncertain for hospitalized patients</p>	<p>Update to living review</p>	<p>2021-02-12</p>	<p>10/11</p>	<p>Yes</p>
<p>Clinical management of COVID-19 and pandemic-related health issues</p>	<p>[Ivermectin] Ivermectin may slightly reduce mechanical ventilation rates and may increase viral clearance, whereas it may increase the adverse events; the effects on mortality are uncertain</p>	<p>Update to living review</p>	<p>2021-02-12</p>	<p>10/11</p>	<p>Yes</p>
<p>Clinical management of COVID-19 and pandemic-related health issues</p>	<p>[Remdesivir] Remdesivir may slightly reduce mortality and it may reduce the risk of mechanical ventilation, while it probably does not increase adverse events</p>	<p>Update to living review</p>	<p>2021-02-12</p>	<p>10/11</p>	<p>Yes</p>
<p>Clinical management of COVID-19 and pandemic-related health issues</p>	<p>[Vitamin C] Vitamin C may slightly reduce mortality, and may not have an effect on duration of hospitalization; its effects on other outcomes are uncertain</p>	<p>Update to living review</p>	<p>2021-02-12</p>	<p>10/11</p>	<p>Yes</p>
<p>Clinical management of COVID-19 and pandemic-related health issues</p>	<p>[Vitamin D] Vitamin D may not reduce mortality, and it may reduce mechanical ventilation, whereas it probably does not have an effect on duration of hospitalization</p>	<p>Update to living review</p>	<p>2021-02-12</p>	<p>10/11</p>	<p>Yes</p>
<p>Health-system arrangements</p>	<p>A large portion of studies have reported a decrease on hospitalizations for cardiometabolic conditions (e.g., strokes, heart failures) during the COVID-19 pandemic with a less severe presentation [Review of studies of mainly moderate quality]</p>	<p>Newly added full review</p>	<p>2021-02-25</p>	<p>6/10</p>	<p>No</p>
<p>Health-system arrangements</p>	<p>Using PPE, dental suction, air cleaning systems, and mouth rinsing might play a crucial role on mitigating the risk of COVID-19 transmission in orthodontics when performing aerosol generating procedures [Review of studies of low to moderate quality]</p>	<p>Newly added full review</p>	<p>2021-01-04</p>	<p>7/10</p>	<p>No</p>