



# PERI-OPERATIVE CARE STUDY

National Confidential Enquiry into Patient Outcome and Death (NCEPOD)

## ORGANISATIONAL QUESTIONNAIRE

CONFIDENTIAL

PLEASE COMPLETE ONE ORGANISATIONAL QUESTIONNAIRE FOR EACH HOSPITAL IN YOUR TRUST WHERE INPATIENT SURGERY IS UNDERTAKEN

Name of Hospital: \_\_\_\_\_

Name of Trust: \_\_\_\_\_

Name and position of person completing this questionnaire: \_\_\_\_\_

### What is this study about?

NCEPOD is examining remediable factors (areas where the care of the patients might have been improved) in the peri-operative care of patients aged 16 or over, who undergo specific inpatient surgery. This is both for elective and emergency surgery. We will also identify which of those patients were admitted to HDU/ICU within 30 days of their procedure.

**A 2-page clinical form was prospectively completed by anaesthetists at the time of surgery. The study period was 1-7 March 2010 inclusive, and organisational questionnaires should be completed with regard to that time period.**

All NHS and independent hospitals that admit both acute and elective admissions in England, Wales and Northern Ireland; public hospitals in the Isle of Man, Jersey and Guernsey, will be included in the study.

This work is supported by The Intensive Care Society, the Royal College of Anaesthetists, and the Royal College of Surgeons.

### How to complete this questionnaire

Information will be collected using two methods: Box cross and free text, where your clinical opinion will be requested.

This form will be electronically scanned. Please use a black or blue pen. Please complete all questions with either block capitals or a bold cross inside the boxes provided e.g.

Does your hospital have a nutrition team?

Yes       No

If you make a mistake, please "black-out" the incorrect box and re-enter the correct information, e.g.

Yes       No

**Unless indicated, please mark only one box per question.**

**NB: in order to supplement your answers or provide any additional information, an "additional comments" text box is provided on page 8**

### Who should complete this questionnaire?

This questionnaire should be completed by the Medical Director of the Trust or a person nominated by them who would have the knowledge to complete it accurately or be able to seek help to complete it accurately.

**To ensure confidentiality of the data, completed questionnaires must be returned directly to NCEPOD.**

Please use the SAE provided.

### Questions or help

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

**periopcare@ncepod.org.uk**

**Telephone 0207 631 3444**

Thank you for taking the time to complete this questionnaire. The findings of the full study will be published in late 2011.

FOR NCEPOD USE ONLY

--	--	--	--	--	--



## DEFINITIONS

<b>Level of care (critical care is Level 2 and Level 3)</b>	<p>Critical care includes Level 2 and Level 3 patients:</p> <p>Level 0: Patients whose needs can be met through normal ward care in an acute hospital.</p> <p>Level 1: Patients at risk of their condition deteriorating, or those recently relocated from higher levels of care whose needs can be met on an acute ward with additional advice and support from the critical care team.</p> <p>Level 2: (e.g. 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.</p> <p>Level 3: (e.g. ICU) Patients requiring advanced respiratory support alone or basic respiratory support together with support of at least two organs. This level includes all complex patients requiring support for multi-organ failure.</p>
---	--

<b>Medical assessment unit (MAU, SAU, etc)</b>	A dedicated unit or ward in which medical patients undergo rapid and rigorous assessment and initial treatment with the purpose of establishing their need for admission to or discharge from hospital.
--	---

<b>Recovery Area (PACU)</b>	An area to which patients are admitted from an operating theatre, and where they remain until consciousness is regained, respiration and circulation are stable, and postoperative analgesia is established.
-----------------------------	--

<b>Time period</b>	The study period was 1-7 March 2010 inclusive, and organisational questionnaires should be completed with regard to that time period.
--------------------	---

**NB: if needed, please use the "additional comments" free text box (page 8) in order to supplement your answers or provide any other additional information.**



**THE STUDY PERIOD WAS 1-7 MARCH 2010 INCL. AND QUESTIONNAIRES SHOULD BE COMPLETED WITH REGARD TO THAT TIME PERIOD**

1. Who was responsible for ensuring the accuracy and completeness of answers given to this questionnaire?

- |   |  |
|---|--|
| <input type="checkbox"/> Chief Executive          | <input type="checkbox"/> Clinical Director, Surgery  |
| <input type="checkbox"/> Medical Director         | <input type="checkbox"/> Clinical Director, Anaesthesia  |
| <input type="checkbox"/> NCEPOD Local Reporter    | <input type="checkbox"/> NCEPOD Ambassador   |
| <input type="checkbox"/> Clinical Governance Lead | <input type="checkbox"/> Other (please specify) <input style="width: 150px; height: 15px;" type="text"/> |

**OPERATING FACILITIES**

2. How many operating theatres are there (excluding obstetric theatres)?

**3. THEATRE AVAILABILITY**

3a. NCEPOD (definition - theatre available and staffed to deal with emergency/urgent surgery)	Monday-Friday				Saturday-Sunday				Trauma (definition - available and staffed to deal with emergency/urgent trauma and orthopaedic surgery)	Monday-Friday				Saturday-Sunday			
	Yes		No		Yes		No			Yes		No		Yes		No	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
08:00-17:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	08:00-17:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
18:00-23:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18:00-23:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
00:00-07:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	00:00-07:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3b. Dedicated and planned ANAESTHETIC consultant sessions to support theatres (excl. on call and any other duties at same time)

NCEPOD (see definitions above)	Monday-Friday				Saturday-Sunday				Trauma (see definitions above)	Monday-Friday				Saturday-Sunday			
	Yes		No		Yes		No			Yes		No		Yes		No	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
08:00-17:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	08:00-17:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
18:00-23:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18:00-23:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
00:00-07:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	00:00-07:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3c. Dedicated and planned SURGICAL consultant sessions to support theatres (excl. on call and any other duties at same time)

NCEPOD (see definitions above)	Monday-Friday				Saturday-Sunday				Trauma (see definitions above)	Monday-Friday				Saturday-Sunday			
	Yes		No		Yes		No			Yes		No		Yes		No	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
08:00-17:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	08:00-17:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
18:00-23:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18:00-23:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
00:00-07:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	00:00-07:59	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



4a. Does the hospital use a clinical priority grading system (e.g. NCEPOD) for determining clinical priority in emergency surgery?  Yes  No

4b. If YES, which one?

5. For the general emergency theatres is there a co-ordinator or other system for confirming that relevant investigations and resuscitation have been completed and the patient is "fit" for theatre?  Yes  No

6. How is the priority of access to emergency theatres arbitrated if mutual agreement between clinicians cannot be achieved? Answers may be multiple.

- |  |   |
|--|---|
| <input type="checkbox"/> Strict adherence to NCEPOD classification | <input type="checkbox"/> Anaesthetic arbitrator         |
| <input type="checkbox"/> Surgical arbitrator                       | <input type="checkbox"/> Medical director as arbitrator |
| <input type="checkbox"/> Theatre manager as arbitrator             | <input type="checkbox"/> Senior nurse as arbitrator     |
| <input type="checkbox"/> First come first served                   | <input type="checkbox"/> Other, please specify:         |
| <input type="checkbox"/> No system in place - ad hoc arrangements  | <input type="text"/>                                    |

7a. Do the operating theatres have a post-anaesthetic recovery area (see definition) or room equipped and staffed for this purpose?  Yes  No

7b. If YES, is the recovery area available and staffed 24 hours a day/7 days a week?  Yes  No

7c. If YES, is it possible to provide ventilatory support and ongoing management in this area?  Yes  No

7d. If ventilatory support and ongoing management can be provided, please select one from the following (i.e. the longest period):

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> In emergency               | <input type="checkbox"/> Overnight        | <input type="checkbox"/> Not applicable |
| <input type="checkbox"/> Short term (up to 6 hours) | <input type="checkbox"/> 24 hours or more |   |

7e. If NO to 7b, please specify the opening hours:

8a. Are there clearly defined criteria in place for safe discharge of patients from the post operative recovery unit? (e.g. warm, pain controlled, haemodynamic and respiratory stability)  Yes  No

8b. If YES, please specify:



# SPECIAL CARE AREAS

9a. Does the hospital have a critical care unit?

Yes  No

9b. If YES, please indicate how many beds the hospital has reserved for at each level of critical care (see definitions)?

If it is a combined level 2/3 critical care unit, please indicate nominal numbers of beds at each level

Adult general      Level 2      Level 3

    

10a. How many admissions were there from 1 April 2009-31 March 2010:

Level 2      Level 3  
     

10b. How many of these admissions were for planned post operative care of elective/scheduled patients?

Level 2      Level 3  
     

11. If there is more than one level 2 unit, what specialty-specific level 2 unit exists (answers may be multiple)

- |  |   |
|--|---|
| <input type="checkbox"/> N/A - only one level 2 unit | <input type="checkbox"/> Cardiac surgery                          |
| <input type="checkbox"/> General surgery             | <input type="checkbox"/> Gynaecology                              |
| <input type="checkbox"/> Neurosurgery                | <input type="checkbox"/> Oral and maxillofacial surgery           |
| <input type="checkbox"/> Otolaryngology              | <input type="checkbox"/> Plastic surgery (excluding hand surgery) |
| <input type="checkbox"/> Thoracic surgery            | <input type="checkbox"/> Trauma and orthopaedic surgery           |
| <input type="checkbox"/> Urology                     | <input type="checkbox"/> Vascular surgery                         |
| <input type="checkbox"/> Other (please specify)      | <input type="text"/>  |

For the main adult general level 2 unit:

12. Which specialties are involved in patient management during the day (08:00-17:59, Monday-Friday)?

- |   |  |
|---|--|
| <input type="checkbox"/> Surgical specialty only                      | <input type="checkbox"/> Intensivists/anaesthetic staff only |
| <input type="checkbox"/> Both surgeons and intensivists/anaesthetists | <input type="checkbox"/> Medicine                            |
| <input type="checkbox"/> Other, please specify:                       | <input type="text"/>   |

13a. Is the level 2 care unit available and staffed 24 hours a day, 7 days a week?  Yes  No  Unknown

13b. If NO, please specify the opening hours:



**For the main adult general level 2 unit (contd):**

14. Which specialties are primarily involved in patient management out of hours (18:00-07:59 and at weekends)?

Surgical specialty only  Intensivists/anaesthetic staff only

Both surgeons and intensivists/anaesthetists  Medicine

Other, please specify:

**For the main adult general level 3 unit:**

15. If there is more than one level 3 unit, what specialty-specific level 3 unit exists (answers may be multiple)

- |  |   |
|--|---|
| <input type="checkbox"/> N/A - only one level 3 unit | <input type="checkbox"/> Cardiac surgery                          |
| <input type="checkbox"/> General surgery             | <input type="checkbox"/> Gynaecology                              |
| <input type="checkbox"/> Neurosurgery                | <input type="checkbox"/> Oral and maxillofacial surgery           |
| <input type="checkbox"/> Otolaryngology              | <input type="checkbox"/> Plastic surgery (excluding hand surgery) |
| <input type="checkbox"/> Thoracic surgery            | <input type="checkbox"/> Trauma and orthopaedic surgery           |
| <input type="checkbox"/> Urology                     | <input type="checkbox"/> Vascular surgery                         |

Other (please specify)

16a. Is the level 3 care unit available and staffed 24 hours a day, 7 days a week?  Yes  No

16b. If NO, please specify the opening hours:

17. For patients requiring renal replacement therapy on ICU which of the following apply?:

- |  |  |
|--|--|
| <input type="checkbox"/> Renal medicine on site  | <input type="checkbox"/> Haemodialysis available elsewhere in hospital |
| <input type="checkbox"/> Haemofiltration available in ICU  | <input type="checkbox"/> Haemodialysis available in ICU                |
| <input type="checkbox"/> Patients with acute renal failure must be transferred to another hospital |  |

18. Does the hospital have a formal policy for the recognition and management of acutely ill patients in line with NICE CG50?  Yes  No

19a. Does your hospital have a critical care outreach team?  Yes  No

19b. If YES, when is the outreach facility available?

- |   |  |
|---|--|
| <input type="checkbox"/> 24 hours, 7 days per week  |  |
| <input type="checkbox"/> 24 hours on selected days  | How many days? <input type="text"/> <input type="text"/> <input type="text"/>          |
| <input type="checkbox"/> <24 hours, 7 days a week   | How many hours per day? <input type="text"/> <input type="text"/> <input type="text"/> |
| <input type="checkbox"/> <24 hours on selected days | How many days? <input type="text"/> <input type="text"/> <input type="text"/>          |
|   | How many hours per day? <input type="text"/> <input type="text"/> <input type="text"/> |



**PRE-OPERATIVE ASSESSMENT FACILITIES**

20a. Does this hospital run pre-operative anaesthetic assessment clinics?  Yes  No

20b. Who runs these clinics? (please specify)

21a. Does this hospital run pre-admission (surgical) assessment clinics?  Yes  No

21b. Who runs these clinics? (please specify)

22. Does your hospital have a policy for medical pre-assessment in particular patient groups?  Yes  No

23. In general, are all required investigations performed during a single visit?  Yes  No  Unknown

24a. Does this hospital have written policies or protocols for assessing the nutritional status of patients?  Yes  No

24b. If YES, does this include the involvement of a dietician?  Yes  No

25a. Does the Trust have the facility for Cardiopulmonary Exercise (CPEX) testing?  Yes  No

25b. How many patients underwent CPEX testing from 1 April 2009 -31 March 2010?   Unknown

25c. How are patients selected for CPEX testing?

Clinician's choice  Selecting operative categories

Selecting comorbidities

Other, please specify

26a. Is echocardiography available 24 hours/7 days a week?  Yes  No

26b. If NO, when is echocardiography available?

27. Is there the facility to admit patients for pre-operative optimisation of their medical condition?  Yes  No

28a. Does your hospital have a protocol for the prophylaxis of venous thromboembolism?  Yes  No

**If YES:**

28b.  Does this comply with NICE guidance (CG 92)?  Yes  No

28c.  Do you measure VTE compliance?

28d.  What percentage were compliant with CG92 from 1 April 2009-31 March 2010?   Unk



- 29a. Does this hospital have a cross directorate policy on the avoidance of peri-operative hypothermia?  Yes  No
- 29b. Does this comply with NICE guidance (CG 65)?  Yes  No
30. Are patients with appropriate medical need admitted on the day prior to surgery?  Yes  No
31. Does your Trust have a protocol for the peri-operative management of patients with diabetes mellitus?  Yes  No

**ADDITIONAL COMMENTS**

If needed, please use this page for providing additional information (please indicate the question number a response relates to)

**THANK YOU FOR TAKING THE TIME TO COMPLETE THIS QUESTIONNAIRE - IT IS GREATLY APPRECIATED!**

