# WHO recommendations on interventions to improve preterm birth outcomes:

**Evidence** base





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Abbreviations: CI: confidence interval; MD: mean difference; OR: odds ratio; RR: relative risk

## Table 1a. Antenatal corticosteroids (ACS) versus placebo or no treatment for accelerating fetal lung maturation for women at risk of preterm birth (all women and babies)

			Quality assess	ment			No. of p	oatients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment	Relative (95% CI)	Absolute	Quality	Importance
Matern	al death		·									
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/188 (0.5%)	1/177 (0.6%)	RR 0.98 (0.06 to 15.50)	0 fewer per 1000 (from 5 fewer to 82 more)	⊕⊕OO LOW	CRITICAL
Matern	al admission in	ito intensive ca	re unit									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	6/160 (3.8%)	8/159 (5.0%)	RR 0.74 (0.26 to 2.05)	13 fewer per 1000 (from 37 fewer to 53 more)	⊕⊕OO LOW	CRITICAL
Chorioa	amnionitis											
13	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	91/1254 (7.3%)	101/1271 (7.9%)	RR 0.90 (0.69 to 1.17)	8 fewer per 1000 (from 25 fewer to 14 more)	⊕⊕OO LOW	CRITICAL
Puerpe	ral sepsis				1			1	1			
8	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	57/496 (11.5%)	44/507 (8.7%)	RR 1.35 (0.93 to 1.95)	30 more per 1000 (from 6 fewer to 82 more)	⊕⊕⊕O MODERATE	CRITICAL
Mean i	nterval betwee	n trial entry and	d birth (days) (	better indicate	d by higher val	ues)						
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	749	764	_	MD 0.23 higher (1.86 lower to 2.32 higher)	⊕⊕⊕O MODERATE	CRITICAL
Fetal a	nd neonatal dea	ath		<u>.</u>								
13	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	261/1813 (14.4%)	341/1814 (18.8%)	RR 0.77 (0.67 to 0.89)	43 fewer per 1000 (from 21 fewer to 62 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Fetal de	eath											
13	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	86/1813 (4.7%)	89/1814 (4.9%)	RR 0.98 (0.73 to 1.30)	1 fewer per 1000 (from 13 fewer to 15 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality assess	nent			No. of p	oatients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment	Relative (95% CI)	Absolute	Quality	Importance
Neonat	al death											
21	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	210/2218 (9.5%)	306/2190 (14.0%)	RR 0.68 (0.58 to 0.80)	45 fewer per 1000 (from 28 fewer to 59 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Childho	od death											
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	16/537 (3.0%)	20/473 (4.2%)	RR 0.68 (0.36 to 1.27)	14 fewer per 1000 (from 27 fewer to 11 more)	⊕⊕⊕O MODERATE	CRITICAL
Death i	n adulthood									·		
1	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	21/493 (4.3%)	21/495 (4.2%)	RR 1.00 (0.56 to 1.81)	0 fewer per 1000 (from 19 fewer to 34 more)	⊕⊕OO LOW	CRITICAL
Respira	tory distress s	yndrome										
25	randomized trials	serious2	no serious inconsistency	no serious indirectness	no serious imprecision	none	369/2310 (16.0%)	553/2280 (24.3%)	RR 0.65 (0.58 to 0.73)	85 fewer per 1000 (from 65 fewer to 102 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Modera	ate/severe resp	piratory distres	s syndrome			,						
6	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	81/835 (9.7%)	145/851 (17.0%)	RR 0.55 (0.43 to 0.71)	77 fewer per 1000 (from 49 fewer to 97 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Mean d	uration of mec	hanical ventilat	tion/continuou	s positive airwa	ay pressure (da	iys) (better indi	icated by lowe	r values)				
3	randomized trials	no serious risk of bias	serious⁵	no serious indirectness	no serious imprecision	none	264	254	_	MD 1.42 lower (2.28 to 0.56 lower)	⊕⊕⊕O MODERATE	CRITICAL
Mean d	uration of oxyg	gen supplement	tation (days) (b	etter indicated	by lower value	es)						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>6</sup>	none	28	45	_	MD 2.86 lower (5.51 to 0.21 lower)	⊕⊕⊕O MODERATE	CRITICAL
Surfact	ant use											
4	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	42/392 (10.7%)	56/384 (14.6%)	RR 0.74 (0.52 to 1.05)	38 fewer per 1000 (from 70 fewer to 7 more)	⊕⊕OO LOW	CRITICAL

			Quality assess	nent			No. of	patients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment	Relative (95% CI)	Absolute	Quality	Importance
Chronic	: lung disease											
6	randomized trials	serious <sup>2</sup>	serious⁵	no serious indirectness	serious <sup>3</sup>	none	48/413 (11.6%)	50/405 (12.3%)	RR 0.86 (0.61 to 1.22)	17 fewer per 1000 (from 48 fewer to 27 more)	⊕OOO VERY LOW	CRITICAL
Cerebro	oventricular ha	emorrhage										
13	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	88/1445 (6.1%)	155/1427 (10.9%)	RR 0.54 (0.43 to 0.69)	50 fewer per 1000 (from 34 fewer to 62 fewer)	⊕⊕⊕O MODERATE	CRITICAL
System	ic infection in t	he first 48 hou	rs of life									
6	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	33/685 (4.8%)	57/674 (8.5%)	RR 0.57 (0.38 to 0.86)	36 fewer per 1000 (from 12 fewer to 52 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Necroti	izing enterocoli	tis										
8	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	25/853 (2.9%)	52/822 (6.3%)	RR 0.46 (0.29 to 0.74)	34 fewer per 1000 (from 16 fewer to 45 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Small fo	or gestational a	ige	1									,
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	73/367 (19.9%)	63/331 (19%)	RR 1.05 (0.78 to 1.42)	10 more per 1000 (from 42 fewer to 80 more)	⊕⊕⊕O MODERATE	CRITICAL
Mean b	irth weight (g)	(better indicat	ed by higher va	lues)								
13	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	1498	1463	_	MD 6.93 lower (39.41 lower to 25.55 higher)	⊕⊕OO LOW	CRITICAL
Admiss	ion to neonata	intensive care	unit									
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	112/314 (35.7%)	127/315 (40.3%)	RR 0.88 (0.73 to 1.06)	48 fewer per 1000 (from 109 fewer to 24 more)	⊕⊕⊕O MODERATE	IMPOR- TANT
Mean d	uration of neor	natal hospitaliz	ation (days) (b	etter indicated	by lower value	s)						
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	323	318	_	MD 0 higher (1.08 lower to 1.09 higher)	⊕⊕⊕O MODERATE	CRITICAL

			Quality assess	nent			No. of	patients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment	Relative (95% CI)	Absolute	Quality	Importance
Cerebra	al palsy in child	hood										
5	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	20/490 (4.1%)	28/414 (6.8%)	RR 0.60 (0.34 to 1.03)	27 fewer per 1000 (from 45 fewer to 2 more)	⊕⊕OO LOW	CRITICAL
Develo	pmental delay i	n childhood	÷			·			·	·		
2	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	11/266 (4.1%)	19/252 (7.5%)	RR 0.49 (0.24 to 1.00)	38 fewer per 1000 (from 57 fewer to 0 more)	⊕⊕⊕O MODERATE	CRITICAL
Visual i	mpairment in c	hildhood										
2	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	9/100 (9.0%)	11/66 (16.7%)	RR 0.55 (0.24 to 1.23)	75 fewer per 1000 (from 127 fewer to 38 more)	⊕⊕OO LOW	CRITICAL
Hearing	g impairment in	childhood										
2	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	1/100 (1.0%)	1/66 (1.5%)	RR 0.64 (0.04 to 9.87)	5 fewer per 1000 (from 15 fewer to 134 more)	⊕OOO VERY LOW	CRITICAL
Neurod	evelopmental d	lelay in childh	ood									,
1	randomized trials	serious4	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	3/50 (6.0%)	3/32 (9.4%)	RR 0.64 (0.14 to 2.98)	34 fewer per 1000 (from 81 fewer to 186 more)	⊕OOO VERY LOW	CRITICAL
Intellec	tual impairmen	t in childhood						·		1		
3	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	16/409 (3.9%)	17/369 (4.6%)	RR 0.86 (0.44 to 1.69)	6 fewer per 1000 (from 26 fewer to 32 more)	⊕⊕OO LOW	CRITICAL
Behavio	oural/learning o	difficulties in c	hildhood			· · · · ·			·			
1	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	9/54 (16.7%)	7/36 (19.4%)	RR 0.86 (0.35 to 2.09)	27 fewer per 1000 (from 126 fewer to 212 more)	⊕OOO VERY LOW	CRITICAL
Visual i	mpairment in a	dulthood										
1	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	very serious <sup>8</sup>	none	18/87 (20.7%)	24/105 (22.9%)	RR 0.91 (0.53 to 1.55)	21 fewer per 1000 (from 107 fewer to 126 more)	⊕OOO VERY LOW	CRITICAL

			Quality assess	ment			No. of patients		Effect			
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment	Relative (95% CI)	Absolute	Quality	Importance
Hearing	g impairment in	adulthood										
1	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	1/87 (1.1%)	5/105 (4.8%)	RR 0.24 (0.03 to 2.03)	36 fewer per 1000 (from 46 fewer to 49 more)	⊕OOO VERY LOW	CRITICAL
Intellec	tual impairmer	it in adulthood										
2	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	0/135 (0.0%)	2/138 (1.4%)	RR 0.24 (0.01 to 4.95)	11 fewer per 1000 (from 14 fewer to 57 more)	⊕OOO VERY LOW	CRITICAL

1 Wide confidence interval crossing the line of no effect and few events.

2 Most of the pooled effect provided by studies with design limitations.

3 Wide confidence interval crossing the line of no effect.

4 One study with design limitations.

5 Statistical heterogeneity ( $l^2 > 60\%$ ).

6 Estimate based on small sample size.

Wide confidence interval crossing the line of no effect, few events and small sample size.
Wide confidence interval crossing the line of no effect and small sample size.

#### Table 1b. Antenatal corticosteroids (ACS) versus placebo or no treatment for accelerating fetal lung maturation for women at risk of preterm birth (gestational age at first dose)

Source: Roberts D, Dalziel SR. Antenatal corticosteroids for accelerating fetal lung maturation for women at risk of preterm birth. Cochrane Database Syst Rev. 2006;(3):CD004454. (updated for the guideline)

			Quality assessm	ient			N	o. of patients	l i	Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by gestational age at 1st dose)	Relative (95% Cl)	Absolute	Quality	Importance
Chorioa	mnionitis — in	women < 26 we	eks of gestatio	on at 1st dose								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	6/22 (27.3%)	3/24 (12.5%)	RR 2.18 (0.62 to 7.69)	148 more per 1000 (from 47 fewer to 836 more)	⊕⊕OO LOW	CRITICAL
Chorioa	mnionitis — in	women betwee	n 26 and < 30 v	weeks at 1st do	se				` 		` `	
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	17/129 (13.2%)	14/113 (12.4%)	RR 1.06 (0.55 to 2.06)	7 more per 1000 (from 56 fewer to 131 more)	⊕⊕OO LOW	CRITICAL
Chorioa	mnionitis — in	women betwee	n 30 and < 33 v	weeks at 1st do	se							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	2/150 (1.3%)	10/144 (6.9%)	RR 0.19 (0.04 to 0.86)	56 fewer per 1000 (from 10 fewer to 67 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Chorioa	mnionitis — in	women betwee	n 33 and < 35 v	veeks at 1st do	se							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	3/158 (1.9%)	7/175 (4.0%)	RR 0.47 (0.12 to 1.80)	21 fewer per 1000 (from 35 fewer to 32 more)	⊕⊕OO LOW	CRITICAL
Chorioa	mnionitis — in	women betwee	n 35 and < 37 v	veeks at 1st do	se	-						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	0/81 (0.0%)	3/100 (3.0%)	RR 0.18 (0.01 to 3.36)	25 fewer per 1000 (from 30 fewer to 71 more)	⊕⊕OO LOW	CRITICAL
Chorioa	mnionitis — in	women > 36 we	eks at 1st dose		,							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>5</sup>	none	0/16 (0.0%)	0/24 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Fetal an	id neonatal dea	ths — in babies	< 26 weeks at	1st dose								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	15/23 (65.2%)	17/26 (65.4%)	RR 1.00 (0.66 to 1.50)	0 fewer per 1000 (from 222 fewer to 327 more)	⊕⊕OO LOW	CRITICAL

6

			Quality assessm	ent			N	o. of patients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by gestational age at 1st dose)	Relative (95% CI)	Absolute	Quality	Importance
Fetal an	d neonatal dea	ths — in babies	between 26 ar	nd < 30 weeks a	at 1st dose							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	50/140 (35.7%)	54/121 (44.6%)	RR 0.80 (0.59 to 1.08)	89 fewer per 1000 (from 183 fewer to 36 more)	⊕⊕OO LOW	CRITICAL
Fetal an	d neonatal dea	ths — in babies	between 30 ar	nd < 33 weeks a	at 1st dose							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>6</sup>	none	19/165 (11.5%)	30/154 (19.5%)	RR 0.59 (0.35 to 1.01)	80 fewer per 1000 (from 127 fewer to 2 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal an	d neonatal dea	ths — in babies	between 33 ar	nd < 35 weeks a	at 1st dose							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>6</sup>	none	18/168 (10.7%)	18/185 (9.7%)	RR 1.10 (0.59 to 2.05)	10 more per 1000 (from 40 fewer to 102 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal an	d neonatal dea	ths — in babies	between 35 ar	nd < 37 weeks a	at 1st dose		`					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	3/87 (3.4%)	3/107 (2.8%)	RR 1.23 (0.25 to 5.94)	6 more per 1000 (from 21 fewer to 139 more)	⊕⊕OO LOW	CRITICAL
Fetal an	d neonatal dea	ths — in babies	s > 36 weeks at	1st dose								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	3/18 (16.7%)	0/24 (0.0%)	RR 9.21 (0.51 to 167.82)	—	⊕⊕OO LOW	CRITICAL
Fetal de	aths — in babie	es < 26 weeks a	t 1st dose									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	8/23 (34.8%)	14/26 (53.8%)	RR 0.65 (0.33 to 1.25)	188 fewer per 1000 (from 361 fewer to 135 more)	⊕⊕OO LOW	CRITICAL
Fetal de	aths — in babie	es between 26 a	and < 30 weeks	at 1st dose								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	20/140 (14.3%)	14/121 (11.6%)	RR 1.23 (0.65 to 2.34)	27 more per 1000 (from 40 fewer to 155 more)	⊕⊕OO LOW	CRITICAL
Fetal de	aths — in babie	es between 30 a	and < 33 weeks	at 1st dose								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	10/165 (6.1%)	14/154 (9.1%)	RR 0.67 (0.31 to 1.46)	30 fewer per 1000 (from 63 fewer to 42 more)	⊕⊕OO LOW	CRITICAL

			Quality assessm	ent			N	o. of patients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by gestational age at 1st dose)	Relative (95% CI)	Absolute	Quality	Importance
Fetal de	aths — in babie	es between 33 a	and < 35 weeks	at 1st dose			·					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	7/168 (4.2%)	7/185 (3.8%)	RR 1.10 (0.39 to 3.07)	4 more per 1000 (from 23 fewer to 78 more)	⊕⊕OO LOW	CRITICAL
Fetal de	aths — in babie	es between 35 a	and < 37 weeks	at 1st dose								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	2/87 (2.3%)	1/107 (0.9%)	RR 2.46 (0.23 to 26.68)	14 more per 1000 (from 7 fewer to 240 more)	⊕⊕OO LOW	CRITICAL
Fetal de	aths — in babie	es > 36 weeks a	t 1st dose									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>5</sup>	none	0/18 (0.0%)	0/24 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Neonata	al deaths — in b	abies < 26 wee	ks at 1st dose									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	7/15 (46.7%)	3/12 (25.0%)	RR 1.87 (0.61 to 5.72)	218 more per 1000 (from 97 fewer to 1000 more)	⊕⊕OO LOW	CRITICAL
Neonata	al deaths — in b	abies between	26 and < 30 w	eeks at 1st dos	e	-						-
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	30/120 (25.0%)	40/107 (37.4%)	RR 0.67 (0.45 to 0.99)	123 fewer per 1000 (from 4 fewer to 206 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Neonata	al deaths — in b	abies between	30 and < 33 w	eeks at 1st dos	e							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	9/155 (5.8%)	16/140 (11.4%)	RR 0.51 (0.23 to 1.11)	56 fewer per 1000 (from 88 fewer to 13 more)	⊕⊕OO LOW	CRITICAL
Neonata	al deaths — in b	abies between	33 and < 35 we	eeks at 1st dose	2							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	11/161 (6.8%)	11/178 (6.2%)	RR 1.11 (0.49 to 2.48)	7 more per 1000 (from 32 fewer to 91 more)	⊕⊕OO LOW	CRITICAL
Neonata	al deaths — in b	abies between	35 and < 37 we	eks at 1st dose	9							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/85 (1.2%)	2/106 (1.9%)	RR 0.62 (0.06 to 6.76)	7 fewer per 1000 (from 18 fewer to 109 more)	⊕⊕OO LOW	CRITICAL

			Quality assessm	ient			N	o. of patients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by gestational age at 1st dose)	Relative (95% CI)	Absolute	Quality	Importance
Neonata	al deaths — in b	abies between	34 and < 37 we	eks at 1st dose	•							
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	1/248 (0.4%)	4/263 (1.5%)	RR 0.37 (0.06 to 2.26)	10 fewer per 1000 (from 14 fewer to 19 more)	⊕⊕OO LOW	CRITICAL
Neonata	al deaths — in b	abies > 36 wee	ks at 1st dose									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	3/18 (16.7%)	0/24 (0.0%)	RR 9.21 (0.51 to 167.82)	—	⊕⊕OO LOW	CRITICAL
Respirat	tory distress sy	vndrome — in b	abies < 26 wee	ks at 1st dose								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	4/14 (28.6%)	1/10 (10.0%)	RR 2.86 (0.37 to 21.87)	186 more per 1000 (from 63 fewer to 1000 more)	⊕⊕OO LOW	CRITICAL
Respirat	tory distress sy	vndrome — in b	abies between	26 and < 30 we	eeks at 1st dos	e						
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious7	none	27/129 (20.9%)	50/113 (44.2%)	RR 0.49 (0.34 to 0.72)	226 fewer per 1000 (from 124 fewer to 292 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Respira	tory distress sy	vndrome — in b	abies between	30 and < 33 we	eks at 1st dos	e		1				
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	25/186 (13.4%)	43/175 (24.6%)	RR 0.56 (0.36 to 0.87)	108 fewer per 1000 (from 32 fewer to 157 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Respira	tory distress sy	vndrome — in b	abies between	33 and < 35 we	eks at 1st dos	e						
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	18/212 (8.5%)	34/222 (15.3%)	RR 0.53 (0.31 to 0.91)	72 fewer per 1000 (from 14 fewer to 106 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Respira	tory distress sy	vndrome — in b	abies between	35 and < 37 we	eks at 1st dos	e						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	2/85 (2.4%)	4/104 (3.8%)	RR 0.61 (0.11 to 3.26)	15 fewer per 1000 (from 34 fewer to 87 more)	⊕⊕OO LOW	CRITICAL
Respirat	tory distress sy	vndrome — in b	abies between	34 and < 37 we	eks at 1st dos	e	·					
3	randomized trials	serious <sup>8</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	6/298 (2.0%)	13/311 (4.2%)	RR 0.49 (0.19 to 1.26)	21 fewer per 1000 (from 34 fewer to 11 more)	⊕OOO VERY LOW	CRITICAL

			Quality assessm	ient			N	o. of patients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by gestational age at 1st dose)	Relative (95% CI)	Absolute	Quality	Importance
Respira	tory distress sy	vndrome — in b	abies > 36 wee	ks at 1st dose								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	0/16 (0.0%)	0/24 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Cerebro	ventricular hae	emorrhage — in	babies < 26 w	eeks at 1st dos	e							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	3/15 (20.0%)	2/12 (16.7%)	RR 1.20 (0.24 to 6.06)	33 more per 1000 (from 127 fewer to 843 more)	⊕⊕OO LOW	CRITICAL
Cerebro	ventricular hae	emorrhage — in	babies betwee	en 26 and < 30	weeks at 1st d	ose						
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>7</sup>	none	9/121 (7.4%)	18/108 (16.7%)	RR 0.45 (0.21 to 0.95)	92 fewer per 1000 (from 8 fewer to 132 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Cerebro	ventricular hae	emorrhage — in	babies betwee	en 30 and < 33	weeks at 1st d	ose						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/155 (0.6%)	4/140 (2.9%)	RR 0.23 (0.03 to 2.00)	22 fewer per 1000 (from 28 fewer to 29 more)	⊕⊕OO LOW	CRITICAL
Cerebro	ventricular hae	emorrhage — in	babies betwee	en 33 and < 35	weeks at 1st do	ose						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	3/161 (1.9%)	3/178 (1.7%)	RR 1.11 (0.23 to 5.40)	2 more per 1000 (from 13 fewer to 74 more)	⊕⊕OO LOW	CRITICAL
Cerebro	ventricular hae	emorrhage — in	babies betwee	en 35 and < 37	weeks at 1st do	ose						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>5</sup>	none	0/85 (0.0%)	0/106 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Cerebro	ventricular hae	emorrhage — in	babies > 36 w	eeks at 1st dos	e							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	0/18 (0.0%)	0/24 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Mean bi	rth weight (g)	— in babies < 2	6 weeks at 1st	dose (better in	dicated by hig	her values)						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	23	26	_	MD 63.14 higher (607.37 lower to 733.65 higher)	⊕⊕OO LOW	CRITICAL
Mean bi	rth weight (g)	— in babies bet	ween 26 and <	30 weeks at 1s	st dose (better	indicated by h	igher value	es)				
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	140	121	_	MD 26.41 higher (215.55 lower to 268.37 higher)	⊕⊕OO LOW	CRITICAL

			Quality assessm	ient			N	lo. of patients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by gestational age at 1st dose)	Relative (95% CI)	Absolute	Quality	Importance
Mean bi	irth weight (g)	— in babies bet	ween 30 and <	33 weeks at 1s	t dose (better	indicated by h	igher valu	es)				
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	165	154	_	MD 190.64 lower (359.98 to 21.30 lower)	⊕⊕⊕⊕ HIGH	CRITICAL
Mean b	irth weight (g)	— in babies bet	ween 33 and <	35 weeks at 1s	t dose (better	indicated by hi	gher value	es)				
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>6</sup>	none	168	185	_	MD 38.72 lower (172.29 lower to 94.85 higher)	⊕⊕⊕O MODERATE	CRITICAL
Mean b	irth weight (g)	— in babies bet	ween 35 and <	37 weeks at 1s	t dose (better	indicated by hi	gher value	es)				
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	87	107	_	MD 13.57 lower (175.45 lower to 148.31 higher)	⊕⊕OO LOW	CRITICAL
Mean b	irth weight (g)	— in babies bet	ween 34 and <	37 weeks at 1s	t dose (better	indicated by hi	gher value	es)				
3	randomized trials	serious8	no serious inconsistency	no serious indirectness	serious <sup>6</sup>	none	280	287	_	MD 3.51 higher (41.98 lower to 49 higher)	⊕⊕OO LOW	CRITICAL
Mean b	irth weight (g)	— in babies > 3	6 weeks at 1st	dose (better in	dicated by hig	her values)						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	18	24	_	MD 73.89 higher (270.89 lower to 418.67 higher)	⊕⊕OO LOW	CRITICAL

Wide confidence interval crossing the line of no effect, few events and small sample size.
 Wide confidence interval crossing the line of no effect and small sample size.

3 Estimate based on few events and small sample size.

4 Wide confidence interval crossing the line of no effect and few events.

5 No events.

6 Wide confidence interval crossing the line of no effect.

7 Few events and small sample size.

8 Most studies contributing data had design limitations.

## Table 1c. Antenatal corticosteroids (ACS) versus placebo or no treatment for accelerating fetal lung maturation for women at risk of preterm birth (gestational age at birth)

			Quality assess	ment				No. of patients	Effe	ct		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by gestational age at birth)	Relative (95% CI)	Absolute	Quality	Importance
Chorioa	mnionitis — ii	n women delive	ring < 28 weeks	ofgestation								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	10/45 (22.2%)	11/46 (23.9%)	RR 0.93 (0.44 to 1.97)	17 fewer per 1000 (from 134 fewer to 232 more)	⊕⊕OO LOW	CRITICAL
Chorioa	mnionitis — ii	n women delive	ring < 30 weeks	;								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	19/91 (20.9%)	18/93 (19.4%)	RR 1.08 (0.61 to 1.92)	15 more per 1000 (from 75 fewer to 178 more)	⊕⊕OO LOW	CRITICAL
Chorioa	mnionitis — i	n women delive	ring < 32 weeks	1								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	21/165 (12.7%)	25/154 (16.2%)	RR 0.78 (0.46 to 1.34)	36 fewer per 1000 (from 88 fewer to 55 more)	⊕⊕OO LOW	CRITICAL
Chorioa	mnionitis — ii	n women delive	ring < 34 weeks	; ;				,				-
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	25/283 (8.8%)	34/264 (12.9%)	RR 0.69 (0.42 to 1.12)	40 fewer per 1000 (from 75 fewer to 15 more)	⊕⊕OO LOW	CRITICAL
Chorioa	mnionitis — i	n women delive	ring < 36 weeks	5								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	27/401 (6.7%)	37/392 (9.4%)	RR 0.71 (0.44 to 1.15)	27 fewer per 1000 (from 53 fewer to 14 more)	⊕⊕OO LOW	CRITICAL
Chorioa	mnionitis — ii	n women delive	ring ≥ 34 weeks	;								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	5/337 (1.5%)	10/391 (2.6%)	RR 0.58 (0.20 to 1.68)	11 fewer per 1000 (from 20 fewer to 17 more)	⊕⊕OO LOW	CRITICAL

			Quality assess	ment				No. of patients	Effe	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by gestational age at birth)	Relative (95% CI)	Absolute	Quality	Importance
Chorioa	mnionitis — ir	n women delive	ring ≥ 36 weeks									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	2/202 (1.0%)	2/240 (0.8%)	RR 1.19 (0.17 to 8.36)	2 more per 1000 (from 7 fewer to 61 more)	⊕⊕OO LOW	CRITICAL
Fetal an	d neonatal de	aths — in babie	s born < 28 wee	ks								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	39/60 (65%)	53/69 (76.8%)	RR 0.81 (0.65 to 1.01)	146 fewer per 1000 (from 269 fewer to 8 more)	⊕⊕OO LOW	CRITICAL
Fetal an	d neonatal de	aths — in babie	s born < 30 wee	eks								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	59/99 (59.6%)	71/102 (69.6%)	RR 0.86 (0.7 to 1.05)	97 fewer per 1000 (from 209 fewer to 35 more)	⊕⊕OO LOW	CRITICAL
Fetal an	d neonatal de	aths — in babie	s born < 32 wee	eks								
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	82/230 (35.7%)	110/223 (49.3%)	RR 0.71 (0.57 to 0.88)	143 fewer per 1000 (from 59 fewer to 212 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Fetal an	d neonatal de	aths — in babie	s born < 34 wee	eks								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	90/312 (28.8%)	113/286 (39.5%)	RR 0.73 (0.58 to 0.91)	107 fewer per 1000 (from 36 fewer to 166 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Fetal an	d neonatal de	aths — in babie	s born < 36 wee	eks								
2	randomized trials	no serious risk of bias	serious2	no serious indirectness	no serious imprecision	none	107/498 (21.5%)	135/471 (28.7%)	RR 0.75 (0.61 to 0.94)	72 fewer per 1000 (from 17 fewer to 112 fewer)	⊕⊕OO MODERATE	CRITICAL
Fetal an	d neonatal de	aths — in babie	s born ≥ 34 wee	eks								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	24/361 (6.6%)	24/409 (5.9%)	RR 1.13 (0.66 to 1.96)	8 more per 1000 (from 20 fewer to 56 more)	⊕⊕OO MODERATE	CRITICAL

			Quality assess	ment				No. of patients	Effe	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by gestational age at birth)	Relative (95% CI)	Absolute	Quality	Importance
Fetal an	nd neonatal de	aths — in babie	s born ≥ 36 wee	eks								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	10/234 (4.3%)	3/264 (1.1%)	RR 3.25 (0.99 to 10.66)	26 more per 1000 (from 0 fewer to 110 more)	⊕⊕OO LOW	CRITICAL
Fetal de	eaths — in bab	ies born < 28 w	eeks									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	15/60 (25.0%)	25/69 (36.2%)	RR 0.65 (0.39 to 1.09)	127 fewer per 1000 (from 221 fewer to 33 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal de	eaths — in bab	ies born < 30 w	eeks									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	23/99 (23.2%)	28/102 (27.5%)	RR 0.85 (0.53 to 1.36)	41 fewer per 1000 (from 129 fewer to 99 more)	⊕⊕OO LOW	CRITICAL
Fetal de	eaths — in bab	ies born < 32 w	eeks									
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	37/230 (16.1%)	38/223 (17.0%)	RR 0.92 (0.62 to 1.38)	14 fewer per 1000 (from 65 fewer to 65 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal de	eaths — in bab	ies born < 34 w	eeks									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	39/312 (12.5%)	44/286 (15.4%)	RR 0.81 (0.54 to 1.21)	29 fewer per 1000 (from 71 fewer to 32 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal de	eaths — in bab	ies born < 36 w	eeks									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	47/498 (9.4%)	53/471 (11.3%)	RR 0.85 (0.59 to 1.23)	17 fewer per 1000 (from 46 fewer to 26 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal de	eaths — in bab	ies born ≥ 34 w	eeks									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	10/361 (2.8%)	14/409 (3.4%)	RR 0.81 (0.36 to 1.80)	7 fewer per 1000 (from 22 fewer to 27 more)	⊕⊕OO LOW	CRITICAL

			Quality assess	ment			l	No. of patients	Effe	ct		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by gestational age at birth)	Relative (95% CI)	Absolute	Quality	Importance
Fetal de	aths — in bab	ies born ≥ 36 w	eeks			·		·	·			
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	2/234 (0.9%)	0/264 (0.0%)	RR 5.92 (0.29 to 122.63)	—	⊕⊕OO LOW	CRITICAL
Neonata	al deaths — in	babies born < 2	28 weeks									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>5</sup>	none	24/45 (53.3%)	28/44 (63.6%)	RR 0.79 (0.56 to 1.12)	134 fewer per 1000 (from 280 fewer to 76 more)	⊕⊕OO LOW	CRITICAL
Neonata	al deaths — in	babies born < 3	80 weeks									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>5</sup>	none	36/76 (47.4%)	43/74 (58.1%)	RR 0.82 (0.60 to 1.11)	105 fewer per 1000 (from 232 fewer to 64 more)	⊕⊕OO LOW	CRITICAL
Neonata	al deaths — in	babies born < 3	32 weeks									
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	45/193 (23.3%)	72/185 (38.9%)	RR 0.59 (0.43 to 0.80)	160 fewer per 1000 (from 78 fewer to 222 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Neonata	al deaths — in	babies born < 3	34 weeks							· · · · ·		-
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	65/372 (17.5%)	86/343 (25.1%)	RR 0.69 (0.52 to 0.92)	78 fewer per 1000 (from 20 fewer to 120 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Neonata	al deaths — in	babies born < 3	36 weeks									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	60/451 (13.3%)	82/418 (19.6%)	RR 0.68 (0.50 to 0.92)	63 fewer per 1000 (from 16 fewer to 98 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Neonata	al deaths — in	babies born <3	7 weeks									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/163 (0.0%)	2/157 (1.3%)	RR 0.19 (0.01 to 3.98)	10 fewer per 1000 (from 13 fewer to 38 more)	⊕⊕OO LOW	CRITICAL

			Quality assess	sment				No. of patients	Effe	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by gestational age at birth)	Relative (95% CI)	Absolute	Quality	Importance
Neonata	al deaths — in	babies born $\ge 3$	34 weeks									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	14/382 (3.7%)	10/426 (2.3%)	RR 1.58 (0.71 to 3.50)	14 more per 1000 (from 7 fewer to 59 more)	⊕⊕OO LOW	CRITICAL
Neonat	al deaths — in	babies born $\ge 3$	36 weeks									
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	8/241 (3.3%)	3/273 (1.1%)	RR 2.62 (0.77 to 8.96)	18 more per 1000 (from 3 fewer to 87 more)	⊕⊕OO LOW	CRITICAL
Respira	tory distress s	syndrome — in	babies born < 2	8 weeks								
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	20/48 (41.7%)	29/54 (53.7%)	RR 0.79 (0.53 to 1.18)	113 fewer per 1000 (from 252 fewer to 97 more)	⊕⊕OO LOW	CRITICAL
Respira	tory distress s	syndrome — in	babies born < 3	0 weeks								
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>6</sup>	none	46/108 (42.6%)	71/110 (64.5%)	RR 0.67 (0.52 to 0.87)	213 fewer per 1000 (from 84 fewer to 310 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Respira	tory distress s	syndrome — in	babies born < 3	2 weeks		·						
6	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	75/292 (25.7%)	134/291 (46.0%)	RR 0.56 (0.45 to 0.71)	203 fewer per 1000 (from 134 fewer to 253 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Respira	tory distress s	syndrome — in	babies born < 3	4 weeks								
5	randomized trials	serious <sup>7</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	109/600 (18.2%)	179/577 (31.0%)	RR 0.58 (0.47 to 0.72)	130 fewer per 1000 (from 87 fewer to 164 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Respira	tory distress s	syndrome — in	babies born < 3	6 weeks								
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	66/525 (12.6%)	121/497 (24.3%)	RR 0.52 (0.40 to 0.69)	117 fewer per 1000 (from 75 fewer to 146 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL

			Quality assess	ment				No. of patients	Effe	ct		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by gestational age at birth)	Relative (95% CI)	Absolute	Quality	Importance
Respira	tory distress s	syndrome — in	babies born < 37	7 weeks								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	2/163 (1.2%)	1/157 (0.6%)	RR 1.93 (0.18 to 21.03)	6 more per 1000 (from 5 fewer to 128 more)	⊕⊕OO LOW	CRITICAL
Respira	tory distress s	syndrome — in	babies born $\ge 3$	4 weeks								
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	19/618 (3.1%)	30/643 (4.7%)	RR 0.66 (0.38 to 1.16)	16 fewer per 1000 (from 29 fewer to 7 more)	⊕⊕⊕O MODERATE	CRITICAL
Respira	tory distress s	syndrome — in	babies born $\ge$ 3	6 weeks								
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	1/261 (0.4%)	4/296 (1.4%)	RR 0.30 (0.03 to 2.67)	9 fewer per 1000 (from 13 fewer to 23 more)	⊕⊕OO LOW	CRITICAL
Cerebro	oventricular ha	aemorrhage — i	n babies born <	28 weeks						• •		
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>8</sup>	none	5/34 (14.7%)	12/28 (42.9%)	RR 0.34 (0.14 to 0.86)	283 fewer per 1000 (from 60 fewer to 369 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Cerebro	oventricular ha	aemorrhage — i	n babies born <	30 weeks								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	11/76 (14.5%)	19/74 (25.7%)	RR 0.56 (0.29 to 1.10)	113 fewer per 1000 (from 182 fewer to 26 more)	⊕⊕OO LOW	CRITICAL
Cerebro	oventricular ha	aemorrhage — i	n babies born <	32 weeks								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>6</sup>	none	13/144 (9.0%)	23/133 (17.3%)	RR 0.52 (0.28 to 0.99)	83 fewer per 1000 (from 2 fewer to 125 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Cerebro	oventricular ha	aemorrhage — i	n babies born <	34 weeks								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	16/273 (5.9%)	27/242 (11.2%)	RR 0.53 (0.29 to 0.95)	52 fewer per 1000 (from 6 fewer to 79 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL

			Quality assess	ment				No. of patients	Effe	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by gestational age at birth)	Relative (95% CI)	Absolute	Quality	Importance
Cerebro	ventricular ha	emorrhage — i	n babies born <	36 weeks								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	16/394 (4.1%)	27/373 (7.2%)	RR 0.56 (0.31 to 1.02)	32 fewer per 1000 (from 50 fewer to 1 more)	⊕⊕⊕O MODERATE	CRITICAL
Cerebro	ventricular ha	emorrhage — i	n babies born ≥	34 weeks								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	1/351 (0.3%)	1/395 (0.3%)	RR 1.13 (0.07 to 17.92)	0 more per 1000 (from 2 fewer to 43 more)	⊕⊕OO LOW	CRITICAL
Cerebro	ventricular ha	emorrhage — i	n babies born ≥	36 weeks								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>9</sup>	none	0/209 (0.0%)	0/250 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Mean bi	rth weight (g)	) — in babies bo	orn < 28 weeks (	(better indicate	ed by higher va	lues)						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	49	51	-	MD 71.2 higher (42.54 lower to 184.94 higher)	⊕⊕OO LOW	CRITICAL
Mean bi	rth weight (g)	) — in babies bo	orn < 30 weeks	(better indicat	ed by higher va	alues)						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	99	102	_	MD 0.89 higher (98.17 lower to 99.95 higher)	⊕⊕OO LOW	CRITICAL
Mean bi	rth weight (g)	) — in babies bo	orn < 32 weeks (	better indicate	ed by higher va	lues)						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	179	168	_	MD 1.15 higher (91.77 lower to 94.07 higher)		CRITICAL
Mean bi	rth weight (g)	) — in babies bo	orn < 34 weeks (	(better indicat	ed by higher va	lues)						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	312	286	_	MD 30.28 lower (115.06 lower to 54.5 higher)	⊕⊕⊕O MODERATE	CRITICAL

			Quality assess	ment				No. of patients	Effe	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by gestational age at birth)	Relative (95% CI)	Absolute	Quality	Importance
Mean bi	rth weight (g)	) — in babies bo	orn < 36 weeks	(better indicat	ed by higher va	lues)						
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	524	520	_	MD 8.32 lower (51.31 lower to 34.67 higher)	⊕⊕⊕O MODERATE	CRITICAL
Mean bi	rth weight (g)	) — in babies bo	orn < 37 weeks (	better indicate	ed by higher va	lues)						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>5</sup>	none	143	130	_	MD 13 higher (93.57 lower to 119.57 higher)	⊕⊕OO LOW	CRITICAL
Mean bi	rth weight (g)	) — in babies bo	orn ≥ 34 weeks	(better indicat	ed by higher va	lues)						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	361	409	_	MD 12 lower (107.48 lower to 83.48 higher)	⊕⊕⊕O MODERATE	CRITICAL
Mean bi	rth weight (g)	) — in babies bo	orn ≥36 weeks (	better indicate	ed by higher va	lues)						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	390	367	_	MD 34.84 lower (117.23 lower to 47.55 higher)	⊕⊕⊕O MODERATE	CRITICAL

1 Wide confidence interval crossing the line of no effect, few events and small sample size.

Wide confidence interval crossing the line of no effect, new events and small size.
 Statistical heterogeneity (l<sup>2</sup> > 60%).
 Wide confidence interval crossing the line of no effect.
 Wide confidence interval crossing the line of no effect and few events.
 Wide confidence interval crossing the line of no effect and small sample size.

6 Estimate based on small sample size.

7 Most studies contributing data had design limitations.

8 Estimate based on small sample size and few events.

9 No events.

## Table 1d. Antenatal corticosteroids (ACS) versus placebo or no treatment for accelerating fetal lung maturation for women at risk of preterm birth (interval to delivery)

			Quality assess	ment			1	lo. of patients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by interval to delivery)	Relative (95% CI)	Absolute	Quality	Importance
Chorioa	mnionitis — in	women deliver	ing < 24 hours a	after 1st dose				·				
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	8/113 (7.1%)	10/126 (7.9%)	RR 0.92 (0.38 to 2.27)	6 fewer per 1000 (from 49 fewer to 101 more)	⊕⊕OO LOW	CRITICAL
Chorioa	mnionitis — in	women deliver	ing < 48 hours a	after 1st dose								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	11/150 (7.3%)	18/191 (9.4%)	RR 0.78 (0.38 to 1.60)	21 fewer per 1000 (from 58 fewer to 57 more)	⊕⊕OO LOW	CRITICAL
Chorioa	mnionitis — in	women deliver	ing 1—7 days af	ter 1st dose								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	11/242 (4.5%)	20/240 (8.3%)	RR 0.55 (0.27 to 1.11)	37 fewer per 1000 (from 61 fewer to 9 more)	⊕⊕⊕O MODERATE	CRITICAL
Chorioa	mnionitis — in	women deliver	ing > 7 days aft	er 1st dose				,				
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	11/229 (4.8%)	7/232 (3.0%)	RR 1.59 (0.63 to 4.03)	18 more per 1000 (from 11 fewer to 91 more)	⊕⊕OO LOW	CRITICAL
Fetal ar	nd neonatal dea	ths — in babies	born < 24 hour	rs after 1st dos	B							
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>4</sup>	none	23/142 (16.2%)	44/151 (29.1%)	RR 0.60 (0.39 to 0.94)	117 fewer per 1000 (from 17 fewer to 178 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Fetal ar	nd neonatal dea	ths — in babies	born < 48 hou	rs after 1st dos	e							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	31/165 (18.8%)	66/208 (31.7%)	RR 0.59 (0.41 to 0.86)	130 fewer per 1000 (from 44 fewer to 187 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL

			Quality assess	nent			N	lo. of patients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by interval to delivery)	Relative (95% CI)	Absolute	Quality	Importance
Fetal ar	nd neonatal dea	ths — in babies	born 1—7 days	after 1st dose								
3	randomized trials	no serious risk of bias	serious5	no serious indirectness	serious <sup>3</sup>	none	62/310 (20.0%)	74/296 (25.0%)	RR 0.81 (0.6 to 1.09)	47 fewer per 1000 (from 100 fewer to 23 more)	⊕⊕OO LOW	CRITICAL
Fetal an	nd neonatal dea	ths — in babies	born > 7 days a	after 1st dose								
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	42/308 (13.6%)	28/290 (9.7%)	RR 1.42 (0.91 to 2.23)	41 more per 1000 (from 9 fewer to 119 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal de	eaths — in babi	es born < 24 ho	urs after 1st do	se								
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	10/142 (7.0%)	18/151 (11.9%)	RR 0.68 (0.34 to 1.38)	38 fewer per 1000 (from 79 fewer to 45 more)	⊕⊕OO LOW	CRITICAL
Fetal de	eaths — in babi	es born < 48 ho	urs after 1st do	se								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	13/165 (7.9%)	21/208 (10.1%)	RR 0.78 (0.4 to 1.51)	22 fewer per 1000 (from 61 fewer to 51 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal de	eaths — in babi	es born 1—7 day	ys after 1st dos	2								
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	22/310 (7.1%)	21/296 (7.1%)	RR 1.01 (0.58 to 1.76)	1 more per 1000 (from 30 fewer to 54 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal de	eaths — in babi	es born > 7 days	s after 1st dose									
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	22/308 (7.1%)	15/290 (5.2%)	RR 1.36 (0.73 to 2.53)	19 more per 1000 (from 14 fewer to 79 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al deaths — in	babies born < 24	4 hours after 1s	t dose								
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	14/152 (9.2%)	27/143 (18.9%)	RR 0.53 (0.29 to 0.96)	89 fewer per 1000 (from 8 fewer to 134 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL

			Quality assess	nent			1	lo. of patients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by interval to delivery)	Relative (95% CI)	Absolute	Quality	Importance
Neonat	al deaths — in l	babies born < 4	8 hours after 1s	t dose								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	18/152 (11.8%)	45/187 (24.1%)	RR 0.49 (0.30 to 0.81)	123 fewer per 1000 (from 46 fewer to 168 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Neonat	al deaths — in l	babies born 1—2	7 days after 1st	dose								
3	randomized trials	no serious risk of bias	serious⁵	no serious indirectness	serious <sup>3</sup>	none	40/288 (13.9%)	53/275 (19.3%)	RR 0.74 (0.51 to 1.07)	50 fewer per 1000 (from 94 fewer to 13 more)	⊕⊕OO LOW	CRITICAL
Neonat	al deaths — in l	babies born > 7	days after 1st d	ose								
3	randomized trials	no serious risk of bias	serious⁵	no serious indirectness	serious <sup>3</sup>	none	20/286 (7.0%)	13/275 (4.7%)	RR 1.45 (0.75 to 2.80)	21 more per 1000 (from 12 fewer to 85 more)	⊕⊕OO LOW	CRITICAL
Respira	tory distress s	yndrome — in b	abies born < 24	hours after 1s	t dose							
9	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	68/260 (26.2%)	74/257 (28.8%)	RR 0.87 (0.66 to 1.15)	37 fewer per 1000 (from 98 fewer to 43 more)	⊕⊕⊕O MODERATE	CRITICAL
Respira	tory distress s	yndrome — in b	abies born < 48	hours after 1s	t dose							
3	randomized trials	no serious risk of bias	serious⁵	no serious indirectness	no serious imprecision	none	38/171 (22.2%)	68/203 (33.5%)	RR 0.67 (0.49 to 0.93)	111 fewer per 1000 (from 23 fewer to 171 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Respira	tory distress s	yndrome — in b	abies born 1—7	days after 1st	dose							
9	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	57/563 (10.1%)	126/547 (23.0%)	RR 0.46 (0.35 to 0.60)	124 fewer per 1000 (from 92 fewer to 150 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Respira	tory distress s	yndrome — in b	abies born > 7 d	lays after 1st d	ose							
8	randomized trials	serious <sup>6</sup>	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	32/498 (6.4%)	37/490 (7.6%)	RR 0.82 (0.53 to 1.28)	14 fewer per 1000 (from 35 fewer to 21 more)	⊕⊕OO LOW	CRITICAL

			Quality assess	nent			N	lo. of patients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by interval to delivery)	Relative (95% CI)	Absolute	Quality	Importance
Modera	ate/severe resp	iratory distress	s syndrome — ir	n babies born <	24 hours afte	er 1st dose						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	13/82 (15.9%)	23/100 (23.0%)	RR 0.69 (0.37 to 1.27)	71 fewer per 1000 (from 145 fewer to 62 more)	⊕⊕OO LOW	CRITICAL
Modera	ate/severe resp	iratory distress	s syndrome — ir	n babies born <	48 hours afte	er 1st dose						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	18/147 (12.2%)	49/179 (27.4%)	RR 0.45 (0.27 to 0.73)	151 fewer per 1000 (from 74 fewer to 200 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Modera	ate/severe resp	iratory distress	s syndrome — ir	n babies born 1	—7 days after	1st dose						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	17/237 (7.2%)	44/225 (19.6%)	RR 0.37 (0.22 to 0.62)	123 fewer per 1000 (from 74 fewer to 153 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Modera	ate/severe resp	iratory distress	s syndrome — ir	n babies born >	7 days after 1	st dose						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	11/223 (4.9%)	6/223 (2.7%)	RR 1.83 (0.69 to 4.87)	22 more per 1000 (from 8 fewer to 104 more)	⊕⊕OO LOW	CRITICAL
Cerebro	oventricular ha	emorrhage — in	babies born < 2	24 hours after	1st dose					·		
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	7/133 (5.3%)	11/131 (8.4%)	RR 0.54 (0.21 to 1.36)	39 fewer per 1000 (from 66 fewer to 30 more)	⊕⊕OO LOW	CRITICAL
Cerebro	oventricular ha	emorrhage — in	babies born < 4	48 hours after	1st dose							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>8</sup>	none	4/152 (2.6%)	19/187 (10.2%)	RR 0.26 (0.09 to 0.75)	75 fewer per 1000 (from 25 fewer to 92 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Cerebro	oventricular ha	emorrhage — in	babies born 1-	-7 days after 1	st dose							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	9/245 (3.7%)	17/237 (7.2%)	RR 0.51 (0.23 to 1.13)	35 fewer per 1000 (from 55 fewer to 9 more)	⊕⊕OO LOW	CRITICAL

			Quality assess	nent			1	lo. of patients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by interval to delivery)	Relative (95% CI)	Absolute	Quality	Importance
Cerebro	ventricular ha	emorrhage — in	babies born > 1	7 days after 1st	dose							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	4/226 (1.8%)	2/227 (0.9%)	RR 2.01 (0.37 to 10.86)	9 more per 1000 (from 6 fewer to 87 more)	⊕⊕OO LOW	CRITICAL
Mean bi	rth weight (g)	— in babies boi	rn < 24 hours af	ter 1st dose (be	etter indicate	d by higher value	es)	• 				
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	112	130	_	MD 46.52 higher (94.26 lower to 187.29 higher)	⊕⊕OO LOW	CRITICAL
Mean bi	rth weight (g)	— in babies boi	rn < 48 hours af	ter 1st dose (b	etter indicate	d by higher valu	es)					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	165	208	_	MD 5.9 lower (131.95 lower to 120.15 higher)	⊕⊕⊕O MODERATE	CRITICAL
Mean bi	rth weight (g)	— in babies boi	rn 1—7 days aft	er 1st dose (bei	ter indicated	by higher values	5)					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	264	256	_	MD 105.92 lower (212.52 lower to 0.68 higher)	⊕⊕⊕⊕ HIGH	CRITICAL
Mean bi	rth weight (g)	— in babies boi	rn > 7 days afte	r 1st dose (bett	er indicated b	y higher values)	1					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	245	241	_	MD 147.01 lower (291.97 to 2.05 lower)	⊕⊕⊕⊕ HIGH	CRITICAL

Wide confidence interval crossing the line of no effect, few events and small sample size.
 Wide confidence interval crossing the line of no effect and few events.
 Wide confidence interval crossing the line of no effect.

4 Estimate based on small sample size.

5 Statistical Heterogeneity (l<sup>2</sup> > 60%).

6 Most studies contributing data had design limitations.7 Wide confidence interval crossing the line of no effect and small sample size.

8 Few events.

## Table 1e. Antenatal corticosteroids (ACS) versus placebo or no treatment for accelerating fetal lung maturation for women at risk of preterm birth (singleton and multiple pregnancy subgroups)

			Quality asse	essment				No. of patients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by singleton/ multiple pregnancy)	Relative (95% CI)	Absolute	Quality	Importance
Chorioa	amnionitis —	in women d	elivering singlet	on babies								
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	50/823 (6.1%)	61/838 (7.3%)	RR 0.82 (0.58 to 1.18)	13 fewer per 1000 (from 31 fewer to 13 more)	⊕⊕⊕O MODERATE	CRITICAL
Chorioa	amnionitis —	in women d	elivering multip	le babies								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	1/40 (2.5%)	2/34 (5.9%)	RR 0.43 (0.04 to 4.49)	34 fewer per 1000 (from 56 fewer to 205 more)	⊕⊕OO LOW	CRITICAL
Fetal a	nd neonatal d	leaths — in l	babies born fron	n singleton preg	gnancies							
3	randomized trials	no serious risk of bias	serious <sup>3</sup>	no serious indirectness	no serious imprecision	none	140/702 (19.9%)	180/723 (24.9%)	RR 0.79 (0.65 to 0.96)	52 fewer per 1000 (from 10 fewer to 87 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Fetal a	nd neonatal d	leaths — in l	babies born fron	n multiple preg	nancies							
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	19/131 (14.5%)	24/121 (19.8%)	RR 0.71 (0.41 to 1.22)	58 fewer per 1000 (from 117 fewer to 44 more)	⊕⊕OO LOW	CRITICAL
Fetal d	eaths — in ba	bies born fr	om singleton pro	egnancies								
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	55/702 (7.8%)	51/723 (7.1%)	RR 1.12 (0.78 to 1.61)	8 more per 1000 (from 16 fewer to 43 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal d	eaths — in ba	bies born fr	om multiple pre	gnancies								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	6/131 (4.6%)	10/121 (8.3%)	RR 0.53 (0.20 to 1.40)	39 fewer per 1000 (from 66 fewer to 33 more)	⊕⊕OO LOW	CRITICAL

			Quality ass	essment				No. of patients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by singleton/ multiple pregnancy)	Relative (95% CI)	Absolute	Quality	Importance
Neonat	al deaths —	in babies bo	rn from singleto	n pregnancies								
7	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	94/957 (9.8%)	141/968 (14.6%)	RR 0.67 (0.53 to 0.85)	48 fewer per 1000 (from 22 fewer to 68 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Neonat	al deaths —	in babies bo	rn from multiple	pregnancies								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	13/125 (10.4%)	14/111 (12.6%)	RR 0.79 (0.39 to 1.61)	26 fewer per 1000 (from 77 fewer to 77 more)	⊕⊕OO LOW	CRITICAL
Respira	atory distres	s syndrome	— in babies borr	n from singletor	n pregnancies							
12	randomized trials	serious⁵	serious <sup>3</sup>	no serious indirectness	no serious imprecision	none	187/1462 (12.8%)	309/1445 (21.4%)	RR 0.60 (0.51 to 0.70)	86 fewer per 1000 (from 64 fewer to 105 fewer)	⊕⊕OO LOW	CRITICAL
Respira	atory distres	s syndrome	— in babies borr	n from multiple	pregnancies							
4	randomized trials	serious⁵	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	44/167 (26.3%)	40/153 (26.1%)	RR 0.85 (0.6 to 1.2)	39 fewer per 1000 (from 105 fewer to 52 more)	⊕⊕OO LOW	CRITICAL
Cerebro	oventricular	haemorrhag	ge — in babies bo	orn from singlet	on pregnancie	s						
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	35/772 (4.5%)	71/789 (9.0%)	RR 0.49 (0.33 to 0.71)	46 fewer per 1000 (from 26 fewer to 60 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Cerebro	oventricular	haemorrhag	ge — in babies bo	orn from multip	le pregnancies	5						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	2/77 (2.6%)	4/60 (6.7%)	RR 0.39 (0.07 to 2.06)	41 fewer per 1000 (from 62 fewer to 71 more)	⊕⊕OO LOW	CRITICAL
Mean b	oirth weight (	g) — in babi	ies born from sir	gleton pregnai	ncies (better in	ndicated by high	er values)					
6	randomized trials	serious <sup>5</sup>	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	860	867	_	MD 16.61 lower (55.45 lower to 22.23 higher)	⊕⊕OO LOW	CRITICAL

			Quality asse	essment				No. of patients	Eff	ect	Quality	
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by singleton/ multiple pregnancy)	Relative (95% CI)	Absolute		Importance
Mean b	irth weight (	g) — in babi	ies born from mu	Itiple pregnan	cies (better ind	licated by highe	r values)					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	81	69	_	MD 82.36 higher (146.23 lower to 310.95 higher)	⊕⊕OO LOW	CRITICAL

Wide confidence interval crossing the line of no effect.
 Wide confidence interval crossing the line of no effect, few events and small sample size.
 Statistical heterogeneity (l<sup>2</sup> > 60%).
 Wide confidence interval crossing the line of no effect and small sample size.
 Most studies contributing data had design limitations.

#### Table 1f.Antenatal corticosteroids (ACS) versus placebo or no treatment for accelerating fetal lung maturation for women at risk of preterm birth<br/>(preterm prelabour rupture of membranes)

			Quality asses	sment				No. of patients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by intact/ruptured membranes)	Relative (95% CI)	Absolute	Quality	Importance
Matern	al death — in	women with pr	egnancies not c	omplicated by	preterm prela	bour rupture of I	nembrane	es (PPROM) at 1st dose	•			
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/110 (0.9%)	1/108 (0.9%)	RR 0.98 (0.06 to 15.50)	0 fewer per 1000 (from 9 fewer to 134 more)	⊕⊕OO LOW	CRITICAL
Matern	al death — in	women with pr	egnancies com	plicated by PPI	ROM at 1st dos	e						
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	0/58 (0.0%)	0/45 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Chorioa	amnionitis — i	n women with p	pregnancies not	complicated l	by PPROM at 1	st dose						
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	24/611 (3.9%)	30/632 (4.7%)	RR 0.83 (0.50 to 1.40)	8 fewer per 1000 (from 24 fewer to 19 more)	⊕⊕⊕O MODERATE	CRITICAL
Chorioa	amnionitis — i	n women with p	oregnancies cor	nplicated by P	PROM at 1st d	ose					,	,
7	randomized trials	serious4	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	52/480 (10.8%)	53/479 (11.1%)	RR 0.98 (0.69 to 1.40)	2 fewer per 1000 (from 34 fewer to 44 more)	⊕⊕OO LOW	CRITICAL
Chorioa	amnionitis — i	n women with p	prolonged ruptu	ire of membra	nes > 24 hours	;		·				
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	30/236 (12.7%)	27/247 (10.9%)	RR 1.16 (0.71 to 1.89)	17 more per 1000 (from 32 fewer to 97 more)	⊕⊕⊕O MODERATE	CRITICAL
Chorioa	amnionitis — i	n women with p	orolonged ruptu	ire of membra	nes > 48 hours	5						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	14/122 (11.5%)	16/114 (14.0%)	RR 0.82 (0.42 to 1.60)	25 fewer per 1000 (from 81 fewer to 84 more)	⊕⊕OO LOW	CRITICAL

			Quality asses	sment				No. of patients	Eff	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by intact/ruptured membranes)	Relative (95% CI)	Absolute	Quality	Importance
Puerpe	ral sepsis — ir	women with p	regnancies not	complicated b	y PPROM at 1s	st dose						
2	randomized trials	no serious risk of bias	serious <sup>6</sup>	no serious indirectness	very serious⁵	none	19/143 (13.3%)	18/146 (12.3%)	RR 1.10 (0.61 to 2.00)	12 more per 1000 (from 48 fewer to 123 more)	⊕OOO VERY LOW	CRITICAL
Puerpe	ral sepsis — in	women with p	regnancies con	plicated by PF	PROM at 1st do	se						
4	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	16/242 (6.6%)	14/235 (6.0%)	RR 1.11 (0.55 to 2.25)	7 more per 1000 (from 27 fewer to 74 more)	⊕⊕OO LOW	CRITICAL
Puerpe	ral sepsis — ir	women with p	rolonged ruptu	re of membrar	nes > 24 hours							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	4/74 (5.4%)	6/84 (7.1%)	RR 0.76 (0.22 to 2.58)	17 fewer per 1000 (from 56 fewer to 113 more)	⊕⊕OO LOW	CRITICAL
Fetal ar	nd neonatal de	aths — in babi	es born from pr	egnancies not	complicated b	y PPROM at 1st o	lose					
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	116/659 (17.6%)	137/673 (20.4%)	RR 0.87 (0.70 to 1.08)	26 fewer per 1000 (from 61 fewer to 16 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal ar	nd neonatal de	aths — in babi	es born from pr	egnancies com	plicated by PP	ROM at 1st dose	:	• •		•		
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	55/368 (14.9%)	88/365 (24.1%)	RR 0.62 (0.46 to 0.82)	92 fewer per 1000 (from 43 fewer to 130 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Fetal ar	nd neonatal de	aths — in babi	es born followir	g prolonged r	upture of mem	branes > 24 hou	rs					
2	randomized trials	no serious risk of bias	serious <sup>6</sup>	no serious indirectness	serious <sup>3</sup>	none	33/255 (12.9%)	41/253 (16.2%)	RR 0.77 (0.51 to 1.17)	37 fewer per 1000 (from 79 fewer to 28 more)	⊕⊕OO LOW	CRITICAL
Fetal ar	nd neonatal de	aths — in babi	es born followir	g prolonged r	upture of mem	branes > 48 hou	rs					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	27/137 (19.7%)	25/118 (21.2%)	RR 0.93 (0.57 to 1.51)	15 fewer per 1000 (from 91 fewer to 108 more)	⊕⊕OO LOW	CRITICAL
			Quality asses	sment				No. of patients	Eff	fect		
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No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by intact/ruptured membranes)	Relative (95% CI)	Absolute	Quality	Importance
Fetal de	eaths — in bab	ies born from p	pregnancies not	complicated l	by PPROM at 1	st dose						
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	45/659 (6.8%)	42/673 (6.2%)	RR 1.09 (0.73 to 1.64)	6 more per 1000 (from 17 fewer to 40 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal de	eaths — in bab	ies born from p	pregnancies cor	nplicated by P	PROM at 1st d	ose						
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	16/398 (4.0%)	19/392 (4.8%)	RR 0.86 (0.46 to 1.61)	7 fewer per 1000 (from 26 fewer to 30 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal de	eaths — in bab	ies born follow	ing prolonged ı	upture of men	nbranes > 24 h	ours						
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	17/255 (6.7%)	13/253 (5.1%)	RR 1.23 (0.62 to 2.44)	12 more per 1000 (from 20 fewer to 74 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal de	eaths — in bab	ies born follow	ing prolonged ı	upture of men	nbranes > 48 h	iours						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	14/137 (10.2%)	11/118 (9.3%)	RR 1.10 (0.52 to 2.32)	9 more per 1000 (from 45 fewer to 123 more)	⊕⊕OO LOW	CRITICAL
Neonat	al deaths — in	babies born fr	om pregnancies	s not complica	ted by PPROM	at 1st dose						
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	71/611 (11.6%)	95/625 (15.2%)	RR 0.77 (0.58 to 1.03)	35 fewer per 1000 (from 64 fewer to 5 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al deaths — in	babies born fr	om pregnancie:	s complicated	by PPROM at 1	lst dose						
8	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	54/519 (10.4%)	85/505 (16.8%)	RR 0.61 (0.46 to 0.83)	66 fewer per 1000 (from 29 fewer to 91 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al deaths — in	babies born fo	llowing prolong	ged rupture of	membranes >	24 hours						
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	16/238 (6.7%)	28/239 (11.7%)	RR 0.56 (0.31 to 1.01)	52 fewer per 1000 (from 81 fewer to 1 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality asses	sment				No. of patients	Eff	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by intact/ruptured membranes)	Relative (95% CI)	Absolute	Quality	Importance
Neonat	al deaths — in	babies born fo	llowing prolong	ged rupture of	membranes >	48 hours						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	13/123 (10.6%)	14/107 (13.1%)	RR 0.81 (0.40 to 1.64)	25 fewer per 1000 (from 79 fewer to 84 more)	⊕⊕OO LOW	CRITICAL
Respira	tory distress	syndrome — in	babies born fro	om pregnancie	s not complica	ted by PPROM a	t 1st dose					
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	125/752 (16.6%)	211/775 (27.2%)	RR 0.62 (0.51 to 0.74)	103 fewer per 1000 (from 71 fewer to 133 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Respira	tory distress	syndrome — in	babies born fro	om pregnancie	s complicated	by PPROM at 1st	dose					
12	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	126/577 (21.8%)	176/552 (31.9%)	RR 0.68 (0.57 to 0.83)	102 fewer per 1000 (from 54 fewer to 137 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Respira	tory distress	syndrome — in	babies born fol	lowing prolon	ged rupture of	membranes > 24	1 hours					
6	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	55/311 (17.7%)	82/315 (26.0%)	RR 0.68 (0.51 to 0.90)	83 fewer per 1000 (from 26 fewer to 128 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Respira	tory distress	syndrome — in	babies born fol	lowing prolon	ged rupture of	membranes > 48	8 hours					
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	13/128 (10.2%)	18/119 (15.1%)	RR 0.71 (0.36 to 1.41)	44 fewer per 1000 (from 97 fewer to 62 more)	⊕⊕OO LOW	CRITICAL
Cerebro	oventricular h	aemorrhage —	in babies born f	from pregnanc	ies not compli	cated by PPROM	at 1st dos	e				
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	36/597 (6.0%)	74/603 (12.3%)	RR 0.50 (0.35 to 0.72)	61 fewer per 1000 (from 34 fewer to 80 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Cerebro	oventricular h	aemorrhage —	in babies born f	from pregnanc	ies complicate	d by PPROM at 1	lst dose					
5	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	19/454 (4.2%)	38/441 (8.6%)	RR 0.47 (0.28 to 0.79)	46 fewer per 1000 (from 18 fewer to 62 fewer)	⊕⊕⊕O MODERATE	CRITICAL

			Quality asses	sment				No. of patients	Eff	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by intact/ruptured membranes)	Relative (95% CI)	Absolute	Quality	Importance
Cerebro	oventricular h	aemorrhage —	in babies born f	following prolo	onged rupture	of membranes >	48 hours					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	3/123 (2.4%)	3/107 (2.8%)	RR 0.87 (0.18 to 4.22)	4 fewer per 1000 (from 23 fewer to 90 more)	⊕⊕OO LOW	CRITICAL
Cerebro	oventricular h	aemorrhage —	in babies born f	following prolo	onged rupture	of membranes >	24 hours					
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	4/238 (1.7%)	7/239 (2.9%)	RR 0.55 (0.16 to 1.84)	13 fewer per 1000 (from 25 fewer to 25 more)	⊕⊕OO LOW	CRITICAL
System	ic infection in	the first 48 ho	urs of life — in l	pabies born fro	om pregnancie	s not complicate	d by PPRC	M at 1st dose				
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>8</sup>	none	13/100 (13.0%)	28/100 (28.0%)	RR 0.46 (0.26 to 0.84)	151 fewer per 1000 (from 45 fewer to 207 fewer)	⊕⊕⊕O MODERATE	CRITICAL
System	ic infection in	the first 48 ho	urs of life — in l	babies born fro	om pregnancie	s complicated by	PPROM a	it 1st dose				
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	12/148 (8.1%)	12/143 (8.4%)	RR 0.97 (0.45 to 2.06)	3 fewer per 1000 (from 46 fewer to 89 more)	⊕⊕OO LOW	CRITICAL
System	ic infection in	the first 48 ho	urs of life — in l	babies born fol	llowing prolon	ged rupture of m	embranes	> 24 hours				
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	8/75 (10.7%)	9/82 (11.0%)	RR 0.97 (0.40 to 2.39)	3 fewer per 1000 (from 66 fewer to 153 more)	⊕⊕OO LOW	CRITICAL
Proven	infection whil	e in the neonat	al intensive car	e unit (NICU)	— in babies bo	rn from pregnan	cies not co	omplicated by PPROM	at 1st dose			
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	55/520 (10.6%)	81/537 (15.1%)	RR 0.69 (0.51 to 0.95)	47 fewer per 1000 (from 8 fewer to 74 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Proven	infection whil	e in the NICU –	- in babies born	from pregnan	cies complicat	ted by PPROM at	1st dose					
7	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	51/406 (12.6%)	39/390 (10.0%)	RR 1.26 (0.86 to 1.85)	26 more per 1000 (from 14 fewer to 85 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality asses	sment				No. of patients	Eff	iect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by intact/ruptured membranes)	Relative (95% CI)	Absolute	Quality	Importance
Proven	infection whil	e in the NICU —	- in babies borr	n following pro	longed rupture	e of membranes >	> 24 hours	;				
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	31/182 (17.0%)	23/181 (12.7%)	RR 1.34 (0.82 to 2.21)	43 more per 1000 (from 23 fewer to 154 more)	⊕⊕⊕O MODERATE	CRITICAL
Proven	infection whil	e in the NICU –	- in babies borr	following pro	longed rupture	e of membranes >	> 48 hours	5				
2	randomized trials	no serious risk of bias	serious <sup>6</sup>	no serious indirectness	very serious⁵	none	24/133 (18.0%)	20/125 (16.0%)	RR 1.15 (0.68 to 1.95)	24 more per 1000 (from 51 fewer to 152 more)	⊕OOO VERY LOW	CRITICAL
Necroti	zing enteroco	litis — in babie:	s born from pre	gnancies not o	omplicated by	PPROM at 1st de	ose					
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	3/128 (2.3%)	5/129 (3.9%)	RR 0.61 (0.15 to 2.48)	15 fewer per 1000 (from 33 fewer to 57 more)	⊕⊕OO LOW	CRITICAL
Necroti	zing enteroco	litis — in babie:	s born from pre	gnancies com	plicated by PPI	ROM at 1st dose						
4	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	serious <sup>9</sup>	none	8/300 (2.7%)	20/283 (7.1%)	RR 0.39 (0.18 to 0.86)	43 fewer per 1000 (from 10 fewer to 58 fewer)	⊕⊕OO LOW	CRITICAL
Necroti	zing enteroco	litis — in babie	s born following	g prolonged ru	pture of memb	oranes > 24 hours	s					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	4/75 (5.3%)	8/82 (9.8%)	RR 0.55 (0.17 to 1.74)	44 fewer per 1000 (from 81 fewer to 72 more)	⊕⊕OO LOW	CRITICAL
Mean b	irth weight (g	) — in babies be	orn from pregn	ancies not com	plicated by PF	<b>PROM</b> at 1st dose	e (better ir	ndicated by higher valu	es)			
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	545	562	-	MD 59.09 lower (157.84 lower to 39.67 higher)	⊕⊕⊕O MODERATE	CRITICAL
Mean b	irth weight (g	) — in babies b	orn from pregn	ancies complic	ated by PPRO	M at 1st dose (be	etter indic	ated by higher values)				
5	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	420	415	-	MD 42.68 lower (108.91 lower to 23.55 higher)	⊕⊕OO LOW	CRITICAL

			Quality asses	sment				No. of patients	Ef	iect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (subgroups by intact/ruptured membranes)	Relative (95% CI)	Absolute	Quality	Importance
Mean b	irth weight (g	) — in babies b	orn following p	rolonged ruptu	ure of membra	nes > 24 hours (l	oetter indi	cated by higher values	)			
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	180	169	_	MD 196.46 lower (335.19 to 57.73 lower)	⊕⊕⊕⊕ HIGH	CRITICAL
Mean b	irth weight (g	) — in babies b	orn following p	rolonged ruptu	ure of membra	nes > 48 hours (l	better indi	cated by higher values	)			
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>8</sup>	none	137	118	_	MD 201.79 lower (363.3 to 40.28 lower)	⊕⊕⊕O MODERATE	CRITICAL
Mean d lower v		chanical ventila	ation/continuou	is positive airv	way pressure (	days) — in babie	s born fror	n pregnancies not com	plicated by PPR	OM at 1st dose	(better indica	ated by
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	14	19	_	MD 3.8 higher (20.79 lower to 28.39 higher)	⊕⊕OO LOW	CRITICAL
Mean d values)		chanical ventila	ation/continuo	is positive airv	way pressure (	days) — in babie	s born fror	n pregnancies complic	ated by PPRON	at 1st dose (bet	ter indicated	by lower
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>8</sup>	none	87	78	-	MD 3.5 lower (5.12 to 1.88 lower)	⊕⊕⊕O MODERATE	CRITICAL
Chronic	lung disease	— in babies bo	rn from pregna	ncies not comp	olicated by PPR	OM at 1st dose		1				
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	16/218 (7.3%)	15/216 (6.9%)	RR 1.16 (0.61 to 2.24)	11 more per 1000 (from 27 fewer to 86 more)	⊕⊕⊕O MODERATE	CRITICAL
Chronie	: lung disease	— in babies bo	rn from pregna	ncies complica	ted by PPROM	at 1st dose						
1	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	serious <sup>8</sup>	none	23/87 (26.4%)	41/78 (52.6%)	RR 0.50 (0.33 to 0.76)	263 fewer per 1000 (from 126 fewer to 352 fewer)	⊕⊕OO LOW	CRITICAL

1 Wide confidence interval crossing the line of no effect, few events and small sample size.

2 No events.

3 Wide confidence interval crossing the line of no effect.

4 Most studies contributing data had design limitations.5 Wide confidence interval crossing the line of no effect and small sample size.

6 Statistical heterogeneity ( $l^2 > 60\%$ ).

7 Wide confidence interval crossing the line of no effect and few events.

8 Estimate based on small sample size.

9 Few events.

## Table 1g: Antenatal corticosteroids (ACS) versus placebo or no treatment for accelerating fetal lung maturation for women at risk of preterm birth (women with chorioamnionitis)

Source: Amiya RM, Mlunde LB, Ota E, Mori R, Oladapo OT. Antenatal corticosteroid therapy for reducing adverse maternal and child outcomes in special populations of women at risk of imminent preterm birth: a systematic review. Plos One. 2015 (review in progress).

			Quality assess	sment			No. of	patients	Eff	fect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	No ACS	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Neonat	al death — histo	ological chorio	amnionitis (HC)	and/or clinica	chorioamnioni	tis (CC)						
7	observational studies	serious <sup>1</sup>	not serious	not serious	serious <sup>2</sup>	not serious	81/787 (10.3%)	104/616 (16.9%)	OR 0.54 (0.38 to 0.76)	70 fewer per 1000 (from 35 fewer to 97 fewer)	⊕OOO VERY LOW	CRITICAL
Neonat	al death — HC o	nly										
6	observational studies	serious <sup>1</sup>	not serious	not serious	serious <sup>2</sup>	not serious	64/638 (10.0%)	89/518 (17.2%)	OR 0.49 (0.34 to 0.73)	80 fewer per 1000 (from 40 fewer to 106 fewer)	⊕OOO VERY LOW	CRITICAL
Neonat	al death — CC o	nly										
3	observational studies	serious <sup>1</sup>	not serious	not serious	very serious <sup>3</sup>	not serious	17/149 (11.4%)	15/98 (15.3%)	OR 0.77 (0.36 to 1.65)	31 fewer per 1000 (from 77 more to 92 fewer)	⊕OOO VERY LOW	CRITICAL
Respira	ntory distress sy	ndrome — HC	and/or CC					-	-			
7	observational studies	serious <sup>1</sup>	not serious	not serious	serious <sup>2</sup>	not serious	378/789 (47.9%)	384/712 (53.9%)	OR 0.62 (0.49 to 0.78)	119 fewer per 1000 (from 62 fewer to 175 fewer)	⊕OOO VERY LOW	CRITICAL
Respira	ntory distress sy	ndrome — HC	only									
5	observational studies	serious <sup>1</sup>	not serious	not serious	serious <sup>2</sup>	not serious	279/580 (48.1%)	285/504 (56.5%)	OR 0.58 (0.44 to 0.76)	135 fewer per 1000 (from 68 fewer to 201 fewer)	⊕OOO VERY LOW	CRITICAL
Respira	ntory distress sy	ndrome — CC	only									
4	observational studies	not serious	not serious	not serious	serious <sup>2</sup>	not serious	99/209 (47.4%)	99/208 (47.6%)	OR 0.73 (0.48 to 1.12)	77 fewer per 1000 (from 28 more to 172 fewer)	⊕OOO VERY LOW	CRITICAL

			Quality assess	sment			No. of	patients	Eff	fect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	No ACS	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Surfact	ant use (HC onl	y)										
3	observational studies	serious <sup>1</sup>	not serious	not serious	serious <sup>2</sup>	not serious	187/316 (59.2%)	244/404 (60.4%)	OR 0.93 (0.67 to 1.30)	17 fewer per 1000 (from 61 more to 99 fewer)	⊕OOO VERY LOW	CRITICAL
Intrave	ntricular haemo	orrhage — HC a	nd/or CC									
6	observational studies	not serious	not serious	not serious	serious <sup>2</sup>	strong association	66/626 (10.5%)	52/313 (16.6%)	OR 0.39 (0.25 to 0.61)	94 fewer per 1000 (from 58 fewer to 119 fewer)	⊕⊕OO LOW	CRITICAL
Intrave	ntricular haemo	orrhage — HC o	only									
5	observational studies	not serious	not serious	not serious	serious <sup>2</sup>	strong association	53/463 (11.4%)	32/158 (20.3%)	OR 0.41 (0.24 to 0.69)	108 fewer per 1000 (from 53 fewer to 145 fewer)	⊕⊕OO LOW	CRITICAL
Intrave	ntricular haemo	orrhage — CC o	nly									
3	observational studies	not serious	not serious	not serious	serious <sup>2</sup>	strong association	13/163 (8.0%)	20/155 (12.9%)	OR 0.36 (0.16 to 0.82)	78 fewer per 1000 (from 21 fewer to 106 fewer)	⊕⊕OO LOW	CRITICAL
Severe	intraventricula	r haemorrhage	- HC and/or C	с								
5	observational studies	not serious	not serious	not serious	serious <sup>2</sup>	strong association	33/538 (6.1%)	30/271 (11.1%)	OR 0.36 (0.20 to 0.65)	68 fewer per 1000 (from 36 fewer to 86 fewer)	⊕⊕OO LOW	CRITICAL
Severe	intraventricula	r haemorrhage	- HC only		•							
4	observational studies	not serious	not serious	not serious	serious <sup>2</sup>	strong association	28/375 (7.5%)	16/116 (13.8%)	OR 0.40 (0.20 to 0.79)	78 fewer per 1000 (from 26 fewer to 107 fewer)	⊕⊕OO LOW	CRITICAL
Severe	intraventricula	r haemorrhage	— CC only		·							
3	observational studies	not serious	not serious	not serious	very serious <sup>3</sup>	strong association	5/163 (3.1%)	14/155 (9.0%)	OR 0.29 (0.10 to 0.89)	62 fewer per 1000 (from 9 fewer to 80 fewer)	⊕OOO VERY LOW	CRITICAL

			Quality assess	sment			No. of	patients	Eff	fect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	No ACS	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Periven	tricular leukom	alacia — HC ar	nd/or CC									
4	observational studies	not serious	not serious	not serious	serious <sup>2</sup>	strong association	21/480 (4.4%)	30/257 (11.7%)	OR 0.47 (0.24 to 0.90)	58 fewer per 1000 (from 10 fewer to 86 fewer)	⊕OOO VERY LOW	CRITICAL
Periven	tricular leukom	alacia — HC or	lly									
3	observational studies	not serious	not serious	not serious	very serious <sup>3</sup>	not serious	13/317 (4.1%)	6/102 (5.9%)	OR 0.74 (0.26 to 2.09)	15 fewer per 1000 (from 43 fewer to 57 more)	⊕OOO VERY LOW	CRITICAL
Periven	tricular leukom	alacia — CC on	lly									
3	observational studies	not serious	not serious	not serious	serious <sup>2</sup>	strong association	8/163 (4.9%)	24/155 (15.5%)	OR 0.35 (0.14 to 0.85)	95 fewer per 1000 (from 20 fewer to 130 fewer)	⊕OOO VERY LOW	CRITICAL
Neonat	al sepsis — HC	and/or CC										
5	observational studies	not serious	not serious	not serious	serious <sup>2</sup>	not serious	113/684 (16.5%)	92/550 (16.7%)	OR 1.02 (0.73 to 1.42)	3 more per 1000 (from 39 fewer to 55 more)	⊕OOO VERY LOW	CRITICAL
Neonat	al sepsis — HC	only			1	1	1	]	<u> </u>	1	1	1
5	observational studies	not serious	not serious	not serious	serious <sup>2</sup>	not serious	87/580 (15.0%)	80/504 (15.9%)	OR 1.03 (0.72 to 1.48)	4 more per 1000 (from 39 fewer to 60 more)	⊕OOO VERY LOW	CRITICAL
Neonat	al sepsis — CC o	only										
2	observational studies	not serious	not serious	not serious	very serious <sup>3</sup>	not serious	26/104 (25.0%)	12/46 (26.1%)	OR 0.94 (0.40 to 2.18)	12 fewer per 1000 (from 137 fewer to 174 more)	⊕OOO VERY LOW	CRITICAL
Necroti	zing enterocoli	tis — HC and/o	or CC									
5	observational studies	serious <sup>1</sup>	not serious	not serious	serious <sup>2</sup>	not serious	76/684 (11.1%)	33/550 (6.0%)	OR 1.49 (0.91 to 2.53)	27 more per 1000 (from 5 fewer to 79 more)	⊕OOO VERY LOW	CRITICAL

			Quality assess	sment			No. of	patients	Eff	ect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	No ACS	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Necroti	zing enterocoli	tis — HC only										
5	observational studies	serious <sup>1</sup>	not serious	not serious	serious <sup>2</sup>	not serious	60/580 (10.3%)	30/504 (5.9%)	OR 1.33 (0.78 to 2.26)	18 more per 1000 (from 12 fewer to 66 more)	⊕OOO VERY LOW	CRITICAL
Necroti	zing enterocoli	tis — CC only										
2	observational studies	serious <sup>1</sup>	not serious	not serious	very serious <sup>3</sup>	not serious	16/104 (15.4%)	3/46 (6.5%)	OR 2.63 (0.72 to 9.68)	90 more per 1000 (from 17 fewer to 338 more)	⊕OOO VERY LOW	CRITICAL
Duratio	on of mechanica	l ventilation, da	ays — HC only									
1	observational studies	not serious	not serious	not serious	very serious <sup>3</sup>	not serious	52	36	—	MD 2 lower (4.23 lower to 0.23 higher)	⊕OOO VERY LOW	CRITICAL
Use of I	nechanical vent	tilation — HC a	nd/or CC									
1	observational studies	not serious	not serious	not serious	very serious <sup>3</sup>	strong association	115/153 (75.2%)	58/61 (95.1%)	OR 0.18 (0.06 to 0.57)	174 fewer per 1000 (from 34 fewer to 414 fewer)	⊕OOO VERY LOW	CRITICAL
Use of I	nechanical vent	tilation — HC o	nly					-			,	
1	observational studies	not serious	not serious	not serious	very serious <sup>3</sup>	not serious	66/89 (74.2%)	29/32 (90.6%)	OR 0.30 (0.08 to 1.07)	163 fewer per 1000 (from 6 more to 470 fewer)	⊕OOO VERY LOW	CRITICAL
Use of I	nechanical vent	tilation — CC o	nly									
1	observational studies	not serious	not serious	not serious	serious <sup>4</sup>	not serious	49/64 (76.6%)	29/29 (100%)	OR 0.05 (0.00 to 0.94)	0 fewer per 1000 (from 0 fewer to 0 fewer)	⊕OOO VERY LOW	CRITICAL
Chronic	: lung disease/b	oronchopulmor	nary dysplasia -	- HC and/or CC								
4	observational studies	not serious	not serious	not serious	serious <sup>2</sup>	not serious	80/465 (17.2%)	42/194 (21.6%)	OR 0.74 (0.48 to 1.15)	47 fewer per 1000 (from 25 more to 99 fewer)	⊕OOO VERY LOW	CRITICAL

			Quality assess	sment			No. of	patients	Eff	ect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	No ACS	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Chronic	lung disease/b	pronchopulmon	ary dysplasia -	- HC only								
3	observational studies	not serious	not serious	not serious	serious <sup>2</sup>	not serious	55/323 (17.0%)	26/104 (25.0%)	OR 0.66 (0.38 to 1.14)	83 fewer per 1000 (from 25 more to 138 fewer)	⊕OOO VERY LOW	CRITICAL
Chronic	: lung disease/ł	oronchopulmon	ary dysplasia -	- CC only								
3	observational studies	serious <sup>1</sup>	not serious	not serious	very serious <sup>3</sup>	not serious	25/142 (17.6%)	16/90 (17.8%)	OR 0.91 (0.44 to 1.86)	13 fewer per 1000 (from 91 fewer to 109 more)	⊕OOO VERY LOW	CRITICAL
Cerebra	al palsy (at 1 and	d 3 years follow	-up) — HC only	,								
1	observational studies	serious <sup>1</sup>	not serious	not serious	very serious <sup>3</sup>	not serious	5/58 (8.6%)	3/14 (21.4%)	OR 0.35 (0.07 to 1.67)	127 fewer per 1000 (from 99 more to 196 fewer)	⊕OOO VERY LOW	CRITICAL
Genera	l development o	quotient at 1 ye	ars follow-up —	HC only			1					
1	observational studies	serious <sup>1</sup>	not serious	not serious	very serious <sup>3</sup>	not serious	58	14	_	MD 6 higher (9.94 lower to 20.94 higher)	⊕OOO VERY LOW	CRITICAL
Genera	l development d	quotient at 3 ye	ars follow-up -	-HC only								
1	observational studies	serious <sup>1</sup>	not serious	not serious	very serious <sup>3</sup>	not serious	58	14	—	MD 13 higher (3.75 lower to 29.75 higher)	⊕OOO VERY LOW	CRITICAL

HC: histological chorioamnionitis; CC: clinical chorioamnionitis.
Evidence heavily based on studies with design limitations including lack of adjustment for potential confounding factors.
Estimate based on wide confidence interval crossing the line of no effect.
Estimate based on small sample size; wide confidence interval crossing the line of no effect.
Estimate based on small sample size.

## Table 1h. Antenatal corticosteroids (ACS) versus placebo or no treatment for accelerating fetal lung maturation for women undergoing elective caesarean section at late preterm (34–36<sup>+6</sup> weeks)

Source: Sotiriadis A, Makrydimas G, Papatheodorou S, Ioannidis JP. Corticosteroids for preventing neonatal respiratory morbidity after elective caesarean section at term. Cochrane Database Syst Rev. 2009;(4):CD006614.

			Quality assess	ment			No. of	patients	Ef	fect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	No ACS	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Perinat	al death											
1	randomized trials	not serious	not serious	very serious <sup>1</sup>	very serious <sup>2</sup>	not serious	0/467 (0.0%)	0/475 (0.0%)	not estimable	0 fewer per 1000 (from 0 fewer to 0 fewer)	⊕OOO VERY LOW	CRITICAL
Neonat	al sepsis											
1	randomized trials	not serious	not serious	very serious <sup>1</sup>	very serious <sup>2</sup>	not serious	0/467 (0.0%)	0/475 (0.0%)	not estimable	0 fewer per 1000 (from 0 fewer to 0 fewer)	⊕OOO VERY LOW	CRITICAL
						Respiratory distre	ess syndrome					
1	randomized trials	not serious	not serious	very serious <sup>1</sup>	very serious <sup>3</sup>	not serious	1/467 (0.2%)	5/471 (1.1%)	RR 0.32 (0.07 to 1.58)	7 fewer per 1000 (from 6 more to 10 fewer)	⊕OOO VERY LOW	CRITICAL
Tachyp	noea of the neo	onate								·		
1	randomized trials	not serious	not serious	very serious <sup>1</sup>	very serious <sup>3</sup>	not serious	10/467 (2.1%)	19/475 (4.0%)	RR 0.52 (0.25 to 1.11)	19 fewer per 1000 (from 4 more to 30 fewer)	⊕OOO VERY LOW	CRITICAL
Length	of stay in neon	atal intensive	e care unit (NICU	J)								
1	randomized trials	serious <sup>4</sup>	not serious	very serious <sup>1</sup>	very serious⁵	not serious	2	14	_	MD 2.14 lower (5.58 lower to 1.3 higher)	⊕OOO VERY LOW	CRITICAL
Admiss	ion to NICU fo	r respiratory	complications		·			·		·	·	
1	randomized trials	serious <sup>4</sup>	not serious	very serious <sup>1</sup>	serious <sup>6</sup>	strong association	2/467 (0.4%)	14/475 (2.9%)	RR 0.15 (0.03 to 0.64)	25 fewer per 1000 (from 11 fewer to 29 fewer)	⊕OOO VERY LOW	IMPORTANT

			Quality assess	ment			No. of p	oatients	Eff	ect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	No ACS	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Admiss	on to neonata	l special care	(all levels) for r	espiratory con	plications							
1	randomized trials	serious <sup>4</sup>	not serious	very serious <sup>1</sup>	not serious	strong association	11/467 (2.4%)	24/475 (5.1%)	RR 0.45 (0.22 to 0.90)	28 fewer per 1000 (from 5 fewer to 39 fewer)	⊕OOO VERY LOW	IMPORTANT
Admissi	on to neonata	l special care	(all levels) for a	ny indication								
1	randomized trials	serious <sup>4</sup>	not serious	very serious <sup>1</sup>	serious <sup>7</sup>	not serious	26/467 (5.6%)	32/475 (6.7%)	RR 0.81 (0.49 to 1.33)	13 fewer per 1000 (from 22 more to 34 fewer)	⊕OOO VERY LOW	IMPORTANT
Use of n	nechanical ver	ntilation										
1	randomized trials	serious <sup>4</sup>	not serious	very serious <sup>1</sup>	very serious <sup>3</sup>	not serious	4/467 (0.9%)	1/475 (0.2%)	RR 4.07 (0.46 to 36.27)	6 more per 1000 (from 1 fewer to 74 more)	⊕OOO VERY LOW	CRITICAL
Lower q	uarter of acad	emic ability a	t childhood follo	w-up								
1	randomized trials	serious <sup>8</sup>	not serious	very serious <sup>1</sup>	not serious	strong association	33/186 (17.7%)	14/164 (8.5%)	RR 2.08 (1.15 to 3.74)	92 more per 1000 (from 13 more to 234 more)	⊕OOO VERY LOW	CRITICAL
Reporte	d learning diff	ficulty at child	lhood follow-up									
1	randomized trials	serious <sup>8</sup>	not serious	very serious <sup>1</sup>	not serious	not serious	25/217 (11.5%)	27/190 (14.2%)	RR 0.81 (0.49 to 1.35)	27 fewer per 1000 (from 50 more to 72 fewer)	⊕OOO VERY LOW	CRITICAL

1 Evidence was derived from a population that does not correspond to the population of interest (i.e. women undergoing elective caesarean section at term rather than in late preterm).

2 No events reported for outcome.

3 Wide confidence interval crossing the line of no effect and few events.

4 For this outcome, the study was at moderate risk of bias due to non-blinded design, with the potential for performance and detection bias.
5 Wide confidence interval crossing line of no effect and small sample size.

6 Few events.

7 Wide confidence interval crossing the line of no effect.

8 Study at risk of attrition bias.

## Table 1i.Antenatal corticosteroids (ACS) versus placebo or no treatment for accelerating fetal lung maturation for women at risk of preterm birth<br/>(women with hypertension in pregnancy)

Source: Roberts D, Dalziel SR. Antenatal corticosteroids for accelerating fetal lung maturation for women at risk of preterm birth. Cochrane Database Syst Rev. 2006;(3):CD004454. (updated for this guideline)

			Quality assess	ment			N	o. of patients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (women with hypertension)	Relative (95% CI)	Absolute	Quality	Importance
Matern	al death — in w	omen with prea	gnancies compl	icated by hype	rtension synd	romes						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/110 (0.9%)	1/108 (0.9%)	RR 0.98 (0.06 to 15.50)	0 fewer per 1000 (from 9 fewer to 134 more)	⊕⊕OO LOW	CRITICAL
Chorioa	mnionitis — in	women with pr	egnancies com	plicated by hyp	ertension syn	dromes						
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	3/155 (1.9%)	1/156 (0.6%)	RR 2.36 (0.36 to 15.73)	9 more per 1000 (from 4 fewer to 94 more)	⊕⊕OO LOW	CRITICAL
Puerpe	ral sepsis — in	women with pro	egnancies comp	licated by hyp	ertension syn	dromes						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	9/110 (8.2%)	13/108 (12.0%)	RR 0.68 (0.30 to 1.52)	39 fewer per 1000 (from 84 fewer to 63 more)	⊕⊕OO LOW	CRITICAL
Admiss	ion into adult i	ntensive care u	nit — in women	with pregnanc	ies complicate	ed by hypertensi	on syndroi	nes				
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	6/110 (5.5%)	8/108 (7.4%)	RR 0.74 (0.26 to 2.05)	19 fewer per 1000 (from 55 fewer to 78 more)	⊕⊕OO LOW	CRITICAL
Fetal an	id neonatal dea	aths — in babies	born from pre	gnancies comp	licated by hyp	ertension syndro	omes					
2	randomized trials	no serious risk of bias	serious <sup>3</sup>	no serious indirectness	serious <sup>4</sup>	none	38/156 (24.4%)	46/157 (29.3%)	RR 0.83 (0.57 to 1.20)	50 fewer per 1000 (from 126 fewer to 59 more)	⊕⊕OO LOW	CRITICAL
Fetal de	aths — in babi	es born from pr	egnancies com	plicated by hyp	ertension syn	dromes						
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>4</sup>	none	22/168 (13.1%)	13/163 (8.0%)	RR 1.73 (0.91 to 3.28)	58 more per 1000 (from 7 fewer to 182 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality assess	ment			N	o. of patients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (women with hypertension)	Relative (95% CI)	Absolute	Quality	Importance
Neonat	al deaths — in	babies born fro	m pregnancies o	complicated by	hypertension	syndromes						
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious⁵	none	16/134 (11.9%)	33/144 (22.9%)	RR 0.50 (0.29 to 0.87)	115 fewer per 1000 (from 30 fewer to 163 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Respira	tory distress s	yndrome — in b	abies born fron	n pregnancies o	complicated by	y hypertension s	yndromes					
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	33/191 (17.3%)	68/191 (35.6%)	RR 0.50 (0.35 to 0.72)	178 fewer per 1000 (from 100 fewer to 231 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Cerebro	oventricular ha	emorrhage — ir	babies born fr	om pregnancie	s complicated	by hypertension	n syndrom	es				
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>6</sup>	none	7/134 (5.2%)	19/144 (13.2%)	RR 0.38 (0.17 to 0.87)	82 fewer per 1000 (from 17 fewer to 110 fewer)	⊕⊕⊕O MODERATE	CRITICAL
System	ic infection in t	he first 48 hou	rs of life — in ba	bies born from	n pregnancies	complicated by h	nypertensi	on syndromes				
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious⁵	none	13/100 (13.0%)	28/100 (28.0%)	RR 0.46 (0.26 to 0.84)	151 fewer per 1000 (from 45 fewer to 207 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Proven	infection while	in the neonatal	intensive care	unit — in babie	es born from p	regnancies comp	olicated by	hypertension syndr	omes			
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious⁵	none	21/134 (15.7%)	40/144 (27.8%)	RR 0.55 (0.34 to 0.87)	125 fewer per 1000 (from 36 fewer to 183 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Necroti	zing enterocoli	itis — in babies	born from preg	nancies compli	icated by hype	rtension syndro	mes					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	2/100 (2.0%)	4/100 (4.0%)	RR 0.50 (0.09 to 2.67)	20 fewer per 1000 (from 36 fewer to 67 more)	⊕⊕OO LOW	CRITICAL
Mean b	irth weight (g)	— in babies bo	rn from pregnai	ncies complicat	ted by hyperte	ension syndrome	s (better i	ndicated by higher v	alues)			
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	46	49	_	MD 131.72 lower (319.68 lower to 56.24 higher)	⊕⊕OO LOW	CRITICAL

			Quality assess	ment			N	o. of patients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	Placebo or no treatment (women with hypertension)	Relative (95% CI)	Absolute	Quality	Importance
Chronic	lung disease –	- in babies borr	from pregnand	ies complicate								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/100 (1.0%)	5/100 (5.0%)	RR 0.20 (0.02 to 1.68)	40 fewer per 1000 (from 49 fewer to 34 more)	⊕⊕OO LOW	CRITICAL

Wide confidence interval crossing the line of no effect, few events and small sample size.
 Wide confidence interval crossing the line of no effect and few events.
 Statistical Heterogeneity (l<sup>2</sup> > 60%).
 Wide confidence interval crossing the line of no effect.

5 Estimate based on small sample size.6 Estimate based on small sample size and few events.

7 Wide confidence interval crossing the line of no effect and small sample size.

## Table 1j. Antenatal corticosteroids (ACS) versus placebo or no treatment for accelerating fetal lung maturation for women at risk of preterm birth (women with growth-restricted fetuses)

Source: Amiya RM, Mlunde LB, Ota E, Mori R, Oladapo OT. Antenatal corticosteroid therapy for reducing adverse maternal and child outcomes in special populations of women at risk of imminent preterm birth: a systematic review and meta-analysis. 2014 (unpublished).

			Quality asses	sment			No. of J	patients	E	ffect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	No ACS	Relative (95% Cl)	Absolute (95% CI)	Quality	Importance
Mode o	f delivery — cae	esarean section	(small for gest	ational age or S	SGA)							
1	observational studies	not serious	not serious	not serious	very serious <sup>1</sup>	not serious	139/146 (95.2%)	19/19 (100.0%)	OR 0.48 (0.03 to 8.68)	O fewer per 1000 (from O fewer to O fewer)	⊕OOO VERY LOW	IMPORTANT
Chorioa	amnionitis — his	stological and/	or clinical (SGA	)								
1	observational studies	serious <sup>2</sup>	not serious	not serious	very serious <sup>1</sup>	not serious	11/63 (17.5%)	34/157 (21.7%)	OR 0.77 (0.36 to 1.63)	41 fewer per 1000 (from 94 more to 126 fewer)	⊕OOO VERY LOW	CRITICAL
Perinat	al death — feta	l death or neon	atal death (intr	auterine growt	h-restricted or	IUGR)						
4	observational studies	not serious	not serious	not serious	serious <sup>3</sup>	not serious	41/324 (12.7%)	33/179 (18.4%)	OR 0.81 (0.58 to 1.04)	30 fewer per 1000 (from 6 more to 68 fewer)	⊕OOO VERY LOW	CRITICAL
Perinat	al death — feta	l death or neon	atal death (SGA	)					·			
6	observational studies	not serious	not serious	not serious	serious <sup>3</sup>	not serious	4	4	OR 0.78 (0.58 to 1.04)	1 fewer per 1000 (from 0 fewer to 0 fewer)	⊕OOO VERY LOW	CRITICAL
Respira	tory distress sy	ndrome (IUGR	2)									
4	observational studies	serious <sup>2</sup>	not serious	not serious	serious <sup>3</sup>	not serious	142/324 (43.8%)	88/179 (49.2%)	OR 0.81 (0.59 to 1.11)	52 fewer per 1000 (from 26 more to 128 fewer)	⊕OOO VERY LOW	CRITICAL
Respira	tory distress sy	(Ndrome (SGA)										
8	observational studies	serious <sup>2</sup>	not serious	not serious	serious <sup>3</sup>	not serious	4	4	OR 0.83 (0.66 to 1.05)	1 fewer per 1000 (from 0 fewer to 0 fewer)	⊕OOO VERY LOW	CRITICAL

			Quality assess	sment			No. of p	oatients	E	ffect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	No ACS	Relative (95% Cl)	Absolute (95% CI)	Quality	Importance
Surfact	ant use (IUGR)											
1	observational studies	serious <sup>2</sup>	not serious	not serious	very serious <sup>1</sup>	not serious	19/53 (35.8%)	13/34 (38.2%)	OR 0.90 (0.37 to 2.20)	25 fewer per 1000 (from 121 more to 132 fewer)	⊕OOO VERY LOW	CRITICAL
Surfact	ant use (SGA)											
3	observational studies	serious <sup>2</sup>	not serious	not serious	serious <sup>3</sup>	not serious	81/262 (30.9%)	47/210 (22.4%)	OR 1.39 (0.85 to 2.28)	44 more per 1000 (from 27 fewer to 173 more)	⊕OOO VERY LOW	CRITICAL
Major b	orain lesion — in	traventricular	haemorrhage (I	VH), intracrani	al haemorrhag	e (ICH), periventi	ricular haem	orrhage (PVH	l) or periventrie	ular leukomalaci	a (PVL) (IUG	R)
2	observational studies	not serious	not serious	not serious	very serious <sup>1</sup>	not serious	12/116 (10.3%)	10/96 (10.4%)	OR 0.86 (0.35 to 2.10)	13 fewer per 1000 (from 65 fewer to 92 more)	⊕OOO VERY LOW	CRITICAL
Major b	orain lesion (IVH	I, ICH, PVH or	PVL) (SGA)							,		
5	observational studies	not serious	not serious	not serious	serious <sup>3</sup>	serious⁵	4	4	OR 0.57 (0.41 to 0.78)	1 fewer per 1000 (from 0 fewer to 0 fewer)	⊕OOO VERY LOW	CRITICAL
Neonat	al sepsis (IUGR	)										
2	observational studies	serious <sup>2</sup>	not serious	not serious	very serious <sup>1</sup>	not serious	45/115 (39.1%)	36/96 (37.5%)	OR 0.83 (0.44 to 1.58)	43 fewer per 1000 (from 112 more to 166 fewer)	⊕OOO VERY LOW	CRITICAL
Neonat	al sepsis (SGA)											
3	observational studies	serious <sup>2</sup>	not serious	not serious	serious <sup>3</sup>	not serious	51/178 (28.7%)	45/253 (17.8%)	OR 1.00 (0.58 to 1.73)	0 fewer per 1000 (from 66 fewer to 94 more)	⊕OOO VERY LOW	CRITICAL
Necroti	izing enterocolit	tis (IUGR)										
1	observational studies	serious <sup>2</sup>	not serious	not serious	very serious <sup>1</sup>	not serious	3/53 (5.7%)	2/34 (5.9%)	OR 0.96 (0.15 to 6.07)	2 fewer per 1000 (from 50 fewer to 216 more)	⊕OOO VERY LOW	CRITICAL

			Quality asses	sment			No. of p	patients	E	ffect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	No ACS	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Necroti	zing enterocolit	tis (SGA)										
3	observational studies	serious <sup>2</sup>	not serious	not serious	very serious <sup>1</sup>	not serious	4/116 (3.4%)	5/191 (2.6%)	OR 0.90 (0.22 to 3.76)	3 fewer per 1000 (from 20 fewer to 66 more)	⊕OOO VERY LOW	CRITICAL
Chronic	lung disease/b	oronchopulmon	ary dysplasia (l	UGR)								
3	observational studies	serious <sup>2</sup>	not serious	not serious	serious <sup>3</sup>	not serious	47/211 (22.3%)	44/151 (29.1%)	OR 0.69 (0.43 to 1.13)	70 fewer per 1000 (from 14 more to 138 fewer)	⊕OOO VERY LOW	CRITICAL
Chronic	lung disease/b	oronchopulmon	ary dysplasia (S	SGA)								
4	observational studies	serious <sup>2</sup>	not serious	not serious	serious <sup>3</sup>	not serious	81/357 (22.7%)	50/170 (29.4%)	OR 0.69 (0.44 to 1.07)	71 fewer per 1000 (from 14 more to 139 fewer)	⊕OOO VERY LOW	CRITICAL
Patent	ductus arterios	us (IUGR)										
1	observational studies	serious <sup>2</sup>	not serious	not serious	very serious <sup>1</sup>	not serious	10/53 (18.9%)	6/34 (17.6%)	OR 1.09 (0.35 to 3.32)	13 more per 1000 (from 27 fewer to 255 more)	⊕OOO VERY LOW	CRITICAL
Patent	ductus arterios	us (SGA)										
2	observational studies	serious <sup>2</sup>	not serious	not serious	serious <sup>3</sup>	not serious	19/116 (16.4%)	16/191 (8.4%)	OR 1.70 (0.82 to 3.54)	51 more per 1000 (from 14 fewer to 161 more)	⊕OOO VERY LOW	CRITICAL
Low bir	th weight < 3rd	percentile for g	gestational age	(SGA)								
1	observational studies	not serious	not serious	not serious	very serious <sup>1</sup>	not serious	63/146 (43.2%)	12/19 (63.2%)	OR 0.44 (0.16 to 1.19)	202 fewer per 1000 (from 39 more to 416 fewer)	⊕OOO VERY LOW	CRITICAL
Duratio	on of mechanica	l ventilation, da	ays (IUGR)									
2	observational studies	not serious	not serious	not serious	very serious <sup>1</sup>	not serious	115	96	_	MD 1.09 higher (from 0.86 lower to 3.05 higher)	⊕OOO VERY LOW	CRITICAL

			Quality asses	sment			No. of p	oatients	Ef	fect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	ACS	No ACS	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Use of r	nechanical vent	ilation (IUGR)										
2	observational studies	not serious	not serious	not serious	very serious <sup>1</sup>	not serious	61/115 (53.0%)	45/96 (46.9%)	OR 1.24 (0.72 to 2.14)	54 more per 1000 (from 80 fewer to 185 more)	⊕OOO VERY LOW	CRITICAL
Use of r	nechanical vent	ilation (SGA)										
3	observational studies	not serious	not serious	not serious	serious <sup>3</sup>	not serious	127/261 (48.7%)	56/115 (48.7%)	OR 1.04 (0.65 to 1.66)	10 more per 1000 (from 105 fewer to 125 more)	⊕OOO VERY LOW	CRITICAL
Surviva	l without handi	cap at 2 years o	corrected age (I	UGR)								
1	observational studies	not serious	not serious	not serious	serious <sup>6</sup>	not serious	51/62 (82.3%)	40/62 (64.5%)	OR 2.55 (1.11 to 5.87)	177 more per 1000 (from 24 more to 269 more)	⊕OOO VERY LOW	CRITICAL
Growth	<10th percenti	le in early child	dhood (follow uj	o to school age)	(IUGR)							
1	observational studies	not serious	not serious	not serious	very serious <sup>6</sup>	strong association	14/49 (28.6%)	3/42 (7.1%)	OR 5.20 (1.38 to 19.62)	214 more per 1000 (from 25 more to 530 more)	⊕OOO VERY LOW	CRITICAL

1 Wide confidence interval crossing the line of no effect and small sample size.

2 Evidence based heavily or entirely on studies with design limitations including lack of adjustment for potential confounding factors.3 Wide confidence interval crossing the line of no effect.

4 Raw data unavailable for one of the included studies (only ORs and 95% CIs reported); generic inverse variance method used for meta-analysis.
5 Funnel plot suggests the presence of some degree of publication bias.

6 Wide confidence interval crossing the line of no effect, small sample size, and few events.

## Table 1k. Different corticosteroids and regimens for accelerating fetal lung maturation for women at risk of preterm birth (any regimen of dexamethasone and betamethasone)

Source: Brownfoot FC, Gagliardi DI, Bain E, Middleton P, Crowther CA. Different corticosteroids and regimens for accelerating fetal lung maturation for women at risk of preterm birth. Cochrane Database Syst Rev. 2013;(8):CD006764.

			Quality asses	sment			No. of p	atients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Dexamethasone (any regimen)	Betamethasone (any regimen)	Relative (95% CI)	Absolute	Quality	Importance
Interva	l between ad	mission and bi	rth (days) (bett	er indicated by	higher values	;)						
1	randomized trials	serious <sup>1</sup>	serious <sup>2</sup>	no serious indirectness	very serious <sup>3</sup>	none	120	120	—	MD 3.48 higher (3.38 lower to 10.34 higher)	⊕OOO VERY LOW	CRITICAL
Interva	l between ad	mission and bi	rth (days) — de	xamethasone	vs betamethas	one; ruptured m	embranes (bette	r indicated by hig	her values)			
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	serious <sup>4</sup>	none	60	60	_	MD 0 higher (0.99 lower to 0.99 higher)	⊕⊕OO LOW	CRITICAL
Interva	l between ad	mission and bi	rth (days) — de	xamethasone	vs betamethas	one (intact men	nbranes) (better i	ndicated by highe	er values)			
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	serious <sup>4</sup>	none	60	60	_	MD 7 higher (5.56 to 8.44 higher)	⊕⊕OO LOW	CRITICAL
Neonat	al death	·		·								
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious⁵	none	8/278 (2.9%)	6/318 (1.9%)	RR 1.41 (0.54 to 3.67)	8 more per 1000 (from 9 fewer to 50 more)	⊕⊕⊕O MODERATE	CRITICAL
Respira	atory distress	syndrome										
5	randomized trials	serious <sup>6</sup>	no serious inconsistency	no serious indirectness	serious⁵	none	122/354 (34.5%)	121/399 (30.3%)	RR 1.06 (0.88 to 1.27)	18 more per 1000 (from 36 fewer to 82 more)	⊕⊕OO LOW	CRITICAL
Severe	intraventricu	lar haemorrha	ige									
4	randomized trials	serious6	no serious inconsistency	no serious indirectness	serious <sup>7</sup>	none	4/257 (1.6%)	10/292 (3.4%)	RR 0.40 (0.13 to 1.24)	21 fewer per 1000 (from 30 fewer to 8 more)	⊕⊕OO LOW	CRITICAL

			Quality asses	sment			No. of p	patients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Dexamethasone (any regimen)	Betamethasone (any regimen)	Relative (95% Cl)	Absolute	Quality	Importance
Intrave	ntricular hae	morrhage (all	grades)									
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	9/257 (3.5%)	21/292 (7.2%)	RR 0.44 (0.21 to 0.92)	40 fewer per 1000 (from 6 fewer to 57 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Neonat	al sepsis											
2	randomized trials	serious <sup>8</sup>	no serious inconsistency	no serious indirectness	serious⁵	none	29/254 (11.4%)	23/262 (8.8%)	RR 1.30 (0.78 to 2.19)	26 more per 1000 (from 19 fewer to 104 more)	⊕⊕OO LOW	CRITICAL
Necroti	izing enteroc	olitis										
3	randomized trials	very serious <sup>9</sup>	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	5/294 (1.7%)	4/304 (1.3%)	RR 1.29 (0.38 to 4.40)	4 more per 1000 (from 8 fewer to 45 more)	⊕OOO VERY LOW	CRITICAL
Retinop	oathy of prem	aturity										
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious⁵	none	31/254 (12.2%)	34/262 (13.0%)	RR 0.93 (0.59 to 1.47)	9 fewer per 1000 (from 53 fewer to 61 more)	⊕⊕⊕O MODERATE	CRITICAL
Low bir	th weight											
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	21/36 (58.3%)	45/69 (65.2%)	RR 0.89 (0.65 to 1.24)	72 fewer per 1000 (from 228 fewer to 157 more)	⊕OOO VERY LOW	CRITICAL
Birth w	eight (kg) (b	etter indicated	l by higher value	es)								
5	randomized trials	serious <sup>6</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	348	386	_	MD 0.01 higher (0.11 lower to 0.12 higher)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al intensive c	are unit admis	ssion	·							·	
2	randomized trials	serious <sup>6</sup>	serious <sup>2</sup>	no serious indirectness	serious⁵	none	42/156 (26.9%)	40/189 (21.2%)	RR 1.72 (0.44 to 6.72)	152 more per 1000 (from 119 fewer to 1000 more)	⊕OOO VERY LOW	IMPORTANT

			Quality asses	sment			No. of p	oatients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Dexamethasone (any regimen)	Betamethasone (any regimen)	Relative (95% CI)	Absolute	Quality	Importance
Neonat	al intensive c	are unit stay (	days) (better in	dicated by low	er values)							
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	serious <sup>4</sup>	none	34	36	_	MD 0.91 lower (1.77 to 0.05 lower)	⊕⊕OO LOW	CRITICAL
Neuros	ensory disab	ility as a child	(18 months)									
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>10</sup>	none	1/8 (12.5%)	0/4 (0.0%)	RR 1.67 (0.08 to 33.75)	_	⊕OOO VERY LOW	CRITICAL
Periven	tricular leuko	omalacia										
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	4/330 (1.2%)	5/373 (1.3%)	RR 0.83 (0.23 to 3.03)	2 fewer per 1000 (from 10 fewer to 27 more)	⊕⊕OO LOW	CRITICAL
Bronch	opulmonary o	dysplasia										
2	randomized trials	no serious risk of bias	serious <sup>2</sup>	no serious indirectness	serious⁵	none	22/214 (10.3%)	27/250 (10.8%)	RR 2.50 (0.10 to 61.34)	162 more per 1000 (from 97 fewer to 1000 more)	⊕⊕OO LOW	CRITICAL

1 One study with design limitations.

2 Statistical heterogeneity (I<sup>2</sup> > 60%).

3 Wide confidence interval crossing the line of no effect and small sample size.

4 Estimate based on small sample size.

5 Wide confidence interval crossing the line of no effect.

6 Most studies contributing data had design limitations.7 Wide confidence interval crossing the line of no effect and few events.

8 One of the studies contributing data had serious design limitations.

9 Most studies contributing data had design limitations, with more than 40% of weight from a study with serious design limitations.

10 Wide confidence interval crossing the line of no effect, few events and small sample size.

# Table 11. Repeat course(s) versus single course of antenatal corticosteroids (ACS) for accelerating fetal lung maturation for women at risk of preterm birth

Source: Crowther CA, McKinlay CJ, Middleton P, Harding JE. Repeat doses of prenatal corticosteroids for women at risk of preterm birth for improving neonatal health outcomes. Cochrane Database Syst Rev. 2011;(6):CD003935. (updated for this guideline)

			Quality assess	ment			No. of	patients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Repeat course(s) of ACS	Single course of ACS	Relative (95% CI)	Absolute	Quality	Importance
Birth < 2	28 weeks of ge	station										
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	106/818 (13.0%)	99/814 (12.2%)	RR 1.07 (0.83 to 1.38)	9 more per 1000 (from 21 fewer to 46 more)	⊕⊕⊕O MODERATE	CRITICAL
Birth <	34 weeks											
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	717/1058 (67.8%)	728/1082 (67.3%)	RR 1.01 (0.95 to 1.07)	7 more per 1000 (from 34 fewer to 47 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Preterm	n birth < 37 wee	eks						,				
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	475/585 (81.2%)	501/596 (84.1%)	RR 0.97 (0.92 to 1.02)	25 fewer per 1000 (from 67 fewer to 17 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Mean g	estational age	at birth (weeks)	) (better indicat	ed by higher va	alues)	1		,				
8	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	1586	1593	-	MD 0.09 lower (0.33 lower to 0.15 higher)	⊕⊕⊕O MODERATE	CRITICAL
Puerpe	ral sepsis											
5	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	72/1565 (4.6%)	61/1526 (4.0%)	RR 1.15 (0.83 to 1.60)	6 more per 1000 (from 7 fewer to 24 more)	⊕⊕OO LOW	CRITICAL
Chorioa	mnionitis											
6	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	140/2152 (6.5%)	118/2109 (5.6%)	RR 1.16 (0.92 to 1.46)	9 more per 1000 (from 4 fewer to 26 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality assess	ment			No. of	patients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Repeat course(s) of ACS	Single course of ACS	Relative (95% CI)	Absolute	Quality	Importance
Fetal an	nd neonatal mo	rtality										
9	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	96/2791 (3.4%)	102/2763 (3.7%)	RR 0.94 (0.71 to 1.23)	2 fewer per 1000 (from 11 fewer to 8 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal de	ath											
7	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	4/1375 (0.3%)	5/1380 (0.4%)	RR 0.82 (0.24 to 2.84)	1 fewer per 1000 (from 3 fewer to 7 more)	⊕OOO VERY LOW	CRITICAL
Neonat	al death											
7	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	47/1352 (3.5%)	52/1361 (3.8%)	RR 0.91 (0.62 to 1.34)	3 fewer per 1000 (from 15 fewer to 13 more)	⊕⊕⊕O MODERATE	CRITICAL
Respira	tory distress s	yndrome										
8	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	463/1603 (28.9%)	565/1603 (35.2%)	RR 0.83 (0.75 to 0.91)	60 fewer per 1000 (from 32 fewer to 88 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Intrave	ntricular haemo	orrhage										
6	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	129/1533 (8.4%)	137/1532 (8.9%)	RR 0.94 (0.75 to 1.18)	5 fewer per 1000 (from 22 fewer to 16 more)	⊕⊕⊕O MODERATE	CRITICAL
Intrave	ntricular haemo	orrhage — grad	e 3 or 4									
6	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	32/2419 (1.3%)	28/2400 (1.2%)	RR 1.13 (0.69 to 1.86)	2 more per 1000 (from 4 fewer to 10 more)	⊕⊕⊕O MODERATE	CRITICAL
Necroti	zing enterocoli	tis										
8	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	45/2709 (1.7%)	60/2685 (2.2%)	RR 0.74 (0.51 to 1.08)	6 fewer per 1000 (from 11 fewer to 2 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality assess	ment			No. of	patients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Repeat course(s) of ACS	Single course of ACS	Relative (95% CI)	Absolute	Quality	Importance
Retinop	oathy of prema	turity								·		
7	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	140/2446 (5.7%)	137/2437 (5.6%)	RR 1.02 (0.81 to 1.28)	1 more per 1000 (from 11 fewer to 16 more)	⊕⊕⊕O MODERATE	CRITICAL
Use of s	surfactant											
9	randomized trials	no serious risk of bias	serious <sup>4</sup>	no serious indirectness	no serious imprecision	none	514/2772 (18.5%)	643/2753 (23.4%)	RR 0.78 (0.65 to 0.95)	51 fewer per 1000 (from 12 fewer to 82 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Early sy	/stemic neonat	al infection (vai	riously defined)									
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	177/763 (23.2%)	193/781 (24.7%)	RR 0.93 (0.79 to 1.11)	17 fewer per 1000 (from 52 fewer to 27 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Small fo	or gestational a	ige at birth										
7	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	191/1996 (9.6%)	163/1979 (8.2%)	RR 1.18 (0.97 to 1.43)	15 more per 1000 (from 2 fewer to 35 more)	⊕⊕⊕O MODERATE	CRITICAL
Mean b	irth weight (g)	(better indicate	ed by higher val	ues)								
9	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	2820	2806	_	MD 75.79 lower (117.63 to 33.96 lower)	⊕⊕⊕⊕ HIGH	CRITICAL
Admiss	ion to the neon	atal intensive c	are unit									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	872/1731 (50.4%)	863/1717 (50.3%)	RR 1.01 (0.95 to 1.07)	5 more per 1000 (from 25 fewer to 35 more)	⊕⊕⊕⊕ HIGH	IMPORTANT
Chronic	: lung disease					·						
8	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	181/2709 (6.7%)	170/2684 (6.3%)	RR 1.06 (0.87 to 1.30)	4 more per 1000 (from 8 fewer to 19 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality assess	ment			No. of	patients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Repeat course(s) of ACS	Single course of ACS	Relative (95% CI)	Absolute	Quality	Importance
Periven	tricular leukom	alacia										
7	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	20/2453 (0.8%)	26/2435 (1.1%)	RR 0.77 (0.43 to 1.37)	2 fewer per 1000 (from 6 fewer to 4 more)	⊕⊕⊕O MODERATE	CRITICAL
Surviva	l free of any dis	ability to early	childhood follo	w-up								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	1241/1584 (78.3%)	1215/1571 (77.3%)	RR 1.01 (0.97 to 1.05)	8 more per 1000 (from 23 fewer to 39 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Surviva	l free of major	neurosensory d	isability to earl	y childhood foll	ow-up							
2	randomized trials	serious <sup>2</sup>	serious <sup>4</sup>	no serious indirectness	no serious imprecision	none	557/642 (86.8%)	572/675 (84.7%)	RR 1.01 (0.92 to 1.11)	8 more per 1000 (from 68 fewer to 93 more)	⊕⊕OO LOW	CRITICAL
Disabili	ity at early child	dhood follow-up	)									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	175/495 (35.4%)	182/504 (36.1%)	RR 0.98 (0.83 to 1.16)	7 fewer per 1000 (from 61 fewer to 58 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Develop	pmental delay a	t early childhoo	od follow-up					,			,	
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	260/1603 (16.2%)	269/1599 (16.8%)	RR 0.97 (0.84 to 1.13)	5 fewer per 1000 (from 27 fewer to 22 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Blindne	ess at early child	dhood follow-up	<b>)</b>									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	24/1590 (1.5%)	20/1561 (1.3%)	RR 1.17 (0.65 to 2.10)	2 more per 1000 (from 4 fewer to 14 more)	⊕⊕⊕O MODERATE	CRITICAL
Deafne	ss at early child	lhood follow-up										
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	6/1710 (0.4%)	7/1695 (0.4%)	RR 0.85 (0.29 to 2.52)	1 fewer per 1000 (from 3 fewer to 6 more)	⊕⊕OO LOW	CRITICAL

			Quality assess	ment			No. of p	oatients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Repeat course(s) of ACS	Single course of ACS	Relative (95% CI)	Absolute	Quality	Importance
Cerebra	l palsy at early	childhood follo	ow-up									
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	56/1948 (2.9%)	54/1935 (2.8%)	RR 1.03 (0.71 to 1.49)	1 more per 1000 (from 8 fewer to 14 more)	⊕⊕⊕O MODERATE	CRITICAL
Any ma	ternal side-eff	ects of therapy										
2	randomized trials	serious <sup>2</sup>	serious <sup>4</sup>	no serious indirectness	serious <sup>1</sup>	none	115/739 (15.6%)	159/735 (21.6%)	RR 0.97 (0.24 to 3.90)	6 fewer per 1000 (from 164 fewer to 627 more)	⊕OOO VERY LOW	IMPORTANT

Wide confidence interval crossing the line of no effect.
 Most studies contributing data had design limitations.
 Wide confidence interval crossing the line of no effect and few events.
 Statistical heterogeneity (l<sup>2</sup> > 60%).

#### Table 2a. Betamimetics for inhibiting preterm labour

			Quality assess	ment			No. of pa	tients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	All betamimetics	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Deliver	y < 37 weeks o	fgestation										
10	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	404/654 (61.8%)	383/558 (68.6%)	RR 0.95 (0.88 to 1.03)	34 fewer per 1000 (from 82 fewer to 21 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Matern	al death											
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	0/502 (0.0%)	0/405 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Cessati	on of treatmen	t due to advers	e drug reaction									
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	77/590 (13.1%)	5/491 (1.0%)	RR 11.38 (5.21 to 24.86)	106 more per 1000 (from 43 more to 243 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Birth wi	ithin 48 hours	of treatment										
10	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	151/652 (23.2%)	218/557 (39.1%)	RR 0.68 (0.53 to 0.88)	125 fewer per 1000 (from 47 fewer to 184 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Deliver	y within 7 days								,		,	
5	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	184/454 (40.5%)	238/457 (52.1%)	RR 0.80 (0.65 to 0.98)	104 fewer per 1000 (from 10 fewer to 182 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Perinat	al death (7 day	s)	·			·			,	·		
11	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	16/712 (2.2%)	20/620 (3.2%)	RR 0.84 (0.46 to 1.55)	5 fewer per 1000 (from 17 fewer to 18 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al death											
6	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	19/629 (3.0%)	12/545 (2.2%)	RR 0.90 (0.27 to 3.00)	2 fewer per 1000 (from 16 fewer to 44 more)	⊕⊕OO LOW	CRITICAL

Source: Neilson JP, West HM, Dowswell T. Betamimetics for inhibiting preterm labour. Cochrane Database Syst Rev. 2014;(2):CD004352.

			Quality assess	ment			No. of pa	atients	Effe	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	All betamimetics	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Infant d	leath											
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	1/370 (0.3%)	2/380 (0.5%)	RR 0.51 (0.05 to 5.64)	3 fewer per 1000 (from 5 fewer to 24 more)	⊕⊕OO LOW	CRITICAL
Respira	tory distress s	yndrome										
8	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	123/664 (18.5%)	136/575 (23.7%)	RR 0.87 (0.71 to 1.08)	31 fewer per 1000 (from 69 fewer to 19 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Cerebra	al palsy											
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	1/125 (0.8%)	5/121 (4.1%)	RR 0.19 (0.02 to 1.63)	33 fewer per 1000 (from 40 fewer to 26 more)	⊕⊕OO LOW	CRITICAL
Necroti	zing enterocoli	tis								·		
2	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	1/75 (1.3%)	3/74 (4.1%)	RR 0.42 (0.06 to 2.78)	24 fewer per 1000 (from 38 fewer to 72 more)	⊕OOO VERY LOW	CRITICAL
Neonat	al sepsis or info	ection			<u></u>			<u></u>				
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	45/399 (11.3%)	40/410 (9.8%)	RR 2.72 (0.19 to 39.63)	168 more per 1000 (from 79 fewer to 1000 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal ta	chycardia											
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>6</sup>	none	12/15 (80.0%)	5/15 (33.3%)	RR 2.40 (1.12 to 5.13)	467 more per 1000 (from 40 more to 1000 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal hy	/poglycaemia											
3	randomized trials	serious <sup>2</sup>	serious <sup>7</sup>	no serious indirectness	serious <sup>3</sup>	none	143/427 (33.5%)	29/430 (6.7%)	RR 1.89 (0.35 to 10.04)	60 more per 1000 (from 44 fewer to 610 more)	⊕OOO VERY LOW	CRITICAL

			Quality assess	ment			No. of pa	atients	Effe	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	All betamimetics	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Matern	al pulmonary o	edema										
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>4</sup>	none	1/425 (0.2%)	0/427 (0.0%)	RR 3.03 (0.12 to 74.23)	—	⊕⊕⊕O MODERATE	CRITICAL
Myocar	dial ischaemia											
1	randomized trials	serious <sup>8</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	6/54 (11.1%)	0/52 (0.0%)	RR 12.53 (0.72 to 216.91)	—	⊕OOO VERY LOW	CRITICAL
Palpita	tion											
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	214/592 (36.1%)	19/497 (3.8%)	RR 9.91 (6.46 to 15.20)	341 more per 1000 (from 209 more to 543 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Tachyca	ardia											
2	randomized trials	no serious risk of bias	serious <sup>7</sup>	no serious indirectness	very serious <sup>9</sup>	none	65/165 (39.4%)	19/64 (29.7%)	RR 2.01 (0.02 to 252.89)	300 more per 1000 (from 291 fewer to 1000 more)	⊕OOO VERY LOW	CRITICAL
Cardiac	arrhythmias											
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	7/352 (2.0%)	2/356 (0.6%)	RR 3.54 (0.74 to 16.92)	14 more per 1000 (from 1 fewer to 89 more)	⊕⊕OO LOW	CRITICAL
Chest p	ain											
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	39/406 (9.6%)	3/408 (0.7%)	RR 11.29 (3.81 to 33.46)	76 more per 1000 (from 21 more to 239 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Headac	hes											
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	98/516 (19.0%)	22/420 (5.2%)	RR 4.07 (2.60 to 6.35)	161 more per 1000 (from 84 more to 280 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Hypote	nsion											
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>5</sup>	none	4/69 (5.8%)	2/67 (3.0%)	RR 1.56 (0.12 to 20.86)	17 more per 1000 (from 26 fewer to 593 more)	⊕⊕OO LOW	CRITICAL

			Quality assess	ment			No. of pa	atients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	All betamimetics	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Hyperg	lycaemia											
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	106/352 (30.1%)	37/356 (10.4%)	RR 2.9 (2.05 to 4.09)	197 more per 1000 (from 109 more to 321 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Hypoka	laemia											
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	138/352 (39.2%)	23/356 (6.5%)	RR 6.07 (4.00 to 9.2)	328 more per 1000 (from 194 more to 530 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Dyspno	ea											
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	55/406 (13.5%)	14/408 (3.4%)	RR 3.86 (2.21 to 6.77)	98 more per 1000 (from 42 more to 198 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Tremor		·								·		
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	138/352 (39.2%)	13/356 (3.7%)	RR 10.74 (6.20 to 18.59)	356 more per 1000 (from 190 more to 642 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Infant l	ong-term neuro	ological develop	ment (Bayley s	core: psychomo	otor developme	ent) (better indi	cated by higher	values)				
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>6</sup>	none	125	121	_	MD 1.30 higher (2.74 lower to 5.34 higher)	⊕⊕⊕O MODERATE	CRITICAL
Infant l	ong-term neuro	ological develop	ment (Bayley s	core: mental de	evelopment) (b	etter indicated	by higher value	s)				
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>6</sup>	none	125	121	_	MD 5.20 higher (0.56 to 9.84 higher)	⊕⊕⊕O MODERATE	CRITICAL

1 No events.

2 Most studies contributing data had design limitations.

3 Wide confidence interval crossing the line of no effect.

4 Wide confidence interval crossing the line of no effect and few events.

5 Wide confidence interval crossing the line of no effect, few events and small sample size.

6 Estimate based on small sample size.

7 Statistical heterogeneity ( $l^2 > 60\%$ ).

8 One study with design limitations.

9 Wide confidence interval crossing the line of no effect and small sample size.

#### Table 2b. Calcium channel blockers for inhibiting preterm labour

Source: Flenady V, Wojcieszek AM, Papatsonis DNM, Stock OM, Murray L, Jardine LA, Carbonne B. Calcium channel blockers for inhibiting preterm labour and birth. Cochrane Database Syst Rev. 2014;(6):CD002255.

			Quality assess	ment			No. of pa	tients	Effe	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Any calcium channel blocker	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Preterm	ı birth (< 37 we	eks of gestatio	n)									
2	randomized trials	no serious risk of bias	serious <sup>1</sup>	no serious indirectness	very serious <sup>2</sup>	none	65/101 (64.4%)	69/72 (95.8%)	RR 0.65 (0.18 to 2.43)	335 fewer per 1000 (from 786 fewer to 1000 more)	⊕OOO VERY LOW	CRITICAL
Birth <	48 hours after	trial entry										
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	27/101 (26.7%)	62/72 (86.1%)	RR 0.30 (0.21 to 0.43)	603 fewer per 1000 (from 491 fewer to 680 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Matern	al adverse drug	reaction										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	25/45 (55.6%)	0/44 (0%)	RR 49.89 (3.13 to 795.02)	—	⊕⊕⊕O MODERATE	CRITICAL

1 Statistical heterogeneity ( $I^2 > 60\%$ ).

2 Wide confidence interval crossing the line of no effect and small sample size.

3 Estimate based on small sample size.

#### Table 2c. Cyclo-oxygenase (COX) inhibitors for inhibiting preterm labour

Source: King JF, Flenady V, Cole S, Thornton S. Cyclo-oxygenase (COX) inhibitors for treating preterm labour. Cochrane Database Syst Rev. 2005;(2):CD001992. (updated for this guideline)

			Quality assess	ment			No. of	patients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Any Cox inhibitors	Placebo	Relative (95% Cl)	Absolute	Quality	Importance
Pretern	n birth < 37 wee	eks of gestation	1		·							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	3/18 (16.7%)	14/18 (77.8%)	RR 0.21 (0.07 to 0.62)	614 fewer per 1000 (from 296 fewer to 723 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Deliver	y within 48 hou	urs of initiation	of treatment									
2	randomized trials	no serious risk of bias	serious <sup>2</sup>	no serious indirectness	very serious <sup>3</sup>	none	4/34 (11.8%)	22/36 (61.1%)	RR 0.20 (0.03 to 1.28)	489 fewer per 1000 (from 593 fewer to 171 more)	⊕OOO VERY LOW	CRITICAL
Deliver	y within 7 days	of initiation of	treatment									
2	randomized trials	no serious risk of bias	serious <sup>2</sup>	no serious indirectness	very serious <sup>4</sup>	none	11/34 (32.4%)	27/36 (75.0%)	RR 0.41 (0.10 to 1.66)	442 fewer per 1000 (from 675 fewer to 495 more)	⊕OOO VERY LOW	CRITICAL
Gestati	on at birth (we	eks) (better ind	icated by highe	r values)					·			
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	34	33	-	MD 3.53 higher (1.13 to 5.92 higher)	⊕⊕⊕O MODERATE	CRITICAL
Matern	al adverse drug	g reaction										
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	9/50 (18.0%)	6/51 (11.8%)	RR 1.58 (0.66 to 3.78)	68 more per 1000 (from 40 fewer to 327 more)	⊕⊕OO LOW	CRITICAL
Chorioa	mnionitis or er	ndometritis										
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	4/31 (12.9%)	2/33 (6.1%)	RR 1.94 (0.44 to 8.60)	57 more per 1000 (from 34 fewer to 461 more)	⊕⊕OO LOW	CRITICAL

			Quality assess	ment			No. of j	patients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Any Cox inhibitors	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Postpar	tum haemorrh	age										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	7/16 (43.8%)	2/18 (11.1%)	RR 3.94 (0.95 to 16.29)	327 more per 1000 (from 6 fewer to 1000 more)	⊕⊕OO LOW	CRITICAL
Perinata	al mortality											
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	4/53 (7.5%)	5/53 (9.4%)	RR 0.80 (0.25 to 2.58)	19 fewer per 1000 (from 71 fewer to 149 more)	⊕⊕OO LOW	CRITICAL
Intrave	ntricular haemo	orrhage — grad	e 3 or 4									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	1/19 (5.3%)	0/20 (0.0%)	RR 3.15 (0.14 to 72.88)	—	⊕⊕OO LOW	CRITICAL
Neonat	al sepsis											
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	0/35 (0.0%)	1/35 (2.9%)	RR 0.31 (0.01 to 7.15)	20 fewer per 1000 (from 28 fewer to 176 more)	⊕⊕OO LOW	CRITICAL
Patent o	ductus arterios	us			-	·						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	4/19 (21.1%)	3/20 (15.0%)	RR 1.40 (0.36 to 5.46)	60 more per 1000 (from 96 fewer to 669 more)	⊕⊕OO LOW	CRITICAL
Necroti	zing enterocoli	tis				·						
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	3/35 (8.6%)	3/35 (8.6%)	RR 0.97 (0.21 to 4.43)	3 fewer per 1000 (from 68 fewer to 294 more)	⊕⊕OO LOW	CRITICAL
Respira	tory distress s	yndrome				1						
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	8/53 (15.1%)	8/53 (15.1%)	RR 1.00 (0.40 to 2.49)	0 fewer per 1000 (from 91 fewer to 225 more)	⊕⊕OO LOW	CRITICAL

			Quality assess	ment			No. of p	oatients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Any Cox inhibitors	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Chronic	neonatal lung	disease										
2	randomized trials	no serious risk of bias	serious <sup>2</sup>	no serious indirectness	very serious <sup>3</sup>	none	5/35 (14.3%)	4/35 (11.4%)	RR 0.96 (0.07 to 12.37)	5 fewer per 1000 (from 106 fewer to 1000 more)	⊕OOO VERY LOW	CRITICAL
Premat	ure closure of t	he ductus arter	iosus									
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	0/53 (0.0%)	0/53 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Persist	ent pulmonary	hypertension o	f the newborn		<u> </u>	· · · · ·						
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	0/53 (0.0%)	0/53 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Birth w	eight (better in	dicated by high	er values)			·						
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	34	33	_	MD 716.34 higher (425.52 to 1007.16 higher)	⊕⊕⊕O MODERATE	CRITICAL
Admiss	ion to neonatal	intensive care	nursery									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	13/19 (68.4%)	17/20 (85.0%)	RR 0.80 (0.56 to 1.15)	170 fewer per 1000 (from 374 fewer to 127 more)	⊕⊕OO LOW	CRITICAL

1 Estimate based on small sample size.

Statistical heterogeneity (l<sup>2</sup> > 60%).
 Wide confidence interval crossing the line of no effect, few events and small sample size.
 Wide confidence interval crossing the line of no effect and small sample size.

5 No events.

### Table 2d. Magnesium sulfate for inhibiting preterm labour

Source: Crowther CA, Hiller JE, Doyle LW. Magnesium sulphate for preventing preterm birth in threatened preterm labour. Cochrane Database Syst Rev. 2002;(4):CD001060. (updated for this guideline)

			Quality asses	sment			No. of p	oatients	Et	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium sulfate	No tocolytic treatment	Relative (95% CI)	Absolute	Quality	Importance
Pretern	n birth (< 37	weeks of gest	ation)									
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	seriousv	none	18/30 (60.0%)	34/35 (97.1%)	RR 0.62 (0.46 to 0.83)	369 fewer per 1000 (from 165 fewer to 525 fewer)	⊕⊕OO LOW	CRITICAL
Serious	s maternal ou	tcome										
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	0/45 (0.0%)	0/45 (0.0%)	not pooled	not pooled	⊕OOO VERY LOW	CRITICAL
Matern	al adverse ef	fects leading	to discontinuatio	on of treatment	1							
4	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	8/151 (5.3%)	5/159 (3.1%)	RR 1.31 (0.01 to 221.68)	10 more per 1000 (from 31 fewer to 1000 more)	⊕000 VERY LOW	CRITICAL
Birth <	48 hours aft	er trial entry										
3	randomized trials	serious <sup>4</sup>	serious <sup>6</sup>	no serious indirectness	very serious <sup>7</sup>	none	36/91 (39.6%)	73/99 (73.7%)	RR 0.57 (0.28 to 1.15)	317 fewer per 1000 (from 531 fewer to 111 more)	⊕OOO VERY LOW	CRITICAL
Birth <	24 hours aft	er trial entry										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	22/76 (28.9%)	22/80 (27.5%)	RR 1.05 (0.64 to 1.74)	14 more per 1000 (from 99 fewer to 204 more)	⊕⊕OO LOW	CRITICAL
Interva	l between tri	al entry and b	irth (days) (bette	er indicated by	higher values)							
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>8</sup>	none	137	144	—	MD 0.08 higher (4.08 lower to 4.24 higher)	⊕⊕⊕O MODERATE	CRITICAL
Gestati	ional age at b	irth (better in	dicated by highe	r values)								
3	randomized trials	serious <sup>9</sup>	serious <sup>6</sup>	no serious indirectness	serious <sup>2</sup>	none	137	144	—	MD 0.78 lower (1.4 to 0.17 lower)	⊕OOO VERY LOW	CRITICAL
			Quality asses	sment			No. of p	oatients	Ef	ffect		
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No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium sulfate	No tocolytic treatment	Relative (95% CI)	Absolute	Quality	Importance
Total d	eaths (fetal,	neonatal and i	nfant)									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	8/123 (6.5%)	2/134 (1.5%)	RR 4.56 (1.00 to 20.86)	53 more per 1000 (from 0 more to 296 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal de	eaths											
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>10</sup>	none	2/123 (1.6%)	0/134 (0.0%)	RR 5.70 (0.28 to 116.87)	_	⊕⊕OO LOW	CRITICAL
Neonat	al/infant dea	aths										
3	randomized trials	no serious risk of bias	very serious <sup>11</sup>	no serious indirectness	very serious <sup>10</sup>	none	7/137 (5.1%)	6/153 (3.9%)	RR 1.37 (0.48 to 3.97)	15 more per 1000 (from 20 fewer to 116 more)	⊕OOO VERY LOW	CRITICAL
Serious	infant outco	me										
3	randomized trials	no serious risk of bias	very serious <sup>11</sup>	no serious indirectness	very serious <sup>10</sup>	none	9/139 (6.5%)	6/153 (3.9%)	RR 1.74 (0.63 to 4.77)	29 more per 1000 (from 15 fewer to 148 more)	⊕OOO VERY LOW	CRITICAL
Respira	ntory distress	syndrome			1			1			1	
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	80/136 (58.8%)	86/153 (56.2%)	RR 1.09 (0.98 to 1.22)	51 more per 1000 (from 11 fewer to 124 more)	⊕⊕⊕O MODERATE	CRITICAL
Proven	neonatal info	ection (variou	sly defined)									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>10</sup>	none	2/15 (13.3%)	0/19 (0.0%)	RR 6.25 (0.32 to 121.14)	_	⊕⊕OO LOW	CRITICAL
Severe	intraventricu	ılar haemorrh	age (IVH) (grade	e 3 or 4) or peri	ventricular leul	komalacia (PVL)						
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	0/45 (0.0%)	0/45 (0.0%)	not pooled	not pooled	⊕OOO VERY LOW	CRITICAL
IVH (ar	ıy)											
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>10</sup>	none	5/136 (3.7%)	7/153 (4.6%)	RR 0.86 (0.28 to 2.62)	6 fewer per 1000 (from 33 fewer to 74 more)	⊕⊕OO LOW	CRITICAL

			Quality asses	ssment			No. of p	oatients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium sulfate	No tocolytic treatment	Relative (95% CI)	Absolute	Quality	Importance
Necroti	izing enteroc	olitis										
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>10</sup>	none	4/136 (2.9%)	4/153 (2.6%)	RR 1.19 (0.33 to 4.29)	5 more per 1000 (from 18 fewer to 86 more)	⊕⊕00 LOW	CRITICAL
Respira	ntory arrest											
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>10</sup>	none	1/76 (1.3%)	0/80 (0.0%)	RR 3.16 (0.13 to 76.3)	_	⊕⊕OO LOW	CRITICAL
Admiss	ion to neona	tal intensive c	are unit									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>10</sup>	none	5/76 (6.6%)	12/89 (13.5%)	RR 0.49 (0.18 to 1.32)	69 fewer per 1000 (from 111 fewer to 43 more)	⊕⊕OO LOW	CRITICAL
Need fo	or assisted ve	entilation										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	15/76 (19.7%)	15/89 (16.9%)	RR 1.17 (0.61 to 2.24)	29 more per 1000 (from 66 fewer to 209 more)	⊕⊕OO LOW	CRITICAL
Caesar	ean section	-							-			-
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	22/136 (16.2%)	22/144 (15.3%)	RR 1.08 (0.63 to 1.85)	12 more per 1000 (from 57 fewer to 130 more)	⊕⊕OO LOW	CRITICAL
Hypote	nsion (variou	usly defined)										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>10</sup>	none	1/76 (1.3%)	0/80 (0.0%)	RR 3.16 (0.13 to 76.3)	—	⊕⊕OO LOW	CRITICAL
Tachyca	ardia (variou	sly defined)										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	0/16 (0.0%)	0/19 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL

1 One study with design limitations.

2 Estimate based on small sample size.

3 No events.

4 Two of the studies contributing data had design limitations.

5 Wide confidence interval crossing the line of no effect and few events.

6 Statistical heterogeneity (l<sup>2</sup> > 60%). Variation in size of effect.
7 Wide confidence interval crossing the line of no effect and small sample size.

8 Wide confidence interval crossing the line of no effect.

9 More than 40% of weight from a study with design limitations.

10 Wide confidence interval crossing the line of no effect, few events and small sample size.

11 Statistical heterogeneity ( $l^2 > 60\%$ ). Variation in size and direction of effect.

#### Table 2e. Oxytocin receptor antagonists for inhibiting preterm labour

Source: Flenady V, Reinebrant HE, Liley HG, Tambimuttu EG, Papatsonis DNM. Oxytocin receptor antagonists for inhibiting preterm labour. Cochrane Database Syst Rev. 2014;(6):CD004452.

			Quality asses	sment			No. of pati	ents	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Oxytocin receptor antagonist (atosiban)	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Extrem	ely preterm b	irth (< 28 wee	eks of gestation)									
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	12/246 (4.9%)	4/255 (1.6%)	RR 3.11 (1.02 to 9.51)	33 more per 1000 (from 0 more to 133 more)	⊕⊕⊕O MODERATE	CRITICAL
Preterr	n birth (< 37 w	/eeks)										
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	144/246 (58.5%)	128/255 (50.2%)	RR 1.17 (0.99 to 1.37)	85 more per 1000 (from 5 fewer to 186 more)	⊕⊕OO LOW	CRITICAL
Matern	al death											
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	0/246 (0.0%)	0/255 (0.0%)	not pooled	not pooled	⊕OOO VERY LOW	CRITICAL
Matern	al adverse dri	ug reaction re	quiring cessatio	n of treatment		·						
2	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	40/306 (13.1%)	10/307 (3.3%)	RR 4.02 (2.05 to 7.85)	98 more per 1000 (from 34 more to 223 more)	⊕⊕⊕O MODERATE	CRITICAL
Birth w	ithin 48 hours	s of initiation	of treatment									
2	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	6/76 (7.9%)	5/76 (6.6%)	RR 1.05 (0.15 to 7.43)	3 more per 1000 (from 56 fewer to 423 more)	⊕OOO VERY LOW	CRITICAL
Gestati	ional age (wee	eks) (better in	dicated by highe	er values)								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>6</sup>	none	57	57	_	MD 0.5 lower (1.56 lower to 0.56 higher)	⊕⊕⊕O MODERATE	CRITICAL
Perinat	al mortality											
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	11/288 (3.8%)	5/295 (1.7%)	RR 2.25 (0.79 to 6.40)	21 more per 1000 (from 4 fewer to 92 more)	⊕OOO VERY LOW	CRITICAL

		•	Quality asses	sment			No. of pati	ents	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Oxytocin receptor antagonist (atosiban)	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Stillbirt	th											
3	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	5/365 (1.4%)	8/372 (2.2%)	RR 0.63 (0.22 to 1.84)	8 fewer per 1000 (from 17 fewer to 18 more)	⊕OOO VERY LOW	CRITICAL
Neonat	al death											
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	8/288 (2.8%)	2/295 (0.7%)	RR 4.10 (0.88 to 19.13)	21 more per 1000 (from 1 fewer to 123 more)	⊕OOO VERY LOW	CRITICAL
Infant d	leath (up to 12	2 months)										
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	12/288 (4.2%)	2/295 (0.7%)	RR 6.15 (1.39 to 27.22)	35 more per 1000 (from 3 more to 178 more)	⊕⊕⊕O MODERATE	CRITICAL
Respira	tory distress	syndrome										
2	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	67/340 (19.7%)	54/349 (15.5%)	RR 1.28 (0.93 to 1.76)	43 more per 1000 (from 11 fewer to 118 more)	⊕⊕OO LOW	CRITICAL
Intrave	ntricular haer	norrhage										
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	16/243 (6.6%)	19/246 (7.7%)	RR 0.85 (0.45 to 1.62)	12 fewer per 1000 (from 42 fewer to 48 more)	⊕⊕OO LOW	CRITICAL
Necroti	izing enteroco	olitis										
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	1/283 (0.4%)	5/292 (1.7%)	RR 0.21 (0.02 to 1.76)	14 fewer per 1000 (from 17 fewer to 13 more)	⊕OOO VERY LOW	CRITICAL
Birth w	eight (g) (bet	ter indicated	by higher values	)								
2	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	343	349	_	MD 138.31 lower (248.76 to 27.86 lower)	⊕⊕⊕O MODERATE	CRITICAL

			Quality asses	sment			No. of pati	ents	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Oxytocin receptor antagonist (atosiban)	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Admiss	ion to neonat	al intensive c	are									
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	115/274 (42.0%)	110/286 (38.5%)	RR 1.09 (0.89 to 1.34)	35 more per 1000 (from 42 fewer to 131 more)	⊕⊕OO LOW	CRITICAL
Caesare	ean section											
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>5</sup>	none	13/56 (23.2%)	8/56 (14.3%)	RR 1.62 (0.73 to 3.61)	89 more per 1000 (from 39 fewer to 373 more)	⊕⊕OO LOW	CRITICAL
Matern	al drug reacti	on										
2	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	49/306 (16.0%)	32/307 (10.4%)	RR 1.54 (1.02 to 2.32)	56 more per 1000 (from 2 more to 138 more)	⊕⊕⊕O MODERATE	CRITICAL

One study with design limitations.
 Wide confidence interval crossing the line of no effect.

Wide confidence interval crossing the line of no effect.
 No events.
 Most studies contributing data had design limitations.
 Wide confidence interval crossing the line of no effect, few events and small sample size.
 Estimate based on small sample size.
 Wide confidence interval crossing the line of no effect and few events.

## Table 2f. Nitric oxide donors for inhibiting preterm labour

Source: Duckitt K, Thornton S, O'Donovan OP, Dowswell T. Nitric oxide donors for treating preterm labour. Cochrane Database Syst Rev. 2014;(5):CD002860.

			Quality asses	sment			No. of	patients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Nitric oxide donors	Placebo or no treatment	Relative (95% Cl)	Absolute	Quality	Importance
Deliver	y < 28 comple	ted weeks										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	8/74 (10.8%)	16/79 (20.3%)	RR 0.53 (0.24 to 1.17)	95 fewer per 1000 (from 154 fewer to 34 more)	⊕⊕OO LOW	CRITICAL
Deliver	y < 34 comple	eted weeks										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	26/74 (35.1%)	30/79 (38%)	RR 0.93 (0.61 to 1.41)	27 fewer per 1000 (from 148 fewer to 156 more)	⊕⊕OO LOW	CRITICAL
Deliver	y < 37 comple	ted weeks										
2	randomized trials	no serious risk of bias²	serious <sup>3</sup>	no serious indirectness	serious <sup>4</sup>	none	44/149 (29.5%)	65/154 (42.2%)	RR 0.57 (0.16 to 2.01)	181 fewer per 1000 (from 355 fewer to 426 more)	⊕⊕OO LOW	CRITICAL
Prolong	gation of preg	nancy > 48 hou	rs									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious⁵	none	67/91 (73.6%)	64/95 (67.4%)	RR 1.19 (0.74 to 1.90)	128 more per 1000 (from 175 fewer to 606 more)	⊕⊕⊕O MODERATE	CRITICAL
Death i	n utero unrela	ted to congenit	tal abnormalitie	s								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	0/74 (0.0%)	1/79 (1.3%)	RR 0.36 (0.01 to 8.59)	8 fewer per 1000 (from 13 fewer to 96 more)	⊕⊕OO LOW	CRITICAL
Death i	n first 28 days	s of life unrelate	ed to congenita	l abnormalities								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/91 (1.1%)	3/95 (3.2%)	RR 0.43 (0.06 to 2.89)	18 fewer per 1000 (from 30 fewer to 60 more)	⊕⊕OO LOW	CRITICAL
Birth w	eight (better i	indicated by hig	gher values)									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	17	16	_	MD 327 higher (272.13 lower to 926.13 higher)	⊕⊕OO LOW	CRITICAL

			Quality assess	sment			No. of	patients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Nitric oxide donors	Placebo or no treatment	Relative (95% Cl)	Absolute	Quality	Importance
Respira	atory distress	syndrome						·		·		
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	3/17 (17.6%)	6/16 (37.5%)	RR 0.47 (0.14 to 1.57)	199 fewer per 1000 (from 322 fewer to 214 more)	⊕⊕OO LOW	CRITICAL
Intrave	ntricular haen	norrhage										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	2/74 (2.7%)	1/79 (1.3%)	RR 2.14 (0.20 to 23.06)	14 more per 1000 (from 10 fewer to 279 more)	⊕⊕OO LOW	CRITICAL
Chronic	c lung disease											
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/74 (1.4%)	7/79 (8.9%)	RR 0.15 (0.02 to 1.21)	75 fewer per 1000 (from 87 fewer to 19 more)	⊕⊕OO LOW	CRITICAL
Advers	e drug reactio	ns	• •		• •			<u>.</u>		• •		
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>6</sup>	none	61/91 (67.0%)	43/95 (45.3%)	RR 1.49 (1.14 to 1.94)	222 more per 1000 (from 63 more to 425 more)	⊕⊕⊕O MODERATE	CRITICAL
Headac	:he									1		
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>6</sup>	none	42/74 (56.8%)	23/79 (29.1%)	RR 1.95 (1.31 to 2.90)	277 more per 1000 (from 90 more to 553 more)	⊕⊕⊕O MODERATE	CRITICAL
Dizzine	SS		• •		• •			<u>.</u>		•		
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	9/74 (12.2%)	6/79 (7.6%)	RR 1.60 (0.60 to 4.28)	46 more per 1000 (from 30 fewer to 249 more)	⊕⊕OO LOW	CRITICAL
Flushin	g						· 	· 				
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	11/74 (14.9%)	13/79 (16.5%)	RR 0.90 (0.43 to 1.89)	16 fewer per 1000 (from 94 fewer to 146 more)	⊕⊕OO LOW	IMPORTANT

			Quality assess	sment			No. of	patients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Nitric oxide donors	Placebo or no treatment	Relative (95% CI)	Absolute	Quality	Importance
Hypote	nsion											
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	9/74 (12.2%)	8/79 (10.1%)	RR 1.20 (0.49 to 2.95)	20 more per 1000 (from 52 fewer to 197 more)	⊕⊕OO LOW	CRITICAL
Comple	tion of course	of maternal st	eroids									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	74/91 (81.3%)	74/95 (77.9%)	RR 1.04 (0.90 to 1.20)	31 more per 1000 (from 78 fewer to 156 more)	⊕⊕OO LOW	IMPORTANT

Wide confidence interval crossing the line of no effect, few events and small sample size.
 Most of the pooled effect provided by studies with low risk of bias.
 Statistical heterogeneity (l<sup>2</sup> = 90%).

4 Wide confidence interval crossing the line of no effect.5 Wide confidence interval crossing the line of no effect and small sample size.

6 Estimate based on small sample size.

# Table 2g. Progestational agents for inhibiting preterm labour

Source: Su LL, Samuel M, Chong YS. Progestational agents for treating threatened or established preterm labour. Cochrane Database Syst Rev. 2014;(1):CD006770.

			Quality asse	ssment			No. of pat	tients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Progestational agents	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Pretern	n birth < 34 w	eeks of gesta	tion									
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	8/31 (25.8%)	13/31 (41.9%)	RR 0.62 (0.30 to 1.27)	159 fewer per 1000 (from 294 fewer to 113 more)	⊕000 VERY LOW	CRITICAL
Pretern	n delivery < 3	5 weeks										
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	3/30 (10%)	7/30 (23.3%)	RR 0.43 (0.12 to 1.50)	133 fewer per 1000 (from 205 fewer to 117 more)	⊕OOO VERY LOW	CRITICAL
Pretern	n delivery < 3	7 weeks										
4	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	51/147 (34.7%)	77/146 (52.7%)	RR 0.62 (0.39 to 0.98)	200 fewer per 1000 (from 11 fewer to 322 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Deliver	y within 48 h	ours of intervo	ention									
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	11/54 (20.4%)	15/56 (26.8%)	RR 0.76 (0.38 to 1.50)	64 fewer per 1000 (from 166 fewer to 134 more)	⊕OOO VERY LOW	CRITICAL
Perinat	al mortality											
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	0/43 (0.0%)	1/40 (2.5%)	RR 0.31 (0.01 to 7.41)	17 fewer per 1000 (from 25 fewer to 160 more)	⊕OOO VERY LOW	CRITICAL
Intrave	ntricular haer	norrhage										
1	randomized trials	no serious risk of bias	serious <sup>1</sup>	no serious indirectness	very serious <sup>2</sup>	none	1/51 (2.0%)	0/53 (0.0%)	RR 3.12 (0.13 to 74.76)	—	⊕OOO VERY LOW	CRITICAL
Necroti	izing enteroco	olitis										
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	1/51 (2.0%)	1/53 (1.9%)	RR 1.04 (0.07 to 16.18)	1 more per 1000 (from 18 fewer to 286 more)	⊕000 VERY LOW	CRITICAL
Respira	atory distress	syndrome										
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	1/43 (2.3%)	1/40 (2.5%)	RR 0.93 (0.06 to 14.38)	2 fewer per 1000 (from 24 fewer to 335 more)	⊕OOO VERY LOW	CRITICAL

			Quality asse	ssment			No. of pat	ients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Progestational agents	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Low bir	th weight (< 2	.5 kg)										
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	19/51 (37.3%)	20/54 (37%)	RR 1.01 (0.61 to 1.65)	4 more per 1000 (from 144 fewer to 241 more)	⊕OOO VERY LOW	CRITICAL
Birth w	eight (g) (bet	ter indicated	by higher values	5)					·			
2	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	serious <sup>4</sup>	none	73	70	_	MD 324.7 higher (155.05 to 494.34 higher)	⊕⊕OO LOW	CRITICAL
Admiss	ion to neonat	al intensive ca	are unit									
2	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	17/94 (18.1%)	16/93 (17.2%)	RR 1.08 (0.59 to 1.97)	14 more per 1000 (from 71 fewer to 167 more)	⊕OOO VERY LOW	CRITICAL
Mechar	nical ventilation	on										
2	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	7/94 (7.4%)	6/93 (6.5%)	RR 1.18 (0.41 to 3.37)	12 more per 1000 (from 38 fewer to 153 more)	⊕OOO VERY LOW	CRITICAL
Oxygen	requirement	on day 7 of li	fe									
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	4/51 (7.8%)	6/53 (11.3%)	RR 0.69 (0.21 to 2.31)	35 fewer per 1000 (from 89 fewer to 148 more)	⊕OOO VERY LOW	CRITICAL
Oxygen	requirement	on day 28 of	life	<u> </u>					·			
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	2/51 (3.9%)	5/53 (9.4%)	RR 0.42 (0.08 to 2.05)	55 fewer per 1000 (from 87 fewer to 99 more)	⊕OOO VERY LOW	CRITICAL

One study with design limitations.
 Wide confidence interval crossing the line of no effect, few events and small sample size.
 Most studies contributing data had design limitations.
 Estimate based on small sample size.
 Wide confidence interval crossing the line of no effect and small sample size.

## Table 2h. Relaxin for inhibiting preterm labour

			Quality asses	sment			No. of	patients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Relaxin	No relaxin	Relative (95% CI)	Absolute	Quality	Importance
Pretern	n birth											
1	randomized trials	very serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	33/37 (89.2%)	31/32 (96.9%)	RR 0.92 (0.81 to 1.05)	77 fewer per 1000 (from 184 fewer to 48 more)	⊕OOO VERY LOW	CRITICAL
Birth w	ithin 7 days o	ftreatment										
1	randomized trials	very serious <sup>1</sup>	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	7/15 (46.7%)	14/15 (93.3%)	RR 0.50 (0.29 to 0.87)	467 fewer per 1000 (from 121 fewer to 663 fewer)	⊕OOO VERY LOW	CRITICAL
Birth w	ithin 7 days o	f treatment (s	ubgroups) — pro	emature ruptur	e of membrane	S						
1	randomized trials	very serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	4/7 (57.1%)	11/11 (100.0%)	RR 0.59 (0.31 to 1.09)	410 fewer per 1000 (from 690 fewer to 90 more)	⊕OOO VERY LOW	CRITICAL
Birth w	ithin 7 days o	f treatment (s	ubgroups) — pla	cental patholog	<b>gy</b>		<u>.</u>		·			
1	randomized trials	very serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	3/3 (100.0%)	3/3 (100.0%)	RR 1.00 (0.59 to 1.69)	0 fewer per 1000 (from 410 fewer to 690 more)	⊕OOO VERY LOW	CRITICAL
Birth w	ithin 7 days o	f treatment (s	ubgroups) — ma	ternal complica	ations			,	'	'		
1	randomized trials	very serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	2/5 (40.0%)	2/3 (66.7%)	RR 0.60 (0.16 to 2.29)	267 fewer per 1000 (from 560 fewer to 860 more)	⊕OOO VERY LOW	CRITICAL
Birth w	ithin 7 days o	f treatment (s	ubgroups) — un	complicated pro	emature laboui	r						
1	randomized trials	very serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/5 (0.0%)	1/1 (100.0%)	RR 0.11 (0.01 to 1.78)	890 fewer per 1000 (from 990 fewer to 780 more)	⊕OOO VERY LOW	CRITICAL
Perinat	al mortality											
1	randomized trials	very serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	5/15 (33.3%)	6/15 (40.0%)	RR 0.83 (0.32 to 2.15)	68 fewer per 1000 (from 272 fewer to 460 more)	⊕OOO VERY LOW	CRITICAL

Source: Bain E, Heatley E, Hsu K, Crowther CA. Relaxin for preventing preterm birth. Cochrane Database Syst Rev. 2013;(8):CD010073.

			Quality asses	sment			No. of	patients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Relaxin	No relaxin	Relative (95% CI)	Absolute	Quality	Importance
Perinat	al mortality (	subgroups) —	premature rupt	ure of membrai	ies							
1	randomized trials	very serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	3/7 (42.9%)	4/11 (36.4%)	RR 1.18 (0.37 to 3.76)	65 more per 1000 (from 229 fewer to 1000 more)	⊕OOO VERY LOW	CRITICAL
Perinat	al mortality (	subgroups) —	placental patho	logy								
1	randomized trials	very serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	1/3 (33.3%)	2/3 (66.7%)	RR 0.50 (0.08 to 2.99)	333 fewer per 1000 (from 613 fewer to 1000 more)	⊕OOO VERY LOW	CRITICAL
Perinat	al mortality (	subgroups) —	maternal compl	ications								
1	randomized trials	very serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	4/5 (80.0%)	2/3 (66.7%)	RR 1.20 (0.48 to 2.99)	133 more per 1000 (from 347 fewer to 1000 more)	⊕OOO VERY LOW	CRITICAL
Perinat	al mortality (	subgroups) —	uncomplicated	premature labo	ur							
1	randomized trials	very serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/5 (0.0%)	1/1 (100.0%)	RR 0.11 (0.01 to 1.78)	890 fewer per 1000 (from 990 fewer to 780 more)	⊕OOO VERY LOW	CRITICAL
Neonat	al death		·	·							<u>.</u>	
1	randomized trials	very serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	4/15 (26.7%)	5/15 (33.3%)	RR 0.80 (0.27 to 2.41)	67 fewer per 1000 (from 243 fewer to 470 more)	⊕OOO VERY LOW	CRITICAL
Fetal de	eath		1									
1	randomized trials	very serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	1/15 (6.7%)	1/15 (6.7%)	RR 1.00 (0.07 to 14.55)	0 fewer per 1000 (from 62 fewer to 903 more)	⊕OOO VERY LOW	CRITICAL
Intrapa	rtum fever								Ì			
1	randomized trials	very serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	2/7 (28.6%)	0/11 (0.0%)	RR 7.50 (0.41 to 136.52)	—	⊕OOO VERY LOW	CRITICAL
Labour	stopped											
1	randomized trials	very serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	17/25 (68.0%)	18/25 (72.0%)	RR 0.94 (0.66 to 1.36)	43 fewer per 1000 (from 245 fewer to 259 more)	⊕OOO VERY LOW	CRITICAL

			Quality asses	sment			No. of	patients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Relaxin	No relaxin	Relative (95% CI)	Absolute	Quality	Importance
Birth w	eight < 2500	g										
1	randomized trials	very serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	4/15 (26.7%)	2/15 (13.3%)	RR 2.00 (0.43 to 9.32)	133 more per 1000 (from 76 fewer to 1000 more)	⊕OOO VERY LOW	CRITICAL

One study with serious design limitations.
 Wide confidence interval crossing the line of no effect and small sample size.
 Few events and small sample size.

4 Wide confidence interval crossing the line of no effect, few events and small sample size.

#### Table 2i. Hydration for inhibiting preterm labour

Source: Stan CM, Boulvain M, Pfister R, Hirsbrunner-Almagbaly P. Hydration for treatment of preterm labour. Cochrane Database Syst Rev. 2013;(11):CD003096.

			Quality as	sessment			No. of	patients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Hydration (all women)	No treatment/ bed rest alone	Relative (95% CI)	Absolute	Quality	Importance
Deliver	y < 32 weeks	of gestati	on									
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	9/73 (12.3%)	6/37 (16.2%)	RR 0.76 (0.29 to 1.97)	39 fewer per 1000 (from 115 fewer to 157 more)	⊕OOO VERY LOW	CRITICAL
Deliver	y < 34 weeks											
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	4/62 (6.5%)	5/56 (8.9%)	RR 0.72 (0.20 to 2.56)	25 fewer per 1000 (from 71 fewer to 139 more)	⊕OOO VERY LOW	CRITICAL
Deliver	y < 37 weeks											
2	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	38/135 (28.1%)	24/93 (25.8%)	RR 1.09 (0.71 to 1.68)	23 more per 1000 (from 75 fewer to 175 more)	⊕OOO VERY LOW	CRITICAL
Time to	delivery (day	ys) (bette	r indicated by l	ower values)								
2	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	135	93	_	MD 0.99 lower (7.85 lower to 5.87 higher)	⊕OOO VERY LOW	CRITICAL
Admiss	ion to neonat	al intensi	ve care unit									
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	11/62 (17.7%)	10/56 (17.9%)	RR 0.99 (0.46 to 2.16)	2 fewer per 1000 (from 96 fewer to 207 more)	⊕OOO VERY LOW	CRITICAL
Use of t	ocolytic drug	;S										
2	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	41/138 (29.7%)	30/96 (31.3%)	RR 0.83 (0.57 to 1.20)	53 fewer per 1000 (from 134 fewer to 63 more)	⊕OOO VERY LOW	IMPORTANT
Cost of	treatment (fi	rst 24 hou	ırs, in US\$) (be	tter indicated l	by lower values	5)						
1	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	54	49	_	MD 39 higher (26.11 lower to 104.11 higher)	⊕OOO VERY LOW	IMPORTANT

1 One study with design limitations.

2 Wide confidence interval crossing the line of no effect, few events and small sample size.

3 Wide confidence interval crossing the line of no effect and small sample size.

4 All studies contributing data had design limitations.

#### Table 2j. Maintenance betamimetic therapy for inhibiting preterm labour

Source: Dodd JM, Crowther CA, Middleton P. Oral betamimetics for maintenance therapy after threatened preterm labour. Cochrane Database Syst Rev. 2012;(12):CD003927. (updated for this guideline)

			Quality ass	essment			No. of p	atients	E	Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Any betamimetic	Placebo/no treatment	Relative (95% CI)	Absolute	Quality	Importance
Very pr	eterm birth (	< 34 weeks o	f gestation)									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	3/62 (4.8%)	1/58 (1.7%)	RR 2.81 (0.30 to 26.22)	31 more per 1000 (from 12 fewer to 435 more)	⊕⊕OO LOW	CRITICAL
Pretern	n birth (< 37 v	veeks)										
6	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	111/336 (33.0%)	98/308 (31.8%)	RR 1.11 (0.91 to 1.35)	35 more per 1000 (from 29 fewer to 111 more)	⊕⊕OO LOW	CRITICAL
Pretern	n birth within	24 hours of	therapy									
1	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	2/23 (8.7%)	3/23 (13.0%)	RR 0.67 (0.12 to 3.62)	43 fewer per 1000 (from 115 fewer to 342 more)	⊕OOO VERY LOW	CRITICAL
Pretern	n birth within	48 hours of	therapy									
1	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	7/100 (7.0%)	9/100 (9.0%)	RR 0.78 (0.30 to 2.01)	20 fewer per 1000 (from 63 fewer to 91 more)	⊕OOO VERY LOW	CRITICAL
Pretern	n birth within	1 week of the	erapy								<u></u>	
2	randomized trials	serious⁵	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	19/150 (12.7%)	28/145 (19.3%)	RR 0.67 (0.40 to 1.13)	64 fewer per 1000 (from 116 fewer to 25 more)	⊕⊕OO LOW	CRITICAL
Side-ef	fects sufficie	nt to stop the	erapy									
2	randomized trials	no serious risk of bias <sup>6</sup>	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/73 (1.4%)	0/68 (0.0%)	RR 2.71 (0.11 to 64.79)	_	⊕⊕OO LOW	CRITICAL
Perinat	al mortality											
6	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	11/349 (3.2%)	4/332 (1.2%)	RR 2.41 (0.86 to 6.74)	17 more per 1000 (from 2 fewer to 69 more)	⊕OOO VERY LOW	CRITICAL
Respira	atory distress	syndrome										
6	randomized trials	serious <sup>8</sup>	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	20/388 (5.2%)	19/382 (5.0%)	RR 1.10 (0.61 to 1.98)	5 more per 1000 (from 19 fewer to 49 more)	⊕⊕OO LOW	CRITICAL

			Quality ass	essment			No. of p	atients	I	Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Any betamimetic	Placebo/no treatment	Relative (95% Cl)	Absolute	Quality	Importance
Necroti	izing enteroc	olitis				·						
2	randomized trials	serious <sup>8</sup>	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	3/212 (1.4%)	3/204 (1.5%)	RR 0.98 (0.22 to 4.28)	0 fewer per 1000 (from 11 fewer to 48 more)	⊕OOO VERY LOW	CRITICAL
Intrave	ntricular hae	morrhage										
3	randomized trials	serious <sup>8</sup>	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	4/237 (1.7%)	4/229 (1.7%)	RR 0.97 (0.27 to 3.58)	1 fewer per 1000 (from 13 fewer to 45 more)	⊕OOO VERY LOW	CRITICAL
Low bir	th weight (< 2	2500 g)										
1	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/80 (1.3%)	5/60 (8.3%)	RR 0.15 (0.02 to 1.25)	71 fewer per 1000 (from 82 fewer to 21 more)	⊕OOO VERY LOW	CRITICAL
Birth w	eight (better	indicated by	higher values)			•	` 			` 		
7	randomized trials	serious <sup>8</sup>	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	395	385	_	MD 4.13 higher (91.89 lower to 100.16 higher)	⊕⊕OO LOW	CRITICAL
Neonat	al intensive c	are unit adm	ission			·						
2	randomized trials	serious⁵	no serious inconsistency	no serious indirectness	very serious <sup>9</sup>	none	19/134 (14.2%)	14/126 (11.1%)	RR 1.28 (0.68 to 2.41)	31 more per 1000 (from 36 fewer to 157 more)	⊕OOO VERY LOW	CRITICAL
Tachyca	ardia					·						
4	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	68/210 (32.4%)	31/204 (15.2%)	RR 2.13 (1.52 to 2.98)	172 more per 1000 (from 79 more to 301 more)	⊕⊕⊕O MODERATE	CRITICAL
Tachyp	noea											
2	randomized trials	no serious risk of bias <sup>10</sup>	no serious inconsistency	no serious indirectness	serious <sup>11</sup>	none	15/134 (11.2%)	4/126 (3.2%)	RR 3.52 (1.20 to 10.33)	80 more per 1000 (from 6 more to 296 more)	⊕⊕⊕O MODERATE	CRITICAL
Hypote	nsion											
2	randomized trials	serious⁵	no serious inconsistency	no serious indirectness	serious <sup>11</sup>	none	21/85 (24.7%)	11/81 (13.6%)	RR 1.89 (1.13 to 3.19)	121 more per 1000 (from 18 more to 297 more)	⊕⊕OO LOW	CRITICAL

			Quality ass	essment			No. of p	atients	E	Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Any betamimetic	Placebo/no treatment	Relative (95% CI)	Absolute	Quality	Importance
Palpita	tions											
1	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	serious <sup>11</sup>	none	12/72 (16.7%)	2/68 (2.9%)	RR 5.67 (1.32 to 24.40)	137 more per 1000 (from 9 more to 688 more)	⊕⊕OO LOW	CRITICAL
Headac	he											
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/50 (2.0%)	0/45 (0.0%)	RR 2.71 (0.11 to 64.79)	—	⊕⊕OO LOW	CRITICAL
Matern	al antenatal ı	eadmission	to hospital									
4	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	40/167 (24.0%)	36/168 (21.4%)	RR 1.11 (0.76 to 1.62)	24 more per 1000 (from 51 fewer to 133 more)	⊕⊕OO LOW	CRITICAL
Need fo	or mechanical	ventilation										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/62 (1.6%)	1/58 (1.7%)	RR 0.94 (0.06 to 14.61)	1 fewer per 1000 (from 16 fewer to 235 more)	⊕⊕OO LOW	CRITICAL
Neonat	al jaundice											
1	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	very serious <sup>9</sup>	none	10/25 (40.0%)	6/25 (24.0%)	RR 1.67 (0.71 to 3.89)	161 more per 1000 (from 70 fewer to 694 more)	⊕OOO VERY LOW	CRITICAL

1 Wide confidence interval crossing the line of no effect, few events and small sample size.

2 Most studies contributing data had design limitations.

3 Wide confidence interval crossing the line of no effect.

4 One study with design limitations.

5 More than 40% of weight from a study with design limitations.

6 One study contributing data rated low risk of bias.

7 Wide confidence interval crossing the line of no effect and few events.

8 All studies contributing data had design limitations.9 Wide confidence interval crossing the line of no effect and small sample size.

10 More than 50% of weight from studies at low risk of bias.

11 Estimate based on small sample size.

## Table 2k. Magnesium maintenance therapy inhibiting preterm labour

Source: Han S, Crowther CA, Moore V. Magnesium maintenance therapy for preventing preterm birth after threatened preterm labour. Cochrane Database Syst Rev. 2013;(5):CD000940.

			Quality as	sessment			No. of	patients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium	Placebo or no treatment	Relative (95% CI)	Absolute	Quality	Importance
Birth <	37 weeks of g	gestation										
2	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	31/50 (62.0%)	30/49 (61.2%)	RR 1.05 (0.80 to 1.40)	31 more per 1000 (from 122 fewer to 245 more)	⊕OOO VERY LOW	CRITICAL
Gestati	ional age at d	elivery (we	eeks) (better ind	icated by higher	values)							
2	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	90	93	—	MD 0.55 lower (1.34 lower to 0.25 higher)	⊕OOO VERY LOW	CRITICAL
Perinat	al mortality (	death befo	ore discharge am	ong live-born in	fants)							
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	2/25 (8.0%)	0/25 (0.0%)	RR 5 (0.25 to 99.16)	—	⊕OOO VERY LOW	CRITICAL
Respira	ntory distress	syndrome	e									
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	1/25 (4.0%)	0/25 (0.0%)	RR 3.00 (0.13 to 70.30)	_	⊕OOO VERY LOW	CRITICAL
Periven	ntricular haen	norrhage		<u>`</u>			` 	<u>.</u>				
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	1/25 (4.0%)	0/25 (0.0%)	RR 3.00 (0.13 to 70.3)	_	⊕OOO VERY LOW	CRITICAL
Neonat	al length of s	tay (days)	(better indicated	d by lower value	s)						·	
2	randomized trials	serious <sup>1</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	87	93	_	MD 1.18 higher (0.46 lower to 2.82 higher)	⊕OOO VERY LOW	CRITICAL
Neonat	al intensive c	are unit ac	Imissions									
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	15/65 (23.1%)	10/68 (14.7%)	RR 1.57 (0.76 to 3.24)	84 more per 1000 (from 35 fewer to 329 more)	⊕OOO VERY LOW	CRITICAL
Matern	al readmissio	on for thre	atened preterm l	abour								
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	11/25 (44.0%)	14/25 (56.0%)	RR 0.79 (0.45 to 1.38)	118 fewer per 1000 (from 308 fewer to 213 more)	⊕OOO VERY LOW	CRITICAL

1 Both studies contributing data had design limitations.

2 Wide confidence interval crossing the line of no effect and small sample size.

3 One study with design limitations.

4 Wide confidence interval crossing the line of no effect, few events and small sample size.

#### Table 2I. Maintenance therapy with calcium channel blockers for inhibiting preterm labour

Source: Naik Gaunekar N, Raman P, Bain E, Crowther CA. Maintenance therapy with calcium channel blockers for preventing preterm birth after threatened preterm labour. Cochrane Database Syst Rev. 2013;(10):CD004071.

			Quality asse	ssment			No. of patie	ents		ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Calcium channel blockers	Control	Relative (95% Cl)	Absolute	Quality	Importance
Birth <	28 weeks of g	estation				·						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	3/29 (10.3%)	1/31 (3.2%)	RR 3.21 (0.35 to 29.11)	71 more per 1000 (from 21 fewer to 907 more)	⊕⊕OO LOW	CRITICAL
Birth <	34 weeks											
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	116/267 (43.4%)	111/273 (40.7%)	RR 1.07 (0.88 to 1.30)	28 more per 1000 (from 49 fewer to 122 more)	⊕⊕⊕O MODERATE	CRITICAL
Birth <	37 weeks											
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	208/337 (61.7%)	218/344 (63.4%)	RR 0.97 (0.87 to 1.09)	19 fewer per 1000 (from 82 fewer to 57 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Gestati	on at birth (b	etter indicate	d by higher valu	es)		<u>`</u>			` `			
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	337	344	_	MD 0.32 higher (0.61 lower to 1.25 higher)	⊕⊕⊕O MODERATE	CRITICAL
Birth w	ithin 48 hours	s of treatmen	t		,	1						
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/62 (1.6%)	3/66 (4.5%)	RR 0.46 (0.07 to 3.00)	25 fewer per 1000 (from 42 fewer to 91 more)	⊕⊕OO LOW	CRITICAL
Birth w	ithin 7 days o	ftreatment										
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	7/62 (11.3%)	7/66 (10.6%)	RR 1.07 (0.40 to 2.87)	7 more per 1000 (from 64 fewer to 198 more)	⊕⊕OO LOW	CRITICAL
Pregna	ncy prolongat	ion (days) (b	etter indicated b	y higher values	)							
4	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	no serious imprecision	none	136	139	_	MD 5.35 higher (0.49 to 10.21 higher)	⊕⊕⊕O MODERATE	CRITICAL
Matern	al death											
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/230 (0.0%)	0/236 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL

			Quality asse	ssment			No. of patie	ents	l	Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Calcium channel blockers	Control	Relative (95% Cl)	Absolute	Quality	Importance
Matern	al intrauterin	e infection	·	·		·						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	13/201 (6.5%)	15/205 (7.3%)	RR 0.88 (0.43 to 1.81)	9 fewer per 1000 (from 42 fewer to 59 more)	⊕⊕OO LOW	CRITICAL
Matern	al admission	to intensive c	are unit									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	1/230 (0.4%)	1/236 (0.4%)	RR 1.02 (0.06 to 16.19)	0 more per 1000 (from 4 fewer to 64 more)	⊕⊕OO LOW	CRITICAL
Matern	al adverse dr	ug reaction ca	ausing treatmen	t cessation								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/33 (0.0%)	0/35 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Perinat	al mortality											
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	6/230 (2.6%)	4/236 (1.7%)	RR 1.48 (0.45 to 4.86)	8 more per 1000 (from 9 fewer to 65 more)	⊕⊕OO LOW	CRITICAL
Stillbirt	th		·									·
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/29 (0.0%)	0/31 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Neonat	al death											
2	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/66 (1.5%)	2/67 (3%)	RR 0.75 (0.05 to 11.76)	7 fewer per 1000 (from 28 fewer to 321 more)	⊕OOO VERY LOW	CRITICAL
Compos	site neonatal	morbidity	·									·
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	40/249 (16.1%)	38/248 (15.3%)	RR 1.03 (0.69 to 1.54)	5 more per 1000 (from 47 fewer to 83 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al sepsis											
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	18/238 (7.6%)	19/241 (7.9%)	RR 0.96 (0.52 to 1.79)	3 fewer per 1000 (from 38 fewer to 62 more)	⊕⊕⊕O MODERATE	CRITICAL
Respira	tory distress	syndrome										
3	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	19/275 (6.9%)	23/279 (8.2%)	RR 0.84 (0.47 to 1.50)	13 fewer per 1000 (from 44 fewer to 41 more)	⊕⊕OO LOW	CRITICAL

			Quality asse	ssment			No. of pati	ents	1	Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Calcium channel blockers	Control	Relative (95% CI)	Absolute	Quality	Importance
Intrave	ntricular haer	norrhage										
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	3/275 (1.1%)	8/278 (2.9%)	RR 0.41 (0.12 to 1.42)	17 fewer per 1000 (from 25 fewer to 12 more)	⊕⊕OO LOW	CRITICAL
Intrave	ntricular haer	norrhage — a	ny				·					
2	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/74 (1.4%)	3/73 (4.1%)	RR 0.42 (0.06 to 2.78)	24 fewer per 1000 (from 39 fewer to 73 more)	⊕OOO VERY LOW	CRITICAL
Intrave	ntricular haer	norrhage — g	rade 3 or 4									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	2/201 (1.0%)	5/205 (2.4%)	RR 0.41 (0.08 to 2.08)	14 fewer per 1000 (from 22 fewer to 26 more)	⊕⊕OO LOW	CRITICAL
Necroti	izing enteroco	olitis				• •						
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	7/275 (2.5%)	4/278 (1.4%)	RR 1.68 (0.53 to 5.35)	10 more per 1000 (from 7 fewer to 63 more)	⊕⊕OO LOW	CRITICAL
Small fo	or gestational	age					·					
1	randomized trials	serious <sup>6</sup>	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	3/37 (8.1%)	2/37 (5.4%)	RR 1.50 (0.27 to 8.46)	27 more per 1000 (from 39 fewer to 403 more)	⊕OOO VERY LOW	CRITICAL
Low bir	th weight										,	
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	25/48 (52.1%)	25/43 (58.1%)	RR 0.90 (0.62 to 1.3)	58 fewer per 1000 (from 221 fewer to 174 more)	⊕⊕OO LOW	CRITICAL
Neonat	al intensive c	are unit admi	ssion			1						
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	130/348 (37.4%)	128/361 (35.5%)	RR 1.06 (0.87 to 1.28)	21 more per 1000 (from 46 fewer to 99 more)	⊕⊕⊕O MODERATE	CRITICAL
Length	of neonatal in	tensive care	unit stay (days)	(better indicate	d by lower valı	ies)				·		
3	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	70	62	_	MD 0.14 lower (3.25 lower to 2.96 higher)	⊕OOO VERY LOW	CRITICAL
Length	of neonatal h	ospital stay (	days) (better ind	licated by lower	values)							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>8</sup>	none	29	31	_	MD 14 higher (4.21 to 23.79 higher)	⊕⊕⊕O MODERATE	CRITICAL

			Quality asse	ssment			No. of pati	ents	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Calcium channel blockers	Control	Relative (95% CI)	Absolute	Quality	Importance
Chronic	lung disease											
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>5</sup>	none	5/238 (2.1%)	7/241 (2.9%)	RR 0.74 (0.25 to 2.20)	8 fewer per 1000 (from 22 fewer to 35 more)	⊕⊕OO LOW	CRITICAL
Periven	tricular leuko	malacia										
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/238 (0.0%)	0/241 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Mechar	nical ventilation	on										
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	38/282 (13.5%)	37/294 (12.6%)	RR 1.07 (0.70 to 1.64)	9 more per 1000 (from 38 fewer to 81 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al jaundice											
1	randomized trials	serious <sup>6</sup>	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	19/37 (51.4%)	19/37 (51.4%)	RR 1.00 (0.64 to 1.56)	0 fewer per 1000 (from 185 fewer to 288 more)	⊕OOO VERY LOW	CRITICAL

Wide confidence interval crossing the line of not effect, few events and small sample size.
 Wide confidence interval crossing the line of no effect.
 Most studies contributing data had design limitations.

4 No events.

5 Wide confidence interval crossing the line of no effect and few events.
6 One study with design limitations.
7 Wide confidence interval crossing the line of no effect and small sample size.

8 Estimate based on small sample size.

## Table 2m. Maintenance therapy with oxytocin antagonists for inhibiting preterm labour

Source: Papatsonis DN, Flenady V, Liley HG. Maintenance therapy with oxytocin antagonists for inhibiting preterm birth after threatened preterm labour. Cochrane Database Syst Rev. 2013;(10):CD005938.

			Quality asses	sment			No. of p	patients	1	Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Atosiban	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Birth <	28 weeks of g	estation										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	7/45 (15.6%)	6/29 (20.7%)	RR 0.75 (0.28 to 2.01)	52 fewer per 1000 (from 149 fewer to 209 more)	⊕⊕OO LOW	CRITICAL
Birth <	32 weeks											
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	19/158 (12.0%)	18/127 (14.2%)	RR 0.85 (0.47 to 1.55)	21 fewer per 1000 (from 75 fewer to 78 more)	⊕⊕OO LOW	CRITICAL
Birth <	37 weeks											
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	90/267 (33.7%)	92/243 (37.9%)	RR 0.89 (0.71 to 1.12)	42 fewer per 1000 (from 110 fewer to 45 more)	⊕⊕⊕O MODERATE	CRITICAL
Matern	al death	• •	` 									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/261 (0.0%)	0/251 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Perinat	al death								·			
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	4/261 (1.5%)	5/251 (2.0%)	RR 0.77 (0.21 to 2.83)	5 fewer per 1000 (from 16 fewer to 36 more)	⊕⊕OO LOW	CRITICAL
Fetal de	eath	` 	` 									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>5</sup>	none	1/261 (0.4%)	0/251 (0.0%)	RR 2.89 (0.12 to 70.50)	-	⊕⊕OO LOW	CRITICAL
Neonat	al death								·			
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	3/261 (1.1%)	5/251 (2.0%)	RR 0.58 (0.14 to 2.39)	8 fewer per 1000 (from 17 fewer to 28 more)	⊕⊕OO LOW	CRITICAL
Infant o	death (up to 12	2 months)										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	4/289 (1.4%)	5/269 (1.9%)	RR 0.74 (0.20 to 2.74)	5 fewer per 1000 (from 15 fewer to 32 more)	⊕⊕OO LOW	CRITICAL

			Quality asses	sment			No. of p	patients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Atosiban	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Respira	tory distress	syndrome										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	33/288 (11.5%)	29/269 (10.8%)	RR 1.06 (0.66 to 1.70)	6 more per 1000 (from 37 fewer to 75 more)	⊕⊕⊕O MODERATE	CRITICAL
Necroti	zing enteroco	olitis										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious⁵	none	5/288 (1.7%)	2/269 (0.7%)	RR 2.34 (0.46 to 11.93)	10 more per 1000 (from 4 fewer to 81 more)	⊕⊕OO LOW	CRITICAL
Birth w	eight (g) (bet	ter indicated by	/ higher values)						,			
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	289	269	_	MD 0.10 higher (131.78 lower to 131.98 higher)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al intensive c	are unit admiss	ion									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	61/284 (21.5%)	68/266 (25.6%)	RR 0.84 (0.62 to 1.14)	41 fewer per 1000 (from 97 fewer to 36 more)	⊕⊕⊕O MODERATE	CRITICAL

Wide confidence interval crossing the line of no effect, few events and small sample size.
 Wide confidence interval crossing the line of no effect and small sample size.
 Wide confidence interval crossing the line of no effect.

4 No events.5 Wide confidence interval crossing the line of no effect and few events.

#### Table 3a. Magnesium sulfate for fetal neuroprotection in women at risk of preterm birth (all women and babies)

Source: Doyle LW, Crowther CA, Middleton P, Marret S, Rouse D. Magnesium sulphate for women at risk of preterm birth for neuroprotection of the fetus. Cochrane Database Syst Rev. 2009;(1):CD004661. (updated for this guideline)

			Quality ass	essment			No. of p	atients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium sulfate	No active treatment	Relative (95% CI)	Absolute	Quality	Importance
Matern	al mortality											
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	10/2682 (0.4%)	8/2729 (0.3%)	RR 1.25 (0.51 to 3.07)	1 more per 1000 (from 1 fewer to 6 more)	⊕⊕OO LOW	CRITICAL
Matern	al cardiac arr	est										
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/2682 (0.0%)	3/2729 (0.1%)	RR 0.34 (0.04 to 3.26)	1 fewer per 1000 (from 1 fewer to 2 more)	⊕⊕OO LOW	CRITICAL
Matern	al respiratory	y arrest										
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/2682 (0.0%)	1/2729 (0.0%)	RR 1.02 (0.06 to 16.25)	0 more per 1000 (from 0 fewer to 6 more)	⊕⊕OO LOW	CRITICAL
Mother	admitted to	intensive ca	re unit									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	28/1300 (2.2%)	32/1306 (2.5%)	RR 0.89 (0.54 to 1.47)	3 fewer per 1000 (from 11 fewer to 12 more)	⊕⊕⊕O MODERATE	CRITICAL
Cessati	ion of matern	al therapy										
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	192/2396 (8.0%)	60/2451 (2.4%)	RR 3.26 (2.46 to 4.31)	55 more per 1000 (from 36 more to 81 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Paediat	tric mortality	(fetal morta	lity and mortal	ity occurring la	ater)	1	I	1		1		
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	435/2997 (14.5%)	430/3042 (14.1%)	RR 1.02 (0.90 to 1.15)	3 more per 1000 (from 14 fewer to 21 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Fetal de	eath											
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	128/2997 (4.3%)	133/3042 (4.4%)	RR 0.96 (0.77 to 1.21)	2 fewer per 1000 (from 10 fewer to 9 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Deaths	among live-b	orns (during	g primary hospi	talization)	<u>.</u>		<u> </u>	1	]	1	I	
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	267/2967 (9.0%)	258/3013 (8.6%)	RR 1.04 (0.84 to 1.29)	3 more per 1000 (from 14 fewer to 25 more)	⊕⊕⊕O MODERATE	CRITICAL
Deaths	among live-b	orns (to late	est age of follow	v-up)								
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	307/2997 (10.2%)	297/3042 (9.8%)	RR 1.03 (0.84 to 1.27)	3 more per 1000 (from 16 fewer to 26 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality ass	essment			No. of p	atients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium sulfate	No active treatment	Relative (95% Cl)	Absolute	Quality	Importance
Death	or cerebral pa	lsy										
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	539/2997 (18.0%)	580/3042 (19.1%)	RR 0.92 (0.78 to 1.09)	15 fewer per 1000 (from 42 fewer to 17 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or any neurol	ogical impair	ment									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	499/1427 (35.0%)	495/1421 (34.8%)	RR 1.00 (0.91 to 1.11)	0 fewer per 1000 (from 31 fewer to 38 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or substantia	l gross moto	r dysfunction									
4	randomized trials	no serious risk of bias	serious <sup>3</sup>	no serious indirectness	no serious imprecision	none	490/2967 (16.5%)	523/3013 (17.4%)	RR 0.92 (0.75 to 1.12)	14 fewer per 1000 (from 43 fewer to 21 more)	⊕⊕⊕O MODERATE	CRITICAL
Death	or major neur	ological disa	bility									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	394/1427 (27.6%)	386/1421 (27.2%)	RR 1.02 (0.90 to 1.15)	5 more per 1000 (from 27 fewer to 41 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Intrave	ntricular hae	morrhage										
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	454/2169 (20.9%)	482/2218 (21.7%)	RR 0.96 (0.86 to 1.08)	9 fewer per 1000 (from 30 fewer to 17 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Intrave	ntricular hae	morrhage —	grade 3 or 4		1	1	<u></u>					
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	72/1817 (4.0%)	88/1882 (4.7%)	RR 0.83 (0.62 to 1.13)	8 fewer per 1000 (from 18 fewer to 6 more)	⊕⊕⊕O MODERATE	CRITICAL
Periver	ntricular leuk	omalacia										
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	70/2169 (3.2%)	76/2218 (3.4%)	RR 0.92 (0.67 to 1.26)	3 fewer per 1000 (from 11 fewer to 9 more)	⊕⊕⊕O MODERATE	CRITICAL
Major r	neurological c	lisability										
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	98/1427 (6.9%)	91/1421 (6.4%)	RR 1.07 (0.82 to 1.40)	4 more per 1000 (from 12 fewer to 26 more)	⊕⊕⊕O MODERATE	CRITICAL
Any ne	urological im	pairment										
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	203/1427 (14.2%)	200/1421 (14.1%)	RR 1.01 (0.86 to 1.19)	1 more per 1000 (from 20 fewer to 27 more)	⊕⊕⊕⊕ HIGH	CRITICAL

			Quality ass	essment			No. of p	atients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium sulfate	No active treatment	Relative (95% Cl)	Absolute	Quality	Importance
Substa	ntial gross m	otor dysfunc	tion									
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	57/2967 (1.9%)	94/3013 (3.1%)	RR 0.61 (0.44 to 0.85)	12 fewer per 1000 (from 5 fewer to 17 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Blindne	SS											
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	3/1779 (0.2%)	4/1757 (0.2%)	RR 0.74 (0.17 to 3.3)	1 fewer per 1000 (from 2 fewer to 5 more)	⊕⊕⊕O MODERATE	CRITICAL
Deafne	SS											
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	9/1779 (0.5%)	12/1757 (0.7%)	RR 0.79 (0.24 to 2.56)	1 fewer per 1000 (from 5 fewer to 11 more)	⊕⊕⊕O MODERATE	CRITICAL
Develo	pmental dela	y or intellect	ual impairment	t in the second s								
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	647/2967 (21.8%)	670/3013 (22.2%)	RR 0.99 (0.91 to 1.09)	2 fewer per 1000 (from 20 fewer to 20 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Cerebra	al palsy	1			1	1		1	1	1		
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	104/2997 (3.5%)	151/3042 (5.0%)	RR 0.70 (0.55 to 0.89)	15 fewer per 1000 (from 5 fewer to 22 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Chronie	: lung disease	e (infant requ	uires oxygen at	age 28 days)								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	280/629 (44.5%)	260/626 (41.5%)	RR 1.07 (0.94 to 1.22)	29 more per 1000 (from 25 fewer to 91 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Chronie	: lung disease	e (infant requ	uires oxygen at	36 weeks of a	ge)		1	1				
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	220/981 (22.4%)	195/962 (20.3%)	RR 1.12 (0.95 to 1.32)	24 more per 1000 (from 10 fewer to 65 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al convulsion	S								·		
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	55/2169 (2.5%)	70/2218 (3.2%)	RR 0.80 (0.56 to 1.13)	6 fewer per 1000 (from 14 fewer to 4 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al hypotonia									·		
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	85/1188 (7.2%)	88/1256 (7.0%)	RR 1.02 (0.77 to 1.36)	1 more per 1000 (from 16 fewer to 25 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality ass	essment			No. of p	atients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium sulfate	No active treatment	Relative (95% CI)	Absolute	Quality	Importance
Duratio	n of primary	hospital stay	y for newborns	(days) (better	indicated by lo	ower values)						
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	1418	1410	_	MD 0.52 lower (4.15 lower to 3.11 higher)	⊕⊕⊕O MODERATE	CRITICAL
Ongoing	g respiratory	support		` 								
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	980/2169 (45.2%)	1069/2218 (48.2%)	RR 0.94 (0.89 to 1.00)	29 fewer per 1000 (from 53 fewer to 0 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Matern	al respirator	y depression	I									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	41/1631 (2.5%)	31/1672 (1.9%)	RR 1.31 (0.83 to 2.07)	6 more per 1000 (from 3 fewer to 20 more)	⊕⊕⊕O MODERATE	CRITICAL
Matern	al hypotensio	on										
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	80/821 (9.7%)	52/805 (6.5%)	RR 1.51 (1.09 to 2.09)	33 more per 1000 (from 6 more to 70 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Matern	al tachycardi	a									· · · · · · · · · · · · · · · · · · ·	
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	56/535 (10.5%)	36/527 (6.8%)	RR 1.53 (1.03 to 2.29)	36 more per 1000 (from 2 more to 88 more)	⊕⊕⊕⊕ HIGH	CRITICAL

Wide confidence interval crossing the line of no effect and few events.
 Wide confidence interval crossing the line of no effect.
 Statistical heterogeneity (I<sup>2</sup>>60%).

#### Table 3b. Magnesium sulfate for fetal neuroprotection in women at risk of preterm birth (singleton and multiple pregnancy subgroups)

Source: Doyle LW, Crowther CA, Middleton P, Marret S, Rouse D. Magnesium sulphate for women at risk of preterm birth for neuroprotection of the fetus. Cochrane Database Syst Rev. 2009;(1):CD004661. (updated for this guideline)

			Quality ass	essment			No. of p	atients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium sulfate	No active treatment	Relative (95% CI)	Absolute	Quality	Importance
Paediat	tric mortality	(fetal morta	lity and mortality	occurring later)	— both single	ton and multiple	pregnancies		·			
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	395/2468 (16.0%)	388/2516 (15.4%)	RR 1.04 (0.85 to 1.26)	6 more per 1000 (from 23 fewer to 40 more)	⊕⊕⊕O MODERATE	CRITICAL
Paediat	tric mortality	(fetal morta	lity and mortality	occurring later)	— singleton p	regnancy subgro	up					
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	329/2113 (15.6%)	327/2143 (15.3%)	RR 1.01 (0.85 to 1.20)	2 more per 1000 (from 23 fewer to 31 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Paediat	tric mortality	(fetal morta	lity and mortality	occurring later)	— multiple pr	egnancy subgrou	р					
3	randomized trials	no serious risk of bias	serious <sup>2</sup>	no serious indirectness	serious <sup>1</sup>	none	66/355 (18.6%)	61/373 (16.4%)	RR 1.22 (0.68 to 2.18)	36 more per 1000 (from 52 fewer to 193 more)	⊕⊕OO LOW	CRITICAL
Death o	or cerebral pa	lsy — both s	ingleton and mult	iple pregnancie	S							
2	randomized trials	no serious risk of bias	serious <sup>2</sup>	no serious indirectness	no serious imprecision	none	334/1427 (23.4%)	344/1421 (24.2%)	RR 0.97 (0.76 to 1.24)	7 fewer per 1000 (from 58 fewer to 58 more)	⊕⊕⊕O MODERATE	CRITICAL
Death o	or cerebral pa	lsy — singlet	ton pregnancy su	bgroup							,	
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	277/1163 (23.8%)	285/1158 (24.6%)	RR 0.97 (0.82 to 1.14)	7 fewer per 1000 (from 44 fewer to 34 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or cerebral pa	lsy — multip	le pregnancy sub	group								
2	randomized trials	no serious risk of bias	serious <sup>2</sup>	no serious indirectness	serious <sup>1</sup>	none	57/264 (21.6%)	59/263 (22.4%)	RR 1.14 (0.45 to 2.92)	31 more per 1000 (from 123 fewer to 431 more)	⊕⊕OO LOW	CRITICAL
Death o	or neurologica	al impairmen	t — both singleto	n and multiple p	regnancies							
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	499/1427 (35.0%)	495/1421 (34.8%)	RR 1.00 (0.86 to 1.16)	0 fewer per 1000 (from 49 fewer to 56 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or neurologica	al impairmen	ıt — singleton pre	gnancy subgrou	p							
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	405/1163 (34.8%)	399/1158 (34.5%)	RR 1.00 (0.90 to 1.12)	0 fewer per 1000 (from 34 fewer to 41 more)	⊕⊕⊕⊕ HIGH	CRITICAL

			Quality ass	essment			No. of p	atients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium sulfate	No active treatment	Relative (95% Cl)	Absolute	Quality	Importance
Death o	or neurologica	al impairmen	t — multiple preg	gnancy subgroup	<b>)</b>							
2	randomized trials	no serious risk of bias	serious <sup>2</sup>	no serious indirectness	serious <sup>1</sup>	none	94/264 (35.6%)	96/263 (36.5%)	RR 1.21 (0.56 to 2.65)	77 more per 1000 (from 161 fewer to 602 more)	⊕⊕OO LOW	CRITICAL
Death o	or major neur	ological disa	bility — both sing	leton and multi	ple pregnancie	S						
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	394/1427 (27.6%)	386/1421 (27.2%)	RR 1.02 (0.85 to 1.22)	5 more per 1000 (from 41 fewer to 60 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or major neur	ological disa	bility — singletor	pregnancy								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	326/1163 (28.0%)	319/1158 (27.5%)	RR 1.02 (0.89 to 1.16)	6 more per 1000 (from 30 fewer to 44 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or major neur	ological disa	bility — multiple	pregnancy subg	roup		• •		• •			
2	randomized trials	no serious risk of bias	serious <sup>2</sup>	no serious indirectness	serious <sup>1</sup>	none	68/264 (25.8%)	67/263 (25.5%)	RR 1.20 (0.53 to 2.71)	51 more per 1000 (from 120 fewer to 436 more)	⊕⊕OO LOW	CRITICAL
Cerebra	al palsy — bo	th singleton a	and multiple preg	nancies								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	38/1427 (2.7%)	47/1421 (3.3%)	RR 0.80 (0.53 to 1.22)	7 fewer per 1000 (from 16 fewer to 7 more)	⊕⊕⊕O MODERATE	CRITICAL
Cerebra	al palsy — sin	gleton pregn	nancy subgroup									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	31/1163 (2.7%)	33/1158 (2.8%)	RR 0.92 (0.57 to 1.49)	2 fewer per 1000 (from 12 fewer to 14 more)	⊕⊕⊕O MODERATE	CRITICAL
Cerebra	al palsy — mu	Itiple pregna	ancy subgroup									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	7/264 (2.7%)	14/263 (5.3%)	RR 0.52 (0.21 to 1.25)	26 fewer per 1000 (from 42 fewer to 13 more)	⊕⊕OO LOW	CRITICAL
Neurol	ogical impairı	nent — both	singleton and m	ultiple pregnanc	ies							
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	203/1427 (14.2%)	200/1421 (14.1%)	RR 1.01 (0.85 to 1.19)	1 more per 1000 (from 21 fewer to 27 more)	⊕⊕⊕⊕ HIGH	CRITICAL

			Quality ass	essment			No. of p	atients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium sulfate	No active treatment	Relative (95% CI)	Absolute	Quality	Importance
Neurol	ogical impairr	nent — singl	eton pregnancy s	ubgroup								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	159/1163 (13.7%)	147/1158 (12.7%)	RR 1.06 (0.88 to 1.28)	8 more per 1000 (from 15 fewer to 36 more)	⊕⊕⊕O MODERATE	CRITICAL
Neurol	ogical impairr	nent — mult	iple pregnancy su	ıbgroup								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	44/264 (16.7%)	53/263 (20.2%)	RR 0.86 (0.61 to 1.21)	28 fewer per 1000 (from 79 fewer to 42 more)	⊕⊕⊕O MODERATE	CRITICAL
Major r	eurological d	lisability — b	oth singleton and	d multiple pregn	ancies		` 					
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	98/1427 (6.9%)	91/1421 (6.4%)	RR 1.07 (0.82 to 1.40)	4 more per 1000 (from 12 fewer to 26 more)	⊕⊕⊕O MODERATE	CRITICAL
Major r	eurological d	lisability — s	ingleton pregnan	cy subgroup								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	80/1163 (6.9%)	67/1158 (5.8%)	RR 1.17 (0.87 to 1.59)	10 more per 1000 (from 8 fewer to 34 more)	⊕⊕⊕O MODERATE	CRITICAL
Major r	eurological d	lisability — n	nultiple pregnanc	y subgroup								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	18/264 (6.8%)	24/263 (9.1%)	RR 0.77 (0.44 to 1.37)	21 fewer per 1000 (from 51 fewer to 34 more)	⊕⊕⊕O MODERATE	CRITICAL

Wide confidence interval crossing the line of no effect.
 Statistical heterogeneity (l<sup>2</sup> > 60%).
 Wide confidence interval crossing the line of no effect and few events.

#### Table 3c. Magnesium sulfate for fetal neuroprotection in women at risk of preterm birth (gestational age at administration)

Source: Doyle LW, Crowther CA, Middleton P, Marret S, Rouse D. Magnesium sulphate for women at risk of preterm birth for neuroprotection of the fetus. Cochrane Database Syst Rev. 2009;(1):CD004661. (updated for this guideline)

			Quality assess	ment			No. of p	atients	E	Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium sulfate	No active treatment	Relative (95% Cl)	Absolute	Quality	Importance
Paediat	ric mortality (	(fetal mortality	and mortality of	occurring later	) — < 34 week	s of gestation at	randomization	1				
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	391/2573 (15.2%)	399/2619 (15.2%)	RR 0.98 (0.84 to 1.14)	3 fewer per 1000 (from 24 fewer to 21 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Paediat	ric mortality (	(fetal mortality	and mortality of	occurring later	) — < 30 week	s at randomizati	on					
2	randomized trials	no serious risk of bias	serious <sup>1</sup>	no serious indirectness	serious <sup>2</sup>	none	187/769 (24.3%)	196/768 (25.5%)	RR 0.97 (0.67 to 1.41)	8 fewer per 1000 (from 84 fewer to 105 more)	⊕⊕OO LOW	CRITICAL
Death o	or cerebral pal	sy — < 34 weel	ks at randomiza	tion				·				
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	492/2573 (19.1%)	547/2619 (20.9%)	RR 0.91 (0.80 to 1.03)	19 fewer per 1000 (from 42 fewer to 6 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or cerebral pal	sy — < 30 weel	ks at randomiza	tion								
2	randomized trials	no serious risk of bias	serious <sup>1</sup>	no serious indirectness	serious <sup>2</sup>	none	224/769 (29.1%)	239/768 (31.1%)	RR 0.97 (0.69 to 1.38)	9 fewer per 1000 (from 96 fewer to 118 more)	⊕⊕OO LOW	CRITICAL
Death o	or neurologica	l impairment —	< 34 weeks at	randomization	l							
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	452/1033 (43.8%)	459/1027 (44.7%)	RR 0.98 (0.89 to 1.08)	9 fewer per 1000 (from 49 fewer to 36 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or neurologica	l impairment —	< 30 weeks at	randomization								
2	randomized trials	no serious risk of bias	serious <sup>1</sup>	no serious indirectness	no serious imprecision	none	383/769 (49.8%)	386/768 (50.3%)	RR 1.03 (0.86 to 1.24)	15 more per 1000 (from 70 fewer to 121 more)	⊕⊕⊕O MODERATE	CRITICAL
Death o	or major neuro	logical disabili	ty — < 34 week	s at randomiza	tion			·				
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	347/1033 (33.6%)	350/1027 (34.1%)	RR 0.99 (0.88 to 1.11)	3 fewer per 1000 (from 41 fewer to 37 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or major neuro	logical disabili	ty — < 30 week	s at randomiza	tion							
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	278/769 (36.2%)	277/768 (36.1%)	RR 1.04 (0.86 to 1.24)	14 more per 1000 (from 50 fewer to 87 more)	⊕⊕⊕⊕ HIGH	CRITICAL

			Quality assess	sment			No. of p	oatients	I	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium sulfate	No active treatment	Relative (95% CI)	Absolute	Quality	Importance
Cerebra	al palsy — < 34	4 weeks at rand	domization									
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	101/2573 (3.9%)	149/2619 (5.7%)	RR 0.69 (0.54 to 0.88)	18 fewer per 1000 (from 7 fewer to 26 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Cerebra	al palsy — < 30	) weeks at rand	domization									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	37/769 (4.8%)	43/768 (5.6%)	RR 0.86 (0.56 to 1.31)	8 fewer per 1000 (from 25 fewer to 17 more)	⊕⊕⊕O MODERATE	CRITICAL
Neurolo	ogical impairm	nent — < 34 we	eks at randomi	zation								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	198/1033 (19.2%)	194/1027 (18.9%)	RR 1.02 (0.86 to 1.20)	4 more per 1000 (from 26 fewer to 38 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Neurolo	ogical impairm	nent — < 30 we	eks at randomi	zation		,			L		,	
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	196/769 (25.5%)	190/768 (24.7%)	RR 1.03 (0.87 to 1.21)	7 more per 1000 (from 32 fewer to 52 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Major n	eurological di	sability — < 34	weeks at rand	omization								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	93/1033 (9.0%)	85/1027 (8.3%)	RR 1.09 (0.83 to 1.43)	7 more per 1000 (from 14 fewer to 36 more)	⊕⊕⊕O MODERATE	CRITICAL
Major n	eurological di	sability — < 30	) weeks at rand	omization								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	91/769 (11.8%)	81/768 (10.5%)	RR 1.12 (0.85 to 1.48)	13 more per 1000 (from 16 fewer to 51 more)	⊕⊕⊕O MODERATE	CRITICAL

Statistical heterogeneity (l<sup>2</sup> > 60%).
 Wide confidence interval crossing the line of no effect.

# Table 3d. Magnesium sulfate for fetal neuroprotection in women at risk of preterm birth (intention to prevent preterm-birth related neurological complications

Source: Doyle LW, Crowther CA, Middleton P, Marret S, Rouse D. Magnesium sulphate for women at risk of preterm birth for neuroprotection of the fetus. Cochrane Database Syst Rev. 2009;(1):CD004661. (updated for this guideline)

			Quality ass	essment			No. of p	atients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium sulfate	No active treatment	Relative (95% CI)	Absolute	Quality	Importance
Paediat	tric mortality	(fetal morta	ality and mortali	ty occurring la	ter) — neuropr	otective intent						
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	226/2199 (10.3%)	242/2247 (10.8%)	RR 0.95 (0.80 to 1.12)	5 fewer per 1000 (from 22 fewer to 13 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Paediat	tric mortality	(fetal morta	ality and mortali	ty occurring la	ter) — other in	tent (maternal no	europrotective	— pre-eclamp	osia)			
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	209/798 (26.2%)	188/795 (23.6%)	RR 1.11 (0.93 to 1.31)	26 more per 1000 (from 17 fewer to 73 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal de	eath — neuro	protective in	ntent		`							
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	17/2199 (0.8%)	22/2247 (1.0%)	RR 0.78 (0.42 to 1.46)	2 fewer per 1000 (from 6 fewer to 5 more)	⊕⊕⊕O MODERATE	CRITICAL
Fetal de	eath — other	intent (mate	ernal neuroprote	ective — pre-ec	lampsia)						,	
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	111/798 (13.9%)	111/795 (14.0%)	RR 1.00 (0.78 to 1.27)	0 fewer per 1000 (from 31 fewer to 38 more)	⊕⊕⊕O MODERATE	CRITICAL
Deaths	among live-	borns — to la	test age of follo	w-up — neuro	protective inte	nt						
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	209/2199 (9.5%)	220/2247 (9.8%)	RR 0.96 (0.77 to 1.18)	4 fewer per 1000 (from 23 fewer to 18 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Deaths	s among live-	borns — to la	atest age of follo	ow-up — other	intent (matern	al neuroprotecti	ve — pre-eclan	npsia)				
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	98/798 (12.3%)	77/795 (9.7%)	RR 1.27 (0.96 to 1.68)	26 more per 1000 (from 4 fewer to 66 more)	⊕⊕⊕O MODERATE	CRITICAL
Deaths	among live-	borns — duri	ng primary hosp	pitalization — r	europrotectiv	e intent						
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	187/2169 (8.6%)	195/2218 (8.8%)	RR 0.97 (0.76 to 1.23)	3 fewer per 1000 (from 21 fewer to 20 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality ass	essment			No. of p	atients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium sulfate	No active treatment	Relative (95% Cl)	Absolute	Quality	Importance
Deaths	among live-	borns — duri	ng primary hosp	oitalization — o	other intent (m	aternal neuropro	tective — pre-	eclampsia)	·			
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	80/798 (10.0%)	63/795 (7.9%)	RR 1.27 (0.92 to 1.73)	21 more per 1000 (from 6 fewer to 58 more)	⊕⊕⊕O MODERATE	CRITICAL
Death o	or cerebral pa	alsy — neuro	protective inten	t						÷		
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	328/2199 (14.9%)	387/2247 (17.2%)	RR 0.85 (0.74 to 0.98)	26 fewer per 1000 (from 3 fewer to 45 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or cerebral pa	alsy — other	intent (materna	l neuroprotect	ive — pre-ecla	mpsia)						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	211/798 (26.4%)	193/795 (24.3%)	RR 1.09 (0.92 to 1.29)	22 more per 1000 (from 19 fewer to 70 more)	⊕⊕⊕O MODERATE	CRITICAL
Death o	or any neurol	ogical impair	ment — neurop	rotective inten	t							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	280/629 (44.5%)	294/626 (47.0%)	RR 0.95 (0.84 to 1.07)	23 fewer per 1000 (from 75 fewer to 33 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or any neurol	ogical impair	ment — other in	ntent (materna	l neuroprotect	ive — pre-eclam	psia)					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	219/798 (27.4%)	201/795 (25.3%)	RR 1.09 (0.92 to 1.28)	23 more per 1000 (from 20 fewer to 71 more)	⊕⊕⊕O MODERATE	CRITICAL
Death o	or substantia	l gross moto	r dysfunction —	neuroprotecti	ve intent							
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	280/2169 (12.9%)	335/2218 (15.1%)	RR 0.84 (0.71 to 1.00)	24 fewer per 1000 (from 44 fewer to 0 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or substantia	l gross moto	r dysfunction —	other intent (r	naternal neuro	protective — pre	e-eclampsia)					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	210/798 (26.3%)	188/795 (23.6%)	RR 1.11 (0.94 to 1.32)	26 more per 1000 (from 14 fewer to 76 more)	⊕⊕⊕O MODERATE	CRITICAL
Death o	or major neui	rological disa	bility — neurop	rotective inten	t							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	176/629 (28.0%)	185/626 (29.6%)	RR 0.95 (0.80 to 1.13)	15 fewer per 1000 (from 59 fewer to 38 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or major neu	rological disa	bility — other ir	ntent (materna	l neuroprotect	ive — pre-eclamı	psia)					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	218/798 (27.3%)	201/795 (25.3%)	RR 1.08 (0.92 to 1.27)	20 more per 1000 (from 20 fewer to 68 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality ass	essment			No. of p	atients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium sulfate	No active treatment	Relative (95% Cl)	Absolute	Quality	Importance
Develo	pmental dela	y or intellect	tual impairment	— neuroprote	ctive intent							
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	639/2169 (29.5%)	660/2218 (29.8%)	RR 1.00 (0.91 to 1.09)	0 fewer per 1000 (from 27 fewer to 27 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Develo	pmental dela	y or intellect	tual impairment	— other intent	(maternal neu	roprotective — p	ore-eclampsia)		·			
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	8/798 (1.0%)	10/795 (1.3%)	RR 0.80 (0.32 to 2.01)	3 fewer per 1000 (from 9 fewer to 13 more)	⊕⊕OO LOW	CRITICAL
Major r	neurological	disability — ı	neuroprotective	intent								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	89/629 (14.1%)	78/626 (12.5%)	RR 1.14 (0.86 to 1.51)	17 more per 1000 (from 17 fewer to 64 more)	⊕⊕⊕O MODERATE	CRITICAL
Major r	neurological	disability — o	other intent (ma	ternal neurop	otective — pre	-eclampsia)						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	9/798 (1.1%)	13/795 (1.6%)	RR 0.69 (0.30 to 1.6)	5 fewer per 1000 (from 11 fewer to 10 more)	⊕⊕OO LOW	CRITICAL
Cerebra	al palsy — ne	uroprotectiv	e intent: mild ce	erebral palsy						1		
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	54/2169 (2.5%)	74/2218 (3.3%)	RR 0.74 (0.52 to 1.04)	9 fewer per 1000 (from 16 fewer to 1 more)	⊕⊕⊕O MODERATE	CRITICAL
Cerebra	al palsy — ne	uroprotectiv	e intent: moder	ate cerebral pa	lsy	^	·					
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	14/981 (1.4%)	21/962 (2.2%)	RR 0.66 (0.34 to 1.28)	7 fewer per 1000 (from 14 fewer to 6 more)	⊕⊕⊕O MODERATE	CRITICAL
Cerebra	al palsy — ne	uroprotectiv	e intent: moder	ate/severe cer	ebral palsy				,		,	
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	45/2169 (2.1%)	72/2218 (3.2%)	RR 0.64 (0.44 to 0.92)	12 fewer per 1000 (from 3 fewer to 18 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Cerebra	al palsy — ne	uroprotectiv	e intent: severe	cerebral palsy	,							
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	11/981 (1.1%)	13/962 (1.4%)	RR 0.82 (0.37 to 1.82)	2 fewer per 1000 (from 9 fewer to 11 more)	⊕⊕OO LOW	CRITICAL
Cerebra	al palsy — ot	her intent (m	naternal neuropi	rotective — pre	e-eclampsia)							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	2/798 (0.3%)	5/795 (0.6%)	RR 0.40 (0.08 to 2.05)	4 fewer per 1000 (from 6 fewer to 7 more)	⊕⊕OO LOW	CRITICAL
			Quality ass	essment			No. of p	atients	Ef	fect		
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No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Magnesium sulfate	No active treatment	Relative (95% CI)	Absolute	Quality	Importance
Any ne	urological im	pairment —	neuroprotective	intent								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	193/629 (30.7%)	187/626 (29.9%)	RR 1.03 (0.87 to 1.21)	9 more per 1000 (from 39 fewer to 63 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Any ne	urological im	pairment —	other intent (ma	aternal neurop	rotective — pre	e-eclampsia)						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	10/798 (1.3%)	13/795 (1.6%)	RR 0.77 (0.34 to 1.74)	4 fewer per 1000 (from 11 fewer to 12 more)	⊕⊕OO LOW	CRITICAL
Substa	ntial gross m	otor dysfunc	tion — neuropro	otective intent								
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	56/2169 (2.6%)	94/2218 (4.2%)	RR 0.60 (0.43 to 0.83)	17 fewer per 1000 (from 7 fewer to 24 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Substa	ntial gross m	otor dysfunc	tion — other int	ent (maternal	neuroprotectiv	e — pre-eclamps	sia)					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	1/798 (0.1%)	0/795 (0.0%)	RR 2.99 (0.12 to 73.26)	_	⊕⊕OO LOW	CRITICAL
Deafne	ss — neurop	rotective inte	ent									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	8/981 (0.8%)	11/962 (1.1%)	RR 0.51 (0.05 to 4.96)	6 fewer per 1000 (from 11 fewer to 45 more)	⊕⊕OO LOW	CRITICAL
Deafne	ss — other ir	tent (materr	nal neuroprotec	tive — pre-ecla	mpsia)							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	1/798 (0.1%)	1/795 (0.1%)	RR 1.00 (0.06 to 15.90)	0 fewer per 1000 (from 1 fewer to 19 more)	⊕⊕OO LOW	CRITICAL
Blindne	ess — neurop	rotective int	ent									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	2/981 (0.2%)	2/962 (0.2%)	RR 0.97 (0.14 to 6.9)	0 fewer per 1000 (from 2 fewer to 12 more)	⊕⊕OO LOW	CRITICAL
Blindne	ess — other i	ntent (mater	nal neuroprotec	tive — pre-ecla	ampsia)							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	1/798 (0.1%)	2/795 (0.3%)	RR 0.50 (0.05 to 5.48)	1 fewer per 1000 (from 2 fewer to 11 more)	⊕⊕OO LOW	CRITICAL

Wide confidence interval crossing the line of no effect.
 Wide confidence interval crossing the line of no effect and few events.

### Table 3e. Magnesium sulfate for fetal neuroprotection in women at risk of preterm birth (retreatment)

Source: Doyle LW, Crowther CA, Middleton P, Marret S, Rouse D. Magnesium sulphate for women at risk of preterm birth for neuroprotection of the fetus. Cochrane Database Syst Rev. 2009;(1):CD004661. (updated for this guideline)

			Quality as	sessment			No. of p	oatients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Retreatment	No retreatment	Relative (95% CI)	Absolute	Quality	Importance
Paediat	tric mortality	(fetal morta	lity and mortali	ty occurring late	er)							
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	433/2967 (14.6%)	429/3013 (14.2%)	RR 1.00 (0.84 to 1.18)	0 fewer per 1000 (from 23 fewer to 26 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Paediat	tric mortality	(fetal morta	lity and mortali	ty occurring late	er) — retreatme	ent permitted						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	103/1188 (8.7%)	96/1256 (7.6%)	RR 1.13 (0.87 to 1.48)	10 more per 1000 (from 10 fewer to 37 more)	⊕⊕⊕O MODERATE	CRITICAL
Paediat	tric mortality	(fetal morta	lity and mortali	ty occurring late	er) — retreatme	ent not permitted						
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	330/1779 (18.5%)	333/1757 (19.0%)	RR 0.95 (0.75 to 1.19)	9 fewer per 1000 (from 47 fewer to 36 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or cerebral pa	alsy										
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	534/2967 (18.0%)	579/3013 (19.2%)	RR 0.92 (0.79 to 1.06)	15 fewer per 1000 (from 40 fewer to 12 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or cerebral pa	alsy — retrea	tment permitte	4								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	144/1188 (12.1%)	170/1256 (13.5%)	RR 0.90 (0.73 to 1.10)	14 fewer per 1000 (from 37 fewer to 14 more)	⊕⊕⊕O MODERATE	CRITICAL
Death o	or cerebral pa	alsy — retrea	tment not perm	itted						1		
3	randomized trials	no serious risk of bias	serious <sup>2</sup>	no serious indirectness	serious <sup>1</sup>	none	390/1779 (21.9%)	409/1757 (23.3%)	RR 0.91 (0.74 to 1.13)	21 fewer per 1000 (from 61 fewer to 30 more)	⊕⊕OO LOW	CRITICAL
Death o	or neurologic	al impairmen	it							,		
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	499/1427 (35.0%)	495/1421 (34.8%)	RR 1.00 (0.91 to 1.11)	0 fewer per 1000 (from 31 fewer to 38 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or neurologic	al impairmen	it — retreatmen	t not permitted								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	499/1427 (35.0%)	495/1421 (34.8%)	RR 1.00 (0.91 to 1.11)	0 fewer per 1000 (from 31 fewer to 38 more)	⊕⊕⊕⊕ HIGH	CRITICAL

			Quality as	sessment			No. of p	oatients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Retreatment	No retreatment	Relative (95% CI)	Absolute	Quality	Importance
Death o	or major neur	ological disa	bility									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	394/1427 (27.6%)	386/1421 (27.2%)	RR 1.02 (0.90 to 1.15)	5 more per 1000 (from 27 fewer to 41 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Death o	or major neur	ological disa	bility — retreatı	nent not permit	ted							
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	394/1427 (27.6%)	386/1421 (27.2%)	RR 1.02 (0.90 to 1.15)	5 more per 1000 (from 27 fewer to 41 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Major r	neurological o	disability										
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	98/1427 (6.9%)	91/1421 (6.4%)	RR 1.07 (0.82 to 1.40)	4 more per 1000 (from 12 fewer to 26 more)	⊕⊕⊕O MODERATE	CRITICAL
Major r	neurological o	disability — r	etreatment not	permitted								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	98/1427 (6.9%)	91/1421 (6.4%)	RR 1.07 (0.82 to 1.40)	4 more per 1000 (from 12 fewer to 26 more)	⊕⊕⊕O MODERATE	CRITICAL
Neurol	ogic impairm	ent				1						
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	203/1427 (14.2%)	200/1421 (14.1%)	RR 1.01 (0.86 to 1.19)	1 more per 1000 (from 20 fewer to 27 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Neurol	ogic impairm	ent — retrea	tment not permi	tted			1					
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	203/1427 (14.2%)	200/1421 (14.1%)	RR 1.01 (0.86 to 1.19)	1 more per 1000 (from 20 fewer to 27 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Cerebra	al palsy					1		'		1		
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	101/2967 (3.4%)	151/3013 (5.0%)	RR 0.68 (0.53 to 0.87)	16 fewer per 1000 (from 7 fewer to 24 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Cerebra	al palsy — re	treatment pe	rmitted									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	41/1188 (3.5%)	74/1256 (5.9%)	RR 0.59 (0.40 to 0.85)	24 fewer per 1000 (from 9 fewer to 35 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL

			Quality ass	sessment			No. of p	atients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Retreatment	No retreatment	Relative (95% CI)	Absolute	Quality	Importance
Cerebra	al palsy — re	treatment no	t permitted									
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	60/1779 (3.4%)	77/1757 (4.4%)	RR 0.76 (0.55 to 1.06)	11 fewer per 1000 (from 20 fewer to 3 more)	⊕⊕⊕O MODERATE	CRITICAL

Wide confidence interval crossing the line of no effect.
 Statistical heterogeneity (l<sup>2</sup> > 60%).

### Table 4a. Antibiotic prophylaxis for women at risk of preterm birth and with intact membranes (any antibiotics)

Source: Flenady V, Hawley G, Stock OM, Kenyon S, Badawi N. Prophylactic antibiotics for inhibiting preterm labour with intact membranes. Cochrane Database Syst Rev. 2013;(12):CD000246.

			Quality ass	essment			No. of p	oatients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Any antibiotic	No antibiotics	Relative (95% CI)	Absolute	Quality	Importance
Birth <	36 or < 37 w	eeks of gesta	tion									
10	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	1973/5251 (37.6%)	871/2136 (40.8%)	RR 0.98 (0.92 to 1.05)	8 fewer per 1000 (from 33 fewer to 20 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Birth w	ithin 48 hou	rs of randomi	zation									
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	509/4959 (10.3%)	183/1841 (9.9%)	RR 1.04 (0.89 to 1.23)	4 more per 1000 (from 11 fewer to 23 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Birth w	ithin 7 days o	of randomiza	tion									
8	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	817/5091 (16.0%)	342/1962 (17.4%)	RR 0.98 (0.87 to 1.10)	3 fewer per 1000 (from 23 fewer to 17 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Interva	l between ra	ndomization	and birth (days)	(better indicate	ed by higher va	lues)						
6	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	1773	726	—	MD 5.59 higher (0.31 to 10.87 higher)	⊕⊕⊕O MODERATE	CRITICAL
Gestati	ional age at b	oirth (better i	ndicated by high	ner values)								
10	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	495	491	_	MD 0.53 higher (0 to 1.06 higher)	⊕⊕⊕O MODERATE	CRITICAL
Matern	al infection					-			1			
10	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	458/5246 (8.7%)	236/2125 (11.1%)	RR 0.74 (0.63 to 0.86)	29 fewer per 1000 (from 16 fewer to 41 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Matern	al adverse d	rug reaction I	requiring cessat	ion of treatmen	t							
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	54/313 (17.3%)	41/313 (13.1%)	RR 1.32 (0.92 to 1.89)	42 more per 1000 (from 10 fewer to 117 more)	⊕⊕⊕O MODERATE	CRITICAL
Perinat	al mortality											
10	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	141/5213 (2.7%)	43/2091 (2.1%)	RR 1.22 (0.88 to 1.69)	5 more per 1000 (from 2 fewer to 14 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality ass	essment			No. of p	oatients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Any antibiotic	No antibiotics	Relative (95% CI)	Absolute	Quality	Importance
Stillbir	th											
8	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	39/5105 (0.8%)	19/1975 (1.0%)	RR 0.73 (0.43 to 1.26)	3 fewer per 1000 (from 5 fewer to 3 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al death											
9	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	101/5183 (1.9%)	24/2065 (1.2%)	RR 1.57 (1.03 to 2.40)	7 more per 1000 (from 0 more to 16 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Infant o	leath (>28 d	ays)										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	78/3508 (2.2%)	24/1146 (2.1%)	RR 1.06 (0.68 to 1.67)	1 more per 1000 (from 7 fewer to 14 more)	⊕⊕⊕O MODERATE	CRITICAL
Respira	atory distress	s syndrome	1		-				1		,	
9	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	463/5159 (9%)	197/2041 (9.7%)	RR 0.99 (0.84 to 1.16)	1 fewer per 1000 (from 15 fewer to 15 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Necrot	izing enteroc	olitis							1		'	
6	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	62/5004 (1.2%)	25/1876 (1.3%)	RR 1.06 (0.64 to 1.73)	1 more per 1000 (from 5 fewer to 10 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al sepsis				-			1				
10	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	127/5252 (2.4%)	76/2134 (3.6%)	RR 0.86 (0.64 to 1.16)	5 fewer per 1000 (from 13 fewer to 6 more)	⊕⊕⊕O MODERATE	CRITICAL
Intrave	ntricular hae	morrhage	1						1		,	
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	59/4968 (1.2%)	30/1845 (1.6%)	RR 0.76 (0.48 to 1.19)	4 fewer per 1000 (from 8 fewer to 3 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al mechanica	al ventilation										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	371/4685 (7.9%)	121/1556 (7.8%)	RR 1.02 (0.84 to 1.24)	2 more per 1000 (from 12 fewer to 19 more)	⊕⊕⊕⊕ HIGH	CRITICAL

			Quality ass	essment			No. of p	oatients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Any antibiotic	No antibiotics	Relative (95% CI)	Absolute	Quality	Importance
Birth w	eight < 2500	) g										
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	1438/4882 (29.5%)	524/1746 (30.0%)	RR 0.97 (0.81 to 1.15)	9 fewer per 1000 (from 57 fewer to 45 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Birth w	eight (better	r indicated by	higher values)									
12	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	5327	2204	_	MD 58.38 higher (26.24 lower to 143 higher)	⊕⊕⊕O MODERATE	CRITICAL
Admiss	sion to neona	tal intensive	or special care r	nursery								
5	randomized trials	no serious risk of bias	serious <sup>2</sup>	no serious indirectness	serious <sup>1</sup>	none	1301/4992 (26.1%)	493/1883 (26.2%)	RR 0.82 (0.62 to 1.10)	47 fewer per 1000 (from 99 fewer to 26 more)	⊕⊕OO LOW	CRITICAL
Modera	ate/severe fu	Inctional imp	airment at 7 yea	irs of age		Ì						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	417/2317 (18.0%)	124/735 (16.9%)	RR 1.07 (0.89 to 1.28)	12 more per 1000 (from 19 fewer to 47 more)	⊕⊕⊕O MODERATE	CRITICAL
Chronic	c neonatal lu	ng disease										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	102/4685 (2.2%)	29/1556 (1.9%)	RR 1.17 (0.78 to 1.76)	3 more per 1000 (from 4 fewer to 14 more)	⊕⊕⊕O MODERATE	CRITICAL
Cerebra	al palsy at 7 y	years of age							,	·		<u>.</u>
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	68/2403 (2.8%)	12/770 (1.6%)	RR 1.82 (0.99 to 3.34)	13 more per 1000 (from 0 fewer to 36 more)	⊕⊕⊕O MODERATE	CRITICAL
Any fur	nctional impa	nirment at 7 y	ears of age									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	957/2317 (41.3%)	275/735 (37.4%)	RR 1.10 (0.99 to 1.23)	37 more per 1000 (from 4 fewer to 86 more)	⊕⊕⊕⊕ HIGH	CRITICAL

Wide confidence interval crossing the line of no effect.
 Statistical heterogeneity (l<sup>2</sup> > 60%).

### Table 4b. Antibiotic prophylaxis for women at risk of preterm birth and with intact membranes (antibiotic regimen)

Source: Flenady V, Hawley G, Stock OM, Kenyon S, Badawi N. Prophylactic antibiotics for inhibiting preterm labour with intact membranes. Cochrane Database Syst Rev. 2013;(12):CD000246.

			Quality asse	essment			No. of pa	tients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	A particular type of antibiotic	Placebo or no treatment	Relative (95% Cl)	Absolute	Quality	Importance
Birth <	36 or < 37 we	eks of gesta	tion — betalact	am antibiotics a	alone	·	·					
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	643/1721 (37.4%)	288/709 (40.6%)	RR 0.99 (0.89 to 1.10)	4 fewer per 1000 (from 45 fewer to 41 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Birth <	36 or < 37 we	eks — macro	olide antibiotics	alone								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	622/1658 (37.5%)	223/577 (38.6%)	RR 1.02 (0.91 to 1.15)	8 more per 1000 (from 35 fewer to 58 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Birth <	36 or < 37 we	eks — macro	olide and betala	ctam antibiotic	S							
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	683/1813 (37.7%)	326/800 (40.8%)	RR 0.99 (0.89 to 1.10)	4 fewer per 1000 (from 45 fewer to 41 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Birth <	36 or < 37 we	eks — antibi	iotics active aga	inst anaerobic	bacteria							
2	randomized trials	no serious risk of bias	serious <sup>1</sup>	no serious indirectness	serious <sup>2</sup>	none	63/117 (53.8%)	70/109 (64.2%)	RR 0.83 (0.53 to 1.30)	109 fewer per 1000 (from 302 fewer to 193 more)	⊕⊕OO LOW	CRITICAL
Birth w	ithin 48 hour	s of randomi	zation — betala	ctam antibiotic	s alone		• •					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	152/1534 (9.9%)	51/519 (9.8%)	RR 1.01 (0.75 to 1.36)	1 more per 1000 (from 25 fewer to 35 more)	⊕⊕⊕O MODERATE	CRITICAL
Birth w	ithin 48 hour	s of randomi	zation — macro	lide antibiotics	alone							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	166/1600 (10.4%)	51/519 (9.8%)	RR 1.06 (0.78 to 1.42)	6 more per 1000 (from 22 fewer to 41 more)	⊕⊕⊕O MODERATE	CRITICAL
Birth w	ithin 48 hour	s of randomi	zation — macro	lide and betala	ctam antibioti	cs						
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	192/1767 (10.9%)	74/753 (9.8%)	RR 1.12 (0.86 to 1.45)	12 more per 1000 (from 14 fewer to 44 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality asse	ssment			No. of pa	tients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	A particular type of antibiotic	Placebo or no treatment	Relative (95% CI)	Absolute	Quality	Importance
Birth w	ithin 48 hour	s of randomi	zation — antibio	otics active aga	inst anaerobio	bacteria						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	5/58 (8.6%)	8/51 (15.7%)	RR 0.55 (0.19 to 1.57)	71 fewer per 1000 (from 127 fewer to 89 more)	⊕⊕OO LOW	CRITICAL
Interva	l between rar	ndomization	and birth (days)	) — betalactam	antibiotics alo	one (better indic	ated by higher val	ues)				
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	1534	519	_	MD 0.09 lower (2.96 lower to 2.78 higher)	⊕⊕⊕O MODERATE	CRITICAL
Interva	l between rar	ndomization	and birth (days)	) — macrolide a	intibiotics alon	e (better indica	ted by higher value	es)				
3	randomized trials	no serious risk of bias	very serious <sup>4</sup>	no serious indirectness	serious <sup>2</sup>	none	1691	611	_	MD 4.26 higher (2.88 lower to 11.41 higher)	⊕OOO VERY LOW	CRITICAL
Interva	l between rar	ndomization	and birth (days)	) — macrolide a	nd betalactam	antibiotics (be	tter indicated by h	igher values)				
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	1629	592	_	MD 0.27 lower (2.95 lower to 2.41 higher)	⊕⊕⊕O MODERATE	CRITICAL
Interva	l between rar	ndomization	and birth (days)	) — antibiotics	active against	anaerobic bacte	ria (better indicat	ed by higher va	lues)	•		
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	154	139	_	MD 10.5 higher (4.95 to 16.06 higher)	⊕⊕⊕⊕ HIGH	CRITICAL
Matern	al infection –	– betalactam	antibiotics alo	ne	,						,	
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	146/1696 (8.6%)	76/689 (11.0%)	RR 0.74 (0.56 to 0.97)	29 fewer per 1000 (from 3 fewer to 49 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Matern	al infection -	– macrolide a	antibiotics alone	e								
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	157/1653 (9.5%)	64/569 (11.2%)	RR 0.82 (0.62 to 1.08)	20 fewer per 1000 (from 43 fewer to 9 more)	⊕⊕⊕O MODERATE	CRITICAL
Matern	al infection –	– macrolide a	and betalactam	antibiotics								
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	165/1790 (9.2%)	97/773 (12.5%)	RR 0.79 (0.64 to 0.98)	26 fewer per 1000 (from 3 fewer to 45 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL

			Quality asse	essment			No. of pa	tients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	A particular type of antibiotic	Placebo or no treatment	Relative (95% Cl)	Absolute	Quality	Importance
Matern	al infection –	- antibiotics	active against a	naerobic bacte	eria	·				·		
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	5/155 (3.2%)	6/139 (4.3%)	RR 0.66 (0.11 to 3.92)	15 fewer per 1000 (from 38 fewer to 126 more)	⊕⊕OO LOW	CRITICAL
Matern	al adverse dr	ug reaction r	requiring cessat	ion of treatme	nt — betalacta	m antibiotics alo	one					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>5</sup>	none	1/40 (2.5%)	0/42 (0.0%)	RR 3.15 (0.13 to 75.05)	_	⊕⊕OO LOW	CRITICAL
Matern	al adverse dr	ug reaction r	requiring cessat	ion of treatme	nt — macrolide	e antibiotics alor	le					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>5</sup>	none	15/53 (28.3%)	16/50 (32.0%)	RR 0.88 (0.49 to 1.59)	38 fewer per 1000 (from 163 fewer to 189 more)	⊕⊕OO LOW	CRITICAL
Matern	al adverse dr	ug reaction r	requiring cessat	ion of treatme	nt — macrolide	e and betalactan	antibiotics					
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	34/161 (21.1%)	24/170 (14.1%)	RR 1.49 (0.93 to 2.40)	69 more per 1000 (from 10 fewer to 198 more)	⊕⊕⊕O MODERATE	CRITICAL
Matern	al adverse dr	ug reaction r	requiring cessat	ion of treatme	nt — antibiotic	s active against	anaerobic bacteria	a				
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	19/112 (17.0%)	17/101 (16.8%)	RR 1.04 (0.59 to 1.83)	7 more per 1000 (from 69 fewer to 140 more)	⊕⊕⊕O MODERATE	CRITICAL
Perinat	al mortality -	– betalactan	n antibiotics alo	ne								
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	42/1668 (2.5%)	14/655 (2.1%)	RR 1.13 (0.64 to 2.01)	3 more per 1000 (from 8 fewer to 22 more)	⊕⊕⊕O MODERATE	CRITICAL
Perinat	al mortality -	– macrolide	antibiotics alon	e			•					
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	45/1653 (2.7%)	13/569 (2.3%)	RR 1.17 (0.64 to 2.11)	4 more per 1000 (from 8 fewer to 25 more)	⊕⊕⊕O MODERATE	CRITICAL
Perinat	al mortality -	– macrolide	and betalactam	antibiotics								
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	52/1790 (2.9%)	14/779 (1.8%)	RR 1.39 (0.79 to 2.43)	7 more per 1000 (from 4 fewer to 26 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality asse	ssment			No. of pa	tients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	A particular type of antibiotic	Placebo or no treatment	Relative (95% Cl)	Absolute	Quality	Importance
Perinat	al mortality -	- antibiotics	active against a	anaerobic bact	eria					·		
3	randomized trials	serious <sup>6</sup>	no serious inconsistency	no serious indirectness	very serious	none	4/155 (2.6%)	2/139 (1.4%)	RR 1.63 (0.36 to 7.39)	9 more per 1000 (from 9 fewer to 92 more)	⊕OOO VERY LOW	CRITICAL
Stillbirt	th — betalact	am antibioti	cs alone								1	
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	16/1668 (1.0%)	7/655 (1.1%)	RR 0.91 (0.39 to 2.14)	1 fewer per 1000 (from 7 fewer to 12 more)	⊕⊕OO LOW	CRITICAL
Stillbirt	th — macrolic	le antibiotics	s alone									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	10/1653 (0.6%)	6/569 (1.1%)	RR 0.54 (0.20 to 1.48)	5 fewer per 1000 (from 8 fewer to 5 more)	⊕⊕OO LOW	CRITICAL
Stillbirt	th — macrolic	le and betala	actam antibiotic	S						• •		
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>7</sup>	none	13/1684 (0.8%)	6/663 (0.9%)	RR 0.73 (0.28 to 1.90)	2 fewer per 1000 (from 7 fewer to 8 more)	⊕⊕OO LOW	CRITICAL
Stillbirt	th — antibioti	ics active aga	ainst anaerobic	bacteria								
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>8</sup>	none	0/155 (0.0%)	0/139 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Neonat	al death — be	etalactam an	tibiotics alone				1					
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	26/1668 (1.6%)	7/655 (1.1%)	RR 1.32 (0.61 to 2.86)	3 more per 1000 (from 4 fewer to 20 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al death — m	acrolide anti	ibiotics alone									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	35/1653 (2.1%)	7/569 (1.2%)	RR 1.68 (0.77 to 3.64)	8 more per 1000 (from 3 fewer to 32 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al death — m	acrolide and	betalactam ant	ibiotics								
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	38/1760 (2.2%)	8/753 (1.1%)	RR 1.83 (0.88 to 3.82)	9 more per 1000 (from 1 fewer to 30 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al death — ai	ntibiotics act	ive against ana	erobic bacteria								
3	randomized trials	serious <sup>6</sup>	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	4/155 (2.6%)	2/139 (1.4%)	RR 1.63 (0.36 to 7.39)	9 more per 1000 (from 9 fewer to 92 more)	⊕OOO VERY LOW	CRITICAL

			Quality asse	essment			No. of pa	tients	E	ifect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	A particular type of antibiotic	Placebo or no treatment	Relative (95% Cl)	Absolute	Quality	Importance
Infant o	death (>28 da	ays) — betala	actam antibiotic	s alone		·						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	17/1133 (1.5%)	8/382 (2.1%)	RR 0.72 (0.31 to 1.65)	6 fewer per 1000 (from 14 fewer to 14 more)	⊕⊕⊕O MODERATE	CRITICAL
Infant o	death (>28 da	ays) — macro	olide antibiotics	alone						·		
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	29/1204 (2.4%)	8/382 (2.1%)	RR 1.15 (0.53 to 2.49)	3 more per 1000 (from 10 fewer to 31 more)	⊕⊕⊕O MODERATE	CRITICAL
Infant o	death (>28 da	ays) — macro	lide and betala	ctam antibiotic	S							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	32/1171 (2.7%)	8/382 (2.1%)	RR 1.30 (0.61 to 2.81)	6 more per 1000 (from 8 fewer to 38 more)	⊕⊕⊕O MODERATE	CRITICAL
Respira	atory distress	syndrome -	- betalactam an	tibiotics alone								
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	142/1628 (8.7%)	154/1650 (9.3%)	RR 0.93 (0.75 to 1.16)	7 fewer per 1000 (from 23 fewer to 15 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Respira	atory distress	syndrome -	- macrolide anti	ibiotics alone								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	133/1600 (8.3%)	138/1556 (8.9%)	RR 0.94 (0.75 to 1.18)	5 fewer per 1000 (from 22 fewer to 16 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Respira	atory distress	syndrome -	- macrolide and	betalactam an	tibiotics	·			·	·		
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	153/1682 (9.1%)	149/1700 (8.8%)	RR 1.04 (0.84 to 1.29)	4 more per 1000 (from 14 fewer to 25 more)	⊕⊕⊕O MODERATE	CRITICAL
Respira	atory distress	syndrome –	- antibiotics act	ive against ana	erobic bacteri	а						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	2/58 (3.4%)	3/51 (5.9%)	RR 0.59 (0.10 to 3.37)	24 fewer per 1000 (from 53 fewer to 139 more)	⊕⊕OO LOW	CRITICAL
Necroti	izing enteroco	olitis — beta	lactam antibioti	ics alone								
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	20/1621 (1.2%)	6/606 (1.0%)	RR 1.31 (0.52 to 3.32)	3 more per 1000 (from 5 fewer to 23 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality asse	ssment			No. of pa	tients	Et	ifect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	A particular type of antibiotic	Placebo or no treatment	Relative (95% Cl)	Absolute	Quality	Importance
Necroti	zing enteroco	olitis — macı	rolide antibiotic	s alone								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	16/1600 (1.0%)	4/519 (0.8%)	RR 1.30 (0.44 to 3.86)	2 more per 1000 (from 4 fewer to 22 more)	⊕⊕⊕O MODERATE	CRITICAL
Necroti	zing enteroco	olitis — macı	rolide and betala	actam antibioti	cs					·		
2	randomized trials	serious <sup>9</sup>	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	26/1682 (1.5%)	9/663 (1.4%)	RR 1.36 (0.60 to 3.11)	5 more per 1000 (from 5 fewer to 29 more)	⊕⊕OO LOW	CRITICAL
Necroti	zing enteroco	olitis — antib	piotics active ag	ainst anaerobio	bacteria							
2	randomized trials	serious <sup>9</sup>	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	0/101 (0.0%)	6/89 (6.7%)	RR 0.13 (0.02 to 1.01)	59 fewer per 1000 (from 66 fewer to 1 more)	⊕000 VERY LOW	CRITICAL
Intrave	ntricular haeı	morrhage —	betalactam ant	ibiotics alone								
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	19/1628 (1.2%)	9/613 (1.5%)	RR 0.84 (0.38 to 1.87)	2 fewer per 1000 (from 9 fewer to 13 more)	⊕⊕⊕O MODERATE	CRITICAL
Intrave	ntricular haeı	morrhage —	macrolide antib	iotics alone								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	18/1600 (1.1%)	7/519 (1.3%)	RR 0.83 (0.35 to 1.99)	2 fewer per 1000 (from 9 fewer to 13 more)	⊕⊕⊕O MODERATE	CRITICAL
Intrave	ntricular haei	morrhage —	macrolide and b	oetalactam anti	biotics							
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	21/1682 (1.2%)	8/663 (1.2%)	RR 0.97 (0.43 to 2.19)	0 fewer per 1000 (from 7 fewer to 14 more)	⊕⊕⊕O MODERATE	CRITICAL
Intrave	ntricular haeı	morrhage —	antibiotics activ	ve against anae	robic bacteria							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>3</sup>	none	1/58 (1.7%)	5/51 (9.8%)	RR 0.18 (0.02 to 1.46)	80 fewer per 1000 (from 96 fewer to 45 more)	⊕⊕OO LOW	CRITICAL
Modera	te/severe fu	nctional imp	airment at 7 yea	ars of age — be	talactam antib	iotics alone						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	131/763 (17.2%)	41/245 (16.7%)	RR 1.03 (0.75 to 1.41)	5 more per 1000 (from 42 fewer to 69 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality asse	essment			No. of pa	tients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	A particular type of antibiotic	Placebo or no treatment	Relative (95% CI)	Absolute	Quality	Importance
Modera	nte/severe fu	nctional imp	airment at 7 yea	ars of age — ma	crolide antibio	otics alone				·		
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	142/785 (18.1%)	41/245 (16.7%)	RR 1.08 (0.79 to 1.48)	13 more per 1000 (from 35 fewer to 80 more)	⊕⊕⊕O MODERATE	CRITICAL
Modera	te/severe fu	nctional imp	airment at 7 yea	ars of age. — ma	acrolide and b	etalactam antibi	iotics					
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	144/769 (18.7%)	41/245 (16.7%)	RR 1.12 (0.82 to 1.53)	20 more per 1000 (from 30 fewer to 89 more)	⊕⊕⊕O MODERATE	CRITICAL
Cerebra	al palsy at 7 y	ears of age -	– betalactam ar	ntibiotics alone								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	15/792 (1.9%)	4/257 (1.6%)	RR 1.22 (0.41 to 3.63)	3 more per 1000 (from 9 fewer to 41 more)	⊕⊕⊕O MODERATE	CRITICAL
Cerebra	al palsy at 7 y	ears of age -	– macrolide ant	ibiotics alone								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	18/816 (2.2%)	4/257 (1.6%)	RR 1.42 (0.48 to 4.15)	7 more per 1000 (from 8 fewer to 49 more)	⊕⊕⊕O MODERATE	CRITICAL
Cerebra	al palsy at 7 y	ears of age -	– macrolide and	l betalactam an	tibiotics							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	35/795 (4.4%)	4/257 (1.6%)	RR 2.83 (1.02 to 7.88)	28 more per 1000 (from 0 more to 107 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Any fur	ictional impa	irment at 7 y	ears of age — b	etalactam antik	piotics alone					` 		
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	299/763 (39.2%)	92/245 (37.6%)	RR 1.04 (0.87 to 1.25)	15 more per 1000 (from 49 fewer to 94 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Any fur	nctional impai	irment at 7 y	ears of age — m	nacrolide antibi	otics alone							
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	333/785 (42.4%)	92/245 (37.6%)	RR 1.13 (0.94 to 1.35)	49 more per 1000 (from 23 fewer to 131 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality asse	ssment			No. of pa	tients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	A particular type of antibiotic	Placebo or no treatment	Relative (95% CI)	Absolute	Quality	Importance
Any fun	nctional impa	irment at 7 y	ears of age — m	acrolide and be	etalactam anti	biotics						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	325/769 (42.3%)	92/245 (37.6%)	RR 1.13 (0.94 to 1.35)	49 more per 1000 (from 23 fewer to 131 more)	⊕⊕⊕O MODERATE	CRITICAL

1 Statistical heterogeneity ( $I^2 > 60\%$ ).

Statistical neterogeneity (1° > 60%).
 Wide confidence interval crossing the line of no effect.
 Wide confidence interval crossing the line of no effect, few events and small sample size.
 Statistical heterogeneity (1° > 60%). Variation in size and direction of effect.
 Wide confidence interval crossing the line of no effect and small sample size.
 One study with design limitations contributed 80% of the weight.
 Wide confidence interval crossing the line of no effect and few events.

8 No events.

9 One study with design limitations contributed > 40% of the weight.

# Table 5a. Antibiotic prophylaxis for women at risk of preterm birth and ruptured membranes

			Quality asses	ssment			No. of p	atients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Any antibiotic	Placebo	Relative (95% Cl)	Absolute	Quality	Importance
Birth <	37 weeks of ge	estation										
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	3104/3642 (85.2%)	1102/1289 (85.5%)	RR 1.00 (0.98 to 1.03)	0 fewer per 1000 (from 17 fewer to 26 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Matern	al death											
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	0/369 (0.0%)	0/394 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Chorioa	amnionitis				`							` 
11	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	126/767 (16.4%)	196/792 (24.7%)	RR 0.66 (0.46 to 0.96)	84 fewer per 1000 (from 10 fewer to 134 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Major a	dverse drug re	eaction								• •		·
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	0/3913 (0.0%)	0/1574 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Birth w	ithin 48 hours	of randomiza	tion							·	·	
7	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	1296/4128 (31.4%)	717/1799 (39.9%)	RR 0.71 (0.58 to 0.87)	116 fewer per 1000 (from 52 fewer to 167 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Birth w	ithin 7 days of	randomizatio	n	<u> </u>	1	1	1	1	1		<u></u>	<u> </u>
7	randomized trials	no serious risk of bias	serious <sup>2</sup>	no serious indirectness	no serious imprecision	none	2388/4145 (57.6%)	1221/1820 (67.1%)	RR 0.79 (0.71 to 0.89)	141 fewer per 1000 (from 74 fewer to 195 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Perinat	al death/deat	h before disch	arge (all studies	: placebo and no	o treatment)					·		
18	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	299/4604 (6.5%)	172/2268 (7.6%)	RR 0.89 (0.74 to 1.08)	8 fewer per 1000 (from 20 fewer to 6 more)	⊕⊕⊕O MODERATE	CRITICAL
Perinat	al death/deat	h before disch	arge (sensitivity	/ analysis: place	bo-controlled	trials only)						
12	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	276/4315 (6.4%)	138/1986 (6.9%)	RR 0.93 (0.76 to 1.14)	5 fewer per 1000 (from 17 fewer to 10 more)	⊕⊕⊕O MODERATE	CRITICAL

Source: Kenyon S, Boulvain M, Neilson JP. Antibiotics for preterm rupture of membranes. Cochrane Database Syst Rev. 2013;(12):CD001058.

			Quality asses	sment			No. of p	atients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Any antibiotic	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Neonat	al necrotizing	enterocolitis										
11	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	100/4273 (2.3%)	58/1956 (3.0%)	RR 1.09 (0.65 to 1.83)	3 more per 1000 (from 10 fewer to 25 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al respiratory	distress synd	rome									
12	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	965/4303 (22.4%)	551/1984 (27.8%)	RR 0.95 (0.83 to 1.09)	14 fewer per 1000 (from 47 fewer to 25 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Treatm	ent with surfa	ctant										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	526/3584 (14.7%)	217/1225 (17.7%)	RR 0.83 (0.72 to 0.96)	30 fewer per 1000 (from 7 fewer to 50 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Neonat	al encephalop	athy										
1	randomized trials	serious <sup>4</sup>	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	0/30 (0.0%)	0/30 (0.0%)	not pooled	not pooled	⊕OOO VERY LOW	CRITICAL
Positive	e neonatal blo	od culture										
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	234/3654 (6.4%)	104/1307 (8.0%)	RR 0.79 (0.63 to 0.99)	17 fewer per 1000 (from 1 fewer to 29 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Neonat	al infection in	cluding pneum	ionia									
12	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	85/823 (10.3%)	141/857 (16.5%)	RR 0.67 (0.52 to 0.85)	54 fewer per 1000 (from 25 fewer to 79 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Major c	erebral abnor	mality on ultra	sound before di	scharge								
12	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	240/4303 (5.6%)	184/1986 (9.3%)	RR 0.81 (0.68 to 0.98)	18 fewer per 1000 (from 2 fewer to 30 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Birth w	eight < 2500 g	ş										
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	2605/3614 (72.1%)	911/1262 (72.2%)	RR 1.00 (0.96 to 1.04)	0 fewer per 1000 (from 29 fewer to 29 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Birth w	eight (better i	ndicated by hi	gher values)									
12	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	4355	2019	_	MD 53.83 higher (7.06 to 100.6 higher)	⊕⊕⊕⊕ HIGH	CRITICAL

			Quality asses	ssment			No. of p	atients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Any antibiotic	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Serious	childhood dis	ability at 7 yea	ars of age									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	938/2375 (39.5%)	311/796 (39.1%)	RR 1.01 (0.91 to 1.12)	4 more per 1000 (from 35 fewer to 47 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Days in	neonatal inter	nsive care unit	(NICU) (better	indicated by lov	ver values)							
3	randomized trials	serious⁵	no serious inconsistency	no serious indirectness	serious <sup>6</sup>	none	110	115	—	MD 5.05 lower (9.77 to 0.33 lower)	⊕⊕OO LOW	CRITICAL
Admiss	ion to NICU											
4	randomized trials	no serious risk of bias	serious <sup>2</sup>	no serious indirectness	no serious imprecision	none	2583/3687 (70.1%)	975/1336 (73%)	RR 0.98 (0.84 to 1.13)	15 fewer per 1000 (from 117 fewer to 95 more)	⊕⊕⊕O MODERATE	CRITICAL
Numbe	r of newborns	requiring vent	tilation									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	757/3641 (20.8%)	292/1283 (22.8%)	RR 0.90 (0.80 to 1.02)	23 fewer per 1000 (from 46 fewer to 5 more)	⊕⊕⊕⊕ HIGH	CRITICAL

1 No events.

Statistical heterogeneity (I<sup>2</sup> > 60%).
 Statistical heterogeneity (I<sup>2</sup> > 60%).
 Wide confidence interval crossing the line of no effect.
 One study with design limitations.
 Half the weight from a study with design limitations.
 Estimate based on small sample size.

# Table 5b. Antibiotic prophylaxis for women at risk of preterm birth and ruptured membranes (antibiotic regimens)

			Quality asse	essment			No. of pat	tients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Antibiotic prophylaxis	Placebo	Relative (95% Cl)	Absolute	Quality	Importance
Matern	al death: sub	group analysi	s by type of antil	piotic — all peni	cillin (excluding	g co-amoxiclav)						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious	none	0/40 (0.0%)	0/45 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Matern	al death: sub	group analysi	s by type of antil	piotic — other a	ntibiotic							
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	0/329 (0.0%)	0/349 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Perinat	al death/deat	th before disc	harge: subgroup	analysis by typ	e of antibiotic (	placebo-controll	ed trials only) -	– all penici	llin (excluding o	co-amoxiclav)		
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	7/165 (4.2%)	10/167 (6.0%)	RR 0.73 (0.30 to 1.80)	16 fewer per 1000 (from 42 fewer to 48 more)	⊕⊕OO LOW	CRITICAL
Perinat	al death/deat	th before disc	harge: subgroup	analysis by typ	e of antibiotic (	placebo-controll	ed trials only) -	– betalacta	am (including co	o-amoxiclav)		` 
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	80/1236 (6.5%)	46/644 (7.1%)	RR 0.91 (0.64 to 1.30)	6 fewer per 1000 (from 26 fewer to 21 more)	⊕⊕⊕O MODERATE	CRITICAL
Perinat	al death/deat	th before disc	harge: subgroup	analysis by typ	e of antibiotic (	placebo-controll	ed trials only) -	– macrolid	e (including ery	vthromycin)		
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	84/1354 (6.2%)	56/784 (7.1%)	RR 0.90 (0.65 to 1.25)	7 fewer per 1000 (from 25 fewer to 18 more)	⊕⊕⊕O MODERATE	CRITICAL
Perinat	al death/deat	th before disc	harge: subgroup	analysis by typ	e of antibiotic (	placebo-controll	ed trials only) -	- other ant	ibiotic			
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	28/371 (7.5%)	26/391 (6.6%)	RR 1.13 (0.68 to 1.88)	9 more per 1000 (from 21 fewer to 59 more)	⊕⊕⊕O MODERATE	CRITICAL
Necroti	izing enteroco	olitis: subgrou	ıp analysis by tyj	pe of antibiotic -	— all penicillin	(excluding co-am	oxiclav)					
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	5/124 (4.0%)	6/138 (4.3%)	RR 0.85 (0.25 to 2.97)	7 fewer per 1000 (from 33 fewer to 86 more)	⊕⊕OO LOW	CRITICAL
Necroti	izing enteroco	olitis: subgrou	ıp analysis by tyj	pe of antibiotic -	— betalactam (	including co-amo	xiclav)					
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	29/1236 (2.3%)	3/644 (0.5%)	RR 4.72 (1.57 to 14.23)	17 more per 1000 (from 3 more to 62 more)	⊕⊕⊕⊕ HIGH	CRITICAL

Source: Kenyon S, Boulvain M, Neilson JP. Antibiotics for preterm rupture of membranes. Cochrane Database Syst Rev. 2013;(12):CD001058.

			Quality asse	essment			No. of pat	tients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Antibiotic prophylaxis	Placebo	Relative (95% Cl)	Absolute	Quality	Importance
Necroti	izing enteroco	olitis: subgrou	ıp analysis by typ	pe of antibiotic -	– macrolide (in	cluding erythron	nycin)					
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	21/1322 (1.6%)	19/754 (2.5%)	RR 0.88 (0.45 to 1.69)	3 fewer per 1000 (from 14 fewer to 17 more)	⊕⊕⊕O MODERATE	CRITICAL
Necroti	izing enteroco	olitis: subgrou	ıp analysis by typ	oe of antibiotic -	– other antibio	tic						
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	25/402 (6.2%)	30/421 (7.1%)	RR 0.89 (0.54 to 1.47)	8 fewer per 1000 (from 33 fewer to 33 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al infection in	cluding pneu	monia: subgroup	analysis by typ	e of antibiotic ·	— all penicillin (e	xcluding co-am	oxiclav)				
5	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	6/258 (2.3%)	25/263 (9.5%)	RR 0.30 (0.13 to 0.68)	67 fewer per 1000 (from 30 fewer to 83 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Neonat	al infection in	cluding pneu	monia: subgroup	analysis by typ	e of antibiotic ·	— betalactam (in	cluding co-amo	xiclav)				
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/31 (0.0%)	1/31 (3.2%)	RR 0.33 (0.01 to 7.88)	22 fewer per 1000 (from 32 fewer to 222 more)	⊕⊕OO LOW	CRITICAL
Neonat	al infection in	cluding pneu	monia: subgroup	analysis by typ	e of antibiotic ·	– macrolide (incl	uding erythron	nycin)				
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	19/163 (11.7%)	25/171 (14.6%)	RR 0.79 (0.45 to 1.37)	31 fewer per 1000 (from 80 fewer to 54 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al infection in	cluding pneu	monia: subgroup	analysis by typ	e of antibiotic ·	- other antibiotio	C			·		
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	60/371 (16.2%)	90/392 (23.0%)	RR 0.71 (0.53 to 0.95)	67 fewer per 1000 (from 11 fewer to 108 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Major c	erebral abno	rmality on ult	rasound before d	lischarge: subgr	oup analysis by	y type of antibioti	ic — all penicilli	in (excludir	ng co-amoxicla	v)		
3	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	10/124 (8.1%)	23/138 (16.7%)	RR 0.49 (0.25 to 0.96)	85 fewer per 1000 (from 7 fewer to 125 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Major c	erebral abno	rmality on ult	rasound before d	lischarge: subgr	oup analysis by	y type of antibioti	ic — betalactan	n (including	g co-amoxiclav	)		
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	53/1236 (4.3%)	39/644 (6.1%)	RR 0.78 (0.52 to 1.16)	13 fewer per 1000 (from 29 fewer to 10 more)	⊕⊕⊕O MODERATE	CRITICAL

			Quality asse	essment			No. of pat	ients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Antibiotic prophylaxis	Placebo	Relative (95% CI)	Absolute	Quality	Importance
Major o	erebral abno	rmality on ult	rasound before d	lischarge: subgr	oup analysis b	y type of antibiot	ic — macrolide	(including o	erythromycin)			
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	68/1352 (5.0%)	47/784 (6.0%)	RR 0.93 (0.60 to 1.44)	4 fewer per 1000 (from 24 fewer to 26 more)	⊕⊕⊕O MODERATE	CRITICAL
Major o	erebral abno	rmality on ult	rasound before d	lischarge: subgr	oup analysis b	y type of antibiot	ic — other antib	iotic				
4	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	63/402 (15.7%)	76/421 (18.1%)	RR 0.85 (0.45 to 1.64)	27 fewer per 1000 (from 99 fewer to 116 more)	⊕⊕⊕O MODERATE	CRITICAL

1 No events.

Wide confidence interval crossing the line of no effect and few events.
 Wide confidence interval crossing the line of no effect.
 Wide confidence interval crossing the line of no effect, few events and small sample size.

## Table 5c. Antibiotic prophylaxis for women at risk of preterm birth and ruptured membranes (erythromycin versus co-amoxiclav)

			Quality ass	essment			No. of p	atients	E	Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Erythromycin	Co-amoxiclav	Relative (95% Cl)	Absolute	Quality	Importance
Birth <	37 weeks of a	gestation										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	1006/1190 (84.5%)	1025/1205 (85.1%)	RR 0.99 (0.96 to 1.03)	9 fewer per 1000 (from 34 fewer to 26 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Major a	dverse drug	reaction										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	0/1190 (0.0%)	0/1205 (0.0%)	not pooled	not pooled	⊕⊕OO LOW	CRITICAL
Birth w	ithin 48 hour	s of randomi	zation									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	414/1190 (34.8%)	367/1205 (30.5%)	RR 1.14 (1.02 to 1.28)	43 more per 1000 (from 6 more to 85 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Birth w	ithin 7 days o	of randomiza	tion									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	725/1190 (60.9%)	695/1205 (57.7%)	RR 1.06 (0.99 to 1.13)	35 more per 1000 (from 6 fewer to 75 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Perinat	al death/dea	th before dis	charge									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	70/1190 (5.9%)	79/1205 (6.6%)	RR 0.90 (0.66 to 1.23)	7 fewer per 1000 (from 22 fewer to 15 more)	⊕⊕⊕O MODERATE	CRITICAL
Neonat	al necrotizing	g enterocolit	is									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	11/1190 (0.9%)	24/1205 (2.0%)	RR 0.46 (0.23 to 0.94)	11 fewer per 1000 (from 1 fewer to 15 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Neonat	al respirator	y distress sy	ndrome							·		
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	236/1190 (19.8%)	241/1205 (20.0%)	RR 0.99 (0.84 to 1.16)	2 fewer per 1000 (from 32 fewer to 32 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Treatm	ent with surf	actant										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	176/1190 (14.8%)	182/1205 (15.1%)	RR 0.98 (0.81 to 1.19)	3 fewer per 1000 (from 29 fewer to 29 more)	⊕⊕⊕⊕ HIGH	CRITICAL

Source: Kenyon S, Boulvain M, Neilson JP. Antibiotics for preterm rupture of membranes. Cochrane Database Syst Rev. 2013;(12):CD001058.

			Quality ass	essment			No. of p	atients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Erythromycin	Co-amoxiclav	Relative (95% CI)	Absolute	Quality	Importance
Positiv	e neonatal bl	ood culture										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	68/1190 (5.7%)	82/1205 (6.8%)	RR 0.84 (0.62 to 1.15)	11 fewer per 1000 (from 26 fewer to 10 more)	⊕⊕⊕O MODERATE	CRITICAL
Major o	erebral abno	rmality on u	ltrasound befor	e discharge								
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	50/1190 (4.2%)	46/1205 (3.8%)	RR 1.10 (0.74 to 1.63)	4 more per 1000 (from 10 fewer to 24 more)	⊕⊕⊕O MODERATE	CRITICAL
Birth w	eight < 2500	g										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	863/1190 (72.5%)	877/1205 (72.8%)	RR 1.00 (0.95 to 1.05)	0 fewer per 1000 (from 36 fewer to 36 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Birth w	eight (better	indicated by	higher values)			·						
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>2</sup>	none	1190	1205	_	MD 19 higher (41.92 lower to 79.92 higher)	⊕⊕⊕O MODERATE	CRITICAL
Serious	childhood di	sability at 7	years of age									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	293/788 (37.2%)	344/824 (41.7%)	RR 0.89 (0.79 to 1.01)	46 fewer per 1000 (from 88 fewer to 4 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Neonat	al intensive o	are										
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	836/1190 (70.3%)	848/1205 (70.4%)	RR 1.00 (0.95 to 1.05)	0 fewer per 1000 (from 35 fewer to 35 more)	⊕⊕⊕⊕ HIGH	CRITICAL
Numbe	r of newborn	s requiring v	entilation									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	no serious imprecision	none	251/1190 (21.1%)	254/1205 (21.1%)	RR 1 .00 (0.86 to 1.17)	0 fewer per 1000 (from 30 fewer to 36 more)	⊕⊕⊕⊕ HIGH	CRITICAL

No events.
 Wide confidence interval crossing the line of no effect.

### Table 5d. Antibiotic prophylaxis for women at risk of preterm birth and ruptured membranes (3-day versus 7-day ampicillin regimens)

			Quality asses	sment			No. of p	atients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	3-day ampicillin regimen	7-day ampicillin regimen	Relative (95% CI)	Absolute	Quality	Importance
Chorioa	amnionitis											
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	8/42 (19.0%)	11/42 (26.2%)	RR 0.73 (0.33 to 1.63)	71 fewer per 1000 (from 175 fewer to 165 more)	⊕⊕OO LOW	CRITICAL
Birth w	ithin 48 hour	s of randomizat	ion									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	8/42 (19.0%)	7/42 (16.7%)	RR 1.14 (0.46 to 2.87)	23 more per 1000 (from 90 fewer to 312 more)	⊕⊕OO LOW	CRITICAL
Birth w	vithin 7 days o	of randomization	1									
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	25/42 (59.5%)	25/42 (59.5%)	RR 1.00 (0.7 to 1.42)	0 fewer per 1000 (from 179 fewer to 250 more)	⊕⊕OO LOW	CRITICAL
Perinat	tal death/dea	th before discha	irge									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/65 (1.5%)	4/65 (6.2%)	RR 0.40 (0.05 to 2.94)	37 fewer per 1000 (from 58 fewer to 119 more)	⊕⊕OO LOW	CRITICAL
Neonat	tal necrotizing	g enterocolitis										
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	1/65 (1.5%)	3/65 (4.6%)	RR 0.43 (0.07 to 2.86)	26 fewer per 1000 (from 43 fewer to 86 more)	⊕⊕OO LOW	CRITICAL
Neonat	tal respiratory	y distress syndr	ome									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>2</sup>	none	24/65 (36.9%)	25/65 (38.5%)	RR 0.96 (0.62 to 1.49)	15 fewer per 1000 (from 146 fewer to 188 more)	⊕⊕OO LOW	CRITICAL
Neonat	tal intraventri	icular haemorrh	age									
2	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	very serious <sup>1</sup>	none	0/65 (0.0%)	2/65 (3.1%)	RR 0.33 (0.04 to 3.12)	21 fewer per 1000 (from 30 fewer to 65 more)	⊕⊕OO LOW	CRITICAL

Source: Kenyon S, Boulvain M, Neilson JP. Antibiotics for preterm rupture of membranes. Cochrane Database Syst Rev. 2013;(12):CD001058.

			Quality asses	sment			No. of p	atients	E	ffect			
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	3-day ampicillin regimen	7-day ampicillin regimen	Relative (95% CI)	Absolute	Quality	Importance	
Neonat	onatal intensive care												
1	randomized trials	no serious risk of bias	no serious inconsistency	no serious indirectness	serious <sup>3</sup>	none	36/42 (85.7%)	36/42 (85.7%)	RR 1.00 (0.84 to 1.19)	0 fewer per 1000 (from 137 fewer to 163 more)	⊕⊕⊕O MODERATE	CRITICAL	

Wide confidence interval crossing the line of no effect, few events and small sample size.
 Wide confidence interval crossing the line of no effect and small sample size.
 Estimate based on small sample size.

# Table 6a. Mode of delivery for women at risk of preterm birth

Source: Alfirevic Z, Milan SJ, Livio S. Caesarean section versus vaginal delivery for preterm birth in singletons. Cochrane Database Syst Rev. 2013;(9):CD000078.

			Quality asse	essment			No. of p	atients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Caesarean section	Vaginal delivery	Relative (95% CI)	Absolute	Quality	Importance
Major r	naternal pos	tpartum com	plications			·						
4	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	7/58 (12.1%)	0/58 (0.0%)	RR 7.21 (1.37 to 38.08)	-	⊕⊕OO LOW	CRITICAL
Major r	naternal pos	tpartum com	plications — bre	eech			` 					
3	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	7/35 (20.0%)	0/43 (0.0%)	RR 7.21 (1.37 to 38.08)	-	⊕⊕OO LOW	CRITICAL
Major r	naternal pos	tpartum com	plications — cep	phalic								
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/23 (0.0%)	0/15 (0.0%)	not pooled	not pooled	⊕OOO VERY LOW	CRITICAL
Matern	al puerperal	pyrexia										
3	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	11/46 (23.9%)	4/43 (9.3%)	RR 2.98 (1.18 to 7.53)	184 more per 1000 (from 17 more to 607 more)	⊕⊕OO LOW	CRITICAL
Matern	al puerperal	pyrexia — br	eech	1	]	<u> </u>	1		,		1	<u>.</u>
2	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	11/23 (47.8%)	4/28 (14.3%)	RR 2.98 (1.18 to 7.53)	283 more per 1000 (from 26 more to 933 more)	⊕⊕OO LOW	CRITICAL
Matern	al puerperal	pyrexia — ce	phalic							,		
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/23 (0.0%)	0/15 (0.0%)	not pooled	not pooled	⊕OOO VERY LOW	CRITICAL
Matern	al wound inf	ection										
3	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	1/53 (1.9%)	1/50 (2.0%)	RR 1.16 (0.18 to 7.70)	3 more per 1000 (from 16 fewer to 134 more)	⊕OOO VERY LOW	CRITICAL
Matern	nal wound inf	ection — bre	ech	` 								
2	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	1/30 (3.3%)	1/35 (2.9%)	RR 1.16 (0.18 to 7.70)	5 more per 1000 (from 23 fewer to 191 more)	⊕OOO VERY LOW	CRITICAL
Matern	al wound inf	ection — cep	halic						·			
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/23 (0.0%)	0/15 (0.0%)	not pooled	not pooled	⊕OOO VERY LOW	CRITICAL

			Quality asse	essment			No. of p	oatients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Caesarean section	Vaginal delivery	Relative (95% CI)	Absolute	Quality	Importance
Other n	naternal infe	ction										
3	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	10/53 (18.9%)	4/50 (8.0%)	RR 2.63 (1.02 to 6.78)	130 more per 1000 (from 2 more to 462 more)	⊕⊕OO LOW	CRITICAL
Other n	naternal infe	ction — bree	ch									
2	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	serious <sup>1</sup>	none	10/30 (33.3%)	4/35 (11.4%)	RR 2.63 (1.02 to 6.78)	186 more per 1000 (from 2 more to 661 more)	⊕⊕OO LOW	CRITICAL
Other n	naternal infe	ction — ceph	alic									
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/23 (0.0%)	0/15 (0.0%)	not pooled	not pooled	⊕OOO VERY LOW	CRITICAL
Cord pr	olapse											
4	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	0/58 (0.0%)	4/58 (6.9%)	RR 0.25 (0.03 to 1.92)	52 fewer per 1000 (from 67 fewer to 63 more)	⊕OOO VERY LOW	CRITICAL
Cord pr	olapse — bre	ech		L		1						<u> </u>
3	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	0/35 (0.0%)	4/43 (9.3%)	RR 0.25 (0.03 to 1.92)	70 fewer per 1000 (from 90 fewer to 86 more)	⊕OOO VERY LOW	CRITICAL
Cord pr	olapse — cep	ohalic										
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/23 (0.0%)	0/15 (0.0%)	not pooled	not pooled	⊕OOO VERY LOW	CRITICAL
Head e	ntrapment											
4	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/58 (0.0%)	0/58 (0.0%)	not pooled	not pooled	⊕OOO VERY LOW	CRITICAL
Head e	ntrapment —	breech						1		1		
3	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/35 (0.0%)	0/43 (0.0%)	not pooled	not pooled	⊕OOO VERY LOW	CRITICAL
Head e	ntrapment —	cephalic										
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>4</sup>	none	0/23 (0.0%)	0/15 (0.0%)	not pooled	not pooled	⊕OOO VERY LOW	CRITICAL
Deliver	y < 7 days af	ter entry — b	reech									
2	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious <sup>6</sup>	none	22/23 (95.7%)	28/28 (100.0%)	RR 0.95 (0.73 to 1.24)	50 fewer per 1000 (from 270 fewer to 240 more)	⊕OOO VERY LOW	CRITICAL

			Quality asse	essment			No. of p	atients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Caesarean section	Vaginal delivery	Relative (95% CI)	Absolute	Quality	Importance
Perinat	al death											
3	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	2/46 (4.3%)	8/43 (18.6%)	RR 0.29 (0.07 to 1.14)	132 fewer per 1000 (from 173 fewer to 26 more)	⊕OOO VERY LOW	CRITICAL
Perinat	al death — b	reech								·		
2	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	1/23 (4.3%)	6/28 (21.4%)	RR 0.28 (0.05 to 1.49)	154 fewer per 1000 (from 204 fewer to 105 more)	⊕OOO VERY LOW	CRITICAL
Perinat	al death — c	ephalic										
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	1/23 (4.3%)	2/15 (13.3%)	RR 0.33 (0.03 to 3.29)	89 fewer per 1000 (from 129 fewer to 305 more)	⊕OOO VERY LOW	CRITICAL
Birth as	sphyxia — br	eech										
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>6</sup>	none	5/5 (100.0%)	4/7 (57.1%)	RR 1.63 (0.84 to 3.14)	360 more per 1000 (from 91 fewer to 1000 more)	⊕OOO VERY LOW	CRITICAL
Neonat	al fitting/sei	zures — bree	ech									
3	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	0/35 (0.0%)	2/42 (4.8%)	RR 0.22 (0.01 to 4.32)	37 fewer per 1000 (from 47 fewer to 158 more)	⊕OOO VERY LOW	CRITICAL
Respira	ntory distress	syndrome			,							
3	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious <sup>6</sup>	none	9/53 (17.0%)	16/50 (32.0%)	RR 0.55 (0.27 to 1.10)	144 fewer per 1000 (from 234 fewer to 32 more)	⊕OOO VERY LOW	CRITICAL
Respira	ntory distress	s syndrome –	- breech									
2	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious <sup>6</sup>	none	6/30 (20.0%)	12/35 (34.3%)	RR 0.57 (0.25 to 1.30)	147 fewer per 1000 (from 257 fewer to 103 more)	⊕OOO VERY LOW	CRITICAL
Respira	ntory distress	s syndrome -	- cephalic							·		
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>6</sup>	none	3/23 (13.0%)	4/15 (26.7%)	RR 0.49 (0.13 to 1.88)	136 fewer per 1000 (from 232 fewer to 235 more)	⊕OOO VERY LOW	CRITICAL
Нурохі	c ischaemic e	ncephalopat	hy — breech									
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>5</sup>	none	1/5 (20.0%)	0/7 (0.0%)	RR 4.00 (0.20 to 82.01)	-	⊕OOO VERY LOW	CRITICAL

			Quality asse	essment			No. of p	atients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Caesarean section	Vaginal delivery	Relative (95% CI)	Absolute	Quality	Importance
Intracra	anial patholo	gy				·			·			
4	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	4/56 (7.1%)	4/54 (7.4%)	RR 0.92 (0.27 to 3.14)	6 fewer per 1000 (from 54 fewer to 159 more)	⊕OOO VERY LOW	CRITICAL
Birth in	jury to baby	— breech										
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	1/18 (5.6%)	2/20 (10.0%)	RR 0.56 (0.05 to 5.62)	44 fewer per 1000 (from 95 fewer to 462 more)	⊕OOO VERY LOW	CRITICAL
Intracra	anial patholo	g <mark>y — br</mark> eech										
3	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	1/33 (3.0%)	3/39 (7.7%)	RR 0.58 (0.12 to 2.86)	32 fewer per 1000 (from 68 fewer to 143 more)	⊕OOO VERY LOW	CRITICAL
Intracra	anial patholo	gy — cephali	c	` 	• •		• •					• •
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	3/23 (13.0%)	1/15 (6.7%)	RR 1.96 (0.22 to 17.1)	64 more per 1000 (from 52 fewer to 1000 more)	⊕OOO VERY LOW	CRITICAL
Necrot	izing enteroc	olitis — bree	ch						1	,		
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>5</sup>	none	2/5 (40.0%)	0/7 (0.0%)	RR 6.67 (0.39 to 114.78)	-	⊕OOO VERY LOW	CRITICAL
Neonat	al infection (	proven)										
3	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious <sup>6</sup>	none	4/53 (7.5%)	5/50 (10.0%)	RR 0.76 (0.12 to 4.66)	24 fewer per 1000 (from 88 fewer to 366 more)	⊕OOO VERY LOW	CRITICAL
Neonat	al infection (	proven) — b	reech									
2	randomized trials	serious <sup>2</sup>	no serious inconsistency	no serious indirectness	very serious⁵	none	3/30 (10.0%)	3/35 (8.6%)	RR 1.10 (0.07 to 17.74)	9 more per 1000 (from 80 fewer to 1000 more)	⊕OOO VERY LOW	CRITICAL
Neonat	al infection (	proven) — ce	ephalic									
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>6</sup>	none	1/23 (4.3%)	2/15 (13.3%)	RR 0.33 (0.03 to 3.29)	89 fewer per 1000 (from 129 fewer to 305 more)	⊕OOO VERY LOW	CRITICAL

			Quality asse	ssment			No. of p	atients		Effect				
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Caesarean section	Vaginal delivery	Relative (95% CI)	Absolute	Quality	Importance		
Ventila	tion (days) —	- breech (bet	ter indicated by	lower values)										
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>6</sup>	none	5	7	_	MD 18.26 higher (19.9 lower to 56.42 higher)	⊕OOO VERY LOW	CRITICAL		
Need fo	leed for mechanical ventilation — breech													
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>6</sup>	none	4/5 (80.0%)	3/7 (42.9%)	RR 1.87 (0.71 to 4.88)	373 more per 1000 (from 124 fewer to 1000 more)	⊕OOO VERY LOW	CRITICAL		
Suppler	nental oxyge	en (days) — b	oreech (better in	dicated by low	er values)					,				
1	randomized trials	serious <sup>3</sup>	no serious inconsistency	no serious indirectness	very serious <sup>6</sup>	none	5	7	_	MD 3.71 higher (20.85 lower to 28.27 higher)	⊕OOO VERY LOW	CRITICAL		

1 Estimate based on small sample size.

All studies contributing data had design limitations.
 One study with design limitations.

4 No events.

5 Wide confidence interval crossing the line of no effect, few events and small sample size.6 Wide confidence interval crossing the line of no effect and small sample size.

### Table 7a. Kangaroo mother care (KMC) versus conventional care for preterm newborns

Source: Conde-Agudelo A, Belizan JM, Diaz-Rossello J. Kangaroo mother care to reduce morbidity and mortality in low birthweight infants. Cochrane Database Syst Rev. 2011;(3):CD002771.

			Quality asses	sment			No. of	patients	E	ffect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	кмс	Conventional care	Relative (95% CI)	Absolute (95% Cl)	Quality	Importance
Overall	mortality at di	scharge or at	40—41 weeks	postmenstrual	age							
8	randomized trials	not serious	not serious	not serious	not serious	none	28/888 (3.2%)	45/848 (5.3%)	RR 0.60 (0.39 to 0.92)	21 fewer per 1000 (from 4 fewer to 32 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Mortali	ty at discharge	or at 40—41	l weeks postme	nstrual age for	studies in low	- and middle-inc	ome countrie	S				
7	randomized trials	not serious	not serious	not serious	not serious	none	26/855 (3.0%)	44/821 (5.4%)	RR 0.57 (0.37 to 0.89)	23 fewer per 1000 (from 6 fewer to 34 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Mortali	ty at discharge	or at 40—41	l weeks postme	nstrual age for	studies in hig	h-income countri	ies					
1	randomized trial	not serious	serious <sup>1</sup>	not serious	serious <sup>2</sup>	none	2/33 (6.1%)	1/27 (3.7%)	RR 1.64 (0.16 to 17.09)	24 more per 1000 (from 31 fewer to 596 more)	⊕⊕OO LOW	CRITICAL
Overall	mortality at la	test follow-u	р				,	,				
11	randomized trials	not serious	not serious	not serious	not serious	none	46/1088 (4.2%)	69/1079 (6.4%)	RR 0.67 (0.48 to 0.95)	21 fewer per 1000 (from 3 fewer to 33 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Overall	mortality at la	st follow-up f	for studies in lov	w- and middle-	income count	ries	,	,				
9	randomized trials	not serious	not serious	not serious	not serious	none	42/1020 (4.1%)	66/1016 (6.5%)	RR 0.65 (0.45 to 0.93)	23 fewer per 1000 (from 5 fewer to 36 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Overall	mortality at la	st follow-up f	for studies in hig	gh-income cou	ntries							
2	randomized trials	not serious	not serious	not serious	very serious <sup>3</sup>	none	4/68 (5.9%)	3/63 (4.8%)	RR 1.25 (0.29 to 5.42)	12 more per 1000 (from 34 fewer to 210 more)	⊕⊕OO LOW	CRITICAL
Severe	infection at las	t follow-up						,				
7	randomized trials	not serious	not serious	not serious	not serious	none	47/685 (6.9%)	80/658 (12.2%)	RR 0.56 (0.40 to 0.78)	53 fewer per 1000 (from 27 fewer to 73 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Nosoco	mial infection a	at discharge o	or at 40—41 we	eks postmenst	rual age							
3	randomized trials	not serious	not serious	not serious	not serious	none	19/469 (4.1%)	40/444 (9.0%)	RR 0.45 (0.27 to 0.76)	50 fewer per 1000 (from 22 fewer to 66 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL

			Quality asses	sment			No. of	patients	Ef	ifect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	кмс	Conventional care	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Hypoth	ermia											
6	randomized trials	not serious	not serious	not serious	not serious	none	32/354 (9.0%)	95/344 (27.6%)	RR 0.34 (0.17 to 0.67)	182 fewer per 1000 (from 91 fewer to 229 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Hypert	hermia											
4	randomized trials	not serious	not serious	not serious	serious <sup>1</sup>	none	52/228 (22.8%)	64/220 (29.1%)	RR 0.79 (0.59 to 1.05)	61 fewer per 1000 (from 15 more to 119 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Readmi	ssion to hospit	al at latest fo	ollow-up									
2	randomized trials	not serious	not serious	not serious	serious <sup>1</sup>	none	18/474 (3.8%)	30/472 (6.4%)	RR 0.60 (0.34 to 1.06)	25 fewer per 1000 (from 4 more to 42 fewer)	⊕⊕⊕O MODERATE	CRITICAL

Only one study conducted, hence consistency could not be assessed.
 Wide confidence intervals for the outcome.
 Very wide confidence intervals because of very few events.

### Table 7b. Continuous Kangaroo mother care (KMC) versus conventional care for preterm newborns

Source: Conde-Agudelo A, Belizan JM, Diaz-Rossello J. Kangaroo mother care to reduce morbidity and mortality in low birthweight infants. Cochrane Database Syst Rev. 2011;(3):CD002771.

			Quality asses	sment			No. of	patients		Effect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Continuous KMC	Conventional care	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Overall	mortality at d	ischarge or a	nt 40—41 week	s postmenstrı	ial age							
3	randomized trials	not serious	not serious	not serious	not serious	none	23/575 (4.0%)	37/542 (6.8%)	RR 0.60 (0.38 to 0.96)	27 fewer per 1000 (from 3 fewer to 42 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Overall	mortality at la	atest follow-	up									
4	randomized trials	not serious	not serious	not serious	not serious	none	39/692 (5.6%)	59/692 (8.5%)	RR 0.67 (0.46 to 0.98)	28 fewer per 1000 (from 2 fewer to 46 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Severe	infection at la	test follow-u	p									
1	randomized trials	not serious	serious <sup>1</sup>	not serious	serious <sup>2</sup>	none	26/343 (7.6%)	35/320 (10.9%)	RR 0.69 (0.43 to 1.12)	34 fewer per 1000 (from 13 more to 62 fewer)	⊕⊕OO LOW	CRITICAL
Nosoco	mial infection	at discharge	or at 40—41 w	eeks postmen	istrual age							
1	randomized trials	not serious	serious <sup>1</sup>	not serious	not serious	none	13/343 (3.8%)	25/320 (7.8%)	RR 0.49 (0.25 to 0.93)	40 fewer per 1000 (from 5 fewer to 59 fewer)	⊕⊕⊕O MODERATE	CRITICAL

1 Only one trial, hence consistency could not be assessed.

2 Wide confidence intervals crossing the line of no effect.

### Table 7c. Intermittent Kangaroo mother care (KMC) versus conventional care for preterm newborns

Source: Conde-Agudelo A, Belizan JM, Diaz-Rossello J. Kangaroo mother care to reduce morbidity and mortality in low birthweight infants. Cochrane Database Syst Rev. 2011;(3):CD002771.

			Quality asses	sment			No. of	patients		Effect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Intermittent KMC	Conventional care	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Overall	mortality at d	ischarge or a	t 40—41 weeks	s postmenstru	al age							
5	randomized trials	not serious	not serious	not serious	serious <sup>1</sup>	none	5/313 (1.6%)	8/306 (2.6%)	RR 0.59 (0.19 to 1.81)	11 fewer per 1000 (from 21 fewer to 21 more)	⊕⊕⊕O MODERATE	CRITICAL
Overall	mortality at la	test follow-ı	ab									
7	randomized trials	not serious	not serious	not serious	serious <sup>1</sup>	none	7/396 (1.8%)	10/387 (2.6%)	RR 0.68 (0.26 to 1.77)	8 fewer per 1000 (from 19 fewer to 20 more)	⊕⊕⊕O MODERATE	CRITICAL
Severe i	infection											
6	randomized trials	not serious	not serious	not serious	not serious	none	21/342 (6.1%)	45/338 (13.3%)	RR 0.45 (0.28 to 0.73)	73 fewer per 1000 (from 36 fewer to 96 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Nosoco	mial infection	at discharge	or at 40—41 w	eeks postmen	strual age							
2	randomized trials	not serious	not serious	not serious	not serious	none	6/124 (4.8%)	15/124 (12.1%)	RR 0.39 (0.16 to 0.96)	74 fewer per 1000 (from 5 fewer to 102 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Hypoth	ermia											
6	randomized trials	not serious	not serious	not serious	not serious	none	320/354 (90.4%)	95/344 (27.6%)	RR 0.34 (0.17 to 0.67)	182 fewer per 1000 (from 91 fewer to 229 fewer)	⊕⊕⊕⊕ HIGH	CRITICAL
Hyperth	hermia											
4	randomized trials	not serious	not serious	not serious	serious <sup>1</sup>	none	52/228 (22.8%)	64/220 (29.1%)	RR 0.79 (0.59 to 1.05)	61 fewer per 1000 (from 15 more to 119 fewer)	⊕⊕⊕O MODERATE	CRITICAL

1 Wide confidence intervals crossing the line of no effect and few events.

# Table 7d. Radiant warmers versus incubators for care of unstable or sick preterm newborns

Source: Flenady VJ, Woodgate PG. Radiant warmers versus incubators for regulating body temperature in newborn infants. Cochrane Database Syst Rev. 2003;(4):CD000435. (updated for this guideline)

			Quality	assessment			No. of	patients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Radiant warmer	Incubator	Relative (95% Cl)	Absolute	Quality	Importance
Neonat	al mortality											
2	randomized trials	no serious risk of bias¹	no serious inconsistency	serious <sup>2</sup>	very serious <sup>3,4</sup>	none	1/47 (2.1%)	5/47 (10.6%)	RR 0.27 (0.05 to 1.59)	78 fewer per 1000 (from 101 fewer to 63 more)	⊕OOO VERY LOW	CRITICAL
Culture	positive seps	is (assessed v	with positive blo	od culture)								
1	randomized trials	serious⁵	serious <sup>6</sup>	serious <sup>7</sup>	serious <sup>3</sup>	none	3/30 (10.0%)	5/30 (16.7%)	RR 0.60 (0.16 to 2.29)	67 fewer per 1000 (from 140 fewer to 215 more)	⊕OOO VERY LOW	CRITICAL
Bronch	opulmonary d	ysplasia										
1	randomized trials	very serious <sup>5,8</sup>	serious6	serious <sup>7</sup>	serious <sup>3</sup>	none	0/30 (0.0%)	2/30 (6.7%)	RR 0.20 (0.01 to 4.00)	53 fewer per 1000 (from 66 fewer to 200 more)	⊕OOO VERY LOW	CRITICAL
Severe	intraventricul	ar haemorrha	ge (IVH) (grade	3 or 4) (assess	ed by ultrasou	und )		'		1	·	
2	randomized trials	very serious <sup>9,10</sup>	no serious inconsistency	serious <sup>2</sup>	very serious <sup>3,4</sup>	none	0/45 (0.0%)	1/45 (2.2%)	RR 0.33 (0.01 to 7.87)	15 fewer per 1000 (from 22 fewer to 153 more)	⊕OOO VERY LOW	CRITICAL
Weight	gain (better i	ndicated by hi	igher values)		• •						·	
2	randomized trials	very serious <sup>5,8</sup>	no serious inconsistency	serious <sup>2</sup>	serious <sup>3</sup>	none	43	43	_	MD 1.06 higher (0.94 lower to 3.06 higher)	⊕OOO VERY LOW	IMPORTANT
Time to	regain birth v	weight (better	r indicated by lov	wer values)								
2	randomized trials	very serious <sup>11,12</sup>	no serious inconsistency	serious <sup>2</sup>	serious <sup>3</sup>	none	45	45	_	MD 0.86 higher (1.49 lower to 3.21 higher)	⊕OOO VERY LOW	IMPORTANT

			Quality	assessment			No. of	patients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Radiant warmer	Incubator	Relative (95% CI)	Absolute	Quality	Importance
Insensi	ensible water losses (better indicated by lower values)											
3	randomized trials	very serious <sup>8,13</sup>	no serious inconsistency	serious <sup>2</sup>	no serious imprecision	none	26	27	-	MD 0.94 higher (0.47 to 1.41 higher)	⊕OOO VERY LOW	IMPORTANT

1 Majority of evidence from the study with no blinding but the outcome is objective.

2 All the studies were from high-income countries.

3 95% Cl around the pooled estimate includes both: (1) no effect and (2) appreciable benefit or appreciable harm.

4 Event rate very low.

5 Post-randomization exclusions.

6 Single study.

7 Study from high-income country.

8 No blinding of outcome assessment.

9 All the evidence from the study with post-randomization exclusions.

10 All the evidence from the study with no blinding of outcome assessment.

11 Majority of evidence from the study with post-randomization exclusions (one infant excluded because of refusal of consent following randomization).

12 Majority of evidence from the study with no blinding of outcome assessment.

13 Unclear allocation concealment in all the studies.
#### Table 7e. Plastic bags or wraps versus conventional care immediately after birth in preterm (and some term) newborns

Source: Oatley H, Blencowe H, Lawn JE. Systematic review of the effect of coverings including plastic bags and wraps on mortality and morbidity in preterm and term neonates. 2014 (unpublished).

			Quality asses	ssment			No. of pat	ients	Eff	ect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Covering in plastic bags or wraps	Conventional care	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
All-cau	ise neonatal m	ortality inclu	uding neonates	born ≤ 29 wee	eks of gestatio	n						
7	randomized trials	not serious	not serious	serious <sup>1</sup>	very serious <sup>2</sup>	none	27/166 (16.3%)	34/175 (19.4%)	RR 0.84 (0.54 to 1.30)	31 fewer per 1000 (from 58 more to 89 fewer)	⊕OOO VERY LOW	CRITICAL
All-cau	ise mortality ii	ncluding neo	nates born 26-	-36 weeks of g	gestation							
2	randomized trials	not serious	serious <sup>3</sup>	serious <sup>1</sup>	very serious <sup>3</sup>	none	12/99 (12.1%)	13/115 (11.3%)	RR 2.62 (0.72 to 9.58)	183 more per 1000 (from 32 fewer to 970 more)	⊕OOO VERY LOW	CRITICAL
Hypoth	iermia											
2	randomized trials	not serious	serious <sup>4</sup>	serious <sup>1</sup>	not serious <sup>3</sup>	none	51/112 (45.5%)	92/117 (78.6%)	RR 0.58 (0.46 to 0.72)	330 fewer per 1000 (from 220 fewer to 425 fewer)	⊕⊕OO LOW	CRITICAL
Necrot	izing enteroco	litis					1		1	1		
1	randomized trials⁵	serious <sup>6</sup>	serious <sup>7</sup>	serious <sup>1</sup>	very serious <sup>3</sup>	none	34/180 (18.9%)	29/203 (14.3%)	RR 5.98 (0.29 to 121.80)	711 more per 1000 (from 101 fewer to 1000 more)	⊕OOO VERY LOW	CRITICAL
Intrave	ntricular haen	norrhage										
2	randomized trials⁵	not serious	not serious	serious <sup>1</sup>	serious <sup>2</sup>	none	32/219 (14.6%)	52/241 (21.6%)	RR 0.30 (0.03 to 2.60)	151 fewer per 1000 (from 209 fewer to 345 more)	⊕⊕OO LOW	CRITICAL

1 All facility-based studies conducted in high-income settings.

2 Wide confidence intervals crossing the line of no effect.

3 Very wide confidence intervals crossing the line of no effect.

4 Some heterogeneity.

5 There were two other observational studies.

6 Methodological inconsistencies.

7 No explanation was provided.

#### Table 8a. Continuous positive airway pressure (CPAP) therapy for preterm newborns with respiratory distress syndrome

Source: Ho JJ, Subramaniam P, Henderson-Smart DJ, Davis PG. Continuous distending pressure for respiratory distress syndrome in preterm infants. Cochrane Database Syst Rev 2002;(2):CD002271 (updated for this guideline)

			Quality asse	ssment			No.	of patients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	СРАР	Oxygen by head box or cannula	Relative (95% CI)	Absolute	Quality	Importance
In-hosp	ital mortality	(assessed w	ith: mortality du	ring initial hos	spital stay )							
6	randomized trials	serious <sup>1</sup>	no serious inconsistency	serious <sup>2</sup>	no serious imprecision	none	16/176 (9.1%)	32/179 (17.9%)	RR 0.52 (0.32 to 0.87)	86 fewer per 1000 (from 23 fewer to 122 fewer)	⊕⊕OO LOW	CRITICAL
Bronch	opulmonary d	ysplasia (ass	essed with: oxy	gen requireme	nt at 28 days o	f age )						
3	randomized trials	serious <sup>3</sup>	no serious inconsistency	serious <sup>2</sup>	serious <sup>4</sup>	none	6/126 (4.8%)	6/134 (4.5%)	RR 1.22 (0.44 to 3.39)	10 more per 1000 (from 25 fewer to 107 more)	⊕OOO VERY LOW	CRITICAL
Respira	tory failure w	arranting me	chanical ventila	tion		·						
5	randomized trials	serious <sup>3</sup>	no serious inconsistency	serious <sup>2</sup>	no serious imprecision	none	56/154 (36.4%)	84/160 (52.5%)	RR 0.72 (0.56 to 0.91)	147 fewer per 1000 (from 47 fewer to 231 fewer)	⊕⊕OO LOW	CRITICAL
Need fo	or surfactant											
1	randomized trials	serious <sup>3</sup>	serious⁵	serious <sup>6</sup>	serious <sup>4</sup>	none	3/26 (11.5%)	7/26 (26.9%)	RR 0.43 (0.12 to 1.48)	153 fewer per 1000 (from 237 fewer to 129 more)	⊕OOO VERY LOW	CRITICAL
Any air	leak			·			·					
6	randomized trials	serious <sup>3</sup>	no serious inconsistency	serious <sup>2</sup>	no serious imprecision	none	25/172 (14.5%)	11/179 (6.1%)	RR 2.42 (1.26 to 4.65)	87 more per 1000 (from 16 more to 224 more)	⊕⊕OO LOW	CRITICAL

1 Allocation concealment unclear in two studies with combined weight of >50%.

2 All studies are from high-income countries.

3 Neither outcome assessors nor treatment team was blinded to group allocation.

4 95% Cl around the pooled estimate includes both: (1) no effect and (2) appreciable benefit or appreciable harm.

5 Single study.

6 Study from high-income country.

# Table 8b. Timing of initiation (early versus late) of continuous positive airway pressure (CPAP) therapy for preterm newborns with respiratory distress syndrome

Source: Ho JJ, Henderson-Smart DJ, Davis PG. Early versus delayed initiation of continuous distending pressure for respiratory distress syndrome in preterm infants. Cochrane Database Syst Rev. 2002;(2):CD002975. (updated for this guideline)

			Quality ass	essment			No. of p	oatients	E	ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Early CPAP	Late CPAP	Relative (95% CI)	Absolute	Quality	Importance
Neonat	al mortality											
2	randomized trials	serious <sup>1</sup>	no serious inconsistency	serious <sup>2</sup>	serious <sup>3</sup>	none	1/23 (4.3%)	2/38 (5.3%)	RR 0.93 (0.13 to 6.81)	4 fewer per 1000 (from 46 fewer to 306 more)	⊕OOO VERY LOW	CRITICAL
In-hosp	oital mortality	y										
7	randomized trials	no serious risk of bias <sup>4</sup>	no serious inconsistency	serious⁵	serious <sup>3</sup>	none	15/109 (13.8%)	24/128 (18.8%)	RR 0.70 (0.40 to 1.24)	56 fewer per 1000 (from 112 fewer to 45 more)	⊕⊕OO LOW	CRITICAL
Bronch	opulmonary o	dysplasia (ass	sessed with: oxy	ygen requirem	ent at 28 days o	of age)						
2	randomized trials	serious <sup>6</sup>	no serious inconsistency	no serious indirectness <sup>7</sup>	very serious <sup>3,8</sup>	none	2/53 (3.8%)	3/55 (5.5%)	RR 0.70 (0.12 to 3.98)	16 fewer per 1000 (from 48 fewer to 163 more)	⊕000 VERY LOW	CRITICAL
Need fo	or mechanica	lventilation										
6	randomized trials	very serious <sup>1,6</sup>	no serious inconsistency	serious <sup>2</sup>	no serious imprecision	none	13/73 (17.8%)	29/92 (31.5%)	_	142 fewer per 1000 (from 13 fewer to 214 fewer)	⊕OOO VERY LOW	CRITICAL
Need fo	or surfactant	therapy										
1	randomized trials	serious <sup>6</sup>	serious <sup>9</sup>	no serious indirectness	no serious imprecision	none	18/36 (50.0%)	28/36 (77.8%)	RR 0.64 (0.44 to 0.93)	280 fewer per 1000 (from 54 fewer to 436 fewer)	⊕⊕OO LOW	CRITICAL
Air leak	s											
5	randomized trials	very serious <sup>1,6</sup>	no serious inconsistency	serious <sup>2</sup>	serious <sup>3</sup>	none	8/63 (12.7%)	12/81 (14.8%)	RR 0.84 (0.37 to 1.91)	24 fewer per 1000 (from 93 fewer to 135 more)	⊕OOO VERY LOW	CRITICAL

			Quality ass	essment			No. of p	atients	Ef	fect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Early CPAP	Late CPAP	Relative (95% CI)	Absolute	Quality	Importance
Sepsis												
1	randomized trials	serious <sup>6</sup>	serious <sup>9</sup>	no serious indirectness	no serious imprecision	none	11/36 (30.6%)	24/36 (66.7%)	RR 0.46 (0.27 to 0.79)	360 fewer per 1000 (from 140 fewer to 487 fewer)	⊕⊕OO LOW	CRITICAL

1 Allocation concealment unclear in most/all studies.

2 Studies from high-income countries.

3 95% Cl around the pooled estimate includes both: (1) no effect and (2) appreciable benefit or appreciable harm.

4 Allocation concealment mentioned in two studies with combined weight of > 50%.

5 All studies except one with weight of evidence < 50% from high-income countries.

6 Neither treatment team nor outcome assessors were masked to group allocation.
7 > 50% weight of evidence from the study from a low- and middle-income country setting.

8 Only two and three events in the two studies (both groups combined).

9 Single study.

#### Table 9a. Surfactant replacement therapy with animal-derived surfactants for preterm newborns with respiratory distress syndrome

Source: Seger N, Soll R. Animal derived surfactant extract for treatment of respiratory distress syndrome. Cochrane Database Syst Rev. 2009;(2):CD007836. (updated for this guideline)

			Quality asse	ssment			No. of pa	tients		ffect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Surfactant replacement therapy	No therapy or placebo	Relative (95% CI)	Absolute	Quality	Importance
Neonat	al mortality											
10	randomized trials	no serious risk of bias	no serious inconsistency	serious <sup>1</sup>	no serious imprecision	none	145/744 (19.5%)	206/725 (28.4%)	RR 0.68 (0.57 to 0.82)	9 fewer per 100 (from 5 fewer to 12 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Bronch	opulmonary d	lysplasia (ass	sessed with: use	of supplemer	ntal oxygen at	36 weeks postme	enstrual age)					
9	randomized trials	no serious risk of bias	serious <sup>2</sup>	serious <sup>1</sup>	no serious imprecision	none	278/796 (34.9%)	285/772 (36.9%)	RR 0.95 (0.84 to 1.08)	18 fewer per 1000 (from 59 fewer to 30 more)	⊕⊕OO LOW	CRITICAL
Air leak	s (assessed v	with: any air l	eak syndromes	such as pulmo	onary interstiti	al emphysema, p	neumothorax, pr	eumomediast	inum, etc.)			
7	randomized trials	no serious risk of bias	no serious inconsistency	serious <sup>1</sup>	no serious imprecision	none	102/694 (14.7%)	213/686 (31%)	RR 0.47 (0.39 to 0.58)	165 fewer per 1000 (from 130 fewer to 189 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Pulmon	ary haemorrh	nage			·					·	·	
2	randomized trials	no serious risk of bias	no serious inconsistency	serious <sup>1</sup>	serious <sup>3</sup>	none	32/457 (7.0%)	24/441 (5.4%)	RR 1.29 (0.77 to 2.15)	16 more per 1000 (from 13 fewer to 63 more)	⊕⊕OO LOW	CRITICAL
Sepsis (	(assessed wit	h: culture pro	oven bacterial s	epsis)								
4	randomized trials	no serious risk of bias	no serious inconsistency	serious <sup>1</sup>	serious <sup>3</sup>	none	95/513 (18.5%)	82/499 (16.4%)	RR 1.14 (0.87 to 1.48)	23 more per 1000 (from 21 fewer to 79 more)	⊕⊕OO LOW	CRITICAL
Severe	intraventricu	lar haemorrh	age (IVH) (asse	essed with: gra	de 3 or 4 IVH	detected by ultra	sound or comput	erized tomogr	aphy [CT] scan	of the head)		
10	randomized trials	no serious risk of bias	no serious inconsistency	serious <sup>1</sup>	serious <sup>3</sup>	none	195/758 (25.7%)	206/743 (27.7%)	RR 0.93 (0.79 to 1.10)	19 fewer per 1000 (from 58 fewer to 28 more)	⊕⊕OO LOW	CRITICAL

1 All the studies were done in level-3 NICUs in high-income countries.

2 There was significant heterogeneity.

3 Confidence intervals were wide and crossed the line of no effect.

#### Table 9b. Surfactant replacement therapy with protein-free synthetic surfactants for preterm newborns with respiratory distress syndrome

			Quality asse	ssment			No. of pat	ients	E	ffect		
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Protein-free synthetic surfactant treatment or prophylaxis	Natural surfactant	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Overall	neonatal mo	rtality										
6	randomized trials	not serious	not serious	serious <sup>1</sup>	not serious	non applicable	149/1176 (12.7%)	200/1176 (17.0%)	RR 0.73 (0.61 to 0.88)	43 fewer per 1000 (from 1 fewer to 1 fewer)	⊕⊕⊕O MODERATE	CRITICAL
In-hosp	ital mortality	/										
6	randomized trials	not serious	not serious	serious <sup>1</sup>	not serious	non applicable	201/1178 (17.1%)	251/1174 (21.3%)	RR 0.79 (0.68 to 0.92)	42 fewer per 1000 (from 1 fewer to 1 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Air leak	S			-								
5	randomized trials	not serious	not serious	serious <sup>1</sup>	not serious	non applicable	186/1161 (16.0%)	289/1167 (24.8%)	RR 0.64 (0.55 to 0.76)	88 fewer per 1000 (from 1 fewer to 1 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Bronch	opulmonary o	dysplasia										
5	randomized trials	not serious	not serious	serious <sup>1</sup>	not serious	non applicable	123/1123 (11.0%)	162/1125 (14.4%)	RR 0.75 (0.61 to 0.92)	34 fewer per 1000 (from 1 fewer to 1 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Severe	intraventricu	lar haemorrh	age									
5	randomized trials	not serious	not serious	serious <sup>1</sup>	serious <sup>2</sup>	non applicable	80/1161 (6.8%)	95/1167 (8.1%)	RR 0.84 (0.63 to 1.12)	13 fewer per 1000 (from 1 fewer to 1 fewer)	⊕⊕OO LOW	CRITICAL

Source: Soll R. Synthetic surfactant for respiratory distress syndrome in preterm infants. Cochrane Database Syst Rev. 2000;(2):CD001149.

1 All trials conducted in high-income countries.

2 Wide confidence intervals crossing the line of no effect.

# Table 9c. Protein-free synthetic surfactant treatment or prophylaxis versus natural surfactant therapy for preterm newborns with respiratory distress syndrome

			Quality asses	sment			No. of pa	atients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Protein-free synthetic surfactant	Animal derived surfactant extract	Relative (95% CI)	Absolute	Quality	Importance
Neonat	al mortality											
12	randomized trials	no serious risk of bias	no serious inconsistency	serious <sup>1</sup>	no serious imprecision	none	765/2838 (27.0%)	553/2609 (21.2%)	RR 1.07 (0.99 to 1.17)	15 more per 1000 (from 2 fewer to 36 more)	⊕⊕⊕O MODERATE	CRITICAL
Bronch	opulmonary	dysplasia (asso	essed with: use	of supplement	al oxygen at 3	6 weeks postmen	istrual age)					
7	randomized trials	serious <sup>2</sup>	no serious inconsistency	serious <sup>1</sup>	no serious imprecision	none	688/2123 (32.4%)	569/1883 (30.2%)	RR 1.00 (0.92 to 1.10)	0 fewer per 1000 (from 24 fewer to 30 more)	⊕⊕OO LOW	CRITICAL
Pneum	othorax											
11	randomized trials	no serious risk of bias	no serious inconsistency	serious <sup>1</sup>	no serious imprecision	none	313/2804 (11.2%)	187/2577 (7.3%)	RR 1.49 (1.26 to 1.77)	36 more per 1000 (from 19 more to 56 more)	⊕⊕⊕O MODERATE	CRITICAL
Sepsis												
10	randomized trials	serious <sup>2</sup>	no serious inconsistency	serious <sup>1</sup>	no serious imprecision	none	735/2776 (26.5%)	594/2468 (24.1%)	RR 0.99 (0.90 to 1.08)	2 fewer per 1000 (from 24 fewer to 19 more)	⊕⊕OO LOW	CRITICAL
Severe	intraventric	ular haemorrha	ge									
9	randomized trials	serious <sup>2</sup>	no serious inconsistency	serious <sup>1</sup>	no serious imprecision	none	349/2590 (13.5%)	316/2379 (13.3%)	RR 0.95 (0.83 to 1.09)	7 fewer per 1000 (from 23 fewer to 12 more)	⊕⊕OO LOW	CRITICAL

Source: Soll RF, Blanco F. Natural surfactant extract versus synthetic surfactant for neonatal respiratory distress syndrome. Cochrane Database Syst Rev. 2001;(2):CD000144.

1 All the studies were done in level-3 NICUs in high-income countries.

2 Subjective outcome; blinding of outcome assessment not done in most studies.

# Table 9d. Protein-containing synthetic surfactant treatment or prophylaxis versus natural surfactant therapy for preterm newborns with respiratory distress syndrome

Source: Pfister RH, Soll RF, Wiswell T. Protein-containing synthetic surfactant versus animal derived surfactant extract for the prevention and treatment of respiratory distress syndrome. Cochrane Database Syst Rev. 2007;(3):CD006069.

			Quality ass	essment			No. of p	atients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Protein- containing synthetic surfactant	Animal- derived surfactant	Relative (95% Cl)	Absolute	Quality	Importance
Neonat	al mortality											
2	randomized trials	no serious risk of bias	no serious inconsistency	serious <sup>1</sup>	serious <sup>2</sup>	none	114/646 (17.6%)	81/382 (21.2%)	RR 0.79 (0.61 to 1.02)	45 fewer per 1000 (from 83 fewer to 4 more)	⊕⊕OO LOW	CRITICAL
Bronch	opulmonary	dysplasia at 3	36 weeks of ge	station								
2	randomized trials	no serious risk of bias	serious <sup>3</sup>	serious <sup>1</sup>	no serious imprecision	none	235/646 (36.4%)	127/382 (33.2%)	RR 0.99 (0.84 to 1.18)	3 fewer per 1000 (from 53 fewer to 60 more)	⊕⊕OO LOW	CRITICAL
Air leal	(S	<u>.</u>										
2	randomized trials	no serious risk of bias	serious <sup>3</sup>	serious <sup>1</sup>	serious <sup>2</sup>	none	93/646 (14.4%)	51/382 (13.4%)	RR 1.00 (0.73 to 1.37)	0 fewer per 1000 (from 36 fewer to 49 more)	⊕OOO VERY LOW	CRITICAL
Pulmon	ary haemorr	hage				· · · ·						
2	randomized trials	no serious risk of bias	no serious inconsistency	serious <sup>1</sup>	serious <sup>2</sup>	none	61/646 (9.4%)	46/382 (12%)	RR 0.73 (0.51 to 1.06)	33 fewer per 1000 (from 59 fewer to 7 more)	⊕⊕OO LOW	CRITICAL
Sepsis	(culture prov	en)				· · · · · ·						
1	randomized trials	no serious risk of bias	serious <sup>4</sup>	serious <sup>1</sup>	no serious imprecision	none	232/527 (44.0%)	113/258 (43.8%)	RR 1.01 (0.85 to 1.19)	4 more per 1000 (from 66 fewer to 83 more)	⊕⊕OO LOW	CRITICAL
Necrot	zing enteroc	olitis				· · · ·						
2	randomized trials	no serious risk of bias	serious <sup>5</sup>	serious <sup>1</sup>	no serious imprecision	none	50/646 (7.7%)	53/382 (13.9%)	RR 0.60 (0.42 to 0.86)	55 fewer per 1000 (from 19 fewer to 80 fewer)	⊕⊕OO LOW	CRITICAL

			Quality asse	essment			No. of pa	tients		Effect			
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Protein- containing synthetic surfactant	Animal- derived surfactant	Relative (95% CI)	Absolute	Quality	Importance	
Severe	Severe intraventricular haemorrhage (IVH) (assessed with: grade 3 or 4 IVH detected by ultrasound or computerized tomography [CT] scan of the head)												
1	randomized trials	no serious risk of bias	serious <sup>4</sup>	serious <sup>1</sup>	serious <sup>2</sup>	none	16/119 (13.4%)	11/124 (8.9%)	RR 1.52 (0.73 to 3.13)	46 more per 1000 (from 24 fewer to 189 more)	⊕OOO VERY LOW	CRITICAL	

Both the studies were done in level-3 NICUs in high-income countries.
 95% CI around the pooled estimate of effect includes both: (1) no effect and (2) increased risk.
 Effect size of the two studies in different directions.

4 Single study.
5 Effect size of the two studies in same direction but l<sup>2</sup> > 60%.

# Table 9e. Prophylactic surfactant replacement therapy versus rescue surfactant therapy with or without continuous positive airway pressure (CPAP) for preterm newborns with respiratory distress syndrome

Source: Rojas-Reyes MX, Morley CJ, Soll R. Prophylactic versus selective use of surfactant in preventing morbidity and mortality in preterm infants. Cochrane Database Syst Rev. 2012;(3):CD000510.

			Quality asses	ssment			No. of p	atients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Prophylactic surfactant replacement therapy	Selective surfactant therapy	Relative (95% Cl)	Absolute	Quality	Importance
Neonat	al mortality											
10	randomized trials	no serious risk of bias	serious <sup>1</sup>	serious <sup>2</sup>	no serious imprecision	none	246/2256 (10.9%)	274/2251 (12.2%)	RR 0.89 (0.76 to 1.04)	13 fewer per 1000 (from 29 fewer to 5 more)	⊕⊕OO LOW	CRITICAL
In-hosp	ital mortality											
5	randomized trials	no serious risk of bias	serious <sup>1</sup>	serious <sup>2</sup>	serious <sup>3</sup>	none	101/728 (13.9%)	125/730 (17.1%)	RR 0.79 (0.63 to 10)	36 fewer per 1000 (from 63 fewer to 0 more)	⊕OOO VERY LOW	CRITICAL
Bronch	opulmonary d	ysplasia										
10	randomized trials	no serious risk of bias	no serious inconsistency	serious <sup>2</sup>	no serious imprecision	none	362/1607 (22.5%)	357/1584 (22.5%)	RR 1.02 (0.91 to 1.14)	5 more per 1000 (from 20 fewer to 32 more)	⊕⊕⊕O MODERATE	CRITICAL
Air leak	s											
9	randomized trials	no serious risk of bias	serious⁵	serious <sup>2</sup>	Serious <sup>3</sup>	none	165/2044 (8.1%)	189/2032 (9.3%)	RR 0.86 (0.71 to 1.04)	13 fewer per 1000 (from 27 fewer to 4 more)	⊕OOO VERY LOW	CRITICAL
Pulmon	ary haemorrh	age										
4	randomized trials	no serious risk of bias	no serious inconsistency	serious <sup>2</sup>	very serious <sup>3</sup>	none	13/1015 (1.3%)	12/1008 (1.2%)	RR 1.05 (0.49 to 2.22)	1 more per 1000 (from 6 fewer to 15 more)	⊕OOO VERY LOW	CRITICAL
Sepsis												
6	randomized trials	no serious risk of bias	Serious <sup>1</sup>	serious <sup>2</sup>	Serious <sup>3</sup>	none	95/1227 (7.7%)	113/1211 (9.3%)	RR 0.83 (0.64 to 1.08)	16 fewer per 1000 (from 34 fewer to 7 more)	⊕OOO VERY LOW	CRITICAL

			Quality asses	ssment			No. of p	atients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Prophylactic surfactant replacement therapy	Selective surfactant therapy	Relative (95% CI)	Absolute	Quality	Importance
Severe	intraventricu	lar haemorrha	ge									
10	randomized trials	no serious risk of bias	no serious inconsistency	serious <sup>2</sup>	Serious <sup>3</sup>	none	211/2170 (9.7%)	241/2177 (11.1%)	RR 0.87 (0.74 to 1.04)	14 fewer per 1000 (from 29 fewer to 4 more)	⊕⊕OO LOW	CRITICAL

Significant heterogeneity: P < 0.05; I<sup>2</sup> > 50%.
 All the studies were done in level-3 neonatal intensive care units in high-income countries.
 Wide confidence interval around the pooled estimate of effect crossing the line of no effect.

### Table 9f. Prophylactic surfactant replacement therapy versus rescue surfactant therapy without continuous positive airway pressure (CPAP) for preterm newborns with respiratory distress syndrome

Source: Rojas-Reyes MX, Morley CJ, Soll R. Prophylactic versus selective use of surfactant in preventing morbidity and mortality in preterm infants. Cochrane Database Syst Rev. 2012;(3):CD000510. (updated for this guideline)

			Quality ass	essment			No. of pa	atients		Effect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Prophylactic surfactant replacement therapy	Rescue surfactant therapy without CPAP	Relative (95% CI)	Absolute (95% Cl)	Quality	Importance
Overall	neonatal mo	rtality										
8	randomized trials	serious <sup>1</sup>	not serious	serious <sup>2</sup>	not serious	none	122/1394 (8.8%)	172/1367 (12.6%)	RR 0.69 (0.56 to 0.85)	39 fewer per 1000 (from 19 fewer to 55 fewer)	⊕⊕OO LOW	CRITICAL
In-hosp	ital mortality	1					` 					
4	randomized trials	serious <sup>1</sup>	not serious	serious <sup>2</sup>	not serious	none	86/520 (16.5%)	116/510 (22.7%)	RR 0.72 (0.56 to 0.93)	64 fewer per 1000 (from 16 fewer to 100 fewer)	⊕⊕OO LOW	CRITICAL
Air leak	s											
8	randomized trials	serious <sup>1</sup>	not serious	serious <sup>2</sup>	not serious	none	117/1391 (8.4%)	144/1369 (10.5%)	RR 0.79 (0.63 to 0.98)	22 fewer per 1000 (from 2 fewer to 39 fewer)	⊕⊕OO LOW	CRITICAL
Pulmon	ary haemorr	hage	-	1					-		,	
3	randomized trials	serious <sup>1</sup>	not serious	serious <sup>2</sup>	serious <sup>3</sup>	none	7/806 (0.9%)	9/786 (1.1%)	RR 0.73 (0.28 to 1.87)	3 fewer per 1000 (from 8 fewer to 10 more)	⊕OOO VERY LOW	CRITICAL
Bronch	opulmonary o	lysplasia										
9	randomized trials	serious <sup>1</sup>	not serious	serious <sup>2</sup>	serious <sup>3</sup>	none	235/1411 (16.7%)	242/1378 (17.6%)	RR 0.95 (0.81 to 1.11)	9 fewer per 1000 (from 19 more to 33 fewer)	⊕OOO VERY LOW	CRITICAL
Severe	intraventricu	lar haemorrh	nage									
8	randomized trials	serious <sup>1</sup>	not serious	serious <sup>2</sup>	serious <sup>3</sup>	none	127/1339 (9.5%)	143/1317 (10.9%)	RR 0.87 (0.70 to 1.08)	14 fewer per 1000 (from 9 more to 33 fewer)	⊕OOO VERY LOW	CRITICAL
Sepsis												
5	randomized trials	serious <sup>1</sup>	not serious	serious <sup>2</sup>	not serious	none	68/1022 (6.7%)	96/991 (9.7%)	RR 0.68 (0.51 to 0.92)	31 fewer per 1000 (from 8 fewer to 47 fewer)	⊕⊕OO LOW	CRITICAL

1 No blinding in the assessment of outcomes except one study.

2 All trials from level 3 neonatal Intensive care units in high-income countries.

3 Wide confidence intervals including no effect.

# Table 9g. Prophylactic surfactant replacement therapy versus rescue surfactant therapy with continuous positive airway pressure (CPAP) for preterm newborns with respiratory distress syndrome

Source: Rojas-Reyes MX, Morley CJ, Soll R. Prophylactic versus selective use of surfactant in preventing morbidity and mortality in preterm infants. Cochrane Database Syst Rev. 2012;(3):CD000510. (updated for this guideline)

Quality assessment								tients	Eff	ect		
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Prophylactic surfactant replacement therapy	Rescue surfactant therapy with CPAP	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Overall	neonatal mo	rtality										
2	randomized trials	serious1	not serious	serious <sup>2</sup>	serious <sup>3</sup>	none	124/862 (14.4%)	172/884 (19.5%)	RR 1.24 (0.97 to 1.58)	47 more per 1000 (from 6 fewer to 113 more)	⊕OOO VERY LOW	CRITICAL
In-hosp	oital mortality	/										
1	randomized trials	serious <sup>1</sup>	serious <sup>4</sup>	serious <sup>2</sup>	serious <sup>3</sup>	none	15/208 (7.2%)	9/220 (4.1%)	RR 1.76 (0.79 to 3.94)	31 more per 1000 (from 9 fewer to 120 more)	⊕OOO VERY LOW	CRITICAL
Air leal	s											
1	randomized trials	serious <sup>1</sup>	serious <sup>4</sup>	serious <sup>2</sup>	serious <sup>3</sup>	none	48/653 (7.4%)	45/663 (6.8%)	RR 1.08 (0.73 to 1.60)	5 more per 1000 (from 18 fewer to 41 more)	⊕OOO VERY LOW	CRITICAL
Pulmon	ary haemorrl	hage						·				
1	randomized trials	serious <sup>1</sup>	serious <sup>4</sup>	serious <sup>2</sup>	serious <sup>3</sup>	none	6/209 (2.9%)	3/222 (1.4%)	RR 2.12 (0.54 to 8.39)	15 more per 1000 (from 6 fewer to 100 more)	⊕OOO VERY LOW	CRITICAL
Bronch	opulmonary o	dysplasia										
1	randomized trials	serious <sup>1</sup>	serious <sup>4</sup>	serious <sup>2</sup>	serious <sup>3</sup>	none	127/196 (64.8%)	115/206 (55.8%)	RR 1.16 (0.99 to 1.36)	89 more per 1000 (from 6 fewer to 201 more)	⊕OOO VERY LOW	CRITICAL
Severe	intraventricu	lar haemorrh	age									
2	randomized trials	serious <sup>1</sup>	not serious	serious <sup>2</sup>	serious <sup>3</sup>	none	12/72 (16.7%)	14/92 (15.2%)	RR 0.88 (0.67 to 1.16)	18 fewer per 1000 (from 24 more to 50 fewer)	⊕OOO VERY LOW	CRITICAL

			Quality asse	essment		No. of patients		Effect				
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Prophylactic surfactant replacement therapy	Rescue surfactant therapy with CPAP	Relative (95% CI)	Absolute (95% CI)	Quality	Importance
Sepsis	Sepsis											
1	randomized trials	serious <sup>1</sup>	serious <sup>4</sup>	serious <sup>2</sup>	serious <sup>3</sup>	none	27/205 (13.2%)	17/220 (7.7%)	RR 1.70 (0.96 to 3.03)	54 more per 1000 (from 3 fewer to 157 more)	⊕OOO VERY LOW	CRITICAL

No blinding in the assessment of outcomes except one study.
 No trial from low- and middle-income countries.

3 Wide confidence intervals crossing the line of no effect.4 Only one study, hence consistency could not be assessed.

### Table 9h. Early surfactant replacement therapy (within 2—3 hours of birth) versus late rescue surfactant therapy (after waiting for symptoms to worsen) with or without continuous positive airway pressure (CPAP) for preterm newborns with respiratory distress syndrome

Source: Bahadue FL, Soll R. Early versus delayed selective surfactant treatment for neonatal respiratory distress syndrome. Cochrane Database Syst Rev. 2012;(11):CD001456. (updated for this guideline)

			Quality asses	sment			No. of p	atients	Eff	ect	Quality	Importance
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Early surfactant replacement therapy	Late rescue surfactant therapy	Relative (95% CI)	Absolute		
Neonat	al mortality											
6	randomized trials	no serious risk of bias	no serious inconsistency	serious <sup>1</sup>	no serious imprecision	none	353/1782 (19.8%)	424/1795 (23.6%)	RR 0.84 (0.74 to 0.95)	38 fewer per 1000 (from 12 fewer to 61 fewer)	⊕⊕⊕O MODERATE	CRITICAL
In-hosp	ital mortality	,										
5	randomized trials	no serious risk of bias	no serious inconsistency	serious <sup>1</sup>	no serious imprecision	none	376/1570 (23.9%)	431/1587 (27.2%)	RR 0.88 (0.78 to 0.99)	33 fewer per 1000 (from 3 fewer to 60 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Bronch	opulmonary d	lysplasia (asse	ssed with: use o	f supplementa	l oxygen at 36	weeks postmen	strual age)					
4	randomized trials	serious <sup>3</sup>	no serious inconsistency	serious <sup>4</sup>	no serious imprecision	none	118/1135 (10.4%)	177/1547 (11.4%)	RR 0.67 (0.54 to 0.84)	38 fewer per 1000 (from 18 fewer to 53 fewer)	⊕⊕OO LOW	CRITICAL
Air leak	s (assessed v	with: any air lea	ık syndromes su	ch as pulmona	ry interstitial of	emphysema, pno	eumothorax, pneu	umomediastinu	m, etc.)			
2	randomized trials	no serious risk of bias	no serious inconsistency	serious <sup>4</sup>	no serious imprecision	none	65/233 (27.9%)	105/230 (45.7%)	RR 0.61 (0.48 to 0.78)	178 fewer per 1000 (from 100 fewer to 237 fewer)	⊕⊕⊕O MODERATE	CRITICAL
Severe	intraventricu	lar haemorrhag	;e									
3	randomized trials	serious <sup>3</sup>	no serious inconsistency	serious <sup>4</sup>	serious⁵	none	245/1519 (16.1%)	257/1531 (16.8%)	RR 0.96 (0.82 to 1.12)	7 fewer per 1000 (from 30 fewer to 20 more)	⊕OOO VERY LOW	CRITICAL

			Quality asses	sment		No. of patients		Effect				
No. of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Early surfactant replacement therapy	Late rescue surfactant therapy	Relative (95% CI)	Absolute	Quality	Importance
Confirm	Confirmed bacterial sepsis											
1	randomized trials	no serious risk of bias	serious <sup>6</sup>	no serious indirectness <sup>7</sup>	serious⁵	none	24/35 (68.6%)	24/40 (60%)	RR 1.14 (0.81 to 1.60)	84 more per 1000 (from 114 fewer to 360 more)	⊕⊕OO LOW	CRITICAL

1 All the studies were done in level-3 neonatal intensive care units (NICUs) in high-income countries except one.

2 We used the data from the studies with the lowest and highest risk in the control group to estimate the "low" and "high" control risk.

3 Subjective outcome; blinding of outcome assessment unclear (not mentioned) in all the studies.4 All the studies were done in level-3 NICUs in high-income countries.

5 95% CI around the pooled estimate of effect includes both: (1) no effect and (2) increased risk.

6 Single study.

7 Conducted in a low- or middle-income country.



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