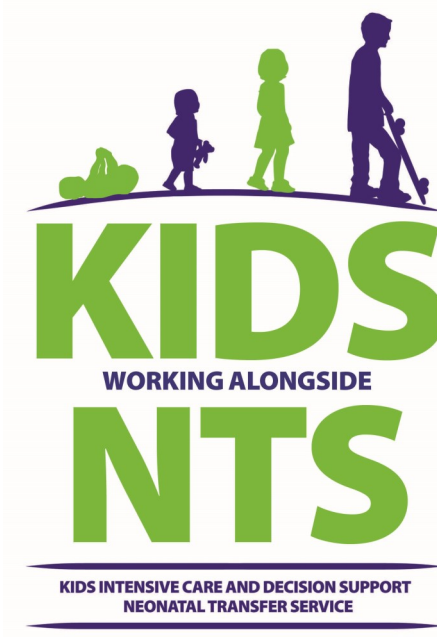


# Impact of a Dynamic Needle Tracking Vascular Access course



Birmingham Women's and Children's NHS Foundation Trust

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## AIM

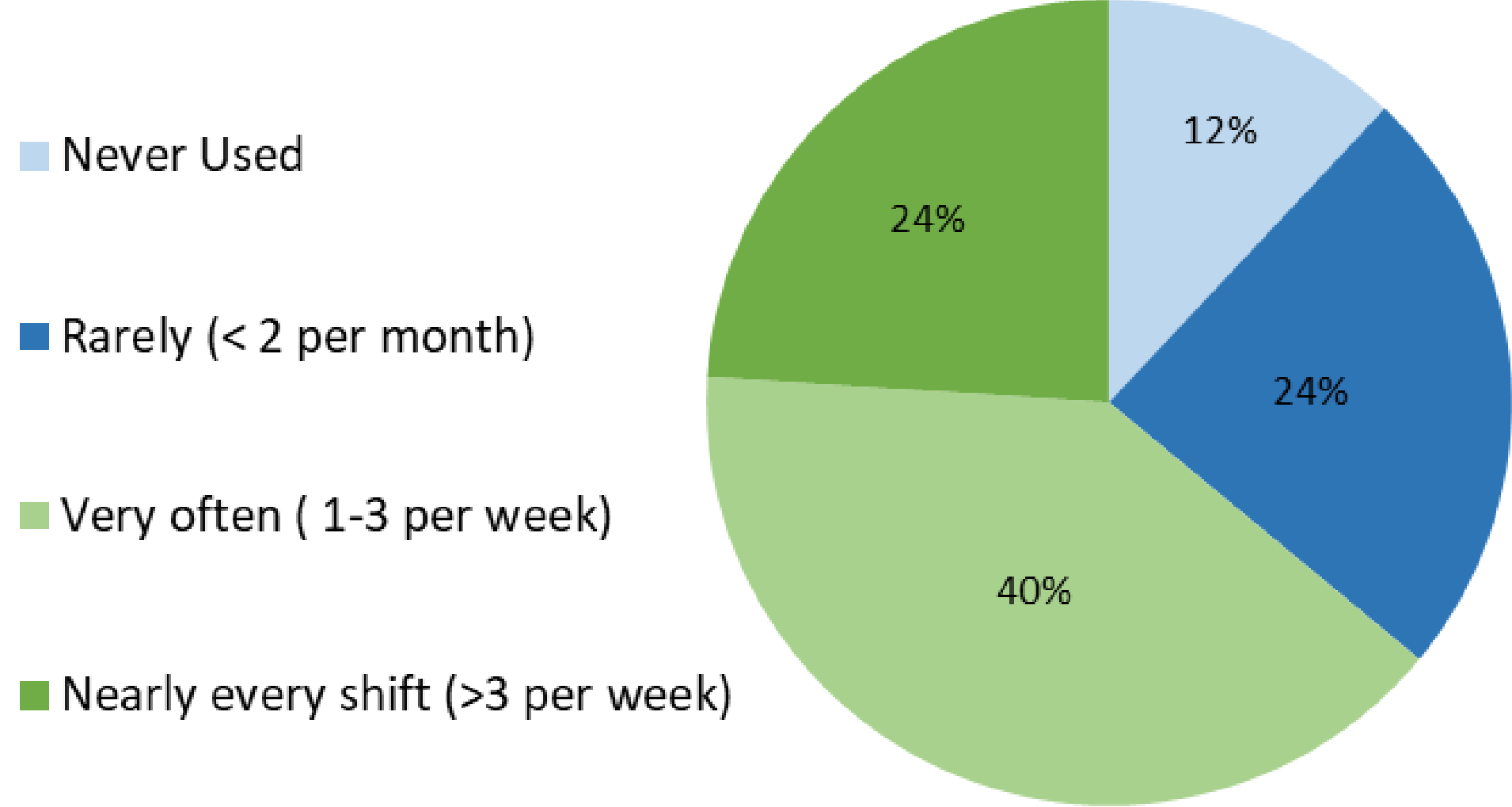
To improve confidence scores and 1st-attempt success rates with a structured DNT training course.

## METHODS

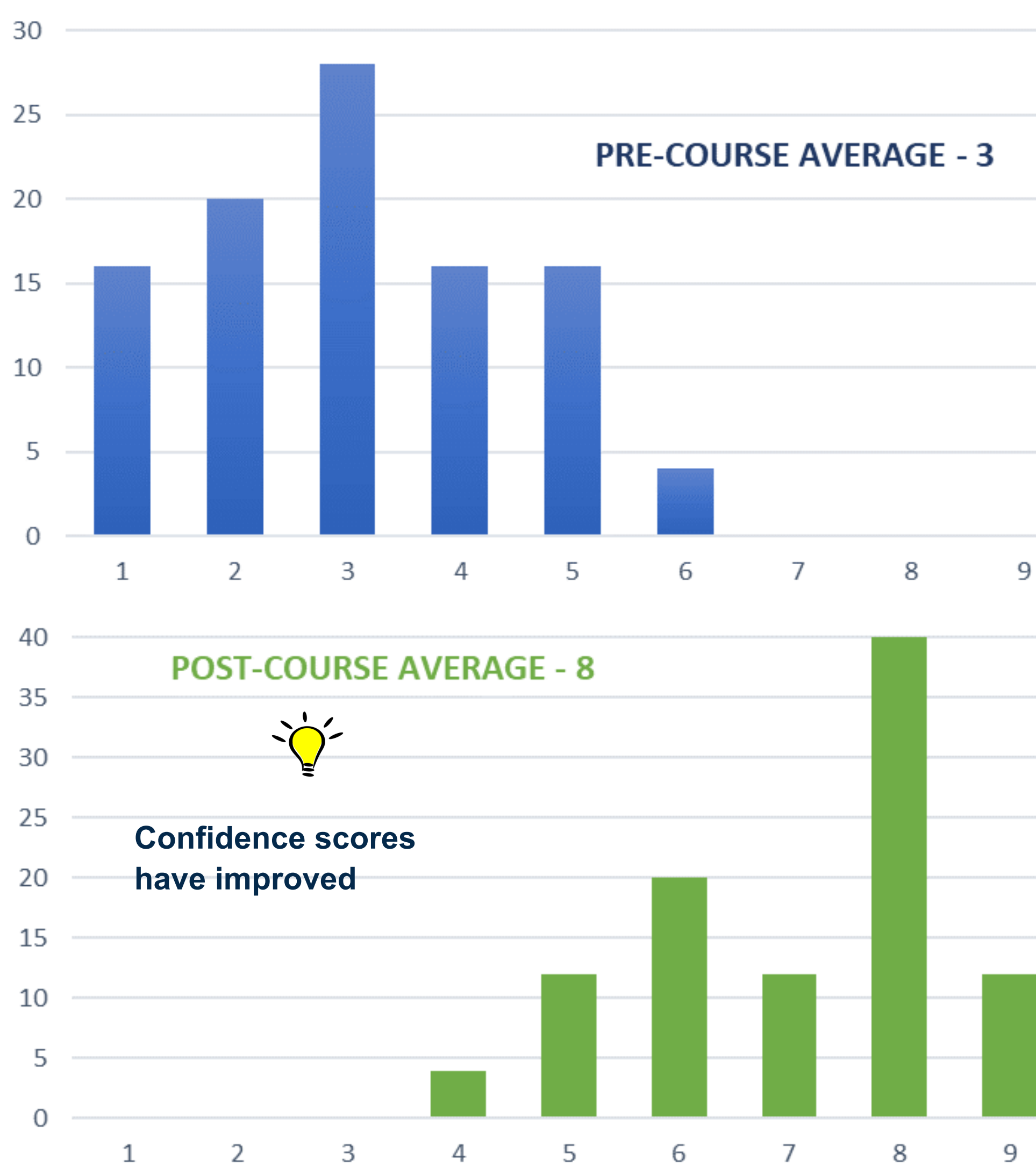
- 25 PICU participants
- 3 courses conducted in 2021
- Curriculum-based, small group workshop and lecture format DNT training.
- Feedback survey - pre and post course.

## KEY FINDINGS

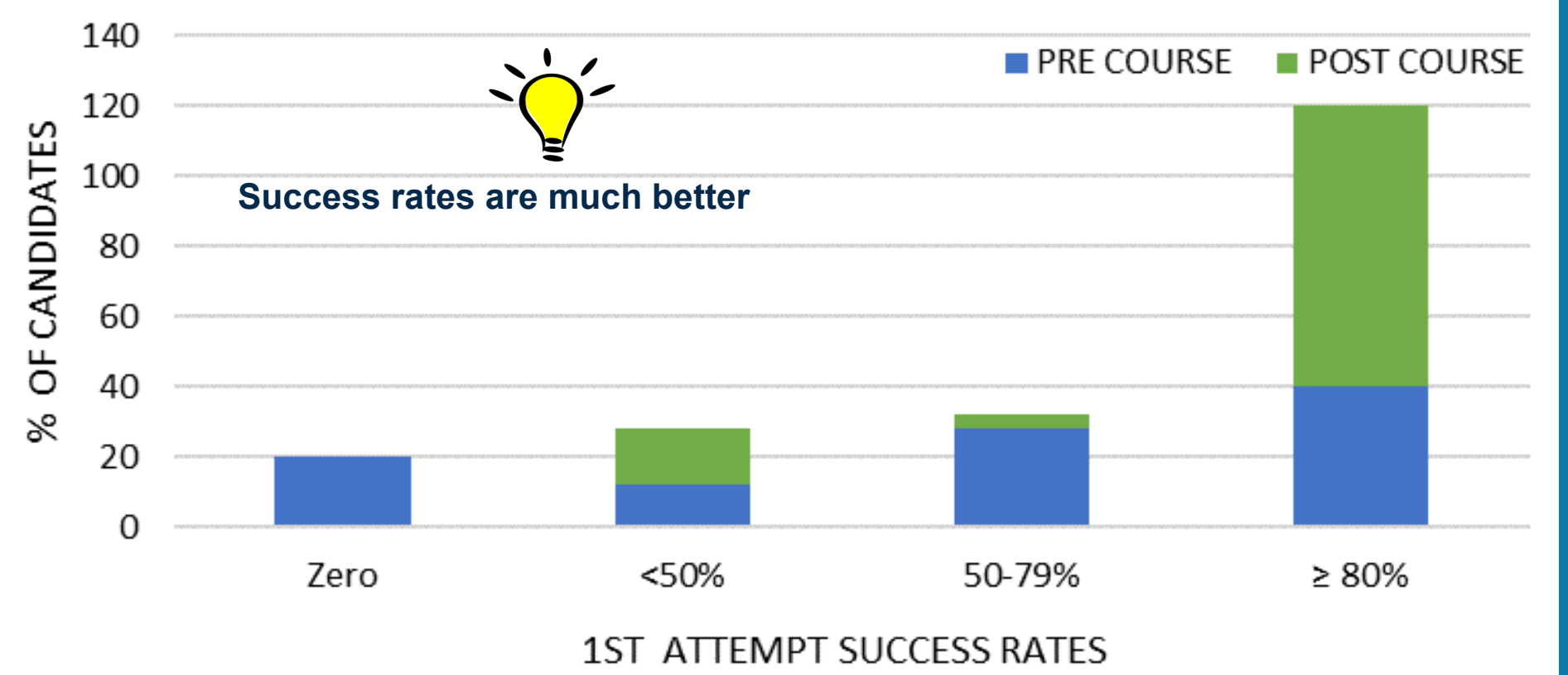
### PRECOURSE USG USER EXPERIENCE



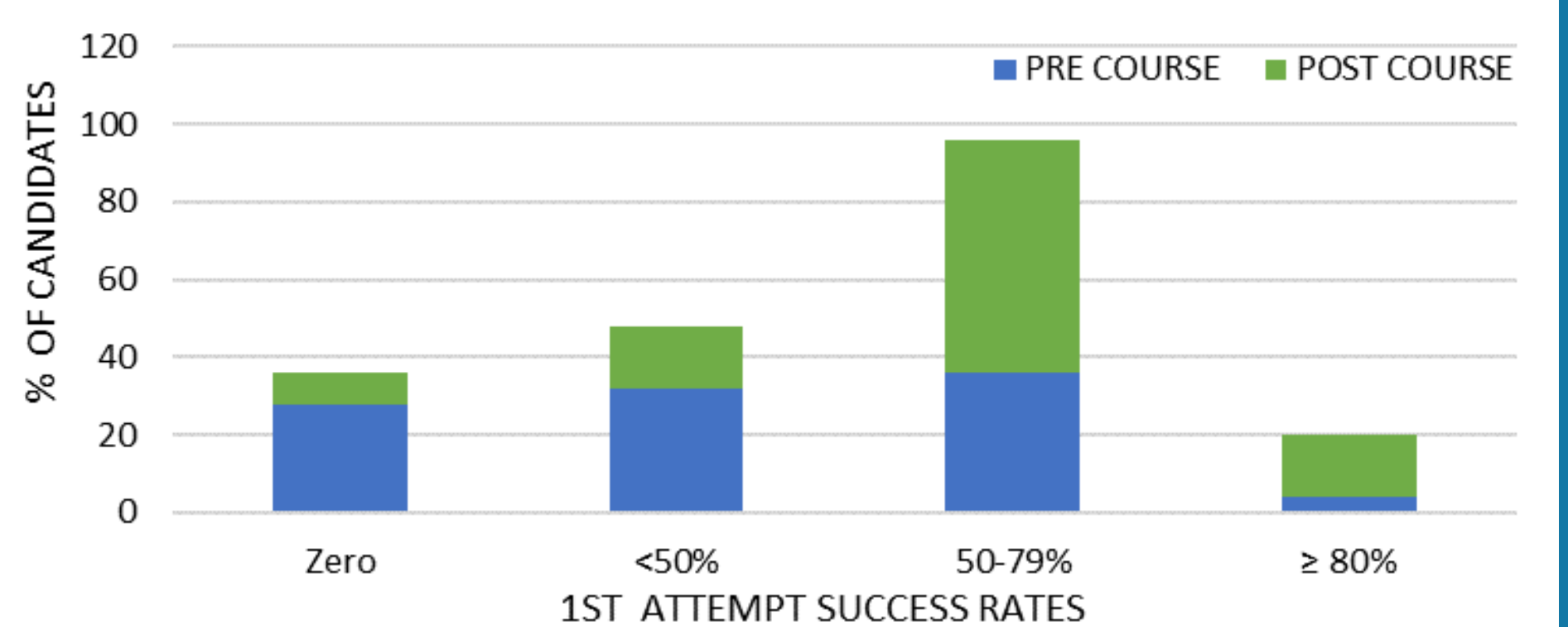
### CONFIDENCE SCORES



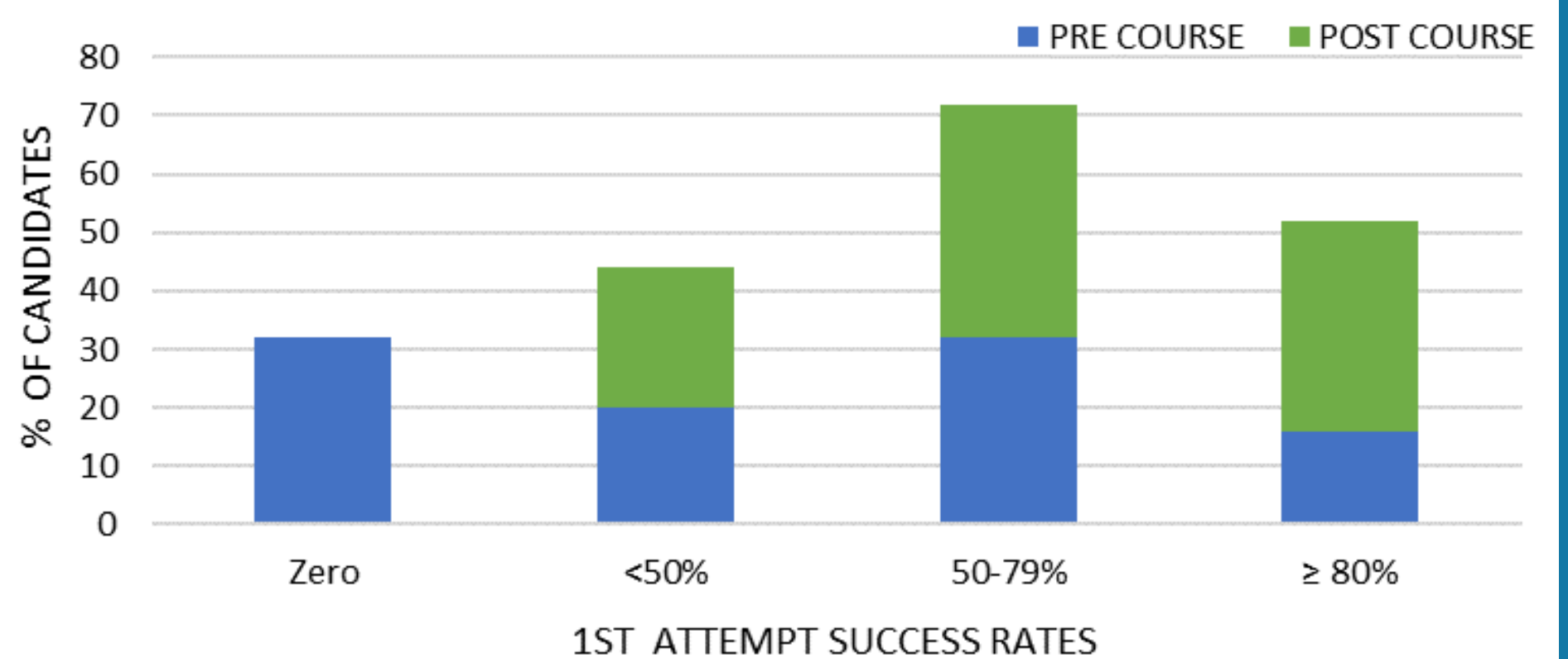
### CENTRAL VENOUS LINE SUCCESS RATES



### PERIPHERAL IV SUCCESS RATES



### ARTERIAL LINE SUCCESS RATES



## CONCLUSION

Providing structured DNT training can significantly improve user confidence and success rates in paediatric vascular access.

**References:** Nakayama, Y., Takeshita, J., Nakajima, Y. et al. Ultrasound-guided peripheral vascular catheterization in pediatric patients: a narrative review. Crit Care 24, 592 (2020). <https://doi.org/10.1186/s13054-020-03305-7>

