

A.27	Nirmatrelvir and ritonavir – COVID-19 – EML and EMLc
Draft recommendation	<input checked="" type="checkbox"/> Recommended <input type="checkbox"/> Not recommended <p>Justification:</p> <p>Nirmatrelvir is a SARS-CoV-2 protease inhibitor, inhibiting viral replication. It is an orally active analogue of an intravenous prodrug. It is co-administered with ritonavir, a well-established HIV protease inhibitor, which boosts the levels of nirmatrelvir without any anti-viral activity. It is dosed twice daily for five days in adults and for children over 12 years of age. Treatment should be started ideally within 5 days of symptom onset.</p> <p>The Covid-19 WHO Living Guideline evidence summary included data from two trials with 3100 patients in the meta-analysis. There was low level evidence of no important difference in mortality, with high uncertainty for mechanical ventilation. There was moderate level evidence of around 30/1000 fewer hospital admissions in the trial population, and around 50/1000 fewer admissions in the high-risk population.</p> <p>A Cochrane review noted significantly higher taste and GI symptoms in patients receiving nirmatrelvir (given with a higher dose of ritonavir than used in HIV patients) than placebo with higher rates of drug discontinuation due to adverse events.</p> <p>In high-risk populations (age >60 years, unvaccinated, immunosuppressed, chronic disease) there was a strong recommendation in favour of the drug.</p>
Does the proposed medicine address a relevant public health need?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <p>Comments:</p> <p>Covid-19 is estimated to have caused over 600 million infections with over 6 million deaths globally.</p>
Does adequate evidence exist for the efficacy/effectiveness of the medicine for the proposed indication? (this may be evidence included in the application, and/or additional evidence identified during the review process)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable <p>Comments:</p> <p>The Covid-19 WHO Living Guideline evidence summary included data from two trials with 3100 patients in the meta-analysis. There was low level evidence of no important difference in mortality, with high uncertainty for mechanical ventilation. There was moderate level evidence of around 30/1000 fewer hospital admissions in the trial population, and around 50/1000 fewer admissions in the high-risk population.</p> <p>In high-risk populations (age >60 years, unvaccinated, immunosuppressed, chronic disease) there was a strong recommendation in favour of the drug.</p>

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<p>Does adequate evidence exist for the safety/harms associated with the proposed medicine?</p> <p>(this may be evidence included in the application, and/or additional evidence identified during the review process)</p>	<p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p><input type="checkbox"/> Not applicable</p> <p>Comments:</p> <p>A Cochrane review noted significantly higher taste and GI symptoms in patients receiving nirmatrelvir (given with a higher dose of ritonavir than used in HIV patients) than placebo with higher rates of drug discontinuation due to adverse events.</p>
<p>Are there any adverse effects of concern, or that may require special monitoring?</p>	<p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p><input type="checkbox"/> Not applicable</p> <p>Comments:</p> <p>There are multiple potential drug interactions, especially through CYP3A inhibition.</p>
<p>Are there any special requirements for the safe, effective and appropriate use of the medicines?</p> <p>(e.g. laboratory diagnostic and/or monitoring tests, specialized training for health providers, etc)</p>	<p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p><input type="checkbox"/> Not applicable</p> <p>Comments:</p> <p>Rapid Diagnostic Tests to confirm a Covid-19 diagnosis assists with early treatment of symptomatic disease.</p>
<p>Are there any issues regarding cost, cost-effectiveness, affordability and/or access for the medicine in different settings?</p>	<p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p><input type="checkbox"/> Not applicable</p> <p>Comments:</p> <p>The drug is not licensed yet by the FDA for pregnant women, or children younger than 12 years.</p>
<p>Are there any issues regarding the registration of the medicine by national regulatory authorities?</p> <p>(e.g. accelerated approval, lack of regulatory approval, off-label indication)</p>	<p><input type="checkbox"/> Yes</p> <p><input checked="" type="checkbox"/> No</p> <p><input type="checkbox"/> Not applicable</p> <p>Comments:</p> <p>The ACT-Accelerator is pushing for generic product availability. The MPP holds a licence agreement for 95 countries.</p>

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<p>Is the proposed medicine recommended for use in a current WHO guideline?</p> <p>(refer to: https://www.who.int/publications/who-guidelines)</p>	<p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p><input type="checkbox"/> Not applicable</p> <p>Comments:</p> <p>The WHO Covid-19 living guideline has a strong recommendation in favour of the drug for high-risk populations (age >60 years, unvaccinated, immunosuppressed, chronic disease).</p>
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