

Comparison 2.d(ii). Diamorphine intramuscular (IM) plus prochlorperazine compared with pethidine (IM) plus prochlorperazine

Source:† Ullman R, Smith LA, Burns E, Mori R, Dowswell T. Parenteral opioids for maternal pain management in labour. Cochrane Database Syst Rev. 2010;(9):CD007396.

No. of studies	Study design	Quality assessment					No. of participants		Effect		Certainty (GRADE)	Importance
		Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Diamorphine (IM) plus prochlorperazine	Pethidine (IM) plus prochlorperazine	Relative (95% CI)	Absolute (95% CI)		
Global assessment of pain relief at 24 hours												
1	RCT	serious ^a	not serious	not serious	very serious ^b	none	37/65 (56.9%)	44/68 (64.7%)	RR 0.88 (0.67-1.16)	78 fewer per 1000 (from 104 more to 214 fewer)	⊕○○○ VERY LOW	critical
Pain intensity at 1 hour ("moderate" or "severe")												
1	RCT	serious ^a	not serious	not serious	very serious ^b	none	48/65 (73.8%)	59/68 (86.8%)	RR 0.85 (0.72-1.01)	130 fewer per 1000 (from 9 more to 243 fewer)	⊕○○○ VERY LOW	critical
Additional analgesia needed												
1	RCT	serious ^a	not serious	not serious	very serious ^c	none	9/65 (13.8%)	7/68 (10.3%)	RR 1.35 (0.53-3.40)	36 more per 1000 (from 48 fewer to 247 more)	⊕○○○ VERY LOW	critical
Epidural												
1	RCT	serious ^a	not serious	not serious	very serious ^b	none	21/65 (32.3%)	18/68 (26.5%)	RR 1.22 (0.72-2.07)	58 more per 1000 (from 74 fewer to 283 more)	⊕○○○ VERY LOW	critical
Assisted vaginal delivery												
1	RCT	serious ^a	not serious	not serious	very serious ^c	none	11/65 (16.9%)	12/68 (17.6%)	RR 0.96 (0.46-2.02)	7 fewer per 1000 (from 95 fewer to 180 more)	⊕○○○ VERY LOW	critical
Caesarean section												
1	RCT	serious ^a	not serious	not serious	very serious ^c	none	2/65 (3.1%)	4/68 (5.9%)	RR 0.52 (0.10-2.76)	28 fewer per 1000 (from 53 fewer to 104 more)	⊕○○○ VERY LOW	critical

† Updated for the purpose of this guideline.

No. of studies	Study design	Quality assessment					No. of participants		Effect		Certainty (GRADE)	Importance
		Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Diamorphine (IM) plus prochlorperazine	Pethidine (IM) plus prochlorperazine	Relative (95% CI)	Absolute (95% CI)		
Vomiting												
1	RCT	serious ^a	not serious	not serious	serious ^d	none	7/65 (10.8%)	19/68 (27.9%)	RR 0.39 (0.17-0.86)	170 fewer per 1000 (from 39 fewer to 232 fewer)	⊕⊕○○ LOW	critical
Maternal sleepiness												
1	RCT	serious ^a	not serious	not serious	very serious ^b	none	16/65 (24.6%)	18/68 (26.5%)	RR 0.93 (0.52-1.66)	19 fewer per 1000 (from 127 fewer to 175 more)	⊕○○○ VERY LOW	critical
Apgar < 7 at 5 minutes												
1	RCT	serious ^a	not serious	not serious	very serious ^c	none	1/65 (1.5%)	3/68 (4.4%)	RR 0.35 (0.04-3.27)	29 fewer per 1000 (from 42 fewer to 100 more)	⊕○○○ VERY LOW	critical
Neonatal resuscitation												
1	RCT	serious ^a	not serious	not serious	very serious ^b	none	22/65 (33.8%)	19/68 (27.9%)	RR 1.21 (0.73-2.02)	59 more per 1000 (from 75 fewer to 285 more)	⊕○○○ VERY LOW	critical

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

^a Effect estimate derived from a single study with a moderate risk of bias.

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

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

^d Few events and small sample size.