

UK Obstetric Surveillance System

High Neuraxial Block Study 02/17 FORM D

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 D

You have been allocated Form D 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 after resited epidural catheter

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



Royal College of Obstetricians and Gynaecologists Bhone: 01865 289714

Bringing to life the best in women's health care

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.

Sec	ction 1: Woman's details	
1.1	Year of birth	YYYY
1.2	Ethnic group ^{1*} (enter code, please see back cover fo	or guidance)
1.3	Was the woman in paid employment at booking? If Yes, what is her occupation If No, what is her partner's (if any) occupation	Yes No
1.4	Height at booking	cm
1.5	Weight at booking	
1.6	Smoking status	never 🔄 gave up prior to pregnancy 🗌
		current gave up during pregnancy

Sec	ction 2: Previous Obstetric History	
2.1	Gravidity	
	Number of completed pregnancies beyond 24 weeks	
	Number of pregnancies less than 24 weeks If no previous pregnancies, please go to section 3.	
2.2	Did the woman have any previous pregnancy problems? ^{2*} Yes If Yes, please specify	No

Section 3: Previous Medical History					
3.1	Please indicate whether	any of the following were present: (Please tick all that apply)			
		Previous spinal surgery Spinal scoliosis Spinal kyphosis			
		Spinal canal stenosis Spina bifida Other			
	If Other, please give de	etails			
3.2	Did this woman have any	v other previous or pre-existing medical problems? ^{3*} Yes No			
	If Yes, please give deta	ils			

Section 4: This Pregnancy	
4.1 Final Estimated Date of Delivery (EDD) ^{4*}	DD/MM/YY
4.2 Was this a multiple pregnancy?	Yes No
If Yes, specify number of fetuses	
 4.3 Were there any other problems in this pregnancy except for High Neuraxial Block?^{2*} If Yes, please specify 	Yes No

Section 5:
Section 5a: Anaesthetic Intervention
5a.1 What was the initial indication for the primary (first) neuraxial procedure? (Pleasetick 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? Saline Air
iii). Was there a recognised dural tap with the Tuohy needle? Yes No
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? Yes No
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 5d: High neuraxial block following epidural top-up or top up of epidural component of CSE after previously resited epidural catheter					
5d.1 What	drugs were used for initial set up of the primar	y neuraxial block?			
	Agent	Route (Epidural or Spinal)			
	was the routine method of epidural maintenan				
Midwife led syringe boluses 📃 Patient controlled epidural analgesia via pump 📃					
	Midwife controlled epidural analog	gesia via pump 📄 Other (e.g. infusion) 🗌			
lf (Other, please give details				
	*For guidance please see t	back cover			

5d.3	Were any epidural drugs given <i>prior</i> to the resite?	Yes No
	If Yes, what was the first agent used after the initial s primary neuraxial block (e.g. 0.1% bupivacaine with	•
	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 resite?	Yes No
	If Yes, what agent and dose/concentration volume 0.5% L- Bupivacaine	
5d.4	Why was the epidural catheter resited?	
	Catheter never worked at any time 📃 Unilateral blo	ck Patchy block Catheter fell out
	Suspected intrathecal catheter Suspected Suspe	uspected intravenous catheter 📃 Other
	If Other, please give details	
5d.5	What was the initial indication for the resite?	
	Labour analgesia 📃 Category 1 Caesarean Se	ction Category 2 Caesarean Section
	Category 3 Caesarean Se	ction Category 4 Caesarean Section
	Instrumental Delivery 📃 Retain	ned products 📄 Tear repair 📄 Other 🗌
	If Other, please give details	
5d.6	When was the resite performed?	DD MM/YY hh:mm
5d.7	Was the resite an epidural or CSE?	Epidural CSE
	If Epidural,	
	i). How many attempts were there to locate the ep (successful and unsuccessful)?	idural space Successful Unsuccessful
	ii). Was loss of resistance determined using saline	or air? Saline Air
	iii). Was there a recognised dural tap with the Tuoh	y needle? Yes No
	If CSE,	
	iv). How many attempts were there to locate the ep	
	(successful and unsuccessful)?	Successful Unsuccessful
	v). Was loss of resistance determined using saline	
	vi). Was there a recognised dural tap with the Tuoh	y needle? Yes No
	i). How many attempts were there to puncture the	dura with the spinal needle?
5d.8	What drugs were used for initial set up of the resite	?
	Agent	Route (Epidural or Spinal)
5d 9	What was the method of epidural maintenance after	
54.3	-	ent controlled epidural analgesia via pump
		Anaesthetist led Other (e.g. infusion)
	If Other, please give details	

5d.10 Were any epidural top-up drugs given prior to the top-up that led to high neuraxial block? Yes No
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 prior to the top-up that led to the high neuraxial block?
If Yes, what agent and dose/concentration/volume was given e.g. 20 mls 0.25% L- Bupivacaine
5d.11 Concerning the top-up that lead 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
5d.12 Concerning the top-up that lead 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 (e.g. infusion)
If Other, please give details
5d.13 For this top-up that resulted in the high neuraxial block, when was the dose given
5d.13ii What agent and dose/concentration/volume was given e.g. 20 mls 0.5% L-Bupivacaine
5d.14 Was the epidural catheter subsequently found to be Intrathecal?
Yes No Don't know

Sec	tion 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?
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
	If Other, please give details
6.4	What was the first symptom that suggested the diagnosis of a high neuraxial block? (Please tick one only)
	Anxiety Nausea Vomiting Increased lower limb motor block

	Arm dysaesthesia / pa	araesthesia / paralysis Shortness of breath _ Decreased conscious	Difficulty sp	o 	Ilty coughing
	If Other, please give of	letails			
6.5	What other symptoms s diagnosis of a high neu Anxi	raxial block? (Please tic	k all that apply)	l the creased lower limb	motor block
		araesthesia / paralysis		sthesia / paraesthes	
		Shortness of breath	Difficulty sp	eaking Difficu	Ilty coughing
		Decreased conscious		s of consciousness	o Other
	If Other, please give of	letails			
6.6					
	Hypotension	Tachycardia Bra	adycardia	Decreasing oxyger	n saturations
		Cranial nerve involver	nent 🗌 Fetal	heart rate changes	Other
	If Other, please give of	letails			
6.7	7 What other signs subsequently occurred that suggested the diagnosis of a high neuraxial block? (Please tick all that apply)				
	Hypotension Tachycardia Bradycardia Decreasing oxygen saturations				
Cranial nerve involvement Fetal heart rate changes Other					
If Other, please give details					
6.8	Did the woman have a r If Yes, please state da			D D / M M / Y	Yes No Y h h : m m
6.9	.9 Did the woman have a cardiorespiratory arrest? Yes No				
	If Yes, please state date and time				
	i). Were chest compressions started?				
		long were they continued			
		original rhythm at arres		PEA or Asystole	Unknown
		ocks were given?	I-SHOCKADIE EY I		
	· · ·	ous circulation restore	d?	,	Yes No
	· · ·	the patient in cardiore			
vi). What agents were used to provide anaesthesia or avoid awareness?					
	Name of drug	Date given	Time given	Dose and units	Route
			h h : m m		
		DD/MM/YY	h h : m m		
			h h m m		

Sec	tion 7: Management	of high neura	xial block			
7.1	What airway support did	the woman requir	e?			
	Bag-mask-valve ventila	tion only				
	If Yes, for how long v	was this required?				
	Laryngeal mask airway					
	If Yes, for how long v	was this required?				
	Endotracheal intubation	1				
	If Yes, for how long v	was this required?				
7.2	Please list all drugs give	n to secure the air	way, with doses,	in order. Include re	peated doses.	
	Name of drug	Date given	Time given	Dose and units	Route	
			Y hh mm]		
			Y h h m m			
			Y h h m m	1		
7.3	Were there any difficultie	•			Yes No	
	If Yes, please give deta					
7.4	In the immediate manage woman receive from the)	
	Fluid		Volume	_	ate	
7.5	Did the woman receive a	ny drugs to treat b	oradycardia, tach			
	hypotension? Yes No If Yes, please list any drugs given Ves Ves					
	Name of drug	Dose and units	Route	Date given	Time given	
	Name of drug	Dose and units	Koute			
			L			
					h h m m	
			L		24hr	
			L		24hr	
			L			

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)?	days
What was the duration of inotropic support (days)?	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	Yes No
8a.3 Did the woman die?	Yes No
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)	

Sec	tion 8b: Infant				
NB:		ch additional infant, please photocopy the infant section of the tach extra sheet(s) or download additional forms from the website:			
8b.1	Date and time of delivery	DD/MM/YY hh:mm			
8b.2	Prior to the high neuraxial block what was the intended mode of delivery				
		Spontaneous vaginal Ventouse Forceps			
	Pre-labour ca	esarean 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 d	ecision to delivery?			
	Was the delivery carried out to aid maternal resuscitation or to aid fetal resuscitation				
	Maternal re	suscitation Fetal resuscitation Both Unknown			
8b.4	What was the actual mode of delivery?				
		Spontaneous vaginal Ventouse Forceps			
	Pre-labour ca	esarean 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-partu	m or intra-partum? Ante-partum Intra-partum			
8b.9	Apgar				

8b.10 Did the infant have cord gases recorded? Yes No If Yes, please complete table Yes Yes						
	Date	Time	Result			
		h h i m m				
	DD/MM/YY	h h : m m				
		h h m m				
8b.11 Was the infant admitted to the neonatal unit? Yes No						
8b.12 Did any major infant complications occur? ^{7*} Yes						
If Yes, please specify						
8b.13 Did this infant die?				Yes No		
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 9:						
Please use this space to enter any other information you feel may be important, for example any particular anaesthetic morbidity such as awareness, PDPH, or other complications etc.						

Section 10:				
Name of person completing the form				
Designation				
Today's date	DD/MM/YY			
You may find it useful in the case of gueries to keep a copy of this form.				

Definitions

1. UK Census Coding for ethnic group WHITE

WHILE

01. British 02. Irish

02. Irisr

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