

Appendix Table 7. Summary of Findings - Polyurethane Dressing Compared to Integrated Securement Dressing (ISD)

Patient or population: Pediatrics
Setting: Hospitalized pediatric patients
Intervention: Polyurethane dressing
Comparison: Integrated Securement Dressing (ISD)

Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	№ of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with Integrated Securement Dressing (ISD)	Risk with Polyurethane dressing				
Infiltration/extravasation	229 per 1,000	169 per 1,000 (98 to 290)	RR 0.74 (0.43 to 1.27)	212 (1 RCT)	⊕⊕○○ LOW ^a	
Dislodgement	76 per 1,000	37 per 1,000 (11 to 120)	RR 0.49 (0.15 to 1.58)	212 (1 RCT)	⊕⊕○○ LOW ^a	
PVC failure during dwell	448 per 1,000	291 per 1,000 (201 to 416)	RR 0.65 (0.45 to 0.93)	212 (1 RCT)	⊕⊕⊕○ MODERATE _b	
Occlusion	133 per 1,000	47 per 1,000 (17 to 125)	RR 0.35 (0.13 to 0.94)	212 (1 RCT)	⊕⊕⊕○ MODERATE _b	
Phlebitis/pain	105 per 1,000	57 per 1,000 (22 to 146)	RR 0.54 (0.21 to 1.39)	212 (1 RCT)	⊕⊕○○ LOW ^a	

*The risk in the intervention group (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 certainty: We are very confident that the true effect lies close to that of the estimate of the effect

Moderate certainty: We are moderately confident in the effect estimate: The true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different

Low certainty: Our confidence in the effect estimate is limited: The true effect may be substantially different from the estimate of the effect

Very low certainty: We have very little confidence in the effect estimate: The true effect is likely to be substantially different from the estimate of effect

Explanations

- a. Downgraded 2 levels: Imprecision (small sample size and wide confidence interval)
- b. Downgraded 1 level: Imprecision (small sample size)