

UK Obstetric Surveillance System

High Neuraxial Block Study 02/17 FORM C

Data Collection Form - CASE

Please report any pregnant woman delivering between 01/09/2017 and 31/08/2019

Case Definition:

Any pregnant woman who develops a high block in association with spinal and or epidural anaesthesia /analgesia that requires ventilatory support* and /or cardiopulmonary resuscitation**.

*Ventilatory support includes the additional use of 'bag/mask' ventilation, or ventilation assisted by the use of a supraglottic airway device or endotracheal tube.

**Cardiopulmonary resuscitation includes the use of basic and advanced life support.

You have been sent High Neuraxial Block Form C

You have been allocated Form C because you answered the email questionnaire 'What was the very <u>last</u> anaesthetic intervention that directly resulted in the high neuraxial block?' as

Top up of epidural/Top up of epidural component of CSE If this is NOT correct DO NOT complete this form.

Please contact the UKOSS Office at ukoss@npeu.ox.ac.uk as you will require a different form.



Please return the completed form to:

UKOSS

National Perinatal Epidemiology Unit University of Oxford Old Road Campus, Oxford. OX3 7LF

Fax: 01865 617775 Phone: 01865 289714

Case reported in:



Instructions

- 1. Please do not enter any personally identifiable information (e.g. name, address or hospital number) on this form.
- 2. Please record the ID number from the front of this form against the woman's name retained in the UKOSS folder.
- 3. Fill in the form using the information available in the woman's case notes.
- 4. Tick the boxes as appropriate. If you require any additional space to answer a question please use the space provided in section 10.
- 5. Please complete all dates in the format DD/MM/YY, and all times using the 24hr clock e.g. 18.37
- 6. If codes or examples are required, some lists (not exhaustive) are included on the back page of the form.
- 7. If the woman has not yet delivered, please complete the form as far as you are able, excluding delivery and outcome information, and return to the UKOSS Administrator. We will send these sections again for you to complete two weeks after the woman's expected date of delivery.
- 8. If you do not know the answers to some questions, please indicate this in section 10.
- 9. If you encounter any problems with completing the form please contact the UKOSS Administrator or use the space in section 10 to describe the problem.



Section 1: Woman's de	tails		
1.1 Year of birth	1.1 Year of birth		
1.2 Ethnic group ^{1*} (enter co	1.2 Ethnic group ^{1*} (enter code, please see back cover for guidance)		
<u>-</u>	employment at booking?	Yes No	
· ·	upation ner's (if any) occupation		
1.4 Height at booking	ior o (ii arry) occupation	ст	
1.5 Weight at booking		kg	
1.6 Smoking status		never gave up prior to pregnancy	
no omoking status	C	current gave up during pregnancy	
		gare of annia heading.	
Section 2: Previous Ob	estetric History		
2.1 Gravidity			
-	pregnancies beyond 24 weeks		
Number of pregnancie			
If no previous pregna	ancies, please go to section 3.		
2.2 Did the woman have an	y previous pregnancy problen	ns?²* Yes No	
If Yes, please specify			
Section 3: Previous Me	edical History		
3.1 Please indicate whethe	r any of the following were pre	sent: (Please tick all that apply)	
	Previous spinal surgery	Spinal scoliosis Spinal kyphosis	
	Spinal cana	Il stenosis Spina bifida Other	
If Other, please give	details		
3.2 Did this woman have a	ny other previous or pre-existi	ng medical problems?3* Yes No	
	ails		
11 100, piodeo givo del			
Section 4: This Pregna	ncv		
4.1 Final Estimated Date of		D D / M M / Y Y	
4.2 Was this a multiple pre	• . ,	Yes No	
If Yes, specify number			
• • •	oblems in this pregnancy exc	ept	
for High Neuraxial Bloc		Yes No	
If Yes, please specify			

Section 5:
Section 5a: Anaesthetic Intervention
5a.1 What was the initial indication for the primary (first) neuraxial procedure? (Please tick one only) Labour analgesia Category 1 Caesarean Section Category 2 Caesarean Section Category 3 Caesarean Section Category 4 Caesarean Section
Instrumental Delivery Retained products Tear repair Other
If Other, please give details
5a.2 When was the primary neuraxial procedure performed?
5a.3 Was the primary neuraxial procedure an epidural, SSS or CSE?
Epidural SSS CSE
If Epidural, please answer Q5a.4 If CSE, please answer Q.5a.5 If SSS, please answer Q.5a.6
5a.4 If Epidural,
i). How many attempts were there to locate the epidural space (successful and unsuccessful)? Successful Unsuccessful
ii). Was loss of resistance determined using saline or air?
iii). Was there a recognised dural tap with the Tuohy needle?
5a.5 If CSE,
i). How many attempts were there to locate the epidural space (successful and unsuccessful)? Successful Unsuccessful
ii). Was loss of resistance determined using saline or air? Saline Air
iii). Was there a recognised dural tap with the Tuohy needle?
iv). How many attempts were there to puncture the dura with the spinal needle?
5a.6 If SSS,
i). How many attempts were there to puncture the dura with the spinal needle?
Section 5c: High neuraxial block after an epidural top-up or top-up of epidural component of CSE without a resited epidural catheter
5c.1 What drugs were used for initial set up of the neuraxial block?
Agent Route (Epidural or Spinal)
5c.2 What was the routine method of epidural maintenance?
Midwife led syringe boluses Patient controlled epidural analgesia via pump
Midwife controlled epidural analgesia via pump Other (e.g. infusion)
If Other, please give details

5c.3 Were any epidural drugs given <i>prior</i> to the top-up that led to high neuraxial block? Yes No	$\Big]$
If Yes, what was the first agent used (e.g. 0.1% bupivacaine with 25 mcg fentanyl)?	_
How many top-ups of this agent were given (e.g. 2x5ml, 4x10ml)?	_
Over what duration (e.g. 5 hours)?	-
Were any other agents used <i>prior</i> to the top-up that led to the high neuraxial block? Yes No]
If Yes, what agent and dose/concentration volume was given e.g. 20 mls 0.5% L- Bupivacaine	
5c.4 Concerning the top-up that led directly to the high neuraxial block what was the indication for the top-up?	
Labour analgesia Category 1 Caesarean Section Category 2 Caesarean Section]
Category 3 Caesarean Section Category 4 Caesarean Section	
Instrumental Delivery Retained products Tear repair Other]
If Other, please give details	_
5c.5 Concerning the top-up that led directly to the high neuraxial block, who gave this top-up?	
Midwife led syringe boluses Patient controlled epidural analgesia via pump]
Midwife controlled epidural analgesia via pump Anaesthetist led Other]
If Other, please give details	
5c.6 For this top-up that resulted in the high neuraxial block, when was the dose given?	
DD/MM/YY hh:mm]
5c.6ii What agent and dose/concentration/volume was given e.g. 20 mls 0.5% L-Bupivacaine	_
5c.7 Was the epidural catheter subsequently found to be Intrathecal?	
Yes No Don't know]
Section & Diagnosis of High Neurovial Plack	\supset
Section 6: Diagnosis of High Neuraxial Block	
6.1 What was the date and time when symptoms/signs of a high neuraxial block were first detected? DD/MM/YY hh h: m m]
6.2 What was the date and time when the high neuraxial block was first diagnosed?]
6.3 Where was the woman when the high neuraxial block occurred?	
Labour room In transit to operating theatre Operating theatre]
In recovery Other	
in recovery other]

6.4	What was the first sympton neuraxial block? (Please tide		e diagnosis of a	a high	
	Anxiety Nausea Vomiting Increased lower limb motor block				
	Arm dysaesthesia / parae	Arm dysaesthesia / paraesthesia / paralysis Hand dysaesthesia / paraesthesia / paralysis			
	Shortness of breath Difficulty speaking Difficulty coughing				ulty coughing
		Decreased conscious	s level Los	s of consciousness	Other
	If Other, please give details				
6.5	What other symptoms sub diagnosis of a high neurax Anxiety	tial block? (Please tid	k all that apply)	the	motor block
	Arm dysaesthesia / parae	esthesia / paralysis 🗌	Hand dysaes	thesia / paraesthes	sia / paralysis
	;	Shortness of breath $oxedsymbol{oxed}$	Difficulty sp	eaking Difficu	ulty coughing
		Decreased conscious	s level Los	s of consciousness	Other
	If Other, please give deta	ails			
6.6	What was the first sign that block? (Please tick only one		nosis of a high	n neuraxial	
	Hypotension	Tachycardia Bra	adycardia 🗌	Decreasing oxyger	n saturations
		Cranial nerve involven	nent Fetal	heart rate changes	Other
	If Other, please give deta	ails			
6.7	What other signs subseque a high neuraxial block? (Phypotension	lease tick all that apply	/)		
		lachycardia Br	advcardia 📗 📗	Decreasing oxyger	n saturations
	,. <u> </u>	Tachycardia Bra Cranial nerve involven		Decreasing oxyger	
	,. <u> </u>	Cranial nerve involven	nent Fetal	Decreasing oxyger heart rate changes	
6.8	, <u> </u>	Cranial nerve involven	nent Fetal	heart rate changes	
6.8	If Other, please give deta	Cranial nerve involven	nent Fetal	heart rate changes	Other
	If Other, please give deta Did the woman have a resp If Yes, please state date a	Cranial nerve involventalls piratory arrest? and time	nent Fetal	heart rate changes	Yes No Yhhh mm
6.8	If Other, please give deta	Cranial nerve involventable ails piratory arrest? and time diorespiratory arrest	nent Fetal	heart rate changes	Yes No Yhhh mm
	If Other, please give deta Did the woman have a resp If Yes, please state date a Did the woman have a care If Yes, please state date a	Cranial nerve involventable ails piratory arrest? and time diorespiratory arrest	nent Fetal	heart rate changes	Yes No Yhhh mm
	If Other, please give deta Did the woman have a resp If Yes, please state date a Did the woman have a care If Yes, please state date a i). Were chest comp	Cranial nerve involventable ails piratory arrest? and time diorespiratory arrest and time	nent Fetal	heart rate changes	Yes No Yes Yes No Yes Yes No Yes
	If Other, please give deta Did the woman have a resp If Yes, please state date a Did the woman have a care If Yes, please state date a i). Were chest comp If Yes, for how long	Cranial nerve involventable ciratory arrest? and time diorespiratory arrest and time oressions started?	nent Fetal ?	heart rate changes	Yes No Yes Yes No Yes Yes No Yes
	If Other, please give deta Did the woman have a resp If Yes, please state date a Did the woman have a care If Yes, please state date a i). Were chest comp If Yes, for how long	Cranial nerve involventable coiratory arrest? and time diorespiratory arrest and time pressions started? and were they continued ginal rhythm at arrest	rent Fetal	heart rate changes	Yes No Yes Yes No Yes Yes No Yes
	If Other, please give deta Did the woman have a resp If Yes, please state date a Did the woman have a care If Yes, please state date a i). Were chest comp If Yes, for how lore ii). What was the ori Shockable eg VF/ p	Cranial nerve involventable ails ciratory arrest? and time diorespiratory arrest and time oressions started? ag were they continued ginal rhythm at arrest ulseless VT None ks were given?	rent Fetal ? d? st? a-shockable eg F	heart rate changes	Yes No Yes Yes No Yes N
	If Other, please give deta Did the woman have a resp If Yes, please state date a Did the woman have a care If Yes, please state date a i). Were chest comp If Yes, for how lor ii). What was the ori Shockable eg VF/ p iii). How many shock iv). Was spontaneous	Cranial nerve involventable coiratory arrest? and time diorespiratory arrest and time oressions started? ag were they continued ginal rhythm at arrest ulseless VT None or were given? as circulation restore	rent Fetal ? d? a-shockable eg F	heart rate changes	Yes No Yes No Yes No Yes No No Yes No No Yes No No Yes No Yes No Yes No No Yes Yes No Yes Yes No Yes
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	If Other, please give deta Did the woman have a resplicate date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, for how lone Shockable eg VF/ p Iii). Was spontaneous the woman have a care If Yes, please state date at the second of the woman have a care If Yes, for how lone Shockable eg VF/ p Iii). How many shock iv. If Yes, for how lone Shockable eg VF/ p Iii). How many shock iv. If Yes, for how lone Shockable eg VF/ p Iii). Was spontaneous v. If Yes, for how lone What agents were the second of the second	Cranial nerve involventable coiratory arrest? and time diorespiratory arrest and time oressions started? ag were they continued iginal rhythm at arrest ulseless VT None is were given? is circulation restore the used to provide and	rent Fetal Petal Peta	heart rate changes DD/MM/Y DD/MM/Y PEA or Asystole t void awareness?	Yes No Yes Yes No Yes Yes No Yes Yes No Yes
	If Other, please give deta Did the woman have a resplicate date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, for how lone Shockable eg VF/ p Iii). Was spontaneous the woman have a care If Yes, please state date at the second of the woman have a care If Yes, for how lone Shockable eg VF/ p Iii). How many shock iv. If Yes, for how lone Shockable eg VF/ p Iii). How many shock iv. If Yes, for how lone Shockable eg VF/ p Iii). Was spontaneous v. If Yes, for how lone What agents were the second of the second	Cranial nerve involventable coiratory arrest? and time diorespiratory arrest and time oressions started? ag were they continued iginal rhythm at arrest ulseless VT None is were given? is circulation restore the used to provide and	rent Fetal Petal Peta	heart rate changes DD/MM/Y DD/MM/Y PEA or Asystole t void awareness?	Yes No Yes Yes No Yes Yes No Yes Yes No Yes
	If Other, please give deta Did the woman have a resplicate date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, please state date at the second of the woman have a care If Yes, for how lone Shockable eg VF/ p Iii). Was spontaneous the woman have a care If Yes, please state date at the second of the woman have a care If Yes, for how lone Shockable eg VF/ p Iii). How many shock iv. If Yes, for how lone Shockable eg VF/ p Iii). How many shock iv. If Yes, for how lone Shockable eg VF/ p Iii). Was spontaneous v. If Yes, for how lone What agents were the second of the second	Cranial nerve involventable coiratory arrest? and time diorespiratory arrest and time oressions started? ag were they continued iginal rhythm at arrest ulseless VT None is were given? is circulation restore the used to provide and	rent Fetal Petal Peta	heart rate changes DD/MM/Y DD/MM/Y PEA or Asystole t void awareness?	Yes No Yes Yes No Yes Yes No Yes Yes No Yes

Section 7: Management	of high neuraxial	block		
7.1 What airway support did	the woman require?			
Bag-mask-valve ventila	tion only			
If Yes, for how long	If Yes, for how long was this required?			
Laryngeal mask airway				
If Yes, for how long	was this required?			
Endotracheal intubation	l			
If Yes, for how long	was this required?			
7.2 Please list all drugs give	n to secure the airway	, with doses, in	order. Include re	epeated doses.
Name of drug	Date given	Time given	Dose and units	Route
	DD/MM/YY	h h m m		
	DD/MM/YY	h h m m		
	DDMMMTTT			
7.3 Were there any difficulties	es securing the airway	?		Yes No
If Yes, please give deta	ails			
7.4 In the immediate manage woman receive from the				?
Fluid	\	/olume	R	ate
			-	
hypotension? If Yes, please list any di	ruas aiven			Yes No No
Name of drug	Date given	Time given	Dose and units	Route
reality of drug		h h m m		rtouto
	DD MM/YY	h h m m		
	DD/MM/YY	h h m m		

Section 8: Outcomes
Section 8a: Woman
8a.1 Was the woman admitted to ITU (critical care level 3)? Yes No
If Yes, please specify:
Duration of stay days
What was the duration of ventilation (days)?
What was the duration of inotropic support (days)?
Is the woman still in ITU (critical care level 3)? Yes No
Was the woman transferred to another hospital Yes No
8a.2 Did any other major maternal morbidity occur?6* If Yes, please specify
8a.3 Did the woman die?
If Yes, please specify date of death
What was the primary cause of death as stated on the death certificate?
(Please state if not known)
Section 8b: Infant
NB: If more than one infant, for each additional infant, please photocopy the infant section of the form (before filling it in) and attach extra sheet(s) or download additional forms from the website: www.npeu.ox.ac.uk/ukoss
8b.1 Date and time of delivery
8b.2 Prior to the high neuraxial block what was the intended mode of delivery
Spontaneous vaginal Ventouse Forceps
Pre-labour caesarean section Caesarean section after onset of labour
8b.3 Was the delivery expedited because of the high neuraxial block Yes No
If Yes, what was the time from decision to delivery?
Was the delivery carried out to aid maternal resuscitation or to aid fetal resuscitation
Maternal resuscitation Fetal resuscitation Both Unknown
8b.4 What was the actual mode of delivery? Spontaneous vaginal Ventouse Forceps
Pre-labour caesarean section Caesarean section after onset of labour
8b.5 Where was the baby delivered? Delivery room Theatre Other
If Other, please give details
8b.6 Birthweight g
8b.7 Sex of infant Male Female Indeterminate
8b.8 Was the infant stillborn? Yes No
If Yes, was the death ante-partum or intra-partum? Ante-partum Intra-partum
8b.9 Apgar

8b.10 Did the infant have cord gas	ses recorded?		Yes No
If Yes, please complete tab			
Date	Time	Result	
DD/MM/YY	h h m m		
DD/MM/YY	h h : m m		
	h h m m		
8b.11 Was the infant admitted to the			Yes No
8b.12 Did any major infant complice of the state of the s			Yes No No
8b.13 Did this infant die?			Yes No
If Yes, please specify date	of death		DD/MM/YY
What was the primary caus			
(Please state if not known)			
Section 9:			
Please use this space to enter any o			xample any particular
anaesthetic morbidity such as aware	eness, PDPH, or o	tner complications etc.	

Section 10:	
Name of person completing the form	
Designation	
Today's date	D D / M M / Y Y
You may find it useful in the case of queries to keep a copy of this form.	



Definitions

1. UK Census Coding for ethnic group

WHITE

01. British

02. Irish

03. Any other white background

MIXED

04. White and black Caribbean

05. White and black African

06. White and Asian

07. Any other mixed background

ASIAN OR ASIAN BRITISH

08. Indian

09. Pakistani

10. Bangladeshi

11. Any other Asian background

BLACK OR BLACK BRITISH

12. Caribbean

13. African

14. Any other black background

CHINESE OR OTHER ETHNIC GROUP

15. Chinese

16. Any other ethnic group

2. Previous or current pregnancy problems, including:

Thrombotic event

Amniotic fluid embolism

Eclampsia

3 or more miscarriages

Preterm birth or mid trimester loss

Neonatal death

Stillbirth

Baby with a major congenital abnormality

Small for gestational age (SGA) infant

Large for gestational age (LGA) infant

Infant requiring intensive care

Puerperal psychosis

Placenta praevia

Gestational diabetes

Significant placental abruption

Post-partum haemorrhage requiring transfusion

Surgical procedure in pregnancy

Hyperemesis requiring admission

Dehydration requiring admission

Ovarian hyperstimulation syndrome

Severe infection e.g. pyelonephritis

3. Previous or pre-existing maternal medical problems, including:

Cardiac disease (congenital or acquired)

Renal disease

Endocrine disorders e.g. hypo or hyperthyroidism

Psychiatric disorders

Haematological disorders e.g. sickle cell disease, diagnosed thrombophilia

Inflammatory disorders e.g. inflammatory bowel disease

Autoimmune diseases

Cancer

HIV

4. Estimated date of delivery (EDD):

Use the best estimate (ultrasound scan or date of last menstrual period) based on a 40 week gestation

5. RCA/RCOG/CEMACH/CNST Classification for urgency of caesarean section:

- 1. Immediate threat to life of woman or fetus
- 2. Maternal or fetal compromise which is not immediately life-threatening
- 3. Needing early delivery but no maternal or fetal compromise
- 4. At a time to suit the woman and maternity team

6. Major maternal morbidity, including:

Persistent vegetative state

Cardiac arrest

Cerebrovascular accident

Adult respiratory distress syndrome

Disseminated intravascular coagulopathy

HELLP

Pulmonary oedema

Mendleson's syndrome

Renal failure

Thrombotic event

Septicaemia

Required ventilation

7. Fetal/infant complications, including:

Respiratory distress syndrome

Intraventricular haemorrhage

Necrotising enterocolitis

Neonatal encephalopathy

Chronic lung disease

Severe jaundice requiring phototherapy

Major congenital anomaly

Severe infection e.g. septicaemia, meningitis

Exchange transfusion