

Supplementary material for:
Postoperative PICU Utilisation Following Paediatric Oncology Surgery: National Trends Across Two Policy Eras in England (2008–2022)

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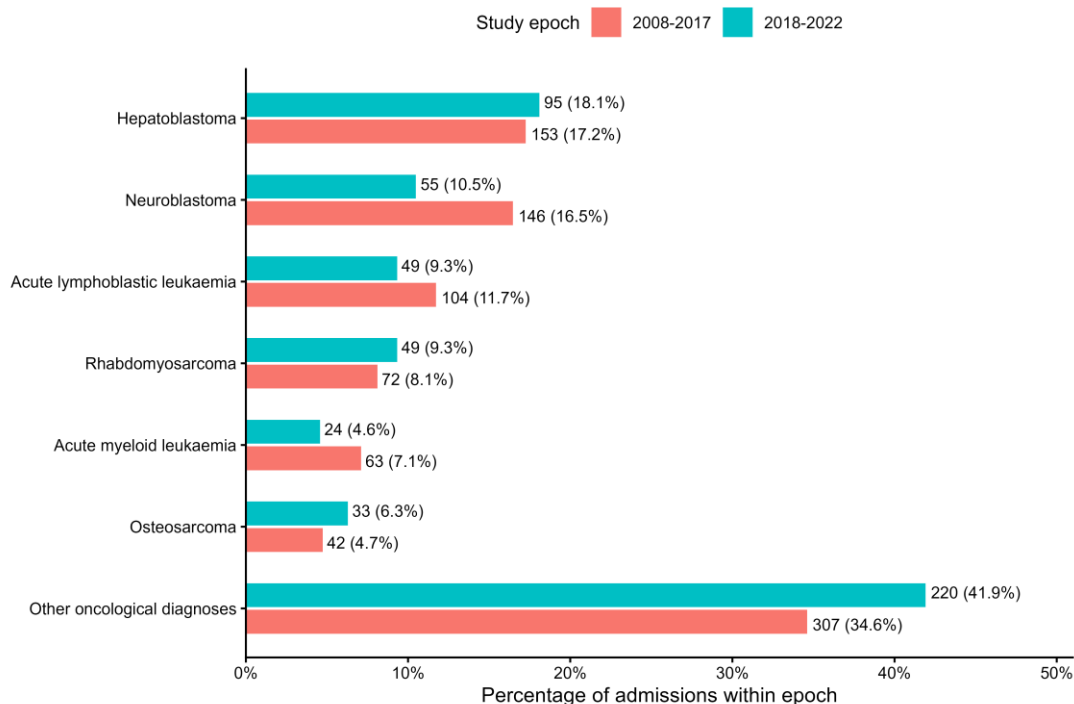
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Electronic Supplementary Material 2

Supplementary Figure and Tables

Supplementary Fig. 1 Oncological case-mix by study epoch

The distribution of the six displayed oncological diagnoses and pooled 'Other' category differed between epochs (Fisher's exact test with Monte Carlo simulation, $p=0.002$). Bars show the percentage of admissions within each epoch, with labels indicating n (%).



Supplementary Table 1 Sensitivity analyses of PIM3 adjustment and functional form in vasoactive-support model

Adjusted odds ratios compare 2018–2022 with 2008–2017. All models were fitted to the same vasoactive-support cohort and adjusted for age, primary diagnostic group and admission type. Bias-reduced logistic regression was used. The primary model is shown in bold.

PIM3 specification	Adjusted OR	95% CI	p-value	Analysis n
No PIM3 adjustment	1.24	0.92-1.68	0.161	1,412
Raw PIM3 probability, linear	1.39	1.02-1.89	0.038	1,412
Raw PIM3 probability, natural spline (3 df)	2.01	1.41-2.85	<0.001	1,412
Logit-transformed PIM3, linear (primary)	2.06	1.46-2.90	<0.001	1,412
Logit-transformed PIM3, natural spline (2 df)	2.11	1.48-3.00	<0.001	1,412

Supplementary Table 2 Odds ratios for secondary outcomes, comparing all admissions (n=1,412) with first admissions only (n=1,250)

Outcome	Primary Analysis	First Admission Only
Invasive ventilation	1.09 (0.87-1.37)	1.14 (0.90-1.46)
Vasoactive support	2.06 (1.46-2.90)	2.09 (1.46-3.00)
Mortality	0.87 (0.30-2.56)	1.08 (0.36-3.30)