

Supplement S1

outcomes for spinal fusion patients

Outcomes	Illustrative comparative risks* (95% CI)		Relative effect (95% CI)	No of Participants (studies)	Quality of the evidence (GRADE)	Comments
	Assumed risk	Corresponding risk				
	Control	Outcomes				
VAS		The mean vas in the intervention groups was 8.85 lower (10.77 to 6.93 lower)		2161 (10)		
VAS - VAS at 12 h		The mean vas - vas at 12 h in the intervention groups was 7.45 lower (9.08 to 5.82 lower)		916 (9 studies)	⊕ ⊕ ⊕ ⊖ moderate ^{1,2}	
VAS - VAS at 24 h		The mean vas - vas at 24 h in the intervention groups was 10.97 lower (15.15 to 6.79 lower)		564 (8 studies)	⊕ ⊕ ⊕ ⊖ moderate ³	
VAS - VAS at 48 h		The mean vas - vas at 48 h in the intervention groups was 9.6 lower (15.23 to 3.97 lower)		417 (5 studies)	⊕ ⊕ ⊖ ⊖ low ⁴	
VAS - VAS at 72 h		The mean vas - vas at 72 h in the intervention groups was 5.33 lower (6.95 to 3.71 lower)		264 (3 studies)	⊕ ⊕ ⊕ ⊖ moderate ⁵	
Total morphine consumption		The mean total morphine consumption in the intervention groups was 5.24 lower (6.53 to 3.95 lower)		703 (7 studies)	⊕ ⊕ ⊖ ⊖ low ⁶	
Length of hospital stay		The mean length of hospital stay in the intervention groups was 0.86 lower (1.15 to 0.57 lower)		404 (5 studies)	⊕ ⊕ ⊕ ⊕ high	
PONV	Study population		RR 0.44 (0.31 to 0.62)	753 (7 studies)	⊕ ⊕ ⊕ ⊕ high	
	240 per 1000	106 per 1000 (74 to 149)				
	Moderate					
	194 per 1000	85 per 1000 (60 to 120)				
Infection	Study population		RR 0.78 (0.32 to 1.86)	417 (6 studies)	⊕ ⊕ ⊕ ⊕ high	
	47 per 1000	37 per 1000 (15 to 87)				
	Moderate					
	43 per 1000	34 per 1000 (14 to 80)				

*The basis for the **assumed risk** (e.g. the median control group risk across studies) is provided in footnotes. The **corresponding risk** (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI).

CI: Confidence interval; **RR:** Risk ratio;

GRADE Working Group grades of evidence

High quality: Further research is very unlikely to change our confidence in the estimate of effect.

Moderate quality: Further research is likely to have an important impact on our confidence in the estimate of effect and may change the estimate.

Low quality: Further research is very likely to have an important impact on our confidence in the estimate of effect and is likely to change the estimate.

Very low quality: We are very uncertain about the estimate.

¹ I²=88%

² I²=49%

³ I²=90%

⁴ I²=65%

⁵ No explanation was provided

⁶ I²=68%

Supplement S1: GRADE profile evidence for outcomes.