

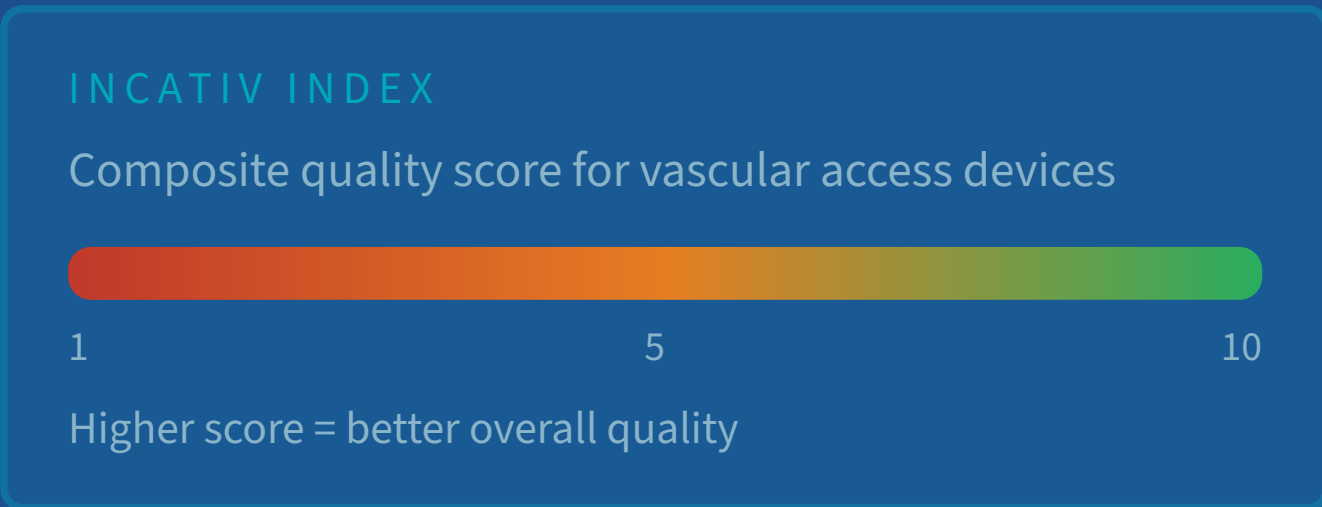
Pediatric Vascular Access Quality by Device & Setting: A Multicenter Analysis of the INCATIV Index

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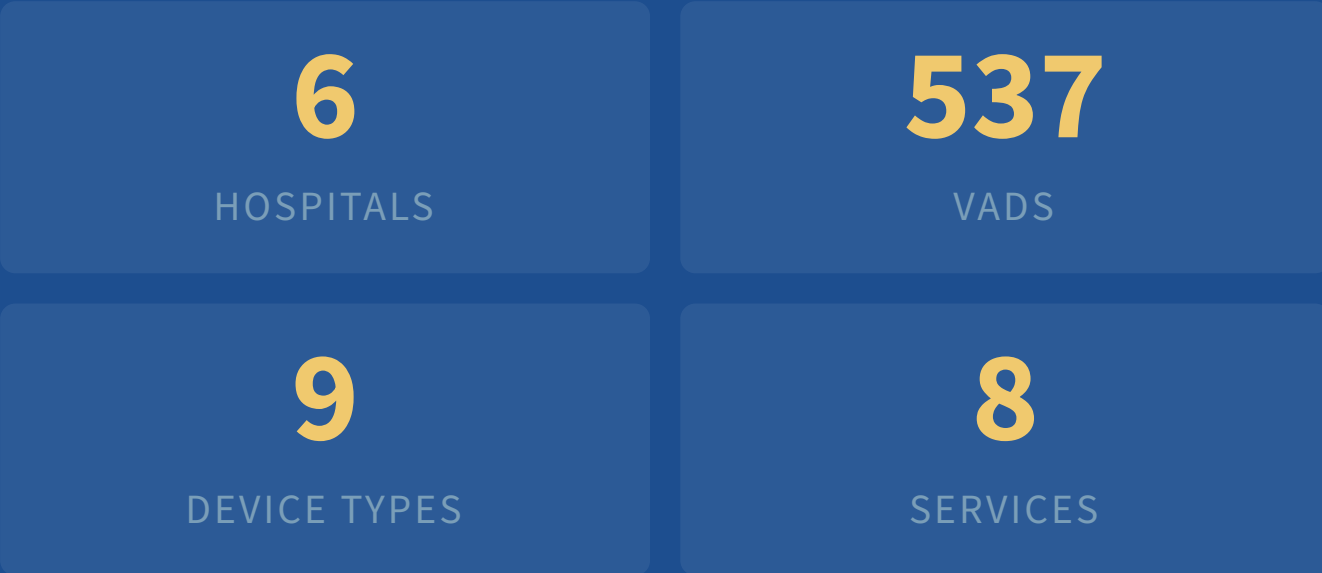
BACKGROUND

Vascular access quality is critical in pediatric and neonatal patients. Yet, few tools provide a comprehensive, quantitative assessment of access quality in real-world settings.



STUDY DESIGN

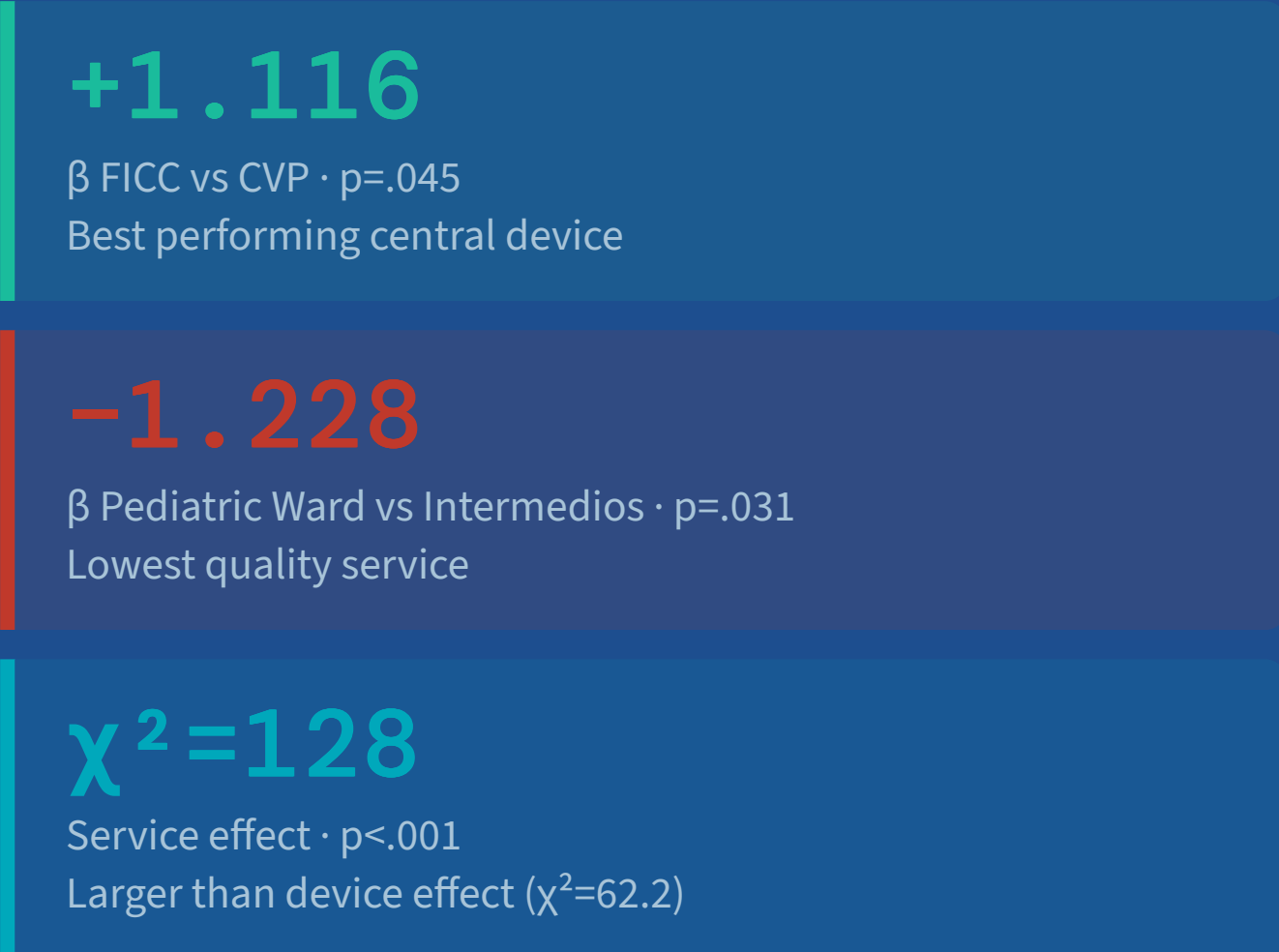
Multicenter · Observational
Descriptive · Cross-sectional



OBJECTIVE

To assess how catheter type and clinical service influence INCATIV Index scores in routine pediatric and neonatal practice.

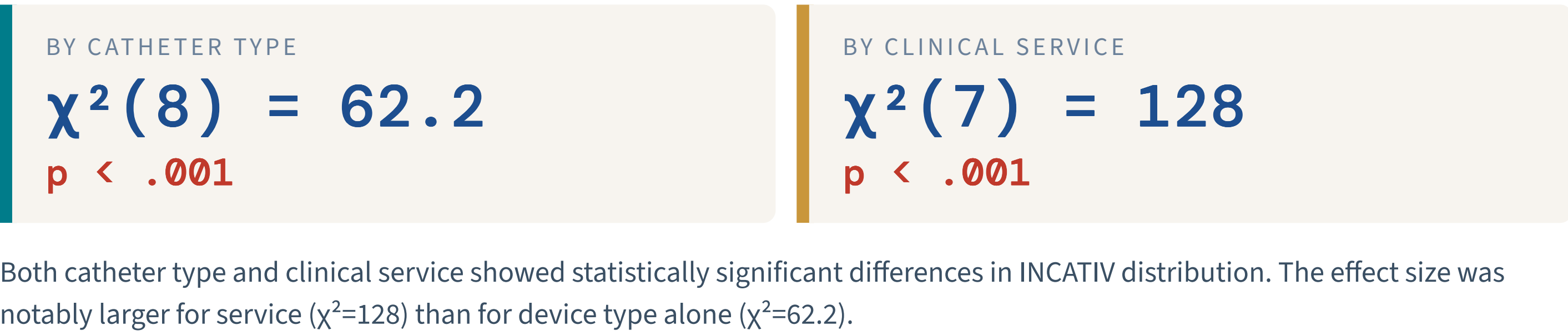
KEY FINDINGS



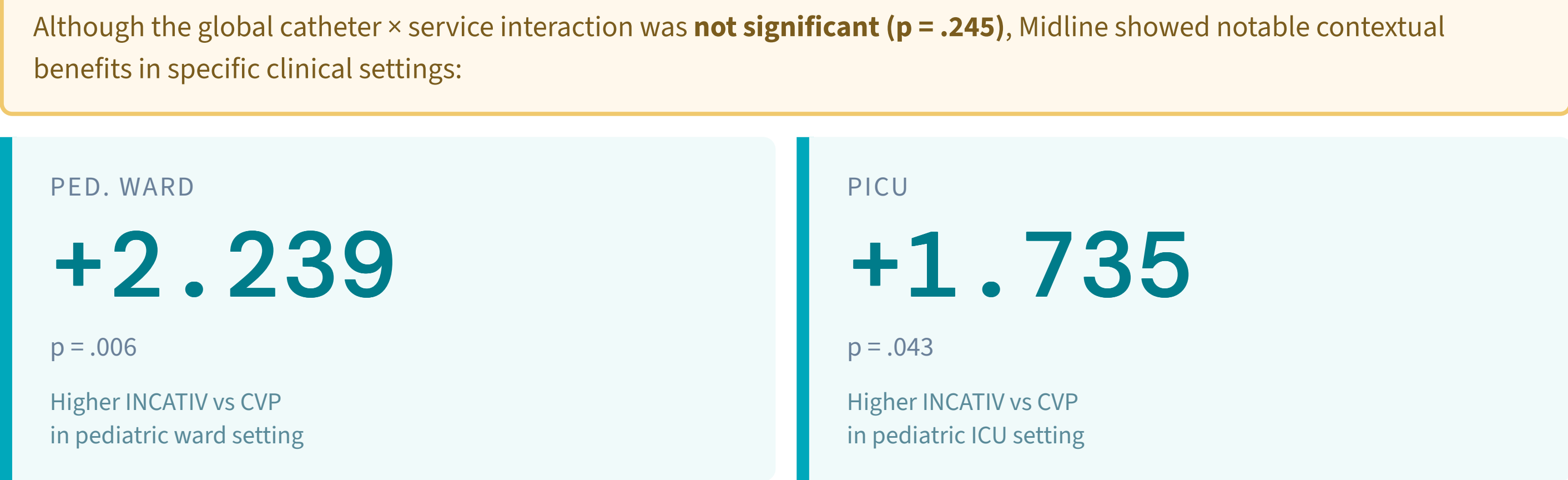
METHODS

- **Variables:**catheter type, clinical service, age (months), INCATIV Index (1–10)
- **Kruskal–Wallis test**to compare INCATIV distributions across device types and services
- **General Linear Model (GLM)**with INCATIV as dependent variable; catheter type & service as factors; age as covariate
- Results reported as**β, 95% CI, p-value**
- Reference categories: CVP (catheter); Pediatric Intermediate Care (service)

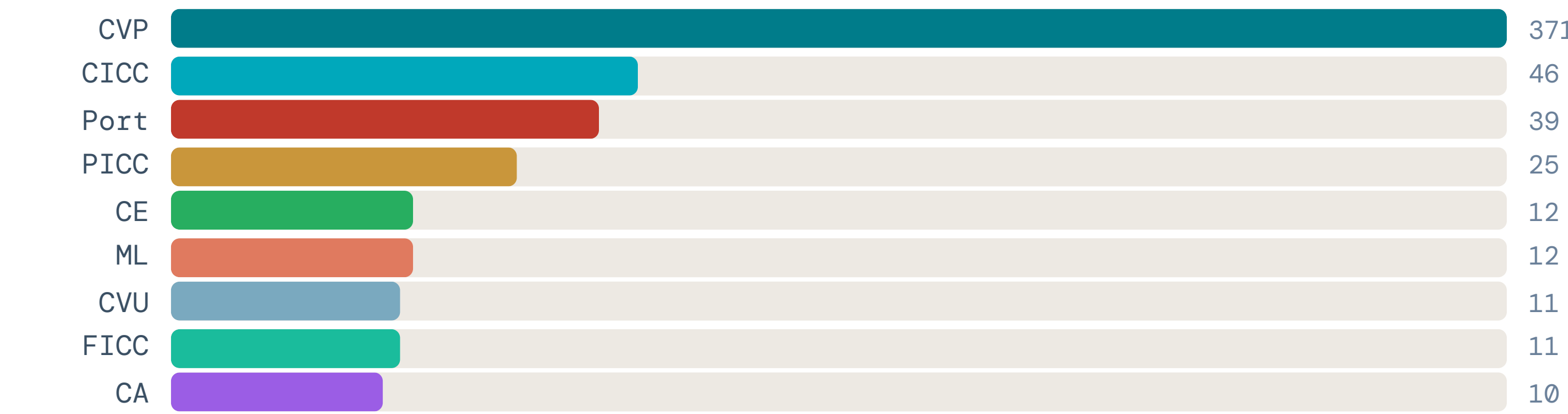
KRUSKAL–WALLIS TEST



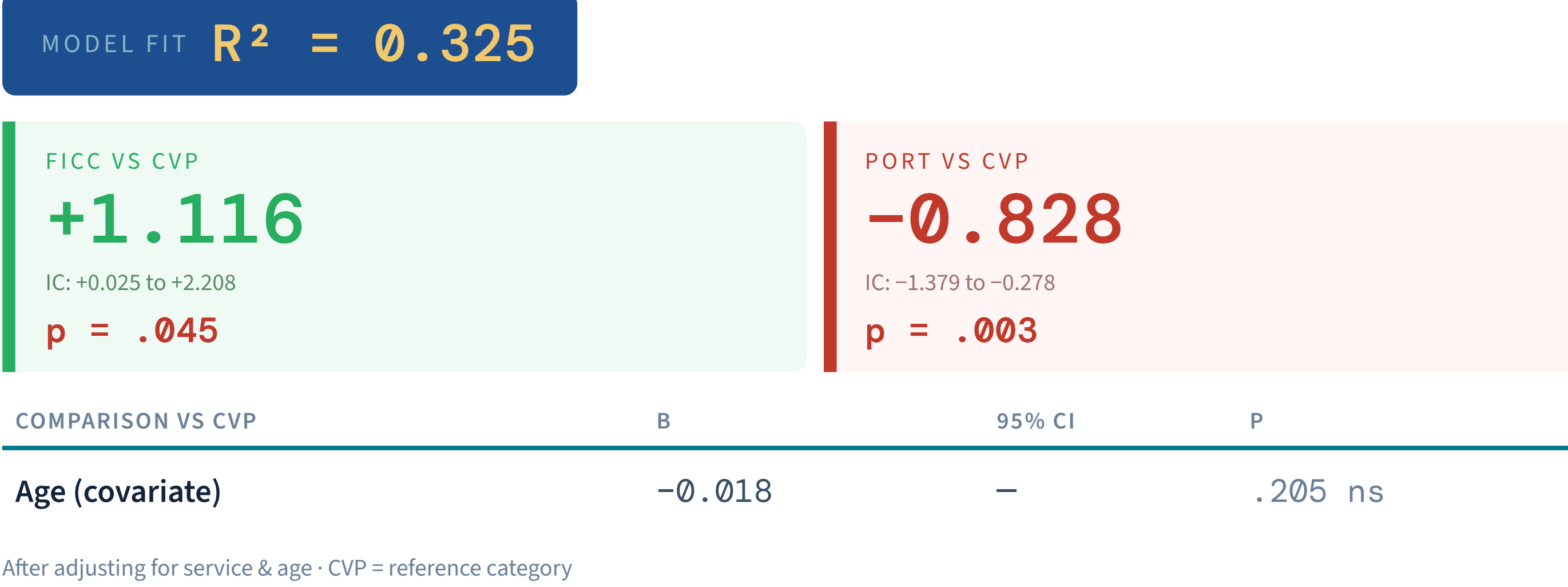
CONTEXTUAL ADVANTAGES – MIDLINE



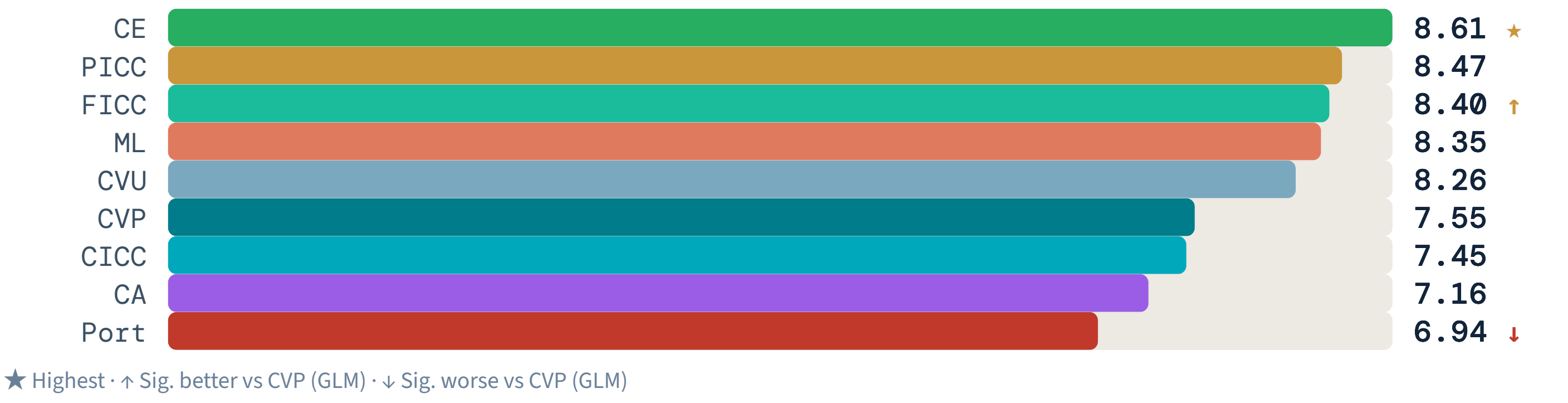
SAMPLE DISTRIBUTION



GLM – DEVICE EFFECTS



INCATIV MEAN BY DEVICE



GLM – SERVICE EFFECTS

SERVICE	B VS REF	P
Ped. Intermediate Care	REF	—
Pediatric Ward	-1.228	.031
PICU	—	ns
NICU	—	ns

Catheter × Service interaction: p = .245 (ns overall)

CONCLUSIONS

