a. The length of hospital stay

	Liberal oxygen therapy				Mean Difference		Mean Difference						
Study or Subgroup	Mean	SD	Total	Total Mean SD Total Weight IV, Random, 95% CI IV, Randon				Random, 95%	6 CI				
Girardis 2016	21	18.5	216	21	16.3	218	26.9%	0.00 [-3.28, 3.28]			†		
Lång 2018	15.6	11.1	27	11.5	10.6	38	13.5%	4.10 [-1.27, 9.47]			 -		
Mackle 2020	12.4	13.1	484	13.1	14.3	481	46.8%	-0.70 [-2.43, 1.03]			•		
Panwar 2016	20	11.1	52	16	17	51	12.8%	4.00 [-1.56, 9.56]			<u> </u>		
Total (95% CI)			779			788	100.0%	0.74 [-1.48, 2.95]			•		
Heterogeneity: Tau ² = Test for overall effect:	,	,	= 0.18); l²	= 38%					-100	-50 Favours less ox	0 ygen Favou	50 rs more oxyg	100 en

b. The length of ICU stay

	Conservative	Liberal oxygen therapy				Mean Difference	Mean Difference						
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	I Weight IV, Random, 95% C			IV. Random, 95% CI			
Asfar 2017	11	12	217	12	13	217	8.6%	-1.00 [-3.35, 1.35]			†		
Girardis 2016	6	4.4	216	6	5.2	218	24.0%	0.00 [-0.91, 0.91]			•		
Jakkula 2018	4	2.1	61	4.2	2.1	59	26.6%	-0.20 [-0.95, 0.55]			•		
Lång 2018	11.4	8.5	27	6.5	5.1	38	4.3%	4.90 [1.31, 8.49]			-		
Mackle 2020	4.8	5.3	484	5.2	5.8	481	27.4%	-0.40 [-1.10, 0.30]			•		
Panwar 2016	9	5.9	52	7	5.9	51	9.1%	2.00 [-0.28, 4.28]			-		
Total (95% CI)			1057			1064	100.0%	0.14 [-0.65, 0.94]			-		
Heterogeneity: Tau ² =	0.48; Chi ² = 12.0)8, df = 5 (F	e = 0.03); I	² = 59%					100				400
Test for overall effect: Z = 0.35 (P = 0.72)									-100	-50 Favours less oxyger	บ า Favou	50 Irs more oxyge	100 en

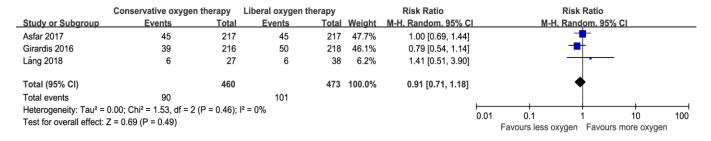
c. Mechanical ventilation-free days up to day 28

	Conservativ	e oxygen th	erapy	Liberal of	xygen the	erapy	Mean Difference			Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI		IV, F	Random, 95°	% CI	
Asfar 2017	13	11	217	11	10	217	37.9%	2.00 [0.02, 3.98]			•		
Mackle 2020	15.5	11.8	484	16	11.5	481	45.2%	-0.50 [-1.97, 0.97]			•		
Panwar 2016	14.7	10.3	52	16.4	11.3	51	16.8%	-1.70 [-5.88, 2.48]			†		
Total (95% CI)			753			749	100.0%	0.25 [-1.78, 2.27]			· ·		
Heterogeneity: Tau ² = 1.80; Chi ² = 4.84, df = 2 (P = 0.09); I^2 = 59% Test for overall effect: Z = 0.24 (P = 0.81)									-100 Fa	-50 avours more ox	0 ygen Favou	50 irs less oxygen	100

d. New-onset pneumonia

	Conservative oxygen	Liberal oxygen tl	herapy		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	CI M-H, Random, 95% CI
Asfar 2017	32	217	30	217	34.0%	1.07 [0.67, 1.69]	· •
Barrot 2020	17	99	22	102	22.3%	0.80 [0.45, 1.41]	
Girardis 2016	30	216	37	218	36.8%	0.82 [0.53, 1.27]	- •
Lång 2018	6	27	6	38	7.0%	1.41 [0.51, 3.90]	
Total (95% CI)		559		575	100.0%	0.92 [0.71, 1.21]	*
Total events	85		95				
Heterogeneity: Tau ² =	Heterogeneity: Tau ² = 0.00; Chi ² = 1.58, df = 3 (P = 0.66); I ² = 0%						
Test for overall effect: Z = 0.57 (P = 0.57)							0.01 0.1 1 10 100 Favours less oxygen Favours more oxygen

e. New-onset infection



f. New-onset ARDS

	Conservative oxygen	Liberal oxygen	therapy		Risk Ratio	Risk Ratio					
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% C	l	M-H, Ra	ndom, 95	% CI	
Girardis 2016	14	216	14	218	48.5%	1.01 [0.49, 2.07]		-	•		
Jakkula 2018	1	61	1	59	3.3%	0.97 [0.06, 15.11]			+		
Lång 2018	3	27	0	38	2.9%	9.75 [0.52, 181.35]				•	\longrightarrow
Panwar 2016	11	52	11	51	45.3%	0.98 [0.47, 2.06]		-	•		
Total (95% CI)		356		366	100.0%	1.06 [0.65, 1.75]			*		
Total events	29		26								
Heterogeneity: Tau ² =	0.00; Chi ² = 2.34, df = 3	(P = 0.50);				0.04		+	10	400	
Test for overall effect:	Test for overall effect: Z = 0.24 (P = 0.81)						0.01	0.1	T n Favor	10	100
	. ,							Favours less oxyge	aravot	irs more oxyg	Jen

g. Atelectasis

	Conservative oxygen	Liberal oxygen	therapy		Risk Ratio		Risk Ratio				
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI		M-H, Rar		95% CI	
Asfar 2017	13	217	26	217	46.9%	0.50 [0.26, 0.95]		-	_		
Lång 2018	14	27	18	38	53.1%	1.09 [0.67, 1.79]		-	+		
Total (95% CI)		244		255	100.0%	0.76 [0.34, 1.70]		•			
Total events	27		44								
Heterogeneity: $Tau^2 = 0.26$; $Chi^2 = 4.04$, $df = 1$ (P = 0.04); $I^2 = 75\%$							0.01	0.1	+	10	100
Test for overall effect:					0.01	Favours less oxyger	ı Fav	ours more oxygen			

h. Pneumothorax

	Conservative oxygen to	Liberal oxygen tl	herapy	Risk Ratio			Risk Ratio				
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI		M-H, Rand	lom, 95% CI		
Asfar 2017	5	217	5	217	38.7%	1.00 [0.29, 3.40]			_		
Barrot 2020	6	99	10	102	61.3%	0.62 [0.23, 1.64]			\vdash		
Total (95% CI)		316		319	100.0%	0.74 [0.35, 1.60]		•			
Total events	11		15								
Heterogeneity: $Tau^2 = 0.00$; $Chi^2 = 0.36$, $df = 1$ (P = 0.55); $l^2 = 0\%$ Test for overall effect: $Z = 0.76$ (P = 0.45)							0.01	0.1	1	10	100
rest for overall effect.						Favours less oxygen	Favours mo	re oxyge	n		

i. Mesenteric ischaemia

