

UK Obstetric Surveillance System

High Neuraxial Block Study 02/17 FORM G

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 G

You have been allocated Form G 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 an intentionally threaded epidural catheter into the intrathecal space (i.e intrathecal 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.

Royal College of Obstetricians and Gynaecologists

Bringing to life the best

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 details 1.1 Year of birth 1.2 Ethnic group'* (enter code, please see back cover for guidance) 1.3 Was the woman in paid employment at booking? Yes					
1.2 Ethnic group¹* (enter code, please see back cover for guidence) 1.3 Was the woman in paid employment at booking?	Sed	ction 1: Woman's details			
1.3 Was the woman in paid employment at booking? Yes No If Yes, what is her occupation If No, what is her partner's (if any) occupation	1.1	1 Year of birth			
If Yes, what is her occupation If No, what is her partner's (if any) occupation 1.4 Height at booking 1.5 Weight at booking 1.6 Smoking status 1.7 Gravidity 1.8 Number of completed pregnancies beyond 24 weeks 1.9 Number of pregnancies less than 24 weeks 1.0 If No woman have any previous pregnancy problems?** 1.1 Yes, please specify 1.2 Section 3: Previous Medical History 3.1 Please indicate whether any of the following were present: (Please tick all that apply) 1.9 Previous spinal surgery Spinal scollosis Spinal kyphosis Spinal canal stenosis Spinal bifida Other If Other, please give details 3.2 Did this woman have any other previous or pre-existing medical problems?** Yes No If Yes, please give details 3.2 Did this woman have any other previous or pre-existing medical problems?** Yes No If Yes, please give details 3.2 Did this woman have any other previous or pre-existing medical problems?* Yes No If Yes, please give details Yes No Yes Yes No Yes No Yes	1.2	Ethnic group ^{1*} (enter code, please see back cover for	guidance)		
If No, what is her partner's (if any) occupation 1.4 Height at booking	1.3				
1.4 Helght at booking		·			
1.5 Weight at booking 1.6 Smoking status never	1.4				
Section 2: Previous Obstetric History Gravidity Number of completed pregnancies beyond 24 weeks Number of pregnancies less than 24 weeks If no previous pregnancies, please go to section 3. Yes No If Yes, please specify Previous spinal surgery Spinal scoliosis Spinal biffida Other If Other, please give details Section 4: This Pregnancy If Yes, please give details Section 4: This Pregnancy If Yes, specify umber of fetuses Section 4: This pregnancy Yes No If Yes, specify Yes No If Yes, specify Yes No If Yes, please give details Section 4: This Pregnancy Yes No If Yes, specify number of fetuses Yes No If Yes, specify number of fetuses Yes No If Yes, specify number of fetuses Yes No No Yes No Yes No No Yes Yes No Yes No Yes No Yes No Yes No Yes No Yes Yes No Yes Yes No Yes Yes No Yes Yes Yes No Yes Yes Yes No Yes Yes Yes No Yes					
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2.2 Did the woman have any previous pregnancy problems? ^{2*} Yes No		Number of pregnancies less than 24 weeks			
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for High Neuraxial Block? ^{2*} Yes No		If Yes, specify number of fetuses			
	4.3		· — — —		
II I GO. VICAGE GREEN		If Yes, please specify	res NO		

Section 5:				
Section 5a: Anaesthetic Intervention				
5a.1 What was the initial indication for the primary (first) no	euraxial procedure? (tick one only)			
Labour analgesia Category 1 Caesarean Section	on Category 2 Caesarean Section			
Category 3 Caesarean Section	on Category 4 Caesarean Section			
Instrumental Delivery Retaine	d products Tear repair Other			
If Other, please give details				
5a.2 When was the primary neuraxial procedure performed	d? DD MM/YY h h: m m			
5a.3 Was the primary neuraxial procedure an epidural, SSS				
	Epidural SSS CSE			
If Epidural, please answer Q5a.4 If CSE, please ans	swer Q.5a.5 If SSS , please answer Q.5a.6			
5a.4 If Epidural,				
 i). How many attempts were there to locate the epide (successful and unsuccessful)? 	ural space Successful Unsuccessful			
ii). Was loss of resistance determined using saline o	r air? Saline Air			
iii). Was there a recognised dural tap with the Tuohy i	needle? Yes No			
5a.5 If CSE,				
i). How many attempts were there to locate the epide (successful and unsuccessful)?	ural space Successful Unsuccessful			
ii). Was loss of resistance determined using saline o	r 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 du	ura with the spinal needle?			
5a.6 If SSS,				
i). How many attempts were there to puncture the dura with the spinal needle?				
Section 5g: High neuraxial block after top up of an intentionally threaded epidural catheter into the intrathecal space (i.e. intrathecal catheter)				
5g.1 What drugs were used for initial set up of the neuraxial block?				
Agent	Route (Epidural or Spinal)			

5g.2 After threading the intrathecal catheter did the woman receive any top- ups PRIOR to the one that caused the high block? Yes No
If Yes, how were these administered?
Midwife led syringe boluses Patient controlled epidural analgesia via pump
Anaesthetist led Midwife controlled epidural analgesia via pump Other (e.g. infusion)
If Other, please give details
What was the first agent used?
How many top-ups of this agent were given (e.g. 2x2ml, 4x10ml)? Over what duration (e.g. 5 hours)? Were any other agents used prior to the tap up that led to the high poursyiel.
Were any other agents used <i>prior</i> to the top-up that led to the high neuraxial block?
If Yes, what agent and dose/concentration volume was given e.g. 2 mls 0.5% L- Bupivacaine
5g.3 Concerning the intrathecal 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 4 Caesarean Section
Instrumental Delivery Retained products Tear repair Other
If Other, please give details
5g.4 Concerning the intrathecal 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 (e.g. infusion)
If Other, please give details
5g.5 For this intrathecal top-up that resulted in the high neuraxial block, when was the dose given
What agent and dose/concentration/volume was given e.g. 2 mls 0.5% heavy bupivacaine with 25 mcg fentanyl?
5g.6 Were the drugs and dosages used for this intrathecal top-up intended or accidental?
Intended Accidental
If Accidental, please explain
How was the patient positioned immediately after the Intrathecal top up that led to high neuraxial block?
Full Lateral SLLT Head down Head up Oxford position
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: mm
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 In recovery Other
If Other, please give details

6.4	What was the first sympt neuraxial block? (Please	om that suggested the diagnosis of a high	
	Anxie		
	Arm dysaesthesia / par		
	,	Shortness of breath Difficulty speaking Difficulty coughing	7
		Decreased conscious level Loss of consciousness Other	\exists
	If Other, please give de	etails	
6.5		ubsequently occurred that suggested the	
0.5		axial block? (Please tick all that apply)	
	Anxie	ty Nausea Vomiting Increased lower limb motor block	
	Arm dysaesthesia / par	raesthesia / paralysis Hand dysaesthesia / paraesthesia / paralysis	
		Shortness of breath Difficulty speaking Difficulty coughing	
		Decreased conscious level Loss of consciousness Other	
	If Other, please give de	etails	
6.6	What was the first sign th	nat suggested the diagnosis of a high neuraxial	
	block? (Please tick one or		_
	Hypotension		_
		Cranial nerve involvement Fetal heart rate changes Other	
	If Other, please give de	etails	_
6.7	•	uently occurred that suggested the diagnosis of	
	a high neuraxial block? (Please tick all triat apply)	
	Hypotension	Tachycardia Bradycardia Decreasing oxygen saturations	
	Hypotension	Tachycardia Bradycardia Decreasing oxygen saturations Cranial perve involvement Fetal heart rate changes Other	
		Cranial nerve involvement Fetal heart rate changes Other	
60	If Other, please give de	Cranial nerve involvement Fetal heart rate changes Other etails	
6.8	If Other, please give de	Cranial nerve involvement Fetal heart rate changes Other etails spiratory arrest? Yes No	
	If Other, please give de Did the woman have a re- If Yes, please state date	Cranial nerve involvement Fetal heart rate changes Other etails spiratory arrest? and time DD / M M / Y Y h h 2 m n	
6.8 6.9	If Other, please give de Did the woman have a re- If Yes, please state date Did the woman have a ca	Cranial nerve involvement Fetal heart rate changes Other etails spiratory arrest? and time prediorespiratory arrest? Yes No No No	
	If Other, please give de Did the woman have a re- If Yes, please state date Did the woman have a ca If Yes, please state date	Cranial nerve involvement Fetal heart rate changes Other etails spiratory arrest? e and time ardiorespiratory arrest? e and time DD/MM/YYhhhemme	
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Sec	tion 7: Management	of high neurax	kial block		
7.1	What airway support did	the woman require	e?		
	Bag-mask-valve ventilat	•			
	If Yes, for how long v	vas this required? _			
	Laryngeal mask airway				
	If Yes, for how long v	·			
	Endotracheal intubation				
	If Yes , for how long v	vas this required? _			
7.2	Please list all drugs give	n to secure the air	way, with doses,	in order. Include re	epeated doses.
	Name of drug	Date given	Time given	Dose and units	Route
		DD/MM/Y	Y hh mm	<u> </u>	
		DD/MM/Y	Y h h m m	1	
			V h h m m		
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	R	ate
7.5	Did the woman receive a	ny drugs to treat b	radycardia, tach	•	Vaa 🗆 Na 🗀
	hypotension? If Yes, please list any di	rugs given			Yes No
	Name of drug	Dose and units	Route	Date given	Time given
	Name of drug	Dose and units	Koute	Date given	h h m
				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

Ob 40 Bid the infent have and make			Vac Na Na			
8b.10 Did the infant have cord gases If Yes, please complete table			Yes No			
Date	Time	Result				
Date	Time	Result				
DD/MM/YY	n n m m					
DD/MM/YY	h h : m m					
DD/MM/YY	h h l m m					
	2410					
8b.11 Was the infant admitted to the neonatal unit? Yes No						
8b.12 Did any major infant complications occur?** Yes No						
If Yes, please specify			Vaa 🗆 Na 🗆			
8b.13 Did this infant die? If Yes, please specify date of	death		Yes No			
What was the primary cause		ed on the death certificate?				
(Please state if not known) _						
Section 9:						
Please use this space to enter any oth anaesthetic morbidity such as awarene			example any particular			

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	1.





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