

Appendix Table 4. Summary of Findings - Long PIVC Compared to Short PIVC

**Patient or population:** pediatrics  
**Setting:** Hospitalized pediatric patients  
**Intervention:** Standard PIVC  
**Comparison:** Long PIVC

Outcomes	Anticipated absolute effects* (95% CI)		Relative effect (95% CI)	№ of participants (studies)	Certainty of the evidence (GRADE)	Comments
	Risk with Long PIVC	Risk with Standard PIVC				
PIVC failure during dwell	194 per 1,000	<b>667 per 1,000</b> (331 to 1,000)	<b>RR 3.43</b> (1.70 to 6.93)	72 (1 RCT)	⊕⊕⊕○ MODERATE <sub>a</sub>	
Overall insertion success	1,000 per 1,000	<b>1000 per 1,000</b> (950 to 1,000)	<b>RR 1.00</b> (0.95 to 1.05)	72 (1 RCT)	⊕⊕○○ LOW <sup>b</sup>	
Infiltration/Extravasation	333 per 1,000	<b>27 per 1,000</b> (3 to 203)	<b>RR 0.08</b> (0.01 to 0.61)	72 (1 RCT)	⊕⊕⊕○ MODERATE <sub>a</sub>	
Phlebitis/pain	28 per 1,000	<b>28 per 1,000</b> (2 to 427)	<b>RR 1.00</b> (0.07 to 15.38)	72 (1 RCT)	⊕⊕⊕○ MODERATE <sub>a</sub>	

\*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 1 level: Imprecision (small sample size)
- b. Downgraded 2 levels: Imprecision (small sample size and no events)