nature portfolio

Corresponding author(s):	Harlan Krumholz
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Reporting Summary

Nature Portfolio wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Portfolio policies, see our <u>Editorial Policies</u> and the <u>Editorial Policy Checklist</u>.

For all statistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.

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n/a Conf	firmed
	The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement
	A statement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly
	The statistical test(s) used AND whether they are one- or two-sided Only common tests should be described solely by name; describe more complex techniques in the Methods section.
	A description of all covariates tested
	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons
	A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)
	For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i>) with confidence intervals, effect sizes, degrees of freedom and <i>P</i> value noted <i>Give P values as exact values whenever suitable.</i>
⊠ □ F	For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings
⊠ □ F	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes
	Estimates of effect sizes (e.g. Cohen's d , Pearson's r), indicating how they were calculated
	Our web collection on statistics for biologists contains articles on many of the points above.
Softwa	are and code

Policy information about availability of computer code

Data collection

Survey data were collected using Hugo Health, a digital platform that allows for custom survey delivery and data collection. Details are outlined in the Methods section.

Data analysis

Data were analyzed using SAS 9.4, with the Traj package extension for a group-based trajectory model (SAS Institute, Inc Cary, NC).

For manuscripts utilizing custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors and reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Portfolio guidelines for submitting code & software for further information.

Data

Policy information about availability of data

All manuscripts must include a <u>data availability statement</u>. This statement should provide the following information, where applicable:

- Accession codes, unique identifiers, or web links for publicly available datasets
- A description of any restrictions on data availability
- For clinical datasets or third party data, please ensure that the statement adheres to our <u>policy</u>

Study data are available from the first author upon reasonable request.

Human rese	arch parti	cipants			
		nvolving human research participants and Sex and Gender in Research.			
Reporting on sex	and gender	Sex or gender-based analysis was not performed.			
Population chara					
Recruitment	Patients were recruited on cardiac surgery floor after transferring out of the ICU.				
Ethics oversight		Yale Institutional Review Board			
Note that full informa	ation on the appr	roval of the study protocol must also be provided in the manuscript.			
Field-spe	ecific re	porting			
Please select the o	ne below that i	s the best fit for your research. If you are not sure, read the appropriate sections before making your selection.			
Life sciences		Behavioural & social sciences Ecological, evolutionary & environmental sciences			
For a reference copy of	the document with	all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>			
Life scier	nces sti	udy design			
All studies must dis	sclose on these	points even when the disclosure is negative.			
Sample size	Describe how sample size was determined, detailing any statistical methods used to predetermine sample size OR if no sample-size calculation was performed, describe how sample sizes were chosen and provide a rationale for why these sample sizes are sufficient.				
Data exclusions	Data from patients with low response rate of less than 2 surveys, due to the inability to fit the model over such sparse data. The rationale and exclusion criteria are outlined in the Methods section of the manuscript.				
Replication	Replication of the results was not conducted as the sample size limited our ability to perform such replication. This is noted in the Limitations section of the manuscript.				
Randomization	Participants were not randomized.				
Blinding	No study parties were blinded.				
		pecific materials, systems and methods			
•		about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.			
Materials & experimental systems Methods					
n/a Involved in th	,	n/a Involved in the study			
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Clinical data

Clinical data

Policy information about <u>clinical studies</u>

Dual use research of concern

All manuscripts should comply with the ICMJE guidelines for publication of clinical research and a completed CONSORT checklist must be included with all submissions.

Clinical trial registration This is not a clinical trial.

Study protocol Study protocol was published in a peer-reviewed journal: https://pubmed.ncbi.nlm.nih.gov/32873671/

Data collection Single-center tertiary care setting. Recruitment between January 2019 and March 2020.

Outcomes Patient-reported outcome measures collected via electronic survey