A.25	Molnupiravir – COVID-19 – EML		
Draft recommendation		⊠ Recommended	
		□ Not recommended	
		Justification:	
		Molnupiravir is the oral prodrug of a nucleoside analog that affects the copying of the SARS-CoV-2 genome and leads to production of mutated and non-functional virus RNA. It is given orally twice daily for 5 days as early as possible in clinical infection and ideally within 5 days of the onset of symptoms. It is active in vitro on Alpha, Beta, Delta and Omicron variants.	
		The evidence summary in the WHO COVID-19 Living Guideline noted that six trials with 4796 patients were included for analysis. There was moderate level evidence for decreased hospitalisation, low level evidence for reduction in mortality and moderate for time to symptom resolution. There was a probable reduction in hospitalisation of 27/1000 of the highest risk patients.	
		The drug is well tolerated and in the evidence summary, the rates of adverse events in patients treated with molnupiravir were no different than in placebo or active agent arms.	
		Molnupiravir was noted to be mutagenic in vitro, but with no evidence of mutagenicity in animal models. It is likely to be present in breast milk. Higher drug exposure was associated with embryofoetal death and teratogenicity in rats.	
		It should not be given in pregnancy, or to breast feeding mothers with birth control recommended for men for 3 months after treatment. The concern of genotoxicity is likely to be higher in younger patients.	
		WHO COVID-19 Living Guideline has a conditional approval for the use of molnupiravir for patients with non-severe infection at highest risk of hospitalisation (excluding pregnant and breastfeeding women and children).	
	osed medicine address a c health need?	⊠ Yes	
relevant publi		□No	
		□ Not applicable	
		Comments:	
		COVID-19 has infected over 600 million people globally, with an estimated over 6 million deaths.	
•	e evidence exist for the tiveness of the medicine sed indication?	⊠ Yes	
		□No	
(this may be e	vidence included in the nd/or additional evidence ng the review process)	□ Not applicable	
application, ar		Comments:	
		The evidence summary in the WHO COVID-19 Living Guideline noted that six trials including 4796 patients were included for analysis. There was moderate level evidence for decreased hospitalisation, low level evidence for reduction in mortality and moderate evidence for time to symptom resolution.	

24^{th} WHO Expert Committee on Selection and Use of Essential Medicines Expert review

Does adequate evidence exist for the	⊠ Yes
safety/harms associated with the proposed medicine?	□ No
(Abia magu ba ayidan aa in aludad in Aba	□ Not applicable
(this may be evidence included in the application, and/or additional evidence	Comments:
identified during the review process)	The drug is well tolerated and in the evidence summary, the rates of adverse events in patients treated with molnupiravir were no different than in placebo or active agent arms.
Are there any adverse effects of	□ Yes
concern, or that may require special monitoring?	⊠ No
, and the second	□ Not applicable
	Comments:
	Molnupiravir was noted to be mutagenic in vitro, but with no evidence of mutagenicity in animal models. It is likely to be present in breast milk. Higher drug exposure was associated with embryofoetal death and teratogenicity in rats.
	It should not be given in pregnancy, or to breast feeding mothers with birth control recommended for men for 3 months after treatment.
	The concern of genotoxicity is likely to be higher in younger patients.
Are there any special requirements for	⊠ Yes
the safe, effective and appropriate use of the medicines?	□ No
(e.g. laboratory diagnostic and/or	☐ Not applicable
monitoring tests, specialized training for health providers, etc)	Comments: Rapid viral diagnostic tests should be available to confirm the diagnosis.
Are there any issues regarding cost, cost-effectiveness, affordability and/or	
access for the medicine in different	□ No
settings?	☐ Not applicable
	Comments:
	The ACT-Accelerator plan is pushing generic product availability.
Are there any issues regarding the	□ Yes
registration of the medicine by national regulatory authorities?	⊠ No
/o a peoplerated approval lack of	☐ Not applicable
(e.g. accelerated approval, lack of regulatory approval, off-label indication)	Comments:
	The Medicines Patent Pool holds a licensing agreement to provide molnupiravir in 105 countries.

24^{th} WHO Expert Committee on Selection and Use of Essential Medicines Expert review

Is the proposed medicine	⊠ Yes
recommended for use in a current WHO guideline?	□ No
(refer to:	□ Not applicable
https://www.who.int/publications/who-	Comments:
guidelines)	WHO COVID-19 Living Guideline has a conditional approval for the use of molnupiravir for patients with non-severe Covid-19 at highest risk of hospitalisation (excluding pregnant and breastfeeding women and children).