

**UK Obstetric Surveillance System** 

# High Neuraxial Block Study 02/17 FORM F

**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 F

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

Single shot spinal/Spinal component of CSE after 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 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.



				$\overline{}$
Se	ection 1: Woman's details			
1.1	Year of birth	YY		
1.2	Ethnic group <sup>1*</sup> (enter code, please see back cover	for guidance)		
1.3	,			10 <u> </u>
	If Yes, what is her occupation  If No, what is her partner's (if any) occupation			
1.4				cm
1.5	Weight at booking			
			nover agy up prior t	kg
1.6	Smoking status	never gave up prior to pregnancy current gave up during pregnancy		· =
		gave up during pregnancy	surrent gave up duning	
	ection 2: Previous Obstetric History			
2.1	Gravidity  Number of completed programatics beyond 24 we	alia		
	Number of completed pregnancies beyond 24 weeks	eks		
	Number of pregnancies less than 24 weeks  If no previous pregnancies, please go to section	n 3.		
2.2			ns?²*	10 N
	If Yes, please specify			
Se	ection 3: Previous Medical History			
3.1	Please indicate whether any of the following were	e present: (Please tick all that apply)	esent: (Please tick all that a	
	Previous spinal surgery	Spinal scoliosis Spinal kyphosis	Spinal scoliosis Spi	sis
	Spinal	canal stenosis Spina bifida Other	al stenosis Spina bifida	er 🗌
	If Other, please give details			
3.2	Did this woman have any other previous or pre-e	xisting medical problems?3* Yes No	na madical problems 23* \	ا مار
3.2	If Yes, please give details	•	•	10
Sec	tion 4: This Pregnancy			
4.1	Final Estimated Date of Delivery (EDD)4*	D D / M M / Y Y	D D	′ Y
4.2	Was this a multiple pregnancy?	Yes No No	Ye	
	If Yes, specify number of fetuses			
4.3	Were there any other problems in this pregnancy e	except	pt	
	for High Neuraxial Block? <sup>2*</sup>	Yes No	Yes	
	If Yes, please specify			

Section 5:						
Section 5a: Anaesthetic Intervention						
5a.1 What was the initial indication for the primary (first) neuraxial procedure? (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? Saline 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 5f: High neuraxial block after single shot spinal (SSS) or spinal component of CSE after epidural catheter						
5f.1 What drugs were used for initial set up of the primary neuraxial block?						
Agent Route (Epidural or Spinal)						
5f.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						

5f.3	Were any other epidural drugs given prior to the epidural starting to fail?  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)?
5f.4	When the epidural started to fail what was the indication for the top-ups?  Labour analgesia Category 1 Caesarean Section Category 2 Caesarean Section Category 4 Caesarean Section
	Instrumental Delivery Retained products Tear repair Other
	If Other, please specify
5f.5	How were these top-ups given?
	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
5f.6	What agent and dose/concentration/volume was given e.g. 20 mls 0.5%  L-Bupivacaine
5f.7	Concerning the SSS or spinal component of CSE that led directly to the high neuraxial block what was the indication?
	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
<b>5f.8</b>	Was the procedure that led to the high neuraxial block an SSS or CSE?
	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
	i). How many attempts were there to puncture the dura with the spinal needle?
	If SSS,
	i). How many attempts were there to puncture the dura with the spinal needle?
5f.9	When was the SSS or CSE procedure performed?
5f.10	What agent and dose/concentration/volume was given e.g. 2 mls 0.5%  L-Bupivacaine
5f.11	Was the dose used in the SSS or spinal component of CSE the anaesthetist's
	Normal dose Reduced dose Increased dose Don't know
5f.12	
	Full Lateral SLLT Head down Head up Moxford position

Sec	ction 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 / paraesthesia / paralysis Hand dysaesthesia / paraesthesia / paralysis					
	Shortness of breath Difficulty speaking Difficulty coughing D					
	Decreased conscious level Loss of consciousness Other					
	If Other, please give details					
6.5	What other symptoms subsequently occurred that suggested the diagnosis of a high neuraxial block? (Please tick all that apply)					
	Anxiety Nausea Vomiting Increased lower limb motor block					
	Arm dysaesthesia / paraesthesia / paralysis Hand dysaesthesia / paraesthesia / paralysis					
	Shortness of breath Difficulty speaking Difficulty coughing					
	Decreased conscious level Loss of consciousness Other					
	If Other, please give details					
6.6	What was the first sign that suggested the diagnosis of a high neuraxial block? (Please tick one only)					
	Hypotension Tachycardia Bradycardia Decreasing oxygen saturations					
	Cranial nerve involvement Fetal heart rate changes Other					
	If Other, please give details					
6.7	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 respiratory arrest?  Yes No					
	If Yes, please state date and time					
6.9	Did the woman have a cardiorespiratory arrest?  Yes No					
	If Yes, please state date and time					
	i). Were chest compressions started?					
	If Yes, for how long were they continued?					

	ii). What was the original rhythm at arrest?										
		,	Shockable eg VF/ pulseless VT U Non-shockable eg PEA or Asystole Unknown U								
		iii).									
		iv).	•								
		v).	How long was the patient in cardiorespiratory arrest								
	,	-	What agents were used to provide anaesthesia or avoid awareness?								
			Name of drug	Date	given	Time given	Dose and units	Route			
		_		D D / M	M/YY	h h m m					
				DD/M	M / Y Y	h h : m m					
				DD/M	M/YY	h h m m					
Sec	ction	7:	Management	of high	neuraxia	block					
7.1			way support did								
Bag-mask-valve ventilation only											
If Yes, for how long was this required?											
Laryngeal mask airway											
If Yes, for how long was this required?											
	En	dot	racheal intubation								
		lf Y	es, for how long	was this red	quired?						
7.2	Pleas	e li	st all drugs give	n to secur	e the airway	, with doses, in	order. Include re	epeated doses.			
			lame of drug		given	Time given	Dose and units	Route			
			3			h h m m					
	_										
	_			DD/N	MM/YY	h h m m					
	_			DD/N	MM/YY	h h m m					
7.3	Were	the	ere any difficultie	s securing	n the airway	?		Yes No			
			s, please give deta	· ·	-						
7.4	In the	im	mediate manage	ement of h	igh neuraxia	al block what fl					
	woma	an I		time of dia	ı		/ascular stability				
			Fluid		\ 	/olume	R	ate			
	_										
	_						<u> </u>				

7.5 Did the woman receive any drugs to treat bradycardia, tachycardia or hypotension?								
<b>If Yes</b> , please	e list any di	rugs given						
Name o	f drug	Dose and units	Route	Date given	Time given			
				DD/MM/Y	Y h h m m			
					y h h : m m			
					24hr			
				DD/MM/Y	Y hh h mm			
Section 8: Outco	omes							
Section 8a: Wor								
8a.1 Was the woma	n admitted	l to ITU (critical ca	are level 3)?		Yes No			
<b>If Yes</b> , please	e specify:							
Duration of	of stay				days			
		on of ventilation (da			days			
		on of inotropic supp	, , ,		days			
		till in ITU (critical			Yes No			
		n transferred to a			Yes No			
8a.2 Did any other r  If Yes, please	-	ernal morbidity oc	cur? <sup>6*</sup>		Yes No No			
8a.3 Did the woman	die?				Yes No			
<b>If Yes</b> , please	e specify da	ate of death			D / M M / Y Y			
What was the	What was the primary cause of death as stated on the death certificate?							
(Please state if not known)								
Section 8b: Infa	nt							
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			D D / M M /	Y			
8b.2 Prior to the hig	h neuraxia	al block what was	the intended m	node of delivery				
			Spontaneous va	aginal Ventous	e Forceps			
	Pre-la	abour caesarean s	ection Cae	esarean section after	onset of labour			
8b.3 Was the delive	rv expedit	ed because of the	high neuraxial	l block	Yes No			
	•	e from decision to			h h : m m			
· ·			•	on or to aid fetal resu	scitation			
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 va	aginal Ventous	e Forceps			
	Pre-la	abour caesarean s	ection Cae	esarean section after	onset of labour			

8b.5 Where was the baby delivered		Delivery room Theatre Other						
If Other, please give details								
8b.6 Birthweight		9						
8b.7 Sex of infant	Male Female Indeterminate							
8b.8 Was the infant stillborn?		Yes No						
If Yes, was the death ante-par	rtum 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	ı							
Date	Time	Result						
DD MM YY	h h m m							
DD/MM/YY	h h : m m							
DD MM YY	h h m m							
8b.11 Was the infant admitted to the	neonatal unit?	Yes No						
8b.12 Did any major infant complicat	tions occur? <sup>7*</sup>	Yes No						
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 oth	er information you fee	I may be important, for example any particular						
anaesthetic morbidity such as awarene								

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



## **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