Supplementary Material*

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Supplement Table 1. Effect of Hydroxychloroquine Reported in Controlled Studies

Name	Type	RoB	Unadjusted Absolute effect of HCQ vs. Control (95% CI)	SOE
All-Cause Mortality				
Cavalcanti[3]	RCT	H	HCQ: 5/159 vs. 5/173; RD 0.3% (-3.4% to 3.9%)	L
Cavalcanti[3]		H	HCQ+AZ: 3/172 vs. 5/173; RD -1.2% (-4.3% to 2.0%)	
Mitjà[4]		SC	HCQ: 0/136 vs. 0/157; RD 0% (NA)	
Skipper[5]		H	HCQ: 1/201 vs. 1/194; RD -0.02% (-1.4% to 1.4%)	
Horby[6]		SC	HCQ: 418/1561 vs. 788/3155; RD 1.8% (-0.9% to 4.5%)	
C-P Chen[7]		SC	HCQ: 0/21 vs. 0/12; RD 0% (NA)	
J Chen[11]		SC	HCQ: 0/15 vs. 0/15; RD 0% (NA)	
L Chen[12]		H	HCQ: 0/15 vs. 0/12; RD 0% (NA)	
Paccoud[8]	Cohort	S	HCQ: 3/38 vs. 6/46; RD -5.2% (-18.1% to 7.8%)	L
Lecronier[9]		C	HCQ: 9/38 vs. 9/22; RD -17.2% (-41.8% to 7.4%)	
Barbosa[13]		C	HCQ: 4/31 vs. 1/32; RD 9.8% (–3.5% to 23.3%)	
Magagnoli[14]		S	HCQ±AZ: 27/97 vs. 18/158; RD 16.4% (6.2% to 26.6%)†	
Mallat[15]		S	HCQ: 0/23 vs. 0/11 [0%]; RD 0% (NA)	
Membrillo[16]		C	HCQ: 27/123 vs. 21/43; RD -26.9% (-43.5% to -10.3%) †	
Geleris[17]		M	HCQ±AZ: 157/811 vs. 75/565; RD 6.1% (2.2% to 10%) †	
Rosenberg[18]		S	HCQ±AZ: 54/271 vs. 28/221; RD 7.3% (0.8% to 13.7%) †	
Mahévas[19]		S	HCQ: 9/84 vs. 8/97; RD 2.5% (-6.1% to 11.1%)	
Ip[20]		S	HCQ: 383/1914 vs. 120/598; RD -0.1% (-3.7% to 3.6%)	
Sbidian[21]		M	HCQ: 111/623 vs. 830/3792; RD -4.1% (-7.4% to 0.8%)	
Singh[22]		S	HCQ: 104/910 vs. 109/910; RD -0.6% (-3.5% to 2.4%)	
Yu[23]		S	HCQ: 9/48 vs. 238/502; RD -29.7% (-40.5% to -16.8%) †	
Arshad[24]		S	HCQ±AZ: 162/1202 vs. 108/409; RD -12.9% (-17.6% to -8.2%) †	
Composite of Intubation or Death				
Horby[6]	RCT	SC	HCQ: 388/1300 vs. 696/2623; RD 3.3% (0.3% to 6.3%) †	L
Geleris[17]	Cohort	M	HCQ±AZ: 262/811 vs. 84/565; RD 17.4% (13.1% to 21.8%) †	I
Composite of ICU Admission Within 7-Days or Death				
Paccoud[8]	Cohort	S	HCQ: [By 12 days] 13/38 vs. 16/46; RD -0.6% (-21.0% to 19.9%)	I
Mahévas[25]		S	HCQ: 16/84 vs. 21/97; RD -2.6% (-14.3% to 9.1%)	
ICU Admission				
Rosenberg[18]	Cohort	S	HCQ±AZ: 52/271 vs. 27/221; RD 7% (0.6% to 13.3%) †	I
Survival without ICU Admission				
Mahévas[19]	Cohort	S	HCQ: 17/84 vs. 22/89; RD -4.5% (-16.9% to 7.9%)	I
Need of Mechanical Ventilation				
Cavalcanti[3]	RCT	H	HCQ: 12/159 vs. 12/173; RD 0.6% (-5.0% to 6.2%)	L
Cavalcanti[3]		H	HCQ+AZ: 19/172 vs. 12/173; RD 4.1% (-1.9% to 10.1%)	
Mitjà[4]		SC	HCQ: 0/136 vs. 0/157; RD 0% (NA)	
Horby[6]		SC	HCQ: 118/1300 vs. 215/2623; RD 0.9% (-1.0% to 2.8%)	
Lecronier[9]	Cohort	C	HCQ: 5/38 vs. 2/22; RD 4.1% (-12.1% to 20.2%)	L
Magagnoli[14]		S	HCQ±AZ: 12/90 vs. 25/177; RD -0.8% (-9.5% to 7.9%)	

Mallat[15]		S	HCQ: 0/23 vs. 0/11; RD 0% (NA)	
Geleris[17]		M	HCQ±AZ: 154/811 vs. 26/565; RD 14.4% (11.2% to 17.6%) †	
Rosenberg[18]		S	HCQ±AZ: 51/271 vs. 18/221; RD 10.7% (4.8% to 16.6%) †	
Singh[22]		S	HCQ: 46/910 vs. 57/910; RD -1.2% (-3.3% to 0.9%)	
Severe Disease Progression				
J Chen[11]	RCT	SC	HCQ: 1/15 vs. 0/15; RD 6.7% (-6.0% to 19.3%)	I
L Chen[12]		H	HCQ: 0/15 vs. 0/12; RD 0% (NA)	
Z Chen[26]		SC	HCQ: 0/31 vs. 4/31; RD -12.9% (-24.7% to -1.1%) †	
Barbosa[13]	Cohort	C	HCQ: [Respiratory support level] +0.63±0.79 vs. +0.16±0.64 points; MD 0.47 (0.11 to 0.83) †	I
Mallat[15]		S	HCQ: [High flow oxygen therapy] 0/23 vs. 0/11; RD 0% (NA)	
Mahévas[25]		S	HCQ: [ARDS] 24/84 vs. 23/95; RD 4.4% (-8.6% to 17.3%)	
Hospitalization				
Mitjà[4]	RCT	SC	HCQ: 8/136 vs. 11/157; RD -1.1% (-6.7% to 4.5%)	I
Komissarov[10]	Cohort	C	HCQ: 7/33 vs 0/10; RD 21.2% (7.3% to 35.2%) †	I
Discharge from Hospital				
Horby[6]	RCT	SC	HCQ: 941/1561 vs. 1982/3155; RD -2.5% (-5.5% to 0.4%)	L
Paccoud[8]	Cohort	S	HCQ: 21/38 vs. 26/46; RD -1.3% (-22.6% to 20.1%)	I
Mahévas[19]		S	HCQ: 67/84 vs. 71/89; RD 0% (-12% to 12%)	
Sbidian[21]		M	HCQ: 351/623 vs. 1507/3792; RD 16.6% (12.4% to 20.8%)	
Symptom Resolution				
Skipper[5]	RCT	H	HCQ: [At 14 days:] 152/201 vs. 135/194; RD 6.0% (-2.7% to 14.8%)	I
J Chen[11]		SC	HCQ: [Fever] 1 vs. 1 day; MD 0 days (NA)	
L Chen[12]		H	HCQ: [Days to recovery [Median(IQR)]]: 6 (3-8) vs. 7.5 (5-16.3)	
Z Chen[26]		SC	HCQ: [Fever] 2.2±0.4 vs. 3.2±1.3 days; MD -1 day (-1.5 to -0.5) † [Cough] 2.0±0.2 vs. 3.1±1.5 days; MD -1.1 days (-1.6 to -0.6) †	
Tang[27]		H	HCQ: [Composite symptom resolution] 32/64 vs. 24/55; RD 6.4% (-11.6% to 24.3%)	
Progression of Pulmonary Lesions on CT Scan				
J Chen[11]	RCT	SC	HCQ: 5/15 vs. 7/15; RD -13.3% (-48.1% to 21.4%)	L
Z Chen[26]		SC	HCQ: 2/31 vs. 9/31; RD -22.6% (-40.8% to -4.4%) †	
Improvement in Pulmonary Lesions on CT Scan				
Z Chen[26]	RCT	SC	HCQ: 25/31 vs. 17/31; RD 25.8% (3.4% to 48.2%) †	I
Upper Respiratory Virological Clearance				
C-P Chen[7]	RCT	SC	HCQ: [Day 14] 17/21 vs. 9/12; RD 6.0% (-23.8% to 35.7%)	I
J Chen[11]		SC	HCQ: [Day 7] 13/15 vs. 14/15; RD -6.7% (-28% to 14.7%) [Day 14] 15/15 vs. 15/15; RD 0% (NA)	
L Chen[12]		H	HCQ: [Day 10] 15/15 vs/ 12/12; RD 0% (NA)	
Tang[27]		H	HCQ: [Day 23] 53/75 vs. 56.75; RD -4% (-18.3% to 10.3%)	
C-P Chen[7]	Cohort	C	HCQ: [Day 14] 12/28 vs. 5/9; RD -12.7% (-50.0% to 24.6%)	I
Lecronier[9]		C	HCQ: [Day 7] 7/26 vs. 2/14; RD 12.6% (-12.4% to 37.7%)	
Mallat[15]		S	HCQ: [Day 14] 11/23 vs. 10/11; RD -43.1% (-69.6% to -16.5%) †	
Gautret[28]		C	HCQ±AZ: [Day 6] 14/20 vs. 2/16; RD 57.6% (31.8% to 83.3%) †	

ARDS = acute respiratory distress syndrome; HCQ = hydroxychloroquine; MD = mean difference; RCT = randomized controlled trial; RD = absolute risk difference; RoB = risk of bias; SOE = strength of evidence.

† Denotes a statistically significant finding.

Risk of bias codes: SC – some concerns, H– high, M – moderate, S –serious, C – critical, NI – no information.
Strength of evidence codes: I – insufficient, L- low.