

# Peri-operative Management of Surgical Patients with Diabetes

National Confidential Enquiry into Patient Outcome and Death (NCEPOD)

## **Surgical Questionnaire**

### CONFIDENTIAL

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Grade:	Specialty:
348 4 1 4 1 4 4 6	

## What is this study about?

NCEPOD is undertaking a study to identify and explore remediable factors in the process of care in the peri-operative management of surgical patients with diabetes. This study aims to review the whole patient pathway from referral to surgery (elective or emergency) to discharge from hospital.

DETAILS OF THE CLINICIAN COMPLETING THIS OLIESTIONNAIRE

#### Inclusions:

- Patients aged 16 and over:
- who have a diabetes mellitus ICD10 code (E10.0-E11.0 inclusive in any position)
- who were admitted as either an emergency. elective or unplanned admission (e.g. following day surgery)
- who had a hospital stay of at least one night post surgery
- and who had a major surgical procedure between 1st February - 31st March 2017 inclusive

#### **Exclusions:**

- Patients undergoing day surgery without an overnight stay
- Obstetric surgery
- Minor procedures OPCS codes available on our website http://www.ncepod.org.uk/pd.html

## CPD accreditation:

Consultants completing NCEPOD questionnaires make a valuable contribution to the investigation of patient care. It also provides an opportunity for consultants to review their clinical management and undertake a period of personal reflection. These activities have a continuing medical professional development value for individual consultants. Consequently, NCEPOD recommends consultants who complete NCEPOD questionnaires keep a record of this activity which can be included as evidence of internal/self directed Continuous Professional Development in their appraisal portfolio.

## Questions or help?

If you have any queries about this study or this questionnaire, please contact:

pd@ncepod.org.uk or telephone: 020 7251 9060

Thank you for taking the time to complete this questionnaire. The findings of the study will be published in late 2018.

If you (the clinician completing the q questionnaire for your records, please	
FOR NCEPOD USE ONLY	7 7 2 8 4 6 5 5 6 3 5 7 3

CODES FOR GRADE	
01 – Consultant	06 – Basic grade (FY1/ FY2 or equivalent)
02 – Staff grade/Associate specialist	07 – Specialist nurse (nurse consultant, nurse practitioner, clinical
03 – Trainee with CCT	nurse specialist
04 – Senior specialist trainee (ST3+ or equivalent)	08 – Senior staff nurse,enrolled nurse
05 _ Junior enecialist trainge (ST18ST2 or CT equivalent)	10 - Non-registered staff (HCA etc.)

10 - Non-registered stail (110A etc.)			
SPECIALTY CODES			
110 = Trauma & Orthopaedics	161 = Burns Care		
120 = Ear, Nose & Throat (ENT)	170 = Cardiothoracic Surgery		
130 = Ophthalmology	172 = Cardiac Surgery		
140 = Oral Surgery	173 = Thoracic Surgery		
145 = Oral & Maxillo-Facial Surgery	180 = Accident & Emergency		
150 = Neurosurgery	190 = Anaesthetics		
160 = Plastic Surgery	192 = Critical/Intensive care medicine		
326 = Acute internal medicine	430 = Geriatric Medicine		
330 = Dermatology	500 = Obstetrics & Gynaecology		
340 = Respiratory Medicine	502 = Gynaecology		
350 = Infectious Diseases	800 = Clinical Oncology		
360 = Genito-Urinary Medicine	810 = Radiology		
361 = Nephrology	820 = General Pathology		
370 = Medical Oncology	823 = Haematology		
400 = Neurology			
410 = Rheumatology			
	110 = Trauma & Orthopaedics 120 = Ear, Nose & Throat (ENT) 130 = Ophthalmology 140 = Oral Surgery 145 = Oral & Maxillo-Facial Surgery 150 = Neurosurgery 160 = Plastic Surgery  326 = Acute internal medicine 330 = Dermatology 340 = Respiratory Medicine 350 = Infectious Diseases 360 = Genito-Urinary Medicine 361 = Nephrology 370 = Medical Oncology 400 = Neurology		

Diabetic ketoacidosis (DKA)  Consistently high blood glucose levels can lead to a condition called diabetic ketoacidosis. I his hap when a severe lack of insulin means the body cannot use glucose for energy, and the body starts to break down other body tissue as an alternative energy source. The diagnosis is made with a pH  47.3, bicarbonate concentration <15mmol/l and a glucose of >11 (or a history of diabetes), and ket (urine ketones more than ++ and/or blood ketone level >3mmol/l) Early warning score (EWS) A simple scoring system in which a score is allocated to physiological measurements already under when patients present to, or are being monitored in hospital. Six simple physiological parameters fo the basis of the scoring system: (1) respiratory rate, (2) oxygen saturations, (3) temperature, (4) sys blood pressure, (5) pulse rate, (6) level of consciousness HbA1c HbA1c (also referred to as A1c or haemoglobin A1c) refers to glycated haemoglobin. It develops with haemoglobin, a protein within red blood cells that carries oxygen throughout the body, joins with gluin the blood, becoming 'glycated'. By measuring glycated haemoglobin (HbA1c), clinicians are able get an overall picture of what the average blood sugar levels have been over a period of weeks/mor For people with diabetes this is important as the higher the HbA1c, the greater the risk of developin diabetes-related complications High dependancy unit (HDU) For people with diabetes this is important as the higher the HbA1c, the greater the risk of developin diabetes-related complications Level 2 (HDU) — Patients requiring more detailed observation or interventio	
when patients present to, or are being monitored in hospital. Six simple physiological parameters fo the basis of the scoring system: (1) respiratory rate, (2) oxygen saturations, (3) temperature, (4) system blood pressure, (5) pulse rate, (6) level of consciousness  HbA1c  HbA1c (also referred to as A1c or haemoglobin A1c) refers to glycated haemoglobin. It develops where with haemoglobin, a protein within red blood cells that carries oxygen throughout the body, joins with gluin the blood, becoming 'glycated'. By measuring glycated haemoglobin (HbA1c), clinicians are able get an overall picture of what the average blood sugar levels have been over a period of weeks/more For people with diabetes this is important as the higher the HbA1c, the greater the risk of developin diabetes-related complications  High dependancy unit (HDU)  Level 2 (HDU) — Patients requiring more detailed observation or intervention including support for a single failing organ system or post operative care, and those stepping down from higher levels of care (NB: When basic respiratory and basic cardiovascular support are provided at the same time during same critical care spell and no other organ support is required, the care is considered to be Level 2.  Hyperosmolar  Hyperosmolar  hyperglycaemic state (HSS)	eannot use glucose for energy, and the body starts to energy source. The diagnosis is made with a pH d a glucose of >11 (or a history of diabetes), and ketosis
haemoglobin, a protein within red blood cells that carries oxygen throughout the body, joins with gluin the blood, becoming 'glycated'. By measuring glycated haemoglobin (HbA1c), clinicians are able get an overall picture of what the average blood sugar levels have been over a period of weeks/mor For people with diabetes this is important as the higher the HbA1c, the greater the risk of developing diabetes-related complications  High dependancy unit (HDU) — Patients requiring more detailed observation or intervention including support for a single failing organ system or post operative care, and those stepping down from higher levels of care (NB: When basic respiratory and basic cardiovascular support are provided at the same time during same critical care spell and no other organ support is required, the care is considered to be Level 2.  Hyperosmolar hyperglycaemic state (HSS)  HSS is a complication of diabetes mellitus (predominantly type 2) in which high blood sugars cause severe dehydration, increases in osmolarity (relative concentration of solute) and a high risk of	ed in hospital. Six simple physiological parameters form rate, (2) oxygen saturations, (3) temperature, (4) systolic
(HDU) single failing organ system or post operative care, and those stepping down from higher levels of care (NB: When basic respiratory and basic cardiovascular support are provided at the same time during same critical care spell and no other organ support is required, the care is considered to be Level 2  Hyperosmolar hyperglycaemic state (HSS) HSS is a complication of diabetes mellitus (predominantly type 2) in which high blood sugars cause severe dehydration, increases in osmolarity (relative concentration of solute) and a high risk of	at carries oxygen throughout the body, joins with glucose g glycated haemoglobin (HbA1c), clinicians are able to discuss sugar levels have been over a period of weeks/months. It is a higher the HbA1c, the greater the risk of developing
hyperglycaemic state (HSS)   severe dehydration, increases in osmolarity (relative concentration of solute) and a high risk of	re, and those stepping down from higher levels of care ascular support are provided at the same time during the
complications, coma and death. It is diagnosed with blood tests. A glucose >30 mmol/L, an osmola 320 mOsml/L with dehydration	ative concentration of solute) and a high risk of
Hypoglycemia Hypoglycemia occurs when blood glucose levels fall below 4 mmol/L (72mg/dL)	ls fall below 4 mmol/L (72mg/dL)
Intensive care unit (ICU)  Level 3 (ICU) – Patients requiring advanced respiratory support alone or basic respiratory support together with support of at least two organs. This levels includes all complex patients requiring support for multi-organ failure. (NB: Basic respiratory and basic cardiovascular do not count as two organs is occur simultaneously – see above under level 2 care – but will count as level 3 if another organ is supported at the same time)	nis levels includes all complex patients requiring support and basic cardiovascular do not count as two organs if they
Malnutrition universal MUST is a 3 step screening tool to identify adults, who are malnourished, at risk of malnutrition, or screening tool (MUST)  MUST is a 3 step screening tool to identify adults, who are malnourished, at risk of malnutrition, or obese. It also include management guidelines which can be used to develop a care plan	which can be used to develop a care plan
Variable rate intravenous insulin infusion (VRIII)  The infusion of intravenous insulin at a variable rate according to regular capillary blood glucose measurements with the aim of controlling serum glucose levels within a specified range. The VRIII is usually accompanied by an infusion of fluid containing glucose to prevent insulin-induced hypoglyca	n glucose levels within a specified range. The VRIII is



A	. CASE SUIVIIVIARY
1.	Please use the box below to provide a brief summary of this case, adding any additional comments or information you feel relevant. Please write clearly for the benefit of the case reviewers. You may also write or type on a separate sheet.  NCEPOD attaches great importance to this summary. Please give as much information as possible about the care of this patient.
В	. PATIENT DETAILS
2.	Age (at time of procedure) years
3.	Gender Male Female
4a.	Type of diabetes
	Type 1 Type 2 Other (please state):
4b.	Type of medication
	☐ Insulin ☐ Diet ☐ Oral hypoglycaemic agents
	Other (please specify): Non-insulin injectable therapy
5.	How long ago was diabetes first diagnosed?
	□ 0-5 years         □ 6-10 years         □ > 10 years         □ Unknown
6.	Who normally looks after this patient's diabetes care? (Please tick all that apply)
	General practitioner Community diabetes specialist nurse Consultant diabetologist
:	Other (please specify): Hospital diabetes specialist nurse Unknown
	3 6 7 2 8 4 6 5 1 5 6 3 6 6 6 1 _

_					
7.	Was this admission:				
		on-elective	1		_
8a.	Date of patient's last surgical outpat	ient review:		dd/mm/yyyy	□ N/A
8b.	Date the patient was placed on the (including emergency patients)	waiting list:		dd/mm/yyyy	□ N/A
	n Elective admission please contin Non-elective admission please co				
C.	<b>ELECTIVE REFERRAL AN</b>	ID OUTPATIENTS			
9a.	Date of referral:			dd/mm/yyyy	□ N/A
9b.	Who made the referral?				
	General practitioner	☐ District general hosp	oital [	Tertiary cen	itre
	Emergency referral (111/999 ca	II) Managed pathway (	e.g. physiothera	apist)	
	Other (please specify):				
10a.	a. Was information on the management of the patient's diabetes in the community available in the referra documentation?			e referral	
	☐ Yes ☐ No				
10b.	If Yes to 10a, what did it include?	(please select all that apply)	*Definitions on p	page 2	
	Evidence of regular blood sugar	measurement	☐ HbA1c* (w	vithin the last 3	months)
	Patient co-morbidities		Urgency o	f referral	
	Community diabetes specialist r	nurse assessment or notes	ВМІ		
	List of current medication		☐ Blood pres	ssure	
	Evidence from primary care abordant's diabetes before surger		Estimated (eGFR)	glomerular filtr	ation rate
	Diabetes related complications (	olease select all that apply)			
	Cardiovasuclar	□ Neuropathy	☐ Nephropat	thy	
	Skin problems	Retinopathy	Peripheral	vascular disea	se
	Cerebrovascular (with full recovery)				
	Cerebrovascular (with minor res	sidual disability)			
	Cerebrovascular (with major dis	ability affecting day to day li	fe)		
11a.	Was a recent HbA1c* (3 months pri	or to surgery) available? *D	efinitions page 2		
	Yes No Unkno	own			
11b.	If Yes to 11a, was the HbA1c >8.5%	or 69 mmol/L?			
	Yes No Unkno	wn			



11-	If Voc to 11b was there an attempt to improve central before current, by referral to:
116.	If Yes to 11b, was there an attempt to improve control, before surgery, by referral to:
	□ Diabetes team       □ Primary care       □ Admitted to secondary care for optimisation         □ Dietitian       □ None       □ Unknown
	☐ Dietitian ☐ None ☐ Unknown ☐ Other (please state):
	Utilei (piease state).
11d.	If the answer to 11c was 'None', and if the patient's HbA1c was >8.5% or 69mmol/L, was a reason documented as to why not?
	☐ Yes ☐ No ☐ Unknown
11e.	If Yes to 11d, please provide the reason:
D	. ADMISSION DETAILS
12.	Date and time of arrival to hospital:
	dd/mm/yyyy hh:mm
13a.	Date and time of decision to admit patient:
	dd/mm/yyyy hh:mm N/A elective patient
13b.	Please state the grade and specialty of the clinician deciding to admit the patient:
	Grade: Specialty: (Grade and specialty codes on page 2)
14.	First documented assessment by a healthcare professional (excluding triage):
	Date:
	Grade: Specialty: (Grade and specialty codes on page 2)
15.	Where was the patient first assessed (excluding triage)? *Definitions on page 2
	☐ Emergency department ☐ Specialist ward ☐ Medical assessment unit
	☐ Level 2 (HDU)* ☐ Level 3 (ICU)* ☐ Surgical assessment unit
	Other (please state): Pre-operative admissions unit General ward
16.	Please specify an admission category:
	☐ Elective A time agreed between the patient and surgical service
	Planned Within 48 hours of referral/ consultation
	Emergency Immediately following referral/ consultation, where admission is unpredictable and at short notice because of clinical need
17.	What was the diagnosis for this patient on admission?



<u> </u>	
18a.	Did the patient have a known or newly diagnosed mental health condition on admission?
	☐ Yes ☐ No ☐ Unknown
18b.	If Yes to 18a, please state:
19a.	Had this patient's admission been cancelled on a previous occasion?
19b.	If Yes to 19a, on how many occasions?
19c.	If Yes to 19a, was it cancelled for any reason other than a clinical one?   Yes  No  Unknown
19d.	If Yes to 19c, please give details:
20a.	In your opinion, did the time spent waiting for the operation affect the patient's outcome?
	☐ Yes ☐ No ☐ Unknown ☐ N/A
20b.	If Yes to 20a, please give details:
21.	Date and time of arrival to admitting ward:
	dd/mm/yyyy hh:mm
22a.	To what specialty was the patient first admitted? (Specialty codes on page 2)
22b.	In your opinion, was this an appropriate specialty for the patient to be admitted to?
	☐ Yes ☐ No ☐ Unknown
22c.	If No to 22b, please state why not:
23a.	Was the patient transferred to another specialty?
23b.	If Yes to 23a, was there a delay in the process of transfer?
23c.	If Yes to 23a, please state the reason for delay:
E.	ASSESSMENT FOLLOWING ADMISSION
24.	Please state the grade and specialty of the clinician who first assessed the patient following admission?
	Grade: Specialty: (Grade and speciality codes on page 2)
25.	What was the presumed diagnosis following the initial assessment?
26.	Date and time of first consultant review: dd/mm/yyyy hh:mm
27.	If the patient was not expected to survive, was an end of life care pathway initiated?
	☐ Yes ☐ No ☐ Unknown ☐ N/A

F	. INPATIENT PRE-OPERATIVE CARE
28a.	Was a referral made to the inpatient diabetes nurse specialist during the current inpatient admission?
	☐ Yes ☐ No
28b.	Was the inpatient diabetes specialist team consulted during the current inpatient admission?
	☐ Yes ☐ No ☐ N/A
29a.	Date and time referred to diabetes team:
	dd/mm/yyyy hh:mm N/A
29b.	Date and time first seen by diabetes team:
	dd/mm/yyyy hh:mm N/A
30.	Which diabetes specialist was the patient seen by during the current inpatient admission?
	☐ Consultant diabetologist ☐ Diabetes specialist nurse ☐ Core trainee in diabetes
	Other (please state):
	None of the above
31a.	Was the patient discussed at a multi-disciplinary review meeting by the inpatient diabetes service?
	☐ Yes ☐ No ☐ Unknown ☐ N/A
31b.	If Yes to 31a, who attended this?
	☐ Consultant surgeon ☐ Consultant anaesthetist ☐ Consultant diabetologist
	☐ Diabetes specialist nurse ☐ Consultant in intensive care
32.	Was a dietitian consulted during the current inpatient admission?
33a.	Was a MUST* score calculated during the current inpatient admission?  Yes  No  Unknown *Definitions on page 2
33b.	If Yes to 33a, what was the score?   0: Low risk  1: Medium risk  2>: High risk
34.	What supplementary nutrition did the patient receive during the current inpatient admission?
	☐ Parenteral nutrition ☐ Enternal feeding ☐ Normal diet
	☐ Other (please state): ☐ Unknown ☐ Nil by mouth
G	. OPERATION
35a.	Were there any delays caused by poor control of the patient's diabetes
35b.	If Yes to 35a, how long was surgery delayed by? days hours
36a.	Were there any other avoidable delays?
36b.	If Yes to 36a, please state:



37.	What was the pati	ient's ASA grade immediately pre-operatively?	
	☐ ASA I	A normal healthy patient	
	☐ ASA II	A patient with mild systemic disease	
	ASA III	A patient with severe systemic disease	
	☐ ASA IV	A patient with severe systemic disease that is a constant threat to life	
	☐ ASA V	A moribund patient who is not expected to survive the operation	
38.	Please classify urg	gency of the procedure:	
	☐ Immediate	Immediate life, limb or organ-saving intervention – resuscitation simultaneous with intervention. Normally within minutes of decision to operate	
	☐ Urgent	Intervention for acute onset or clinical deterioration of potentially life-threatening conditions, for those conditions that may threaten the survival of limb or organ, for fixation of many fractures and for relief of pain or other distressing symptoms. Normally within hours of decision to operate.	
	Expedited	Patient requiring early treatment where the condition is not an immediate threat to life, limb or organ survival. Normally within days of decision to operate.	
	Elective	Intervention planned or booked in advance of routine admission to hospital. Timing to suit patient, hospital and staff.	
39.	Date and time of a	arrival to theatre: dd/mm/yyyy hh:mm	
<del>4</del> 0.	What operation wa	as undertaken?	
41.	Please state the diagnosis established at operation (if different from admission)		
	☐ N/A (same as	admission)	
└── 42a	Were there any ur	nanticipated intra-operative problems? Yes No Unknown	
	If Yes to 42a, plea		
└ <u></u> 43.	What type of thea	tre was the procedure conducted in?	
		nergency theatre	
	Other (please		
44.		de of the most senior operating surgeon (as distinct from surgeons present in an visory capacity) at the start of this case?	
	Grade:	(Grade codes on page 2)	
<b>45</b> .	What level of supe	ervision did the primary operator have if they were not a consultant?	
	Consultant su	pervised scrubbed Consultant unsupervised in theatre	
	Unsupervised	I in hospital N/A	
	Other (please	e state):	
46a	Did the patient rec	ceive a blood transfusion during surgery?	
roo.	100 to 40a, 110v		
		8 1 1 7 2 8 4 6 5 1 5 6 4 4 7 7 1	

Н	- POST-OPERATIVE MA	NAGEMENT		
47.	Date and time of arrival to recover	y area:	dd/mm/yyyy	hh:mm
48a.	Who managed the patient's diabet	es in the post-operative period	:	
	Patient	Diabetes team	Diabetes s	pecialist nurse
	Other (please state):	Anaesthetic team	Surgical tea	am
 48b.	If the answer to 48a was 'diabetes	s team', how frequently was th	e patient reviewe	ed?
	☐ Daily	Twice daily	On referral	
	Other (please state):	☐ Before discharge		
 49а.	Was the patient started on variable	e rate intravenous insulin infusi	on* (VRIII- previc	ously known as sliding
	scale) within the first 48 hours pos	t-operatively? *Definitions on p	age 2	
	Yes	☐ No		
	Was the patient's blood glucose m		7	∐ Yes ∐ No
49c.	What was the lowest blood glucos	e measurement:	_ mmol/L	
49d.	What was the highest blood glucos	se measurement:	mmol/L	
50.	Was the patient started on an oral	diet as early as possible?		Yes No
51.	Was the patient started on their us	sual diabetes medications as ea	arly as possible?	Yes No
52.	Was a nutritional assessment perf	ormed post-operatively?		Yes No
53.	Did the patient see a dietitian post	-operatively?		Yes No
54a.	Was a MUST* score calculated po	st-operatively? *Definitions or	າ page 2	
	Yes No	Unknown		
	If Yes to 54a, what was the score?		Medium risk	2>: High risk
55a.	What supplementary nutrition did t	· <u> </u>	vely?	
	Parenteral nutrition	<ul><li>Enternal feeding</li></ul>		Normal diet
	Other (please state):	Unknown		☐ Nil by mouth
55b.	How long was this given for?	N/A (nil by mouth)	days	
55c.	When was nutrition started:	N/A (nil by mouth)		dd/mm/yyyy
56.	Was an early warning score* used	post-operatively?  Yes	☐ No *De	efinitions on page 2
57.	Were areas at risk of pressure sor		□ No	
and the	Accepted and the second of the		And the second	



58a.	Who reviewed the patient after surgery? (please tick all that apply)  Surgeon Diabetes team Diabetes specialist nurse Physiotherapist Anaesthetist Occupational therapist Other (please state):					
└─ <u></u> 59.	Please describe any post-operative complications \( \square\) N/A (no post-operative complications)					
60.	How were complications identified?					
61.	How were complications managed?					
62a.	a. Did the patient experience any specific diabetes complications post-operatively? *Definitions on page 2  Diabetic ketoacidosis*  Hypoglycaemia* needing treatment  Other (please specify):  Hyperosmolar hyperglycaemic state*					
62b.	If Yes to 62a, was appropriate action taken?					
	If Yes to 62a, was this avoidable?  If Yes to 62c, please give details:  Yes No Unknown					
	DISCHARGE/DEATH					
63.	Did the patient die during this admission?  If Yes please complete Q64-Q65  If No please continue to Q66					
64.	Date of death:    Date of death:					
65.	Please state the cause of death as written on the medical certificate of cause of death (MCCD) or as determined by the coroner?					
	1a					
	1b					
	1c					
	2.					
	Please go to Q71a					

			_		
66.	Who was involved in the patien	t's discharge planning? (please tick	all that apply)		
	Patient	Surgeon	Diabetes specialist nurse		
	☐ Diabetes team	☐ Physiotherapy ☐	Occupational therapy		
	Other (please specify):	Rehabilitation	Dietitian		
Ь 67.	Date of discharge:				
			dd/mm/yyyy		
68. —	Final diagnosis at discharge:		7		
69a.	Were arrangements made for the patient's diabetes care post discharge?				
	☐ Yes ☐ No	Unknown			
69b.	If Yes to 69a, what arrangemen				
	Diabetes team follow-up	Self management	General practitioner follow-up		
i e	Other (please specify):				
70a.	Was the patient re-admitted wit	hin 30 days after discharge?	Yes No Unknown		
70b.	If Yes to 70a, what was the reason for the re-admission?				
	Unrelated to previous admission				
	Diabetes complication (please specify):				
	Surgical complication (please specify):				
	Other (places and if t)				
	Other (please specify):				
_					
J.	AUDIT				
71a.	Was there a critical incident rela	ating to the patient's diabetes mana	agement during this admission?		
	☐ Yes ☐ No	Unknown			
71b.	If Yes to 71a, please describe:				
71c.	If Yes to 71a, was this reported	using your local hospital reporting	system?		
	☐ Yes ☐ No	Unknown			
72.	Was the incident discussed at a	a formal multi-disciplinary review/ a	udit/ mortality and morbidity meeting?		
	☐ Yes ☐ No	Unknown	<b>                                   </b>		
		11	3 <sup>11</sup> 7 2 8 4 6 5 <sup>11</sup> 5 6 4 5 4 3 <sup>11</sup>		

74.	Please provide any further comments relating to this patient's care. With the benefit of hindsight, is there anything, in your opinion, that could have been done differently? Was this related to clinical or organisational aspects of care. Please note that all answers are confidential.

### Thank you for completing this questionnaire

This study was commissioned by The Healthcare Quality Improvement Partnership (HQIP) as part of the Clinical Outcome Review Programme into medical and surgical care.



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