# **Appendix 1 Search formulas**

#### **PubMed**

(ncov OR covid OR 2019-nCoV OR COVID-19 OR (wuhan and coronavirus) OR sars-cov OR (2019 novel coronavirus)) AND (chloroquine or hydroxychloroquine)

## Web of Science

TS = (ncov OR covid OR 2019-nCoV OR COVID-19 OR (wuhan and coronavirus) OR sars-cov OR (2019 novel coronavirus)) AND TS = (chloroquine or hydroxychloroquine)

### **Embase**

(ncov OR covid OR '2019 ncov' OR 'covid 19'/exp OR 'covid 19' OR (wuhan AND ('coronavirus'/exp OR coronavirus)) OR 'sars cov'/exp OR 'sars cov' OR '2019 novel coronavirus'/exp OR '2019 novel coronavirus' OR (2019 AND novel AND ('coronavirus'/exp OR coronavirus))) AND ('chloroquine'/exp OR chloroquine OR 'hydroxychloroquine'/exp OR hydroxychloroquine)

### Cochrane

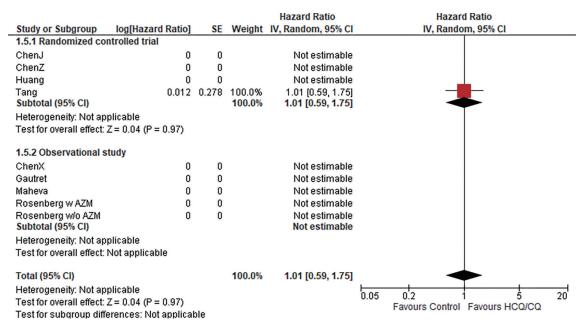
- #1 ncov OR covid OR sars-cov OR novel coronavirus
- #2 chloroquine or hydroxychloroquine
- #3 #1 and #2

### MedRxiv

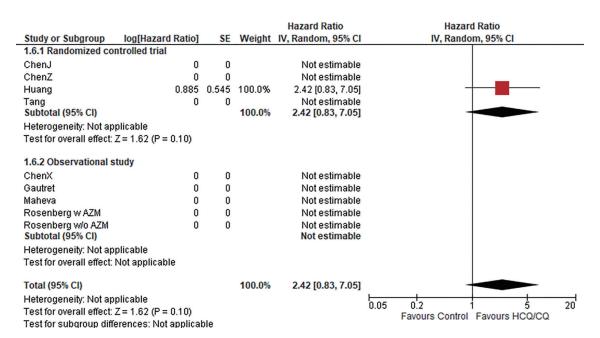
chloroquine or hydroxychloroquine

				Odds Ratio	Odds Ratio				
Study or Subgroup	log[Odds Ratio]	SE	Weight	IV, Random, 95% CI					
1.4.1 Randomized controlled trial									
ChenJ	0	0		Not estimable					
ChenZ	0	0		Not estimable					
Huang	1.531	0.565	41.3%	4.62 [1.53, 13.99]					
Tang	0	0		Not estimable					
Subtotal (95% CI)			41.3%	4.62 [1.53, 13.99]					
Heterogeneity: Not applicable									
Test for overall effect: Z = 2.71 (P = 0.007)									
1.4.2 Observational s	tudy								
ChenX	0.336	0.268	58.7%	1.40 [0.83, 2.37]	+				
Gautret	0	0		Not estimable					
Maheva	0	0		Not estimable					
Rosenberg w AZM	0	0		Not estimable	<b> </b>				
Rosenberg w/o AZM	0	0		Not estimable					
Subtotal (95% CI)			58.7%	1.40 [0.83, 2.37]					
Heterogeneity: Not applicable									
Test for overall effect:	Z = 1.25 (P = 0.21)								
Total (95% CI)			100.0%	2.29 [0.72, 7.27]					
Heterogeneity: Tau <sup>2</sup> = 0.52; Chi <sup>2</sup> = 3.65, df = 1 (P = 0.06); i <sup>2</sup> = 73%									
Test for overall effect: Z = 1.41 (P = 0.16)  Test for overall effect: Z = 1.41 (P = 0.16)  Favours Control Favours HCQ/CQ									
Test for subgroup differences: Chi <sup>2</sup> = 3.65, df = 1 (P = 0.06), i <sup>2</sup> = 72.6%									

**Figure S1** A forest plot for time to discharge. Rosenberg w AZM (with AZM): "HCQ + AZM versus AZM alone". Rosenberg w/o AZM (without AZM): "HCQ alone versus neither of them". SE, standard error; 95% CI, 95% confidence interval; IV, inverse variance; M-H, Mantel-Haenszel; HCQ/CQ, hydroxychloroquine/chloroquine; AZM, azithromycin.



**Figure S2** A forest plot for time to symptom alleviation. Rosenberg w AZM (with AZM): "HCQ + AZM versus AZM alone". Rosenberg w/o AZM (without AZM): "HCQ alone versus neither of them". SE, standard error; 95% CI, 95% confidence interval; IV, inverse variance; M-H, Mantel-Haenszel; HCQ/CQ, hydroxychloroquine/chloroquine; AZM, azithromycin.



**Figure S3** A forest plot for time to CT image improvement. Rosenberg w AZM (with AZM): "HCQ + AZM versus AZM alone". Rosenberg w/o AZM (without AZM): "HCQ alone versus neither of them". SE, standard error; 95% CI, 95% confidence interval; IV, inverse variance; M-H, Mantel-Haenszel; HCQ/CQ, hydroxychloroquine/chloroquine; AZM, azithromycin.

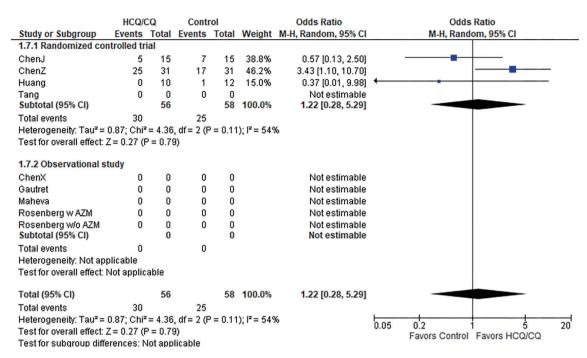


Figure S4 A forest plot for CT image improvement at day 7. Rosenberg w AZM (with AZM): "HCQ + AZM versus AZM alone". Rosenberg w/o AZM (without AZM): "HCQ alone versus neither of them". SE, standard error; 95% CI, 95% confidence interval; IV, inverse variance; M-H, Mantel-Haenszel; HCQ/CQ, hydroxychloroquine/chloroquine; AZM, azithromycin.

				Odds Ratio	Odds Ratio
Study or Subgroup	log[Odds Ratio]	SE	Weight	IV, Random, 95% CI	IV, Random, 95% CI
1.8.1 Randomized co	ntrolled trial				
ChenJ	0	0		Not estimable	
ChenZ	0	0		Not estimable	
Huang	0	0		Not estimable	
Tang	0	0		Not estimable	
Subtotal (95% CI)				Not estimable	
Heterogeneity: Not ap	plicable				
Test for overall effect:	Not applicable				
1.8.2 Observational s	study				
ChenX	0	0		Not estimable	
Gautret	1.88707	1.52554	22.1%	6.60 [0.33, 131.25]	
Maheva	-0.09473	0.364782	77.9%	0.91 [0.44, 1.86]	— <b>—</b>
Rosenberg w AZM	0	0		Not estimable	
Rosenberg w/o AZM	0	0		Not estimable	
Subtotal (95% CI)			100.0%	1.41 [0.28, 7.05]	
Heterogeneity: Tau2=	0.73; Chi <sup>2</sup> = $1.60$ , c	f= 1 (P = 0	$(21); I^2 = 3$	7%	
Test for overall effect:	Z = 0.42 (P = 0.68)				
Total (95% CI)			100.0%	1.41 [0.28, 7.05]	
Heterogeneity: Tau <sup>2</sup> =	0.73; Chi <sup>2</sup> = 1.60, d	f= 1 (P = 0	21); I² = 3	17%	
Test for overall effect:	The state of the s				0.05 0.2 1 5 20
Test for subgroup diff		able			Favours HCQ/CQ Favours Control

Figure S5 A forest plot for disease progression (death or intensive care unit admission). Rosenberg w AZM (with AZM): "HCQ + AZM versus AZM alone". Rosenberg w/o AZM (without AZM): "HCQ alone versus neither of them". SE, standard error; 95% CI, 95% confidence interval; IV, inverse variance; M-H, Mantel-Haenszel; HCQ/CQ, hydroxychloroquine/chloroquine; AZM, azithromycin.

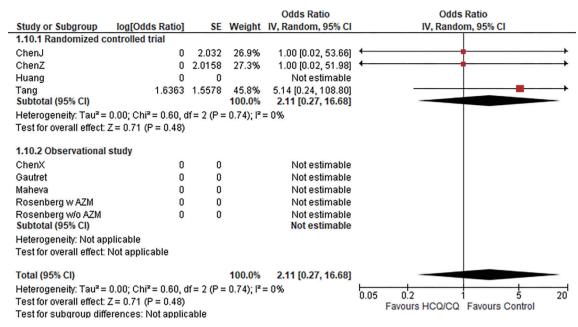


Figure S6 A forest plot for serious adverse event. Rosenberg w AZM (with AZM): "HCQ + AZM versus AZM alone". Rosenberg w/o AZM (without AZM): "HCQ alone versus neither of them". SE, standard error; 95% CI, 95% confidence interval; IV, inverse variance; M-H, Mantel-Haenszel; HCQ/CQ, hydroxychloroquine/chloroquine; AZM, azithromycin.

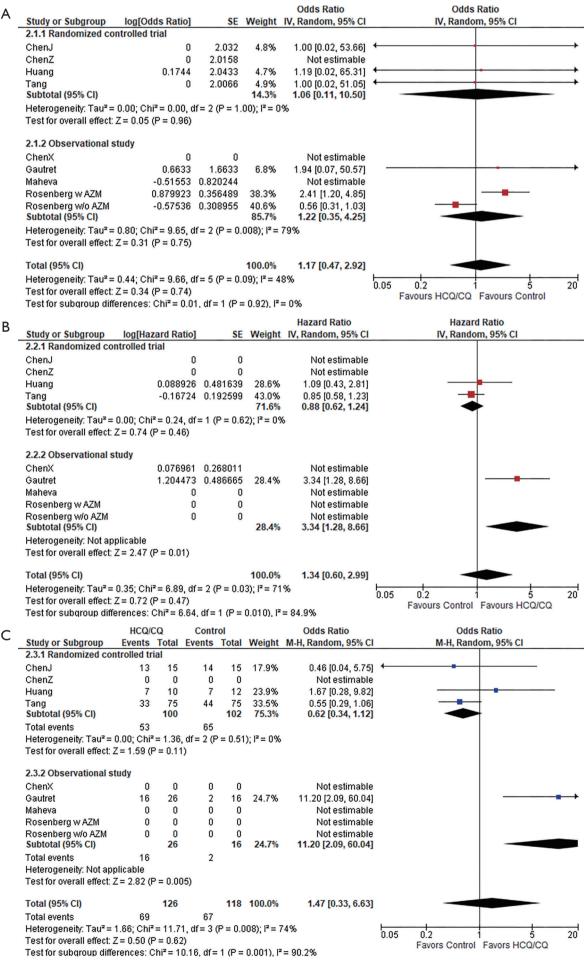


Figure S7 A forest plot for primary outcomes excluding non-peer reviewed articles. (A) All cause death; (B) time to viral clearance; (C) viral clearance at day 7. Rosenberg w AZM (with AZM): "HCQ + AZM versus AZM alone". Rosenberg w/o AZM (without AZM): "HCQ alone versus neither of them". SE, standard error; 95% CI, 95% confidence interval; IV, inverse variance; M-H, Mantel-Haenszel; HCQ/CQ, hydroxychloroquine; AZM, azithromycin.