Darunavir-Cobicistat vs standard treatment

Author(s): Cruciani F, De Crescenzo F, Vecchi S, Saulle R, Mitrova Z, Amato L, Davoli M

Question: Should Darunavir/Cobicistat vs standard treatment be used for COVID-19?

Setting: inpatient

			Certainty a	ssessment			№ of patients		Effect			
№ of studie s	Study design	Risk of bias	Inconsistenc y	Indirectnes s	Imprecisio n	Other consideration s	Darunavir/Cobicista t	Trattament o standard	Relativ e (95% CI)	Absolut e (95% CI)	Certaint y	Importanc e
Mortality	, any cause	s (follo	w up: 14 days)									
1 ¹	randomise d trials	seriou s ^a	not serious	not serious	very serious	none	No deaths at 14 days				⊕○○○ VERY LOW	
SARS-C	oV-2 clearan	nce at 7	days									
1 1	randomise d trials	seriou s ^a	not serious	not serious	very serious	none	7/15 (46.7%)	9/15 (60.0%)	RR 0.78 (0.39 to 1.54)	fewer per 1.000 (from 366 fewer to 324 more)	⊕○○○ VERY LOW	
Γime to	SARS-CoV-2	2 cleara	nce	;	•	•	•	•	÷	•	•	
1 ¹	randomise d trials	seriou s ^a	not serious	not serious	very serious	none	The study reports that does not differ between vs 7 days); HR: 0.82 95% CI (0.3)	en the two grou	ups (media		⊕○○○ VERY LOW	

Certainty assessment							№ of patie	Ef	fect			
№ of tudie s	Study design	Risk of bias	Inconsistenc y	Indirectnes s	Imprecisio n	Other consideration s	Darunavir/Cobicista t	Trattament o standard	Relativ e (95% CI)	Absolut e (95% CI)	Certaint y	Importanc e

Number of patients any adverse event

1 1	randomise d trials	seriou s ^a	not serious	not serious	very serious b	none	8/15 (53.3%)	7/15 (46.7%)	RR 1.14 (0.56 to 2.35)	65 more per 1.000 (from 205 fewer to 630 more)	⊕○○ VERY LOW	
										more)		

Progression of COVID-19 disease

1 ¹	randomise	seriou	not serious	not serious	very serious	none	1/15 (6.7%)	0/15 (0.0%)		0 fewer	ФООО	
	d trials	s ^a			b				(0.13 to	per	VERY	
									68.26)	1.000	LOW	
										(from 0		
										fewer to		
										0 fewer)		

CI: Confidence interval; RR: Risk ratio; HR: Hazard Ratio

Explanations

- a. Downgraded of one level because high risk of performance bias and unclear risk of selection bias;
- b. Downgraded of two level for small sample size (<200)

References

1. Chen, Jun, Xia, Lu, Liu, Li, Xu, Qingnian, Ling, Yun, Huang, Dan, Huang, Wei, Song, Shuli, Xu, Shuibao, Shen, Yingzhong, Lu, Hongzhou. Antiviral Activity and Safety of Darunavir/Cobicistat for the Treatment of COVID-19. Open Forum Infectious Diseases; 2020.