## Acknowledgements

We would like to thank the SAMueL project team, the Patient and Carer Involvement team, and the expert advisory group, for their input into this work (see appendix for details).

## Data access and ethics

The NHS Health Research Authority decision tool was used to confirm that ethical approval was not required to access the data. No identifiable patient or hospital information were provided in the data, and anonymised hospital names were provided. Governance of the data and access to SSNAP was authorised by the Healthcare Quality Improvement Partnership (HQIP, reference HQIP303).

## Funding

This research was funded by the National Institute for Health Research Applied Research Collaboration South West Peninsula and by the National Institute for Health Research Health and Social Care Delivery Research (HSDR) Programme [NIHR134326]. The views expressed in this publication are those of the authors and not necessarily those of the National Institute for Health Research or the Department of Health and Social Care.

## Author approval

All authors have seen and approved this manuscript.

## Conflict of interest statement

All authors declare no conflicts of interest.

## Links to source code, and online Jupyter book

1. GitHub repository: <https://github.com/samuel-book/samuel_shap_paper_1>
2. Jupyter book: <https://samuel-book.github.io/samuel_shap_paper_1/>