1 2	NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE
3	Guideline scope
4	Perioperative care in Adults
5	The Department of Health in England has asked NICE to develop a clinical
6	guideline on perioperative care.
7	The guideline will be developed using the methods and processes outlined in
8	Developing NICE guidelines: the manual.
9	This guideline will also be used to develop the NICE quality standard for
10	perioperative care.
11	
12	1 Why the guideline is needed
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- treating anaesthetist) who make up 10% of all patients undergoing surgery.
- 28 The enquiry concluded that patients are not receiving optimal care and that
- there are improvements to be made in perioperative care.

30 Current practice

- The Royal College of Surgeons of England and the Department of Health
- reported in 2011 that patient care during surgery itself is now delivered at an
- 33 extremely high standard and complex elective surgery can be performed
- relatively safely. However, challenges in optimising perioperative care remain.
- 35 Although progress has been made in improving surgical outcomes,
- postoperative adverse events are reported to be more frequent than generally
- thought, and the consequences of these complications are considerable.

2 Who the guideline is for

- 39 People using services, their families and carers, and the public will be able to
- 40 use the guideline to find out more about what NICE recommends, and help
- 41 them make decisions.
- 42 This guideline is for:
- Healthcare professionals, including dentists, in primary, secondary and
- 44 tertiary care.
- Non-NHS organisations commissioned to provide services for the NHS or
- 46 local authorities.
- Adults having surgery, and their families and carers.

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- 49 NICE guidelines cover health and care in England. Decisions on how they
- apply in other UK countries are made by ministers in the Welsh Government,
- 51 <u>Scottish Government, and Northern Ireland Executive.</u>

52 Equality considerations

- 53 NICE has carried out <u>an equality impact assessment</u> during scoping. The
- 54 assessment:

55 56	 lists equality issues identified, and how they have been addressed explains why any groups are excluded from the scope. 				
57	The guideline will look at inequalities relating to age and disability.				
58	3 What the guideline will cover				
59	3.1 Who is the focus?				
60	Groups that will be covered				
61	Adults (18 and older) undergoing surgery.				
62					
63					
64	3.2 Settings				
65	Settings that will be covered				
66	Secondary and tertiary healthcare (whether in a conventional hospital				
67	setting or elsewhere).				
68	General dental practices.				
69	Settings that will not be covered				
70	Minor surgery in out-patient clinics.				
71	3.3 Activities, services or aspects of care				
72	Key areas that will be covered				
73	We will look at evidence in the areas below when developing the guideline,				
74	but it may not be possible to make recommendations in all the areas.				
75	1 Information and support needs of adults undergoing surgery, and their				
76	families and carers, before, during and after an operation.				
77	2 Preoperative assessment				
78	- Identification and measurement of risk in adults who will be				

underging surgery.

Preoperative optimisation

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81	 Proactive care of older people undergoing surgery
82	 Perfusion and hydration
83	 Preoperative nutrition
84	 Preoperative fasting
85	 Pharmacological management
86	 Lifestyle optimisation.
87	4 Intraoperative management
88	 Strict glucose control
89	 Intravenous fluid during surgery
90	 Cardiac monitoring
91	 Crew resource management.
92	5 Postoperative management
93	 Pain management services.
94	6 Recovery
95	 Enhanced recovery programmes
96	 Recovery in specialist areas including intensive care.
97	
98	Areas that will not be covered
99	1 Routine preoperative tests for elective surgery
100	2 Blood products and blood transfusion
101	3 Surgery for burns
102	4 Surgery for traumatic brain injury or neurosurgery
103	5 Other specific types of surgery
104	
105	Related NICE guidance
106	HumiGard for preventing inadvertent perioperative hypothermia (2017)
107	NICE guidance MTG31
108	 Multimorbidity: clinical assessment and management (2016) NICE
109	guidance NG56
110	Hypothermia: prevention and management in adults having surgery (2016)
111	NICE guidance CG65

112113	 Routine preoperative tests for elective surgery (2016) NICE guidance NG45
114	Intravenous fluid therapy in adults in hospital (2013) NICE guidance CG174 Intravenous fluid therapy in adults in hospital (2013) NICE guidance CG174
115	Healthcare-associated infections: prevention and control (2011) NICE
116	guidance PH36
117	The MIST Therapy system for the promotion of wound healing (2011) NICE
118	guidance MTG5
119	 Venous thromboembolism in adults: reducing the risk in hospital (2010)
120	NICE guidance CG92
121	NICE guidance that will be partially updated by this guideline
122	CardioQ-ODM oesophageal doppler monitor (2011) NICE guidance MTG3.
123	
124	Surgical site infections: prevention and treatment (2008) NICE guidance
125	CG74
126	The two recommendations from CG74 expected to be updated in this new
127	guideline are:
128	 Recommendation 1.3.12. Maintain adequate perfusion during surgery.
129	 Recommendation 1.3.13. Do not give insulin routinely to patients who do
130	not have diabetes to optimise blood glucose postoperatively as a means
131	of reducing the risk of surgical site infection.
132	
133	NICE guidance about the experience of people using NHS services
134	NICE has produced the following guidance on the experience of people using
135	the NHS. This guideline will not include additional recommendations on these
136	topics unless there are specific issues related to perioperative care:
137	 Medicines optimisation (2015) NICE guideline NG5
138	 Patient experience in adult NHS services (2012) NICE guideline CG138
139	 Medicines adherence (2009) NICE guideline CG76

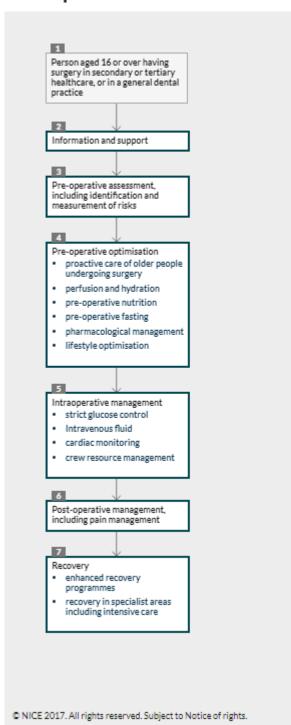
140	3.4	Economic aspects					
141	We will take economic aspects into account when making recommendations.						
142	We will develop an economic plan that states for each review question (or key						
143	area	area in the scope) whether economic considerations are relevant, and if so					
144	whe	whether this is an area that should be prioritised for economic modelling and					
145	ana	analysis. We will review the economic evidence and carry out economic					
146	ana	analyses, using a NHS and personal social services (PSS) perspective, as					
147	app	appropriate.					
148							
149	3.5	Key issues and questions					
150	While writing this scope, we have identified the following key issues, and dra-						
151	questions related to them. The questions may be used to develop more						
152	detailed review questions, which guide the systematic review of the literature:						
153	1	Information and support needs of adults undergoing surgery and their					
154		families and carers, before during and after an operation.					
155		1.1. What information and support is useful for adults undergoing					
156		surgery, and their families and carers, before, during and after an					
157		operation?					
158							
159	2	Preoperative assessment					
160		2.1. Which validated risk tools best identify increased risk of adverse					
161		events in adults who will be undergoing surgery?					
162							
163	3	Preoperative optimisation					
164		3.1. In adults who will be undergoing surgery, what is the clinical and					
165		cost effectiveness of pre-operative optimisations clinics?					
166		3.2. What is the clinical and cost effectiveness of perioperative perfusion					
167		and hydration in adults?					
168		3.3. Does a systematic approach to preoperative assessment of					
169		nutritional status improve surgical outcomes for adults?					

170		3.4. What is the most clinically and cost effective preoperative fasting
171		strategy for adults?
172		3.5. What is the clinical and cost effectiveness of a systematic approach
173		to reviewing medication prior to surgery in adults?
174		3.6. Do pre-operative interventions to help adults their lifestyle improve
175		surgical outcomes?
176		
177	4	Intraoperative management
178		4.1. What is the most clinically and cost effective intravenous fluid during
179		surgery in adults?
180		4.2. What is the clinical and cost effectiveness of strict blood glucose
181		control in adults undergoing surgery?
182		4.3. What is the clinical and cost effectiveness of cardiac output
183		monitoring during surgery in adults?
184		4.4. What is the clinical and cost effectiveness of crew resource
185		management during surgery in adults?
186		
187	5	Postoperative management
188		5.1. What is the clinical and cost effectiveness of having a dedicated
189		postoperative pain management service for adults?
190		
191	6	Recovery
192		6.1. What is the clinical and cost effectiveness of enhanced
193		postoperative recovery programmes for adults?
194		6.2. What is the clinical and cost effectiveness of postoperative recovery
195		in specialist areas, including intensive care, for adults?
196	3.6	Main outcomes
197	The	main outcomes that will be considered when searching for and assessing
198	the e	evidence are:
199	1	Health-related quality of life.
200	2	Survival (mortality)
201	3	Adverse events and complications

 Surgical site infection
 Respiratory complications
4 Symptom scores and functional measures
5 Length of stay in intensive care unit or hospital
6 Hospital readmission
7 Psychological distress and mental wellbeing
8 Patient, family and carer experience of care
4 NICE quality standards and NICE Pathways
4.1 NICE quality standards
NICE quality standards that may need to be revised or updated when
this guideline is published:
Surgical site infection (2013) NICE quality standard QS49
4.2 NICE Pathways
NICE Pathways bring together everything we have said on a topic in an
interactive flowchart. When this guideline is published, the recommendations
will be included in the NICE Pathway on perioperative care (in development).
Other relevant guidance will also be added, including:
The MIST Therapy system for the promotion of wound healing (2011) NICE
guidance MTG5
• Depth of anaesthesia monitors – Bispectral Index (BIS), E-Entropy and
Narcotrend-Compact M (2012) NICE diagnostics guidance DG6
Links to relevant NICE Pathways will be added as well, for example:
Inadvertent perioperative hypothermia
Intravenous fluid therapy in hospital

- Prevention and control of healthcare-associated infections
- 230 An outline based on this scope is included below. It will be adapted and more
- detail added as the recommendations are written during guideline
- 232 development.

Perioperative care overview



5 Further information

This is the draft scope for consultation with registered stakeholders. The consultation dates are 15 November to 13 December 2017.

The guideline is expected to be published in February 2020.

You can follow progress of the guideline.

Our website has information about how NICE guidelines are developed.

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