Supplementary Figure 21. Forest Plot of All-Cause Mortality of Trials or Observational Studies Evaluating Glucocorticoids for COVID-19 Within Subgroups Defined by Characteristics of Patient, Disease Severity and Administration of Glucocorticoids among Studies Reporting Incidence of Events in Control from 40% to 80%

	Glucocorticoids	Control			Weight			Incidence of	Design type of	Risk of bias of
Subgroup	(No. events/total)	(No. events/total)	RR	95% CI	%	Favours	Favours	events in control	included studies	included studies
Age						glucocorticoids	control			
Elder(I²=0%)	241/594	467/1051	0.87	[0.73; 1.04]	NA	-		0.44	RCTs	Non-high
Elder(I ² =0%)	98/438	30/74	0.55	[0.50; 0.61]	NA	+		0.41	Observational	Low/Some concerns/High
ARDS										
With ARDS(I ² =0%)	13/24	13/23	0.96	[0.57; 1.61]	NA	-	 	0.57	RCTs	Non-high
With ARDS(I ² =95%)	160/536	117/211	0.51	[0.35; 0.74]	NA			0.55	Observational	Low/Some concerns/High
With ARDS(I ² =0%)	61/196	54/98	0.39	[0.22; 0.69]	NA			0.55	Observational	Low
Diabetes										
With diabetes(I²=0%)	35/39	4/9	2.02	[1.53; 2.67]	NA		-	0.44	Observational	High
Doses of glucocorticoids										
Low dose(I ² =0%)	13/24	13/23	0.96	[0.57; 1.61]	37	-	 	0.57	RCTs	Non-high
Low dose(I ² =98%)	142/323	73/142	0.48	[0.23; 1.00]	54.6	-	-	0.51	Observational	Low/Some concerns/High
Medium-high dose(I2=0%)	85/151	91/148	0.92	[0.76; 1.11]	40.4			0.61	RCTs	Non-high
Medium-high dose(I2=3%)	79/446	48/120	0.41	[0.30; 0.56]	45.4	-		0.4	Observational	Low/Some concerns/High
Medium-high dose(I2=0%)	27/156	12/30	0.26	[0.13; 0.53]	NA			0.4	Observational	Low
Pulse(I ² =0%)	2/34	12/28	0.14	[0.03; 0.60]	22.6	<+		0.43	RCTs	Non-high
Severity of illness										
02 Severe(I ² =85%)	87/185	103/176	0.41	[0.06; 2.67]	44	<		0.59	RCTs	Non-high
02 Severe(I ² =97%)	67/171	26/46	0.65	[0.22; 1.91]	25.4		 	0.57	Observational	Low/Some concerns/High
03 Critically severe(I²=15%)	108/348	296/706	0.75	[0.59; 0.95]	56	-		0.42	RCTs	Non-high
03 Critically severe(I²=98%)	438/1003	243/398	0.71	[0.54; 0.94]	68.6	-		0.61	Observational	Low/Some concerns/High
03 Critically severe(I²=0%)	61/196	54/98	0.39	[0.22; 0.69]	NA			0.55	Observational	Low
04 Severe or critically severe(I²=70%)	195/533	399/882	0.79	[0.63; 0.99]	NA	-		0.45	RCTs	Non-high
04 Severe or critically severe(I²=97%)	517/1244	271/448	0.66	[0.47; 0.92]	NA	-		0.6	Observational	Low/Some concerns/High
Types of glucocorticoids										
Dexamethasone(I²=0%)	85/151	91/148	0.92	[0.76; 1.11]	40.4			0.61	RCTs	Non-high
Methylprednisolone(I2=84%)	15/58	25/51	0.41	[0.06; 2.75]	59.6	<	 	0.49	RCTs	Non-high
Methylprednisolone(I²=97%)	267/869	163/330	0.47	[0.33; 0.66]	NA			0.49	Observational	Low/Some concerns/High
Methylprednisolone(I²=0%)	27/156	12/30	0.26	[0.13; 0.53]	NA			0.4	Observational	Low
						0.1 0.2 0.5 Risk Rat	1 2 5 10 tio (95% CI)			