QUESTION

Should Favipiravir vs. Arbidol be used for patient with COVID-19 pneumonia ?					
POPULATION:	patient with COVID-19 pneumonia				
INTERVENTION:	Favipiravir				
COMPARISON:	Arbidol				
MAIN OUTCOMES:	Clinical recovery; Cough relief; Pyrexia relief; Adverse event (Hyperuricemia);				
SETTING:	in hospital				
PERSPECTIVE:	population				
BACKGROUND:					
CONFLICT OF INTERESTS:	none				

ASSESSMENT

Problem s the problem a priority?							
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS					
o No o Probably no o Probably yes ● Yes o Varies o Don't know							
Desirable Effects							

Desirable Effects

How substantial are the desirable anticipated effects?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS		
o Trivial ● Small o Moderate o Large o Varies o Don't know	 主要アウトカムである有益効果(臨床回復)は、臨床回復率(overall)=HR 1.29 (0.68-2.43) 絶対効果として、91 more/1000 (124 few~314 more/1000) 中等症患者に限定して、臨床回復率を2値化して単純比較すると、著者が発表しているように統計的にも有意(RR=1.28; 1.04-1.57)。 有害アウトカム(高尿酸血症)は、5 more/1000 (1 few~11 more/1000) 	しかし、サブグループ解析は事前設定されたものではない		

Undesirable Effects

How substantial are the undesirable anticipated effects?									
JUDGEMENT	ADDITIONAL CONSIDERATIONS								
O Large O Moderate O Small ■ Trivial O Varies O Don't know	 主要アウトカムである有益効果(臨床回復)は、臨床回復率(overall)=HR 1.29 (0.68-2.43) 絶対効果として、91 more/1000 (124 few~314 more/1000) 中等症患者に限定して、臨床回復率を2値化して単純比較すると、著者が発表しているように統計的にも有意(RR=1.28; 1.04-1.57)。 有害アウトカム(高尿酸血症)は、5 more/1000 (1 few~11 more/1000) 	死亡例はなし							

Certainty of evidence What is the overall certainty of the evidence of effects?

JUDGEMENT			RESEARCH EVIDENCE								ADDITIONAL CONSIDERATIONS			
o Very • Low		low												
 Moderate High No	o High	studies	Outcomes	Relative effect (95% CI)	Anticipated absolute effects* (95% Certainty of the evidence happens			Certainty of the evidence (GRADE)	What happens					
					Without Favipiravir	With Favipira		Difference	(GRADE)					
			Clinical	HR 1.29	Moderate				$\Theta\ThetaOO$					
			assessed with: >72hr recovery of body temp, respiratory rate, O2 saturation, cough relief	72hr recovery f body temp, espiratory rate, 22 saturation, ough relief bllow up: mean	50.0%	59.1% (37.6 81.4)	to	9.1% more (12.4 fewer to 31.4 more)	LOWa,b,c,d					
			7 days		High									
					№ of participants: 236 (1 RCT)			70.0%	78.8% (55.9 94.6)	to	8.8% more (14.1 fewer to 24.6 more)			
				Cough relief	ef HR 2.73	High $\oplus \oplus \ominus$				000				
					follow up: mean 7 days № of participants: 122	4.27)	70.0%	96.3% (87.8 99.4)	to	26.3% more (17.8 more to	MODERATE ^{a,b,c}			

(1 RCT)				29.4 more)	
Pyrexia relief follow up: mean 7 days № of participants: 145 (1 RCT)	HR 2.42 (1.55 to 3.77) [Pyrexia relief]	High 70.0%	94.6% (84.5 to 98.9)	24.6% more (14.5 more to 28.9 more)	⊕⊕⊕⊜ MODERATEa,b,c
Adverse event	RR 1.19	Study popul	ation	0000	
(Hyperuricemia) follow up: mean 7 days № of participants: 236 (1 RCT)	(0.95 to 1.45)	2.5%	3.0% (2.4 to 3.6)	0.5% more (0.1 fewer to 1.1 more)	LOWa,b,c,e

- a. Bias due to deviations from intended interventions (Cochrane RoB 2.0): High
- b. Bias arising from the randomization process (Cochrane RoB 2.0): Some concern

- c. No reason for missing cases (withdrew consent)
 d. 95%CI includes both no effect and appreciable important benefit
 e. 95%CI includes both no effect and harm (may not be exceeding MID)

Values

Is there important uncertainty about or variability in how much people value the main outcomes?

JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
o Important uncertainty or variability o Possibly important uncertainty or variability • Probably no important uncertainty or variability o No important uncertainty or variability		

Balance of effects

Does the balance between desirable and undesirable effects favor the intervention or the comparison?

JUDGEMENT RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
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benefits>>harm	対象患者は、中等症 COVID-19 肺炎患者である。 診断は臨床的診断で、PCR 検査陽性は 40~50%
ts)?	
RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
rce requirements (costs)?	
RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS
	ts)? RESEARCH EVIDENCE Quired resources rece requirements (costs)?

Cost effectiveness Does the cost-effectiveness of the intervention favor the intervention or the comparison?								
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS						
O Favors the comparison O Probably favors the comparison O Does not favor either the intervention or the comparison O Probably favors the intervention O Favors the intervention O Varies No included studies								
Equity What would be the impact on health equity?								
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS						
O Reduced O Probably reduced O Probably no impact O Probably increased O Increased O Varies O Don't know								
Acceptability Is the intervention acceptable to key stakeho	lders?							
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS						
O No O Probably no Probably yes O Yes O Varies O Don't know	18 歳未満、肝障害 child-pugh(C)、HIV、妊婦、COVID 重症患者は除外							
Feasibility Is the intervention feasible to implement?								
JUDGEMENT	RESEARCH EVIDENCE	ADDITIONAL CONSIDERATIONS						
o No o Probably no o Probably yes								

Varies	
o Don't know	v

SUMMARY OF JUDGEMENTS

				JUDGEMENT			
PROBLEM	No	Probably no	Probably yes	Yes		Varies	Don't know
DESIRABLE EFFECTS	Trivial	Small	Moderate	Large		Varies	Don't know
UNDESIRABLE EFFECTS	Large	Moderate	Small	Trivial		Varies	Don't know
CERTAINTY OF EVIDENCE	Very low	Low	Moderate	High			No included studies
VALUES	Important uncertainty or variability	Possibly important uncertainty or variability	Probably no important uncertainty or variability	No important uncertainty or variability			
BALANCE OF EFFECTS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	Don't know
RESOURCES REQUIRED	Large costs	Moderate costs	Negligible costs and savings	Moderate savings	Large savings	Varies	Don't know
CERTAINTY OF EVIDENCE OF REQUIRED RESOURCES	Very low	Low	Moderate	High			No included studies
COST EFFECTIVENESS	Favors the comparison	Probably favors the comparison	Does not favor either the intervention or the comparison	Probably favors the intervention	Favors the intervention	Varies	No included studies
EQUITY	Reduced	Probably reduced	Probably no impact	Probably increased	Increased	Varies	Don't know
ACCEPTABILITY	No	Probably no	Probably yes	Yes		Varies	Don't know
FEASIBILITY	No	Probably no	Probably yes	Yes		Varies	Don't know

TYPE OF RECOMMENDATION

Strong recommendation against the	Conditional recommendation against the	Conditional recommendation for either the	Conditional recommendation for the	Strong recommendation for the	
intervention	intervention	intervention or the comparison	intervention	intervention	



CONCLUSIONS

Recommendation

18 歳以上の中等症 COVID-19 患者に対して、アビガンの使用を提案する(GRADE 2C)

Justification

- 1.有益効果(臨床回復)は、絶対効果として、91 more/1000(124 few~314 more/1000)
- 2.害は高尿酸血症で、1/1000
- 3.CoE=Low

Subgroup considerations

重症例には効果なし。

Implementation considerations

COVID-19 診断に関して感染初期の PCR における偽陰性を考慮すると、入院を必要とする COVID-19 臨床診断患者には PCR 検査の結果にかかわらず、(標準治療でも改善される可能性を説明しつつ) アビガンを 1 週間投与することを考慮すべきだろう。

Monitoring and evaluation

Research priorities

More research is needed to understand the effects of favipiravir on COVID-19 海外においてメタアナリシスが計画されている