## Comparison 1: Perineal local cooling compared with no pain relief or usual care

Source: East CE, Dorward EDF, Whale RE, Liu J. Local cooling for relieving pain from perineal trauma sustained during childbirth. Cochrane Database Syst Rev. 2020;(10):CD006304.

	Certainty assessment							№ of patients		ffect		
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Cooling treatment (ice pack or cold gel pad)	No pain relief or usual care	Relative (95% CI)	Absolute (95% CI)	Certainty (GRADE)	Importance
Perineal	Perineal pain within 4–6 hours of birth											
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	serious <sup>c</sup>	none	50	50	-	MD <b>4.46 lower</b> (5.07 lower to 3.85 lower)	⊕○○○ VERY LOW	IMPORTANT
Perineal	Perineal pain within 24 hours of birth – moderate + severe pain											-
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	serious <sup>d</sup>	none	114/215 (53.0%)	52/101 (51.5%)	<b>RR 1.03</b> (0.82 to 1.29)	15 more per 1000 (from 93 fewer to 149 more)	⊕○○○ VERY LOW	IMPORTANT
Perineal	pain within 24	hours of birth	<del>'</del>		<u> </u>	·		-		<b>'</b>		1
3	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	very serious <sup>c,d</sup>	none	83	83	-	MD <b>0.41 lower</b> (1.78 lower to 0.95 higher)	⊕○○○ VERY LOW	IMPORTANT
Perineal	Perineal pain 24–48 hours after birth – moderate + severe pain											
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	not serious	none	84/215 (39.1%)	54/101 (53.5%)	<b>RR 0.73</b> (0.57 to 0.94)	144 fewer per 1000 (from 230 fewer to 32 fewer)	⊕⊕⊖⊖ LOW	IMPORTANT

			Certainty asses	ssment			Nº of p	oatients	E	ffect	Certainty (GRADE)	Importance
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Cooling treatment (ice pack or cold gel pad)	No pain relief or usual care	Relative (95% CI)	Absolute (95% CI)		
Perineal	pain 24–48 ho	urs after birth	•									
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	very serious <sup>c,d</sup>	none	35	36	-	MD <b>0.53 lower</b> (1.45 lower to 0.39 higher)	⊕○○○ VERY LOW	IMPORTANT
Perineal	oedema withir	1 24 hours of b	pirth									
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	not serious	none	156/215 (72.6%)	73/101 (72.3%)	<b>RR 1.00</b> (0.87 to 1.16)	0 fewer per 1000 (from 94 fewer to 116 more)	⊕⊕⊖⊖ LOW	IMPORTANT
Perineal	oedema 24–48	hours after b	irth									
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	serious <sup>e</sup>	none	121/215 (56.3%)	69/101 (68.3%)	<b>RR 0.82</b> (0.69 to 0.98)	<b>123 fewer per 1000</b> (from 212 fewer to 14 fewer)	⊕○○○ VERY LOW	IMPORTANT
Perineal	bruising withir	1 24 hours of b	irth	ļ		ļ		<u> </u>		!		1
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	not serious	none	127/215 (59.1%)	61/101 (60.4%)	<b>RR 0.98</b> (0.81 to 1.19)	12 fewer per 1000 (from 115 fewer to 115 more)	⊕⊕○○ LOW	IMPORTANT
Perineal	bruising 24–48	hours after bi	irth	ļ		ļ		<u> </u>		!		ļ
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	serious <sup>e</sup>	none	164/215 (76.3%)	68/101 (67.3%)	<b>RR 1.13</b> (0.97 to 1.32)	88 more per 1000 (from 20 fewer to 215 more)	⊕○○○ VERY LOW	IMPORTANT
Perineal	redness, oeder	ma, bruising, d	lischarge, wound	gaping within	24 hours of b	irth	ı			1		•
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	very serious <sup>c,d</sup>	none	35	36	-	MD <b>0.38 lower</b> (1.14 lower to 0.38 higher)	⊕○○○ VERY LOW	IMPORTANT
Perineal	redness, oeder	ma, bruising, d	lischarge, wound	gaping 24–48	hours after bi	rth	•				•	•
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	serious <sup>c</sup>	none	35	36	-	MD <b>1.19 lower</b> (2.07 lower to 0.31 lower)	⊕○○○ VERY LOW	IMPORTANT

			Certainty asses	sment			Nº of p	oatients	E	ffect		Importance
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Cooling treatment (ice pack or cold gel pad)	No pain relief or usual care	Relative (95% CI)	Absolute (95% CI)	Certainty (GRADE)	
Addition	al analgesia foi	relief of perir	neal pain within	24 hours of bir	th – non-preso	ription analgesia						
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	serious <sup>d</sup>	none	59/215 (27.4%)	32/101 (31.7%)	<b>RR 0.87</b> (0.60 to 1.24)	41 fewer per 1000 (from 127 fewer to 76 more)	⊕○○○ VERY LOW	IMPORTANT
Addition	al analgesia foi	relief of perin	neal pain within	24 hours of bir	th – prescripti	on analgesia		-				•
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	serious <sup>d</sup>	none	61/215 (28.4%)	23/101 (22.8%)	<b>RR 1.25</b> (0.82 to 1.89)	<b>57 more per 1000</b> (from 41 fewer to 203 more)	⊕○○○ VERY LOW	IMPORTANT
Addition	al analgesia foi	relief of perin	neal pain 24–48 l	hours after birt	th – non-presc	ription analgesia						•
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	serious <sup>d</sup>	none	51/215 (23.7%)	28/101 (27.7%)	<b>RR 0.86</b> (0.58 to 1.27)	39 fewer per 1000 (from 116 fewer to 75 more)	⊕○○○ VERY LOW	IMPORTANT
Addition	al analgesia foi	relief of perin	neal pain 24–48 l	hours after birt	th – prescriptio	on analgesia		<u> </u>				L
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	serious <sup>d</sup>	none	60/215 (27.9%)	21/101 (20.8%)	<b>RR 1.34</b> (0.87 to 2.08)	<b>71 more per 1000</b> (from 27 fewer to 225 more)	⊕○○○ VERY LOW	IMPORTANT
Pain asso	ociated with ac	tivities of daily	living (sitting) v	within 24 hours	of birth	<u> </u>		!		!		ļ
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	not serious	none	206/212 (97.2%)	94/100 (94.0%)	<b>RR 1.03</b> (0.98 to 1.09)	<b>28 more per 1000</b> (from 19 fewer to 85 more)	⊕⊕○○ LOW	IMPORTANT
Pain asso	ociated with ac	tivities of daily	living (sitting) 2	24–48 hours aft	ter birth			•				1
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	not serious	none	203/212 (95.8%)	96/100 (96.0%)	<b>RR 1.00</b> (0.95 to 1.05)	0 fewer per 1000 (from 48 fewer to 48 more)	⊕⊕⊖⊖ LOW	IMPORTANT
Pain asso	ociated with ac	tivities of daily	living (walking)	within 24 hou	rs after birth	1						1
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	not serious	none	196/212 (92.5%)	92/100 (92.0%)	<b>RR 1.00</b> (0.94 to 1.08)	<b>0 fewer per 1000</b> (from 55 fewer to 74 more)	⊕⊕⊖⊖ LOW	IMPORTANT

			Certainty asses	sment			Nº of patients		E	ffect		
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Cooling treatment (ice pack or cold gel pad)	No pain relief or usual care	Relative (95% CI)	Absolute (95% CI)	Certainty (GRADE)	Importance
Pain ass	ociated with ac	tivities of daily	living (walking)	24–48 hours a	after birth							
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	not serious	none	190/212 (89.6%)	89/100 (89.0%)	<b>RR 1.01</b> (0.93 to 1.09)	9 more per 1000 (from 62 fewer to 80 more)	⊕⊕○○ LOW	IMPORTANT
Pain ass	ociated with ac	tivities of daily	living (feeding	baby) within 2	4 hours of birt	h		1				
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	serious <sup>d</sup>	none	88/212 (41.5%)	36/99 (36.4%)	<b>RR 1.14</b> (0.84 to 1.55)	51 more per 1000 (from 58 fewer to 200 more)	⊕○○○ VERY LOW	IMPORTANT
Pain ass	ociated with ac	tivities of daily	living (feeding	baby) 24–48 h	ours after birth	1				·		
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	serious <sup>d</sup>	none	66/211 (31.3%)	36/100 (36.0%)	<b>RR 0.87</b> (0.63 to 1.21)	47 fewer per 1000 (from 133 fewer to 76 more)	⊕○○○ VERY LOW	IMPORTANT
Materna	l views and exp	periences of tr	eatment at day	10 – satisfactio	n with overall	perineal care (go	od + very good +	excellent)		1		
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	not serious	none	187/208 (89.9%)	84/100 (84.0%)	<b>RR 1.07</b> (0.97 to 1.18)	<b>59 more per 1000</b> (from 25 fewer to 151 more)	⊕⊕○○ LOW	IMPORTANT
Women	providing any b	oreastmilk to b	aby 24–48 hour	s after birth	1	ı		1		ı		ı
1	randomized trials	serious <sup>a</sup>	not serious	serious <sup>b</sup>	serious <sup>d</sup>	none	122/215 (56.7%)	64/100 (64.0%)	<b>RR 0.89</b> (0.73 to 1.07)	<b>70 fewer per 1000</b> (from 173 fewer to 45 more)	⊕○○○ VERY LOW	IMPORTANT

CI: confidence interval; MD: mean difference; RR: risk ratio.

a. Most of the pooled effect provided by studies "B" or "C" but without a substantial proportion (i.e. < 50%) from studies "C".

b. Intervention was mainly focused on prevention and not relief of pain.

c. Less than 400 participants.

d. Wide confidence interval crossing the line of no effect.

e. Less than 300 participants.