## Comparison: Delaying pushing compared with immediate pushing in women with epidural analgesia

Source: Lemos A, Amorim MM, Dornelas de Andrade A, de Souza AI, Cabral Filho JE, Correia JB. Pushing/bearing down methods for the second stage of labour. Cochrane Database Syst Rev. 2017;(10):CD009124.

Quality assessment							No. of participants		Effect			
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Delayed pushing	Immediate pushing	Relative (95% CI)	Absolute (95% CI)	Certainty (GRADE)	Importance
Duration	of second	stage (minute	es)									
11	RCTs	serious <sup>a</sup>	serious <sup>b</sup>	not serious	not serious	none	1545	1504	-	MD 56.4 higher (42.05 higher to 70.76 higher)	⊕⊕○○ LOW	critical
Duration	of pushing	g (minutes)										
11	RCTs	serious <sup>a</sup>	serious <sup>b</sup>	not serious	not serious	none	1485	1447	-	MD 19.05 lower (32.27 lower to 5.83 lower)	⊕⊕○○ LOW	critical
Spontane	eous vagina	al birth										
12	RCTs	seriousª	not serious	not serious	not serious	none	1201/1583 (75.9%)	1091/1531 (71.3%)	RR 1.07 (1.02-1.11)	50 more per 1000 (from 14 more to 78 more)	⊕⊕⊕○ MODERATE	critical
Caesarea	n section							,				
9	RCTs	serious <sup>a</sup>	not serious	not serious	not serious	none	99/1412 (7.0%)	116/1371 (8.5%)	RR 0.83 (0.65-1.05)	14 fewer per 1000 (from 4 more to 30 fewer)	⊕⊕⊕○ MODERATE	critical
Instrume	ntal birth							'			•	,
10	RCTs	serious <sup>a</sup>	not serious	not serious	not serious	none	520/1534 (33.9%)	556/1473 (37.7%)	RR 0.89 (0.74-1.07)	42 fewer per 1000 (from 26 more to 98 fewer)	⊕⊕⊕⊖ MODERATE	critical
Rotation	al, mid-pel	vic or posterio	r forceps									
5	RCTs	serious <sup>a</sup>	not serious	not serious	not serious	none	77/1083 (7.1%)	92/1068 (8.6%)	RR 0.82 (0.61-1.10)	16 fewer per 1000 (from 9 more to 34 fewer)	⊕⊕⊕⊖ MODERATE	critical
Perineal	laceration											
7	RCTs	serious <sup>a</sup>	not serious	not serious	not serious	none	164/1413 (11.6%)	166/1362 (12.2%)	RR 0.94 (0.78-1.14)	7 fewer per 1000 (from 17 more to 27 fewer)	⊕⊕⊕○ MODERATE	critical

Quality assessment						No. of participants		Effect				
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Delayed pushing	Immediate pushing	Relative (95% CI)	Absolute (95% CI)	Certainty (GRADE)	Importance
Episiotor	ny						•					
5	RCTs	serious <sup>a</sup>	not serious	not serious	not serious	none	513/1163 (44.1%)	538/1157 (46.5%)	RR 0.95 (0.87-1.04)	23 fewer per 1000 (from 19 more to 60 fewer)	⊕⊕⊕○ MODERATE	critical
Postpart	um haemor	rhage										
3	RCTs	not serious	not serious	not serious	serious	none	178/1121 (15.9%)	168/1078 (15.6%)	RR 1.04 (0.86-1.26)	6 more per 1000 (from 22 fewer to 41 more)	⊕⊕⊕○ MODERATE	critical
Dysparei	unia											
1	RCT	not serious	not serious	not serious	very serious <sup>c,d</sup>	none	18/80 (22.5%)	16/82 (19.5%)	RR 1.15 (0.63-2.10)	29 more per 1000 (from 72 fewer to 215 more)	⊕⊕⊖⊖ LOW	critical
Faecal in	continence											
1	RCT	not serious	not serious	not serious	serious <sup>c,d</sup>	none	33/88 (37.5%)	23/90 (25.6%)	RR 1.47 (0.94-2.29)	120 more per 1000 (from 15 fewer to 330 more)	⊕⊕⊖⊖ LOW	critical
Fatigue a	fter birth	'									'	
1	RCT	not serious	not serious	not serious	serious <sup>c,d</sup>		36	37	-	MD 6.4 lower (21 lower to 8.2 higher)	⊕⊕⊖⊖ LOW	critical
Materna	l satisfactio	on										
1	RCT	not serious	not serious	not serious	serious <sup>c,d</sup>	none	37	36	-	MD 0.4 higher (7.34 lower to 8.14 higher)	⊕⊕⊖⊖ LOW	critical
Five-min	ute Apgar s	score < 7										
3	RCTs	serious <sup>a</sup>	not serious	not serious	very serious <sup>c,d</sup>	none	0/221 (0.0%)	2/192 (1.0%)	RR 0.15 (0.01-3.00)	9 fewer per 1000 (from 10 fewer to 21 more)	⊕○○○ VERY LOW	critical
Low umb	ilical cord p	oH (arterial ar	nd/or venous)									
4	RCTs	serious <sup>a</sup>	not serious	not serious	not serious	serious <sup>d</sup>	49/1092 (4.5%)	21/1053 (2.0%)	RR 2.24 (1.37-3.68)	25 more per 1000 (from 7 more to 53 more)	⊕⊕⊖⊖ LOW	critical

CI: confidence interval; MD: mean difference; RCT: randomized controlled trial; RR: risk ratio.

<sup>&</sup>lt;sup>a</sup> Most of the pooled effect derived from studies with a moderate or high risk of bias but without a substantial proportion (i.e. with < 50%) from studies with a high risk of bias.

<sup>&</sup>lt;sup>b</sup> Severe, unexplained heterogeneity.

<sup>&</sup>lt;sup>c</sup> Imprecise confidence interval.

d Heterogeneity in outcome definition.