

Appendix Table 8. Summary of Findings - Polyurethane Dressing Compared to Tissue Adhesive

**Patient or population:** Pediatrics  
**Setting:** Hospitalized pediatric patients  
**Intervention:** Polyurethane dressing  
**Comparison:** Tissue adhesive

Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	№ of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with Tissue adhesive	Risk with Polyurethane dressing				
Infiltration/extravasation	229 per 1,000	<b>178 per 1,000</b> (103 to 304)	<b>RR 0.78</b> (0.45 to 1.33)	212 (1 RCT)	⊕⊕○○ LOW <sup>a</sup>	
Dislodgement	76 per 1,000	<b>28 per 1,000</b> (8 to 103)	<b>RR 0.37</b> (0.10 to 1.35)	212 (1 RCT)	⊕⊕○○ LOW <sup>a</sup>	
PIVC failure during dwell	429 per 1,000	<b>317 per 1,000</b> (223 to 454)	<b>RR 0.74</b> (0.52 to 1.06)	212 (1 RCT)	⊕⊕○○ LOW <sup>a</sup>	
Occlusion	133 per 1,000	<b>121 per 1,000</b> (60 to 245)	<b>RR 0.91</b> (0.45 to 1.84)	212 (1 RCT)	⊕⊕○○ LOW <sup>a</sup>	
Phlebitis/pain	133 per 1,000	<b>56 per 1,000</b> (23 to 140)	<b>RR 0.42</b> (0.17 to 1.05)	212 (1 RCT)	⊕⊕○○ LOW <sup>a</sup>	

\*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: (Small sample size and wide confidence interval)