ID	Field	ative risk stratification tools		
0.	PROSPERO registration number	Not registered		
1.	Review title	Which validated preoperative risk stratification tools best identify increased risk of mortality and morbidity in adults who will be undergoing surgery?		
2.	Review question	Which validated preoperative risk stratification tools best identify increased risk of mortality and morbidity in adults who will be undergoing surgery?		
3.	Objective	To determine which validated preoperative risk stratification tools best identify increased risk of mortality and morbidity in adults who will be undergoing surgery.		
4.	Searches	Medline, Embase, The Cochrane Library		
5.	Condition or domain being studied	Perioperative care		
6.	Population	 Inclusion: Adults 18 years and over undergoing surgery. Exclusion: children and young people aged 17 years and younger surgery for burns, traumatic brain injury or neurosurgery 		
7.	Test	 Validated risk stratification tools: P-POSSUM score (Physiological and Operative Severity Score for the enUmeration of Mortality and Morbidity) SORT (Surgical Outcome Risk Tool) NSQIP (National Surgical Quality Improvement Program) universal surgical risk calculator 		
8.	Comparator/Reference standard/Confounding factors	n/a		
9.	Types of study to be included	Prospective and retrospective cohort studies		
10.	Other exclusion criteria	 derivation studies internal validation studies non-English language studies studies published before 2000 		
11.	Context	n/a		

Table 4: Review protocol: Preoperative risk stratification tools

© NICE 2020. All rights reserved. Subject to Notice of rights.

12.	Primary outcomes (critical	Mortality		
	outcomes)	Morbidity		
13.	Secondary outcomes (important outcomes)	n/a		
14.	Data extraction (selection and coding)	EndNote will be used for reference management, sifting, citations and bibliographies. All references identified by the searches and from other sources will be screened for inclusion. 10% of the abstracts will be reviewed by two reviewers, with any disagreements resolved by discussion or, if necessary, a third independent reviewer. The full text of potentially eligible studies will be retrieved and will be assessed in line with the criteria outlined above.		
		A standardised form will be used to extract from studies (see <u>Developing NICE guidelin</u> the manual section 6.4).		
		Pairwise meta-analyses performed using Cochrane Review Manager (RevMan5).		
15.	Risk of bias (quality) assessment	 Risk of bias will be assessed using the appropriate checklist as described in Developing NICE guidelines: the manual 10% of all evidence reviews are quality assured by a senior research fellow. This includes checking: papers were included /excluded appropriately a sample of the data extractions 		
		• correct methods are used to synthesise d		
		• a sample	e of the risk of bias assessments	
		over the ris	tents between the review authors sk of bias in particular studies will be y discussion, with involvement of a w author where necessary.	
16.	Strategy for data synthesis	GRADEpro used to assess the quality of evidence for each outcome.		
17.	Analysis of sub-groups	Subgroups:		
18.		older a	dults (over 60)	
10.	Type and method of review		Intervention	
			Diagnostic	
			Prognostic	
			Qualitative	
			Epidemiologic	
			Service Delivery	
		\boxtimes	Risk prediction	

 \circledcirc NICE 2020. All rights reserved. Subject to Notice of rights.

19.	Language	English			
20.	Country	England			
21.	Anticipated or actual start date	[X]			
22.	Anticipated completion date	[x]			
23.	Stage of review at time of this	Review stage Started Completed			
	submission				
		Piloting of the study selection process			
		Formal screening of search results against eligibility criteria			
		Data extraction			
		Risk of bias (quality) assessment			
		Data analysis			
24.	Named contact	5a. Named contact			
		National Guideline C	entre	ntre	
		5b Named contact e-mail POC@nice.org.uk			
		5e Organisational aff	affiliation of the review		
		National Institute for Health and Care Excellence (NICE) and the National Guideline Centre			
25.	Review team members	From the National Guideline Centre:			
		Ms Kate Ashmore			
		Ms Kate Ashmore Ms Kate Kelley			
		Ms Sharon Swaine			
		Mr Ben Mayer			
		Ms Maria Smyth			
		Mr Vimal Bedia			
		Mr Audrius Stonkus			
		Ms Madelaine Zucker			
		Ms Margaret Constanti			
		Ms Annabelle Davis			
		Ms Lina Gulhane			

26.	Eunding courses/spanser			
20.	Funding sources/sponsor	This systematic review is being completed by the National Guideline Centre which receives funding from NICE.		
27.	Conflicts of interest	All guideline committee members and anyone who has direct input into NICE guidelines (including the evidence review team and expert witnesses) must declare any potential conflicts of interest in line with NICE's code of practice for declaring and dealing with conflicts of interest. Any relevant interests, or changes to interests, will also be declared publicly at the start of each guideline committee meeting. Before each meeting, any potential conflicts of interest will be considered by the guideline committee Chair and a senior member of the development team. Any decisions to exclude a person from all or part of a meeting will be documented. Any changes to a member's declaration of interests will be recorded in the minutes of the meeting. Declarations of interests will be published with the final guideline.		
28.	Collaborators	Development of this systematic review will be overseen by an advisory committee who will use the review to inform the development of evidence-based recommendations in line with section 3 of <u>Developing NICE guidelines: the</u> <u>manual</u> . Members of the guideline committee are available on the NICE website: [NICE guideline webpage].		
29.	Other registration details	[n/a]		
30.	Reference/URL for published protocol	[Give the citation and link for the published protocol, if there is one.]		
31.	Dissemination plans	 NICE may use a range of different methods to raise awareness of the guideline. These include standard approaches such as: notifying registered stakeholders of publication publicing the guideline through NICE's newsletter and alerts issuing a press release or briefing as appropriate, posting news articles on the NICE website, using social media channels, and publicising the guideline within NICE. 		
32.	Keywords	Periopera	tive care, surgery, risk prediction	
33.	Details of existing review of same topic by same authors	[n/a]		
34.	Current review status		Ongoing	
			Completed but not published	
			Completed and published	
			Completed, published and being	

 \circledcirc NICE 2020. All rights reserved. Subject to Notice of rights.

			updated
			Discontinued
35.	Additional information	[n/a]	
36.	Details of final publication	www.nice.org.uk	