

## **UK Obstetric Surveillance System**

# Severe symptomatic peripartum hyponatraemia

# Study 03/19

**Data Collection Form - CASE** 

Please report any woman delivering on or after the 01/04/19 and before 31/03/20

### **Case Definition:**

All pregnant women identified as having:

Symptomatic hyponatraemia (Na < 125mmol/I) in labour or in the immediate 48 hours following delivery where other causes (e.g. sepsis, pre-eclampsia, drug overdose) have been clinically excluded.

Symptoms may include any of the following - disorientation, agitation, seizures, coma and focal neurological deficits.

## Instructions

- Please do not enter any personally identifiable information (e.g. name, address or hospital number) on this form. 1.
- 2 Fill in the form using the information available in the woman's case notes.
- If the woman has received secondary mental health care (prior to or during her current pregnancy) please consult 3 with the woman's most recent psychiatric team to complete this form. If you are unable to contact a psychiatrist involved in the woman's care please contact the UKOSS administrator and provide details of the mental health team she was receiving care from.
- Tick the boxes as appropriate. If you require any additional space to answer a question please use the space 4. provided in section 7
- 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.
- If you do not know the answers to some questions, please indicate this in section 7 7.
- If the woman has not yet delivered, please complete the form as far as you are able, excluding delivery and outcome 8. 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.
- 9. If you do not know the answers to some questions, please indicate this in section 7.
- 10. If you encounter any problems with completing the form please contact the UKOSS coordinator or use the space in section 10 to describe the problem.



### 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

Bringing to life the best

Royal College of

Obstetricians

and Gynaecologists

Case reported in: \_\_\_\_

Sec	ction 1: Woman's details
1.1	Year of birth:
1.2	Ethnic group: <sup>1*</sup> (enter code, please see back cover for guidance)
1.3	Marital status Single Married Cohabiting
1.4	Was the woman in paid employment at booking?YesNo
	If Yes, what is her occupation:
	If No, what is her partner's (if any) occupation:
1.5	Height at booking:
1.6	Weight at booking:
1.7	What is the woman's smoking status?
	Never Current Gave up prior to pregnancy Gave up during pregnancy

See	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 other previous pregnancy problems? <sup>2*</sup> Yes       No
	If Yes, please specify:

## Section 3: Previous Medical History

3.1	Did the woman have any previous or pre-existing medical problems? <sup>3*</sup>	Yes No
	If Yes, please give details:	
3.2	Did the woman receive any medication in the 7 days preceding delivery?	Yes No
	If Yes, please list any medications received:	
3.3	Did this woman have diabetes prior to pregnancy? Type 1	Туре 2 📃 No 🗌

Sec	ction 4: This Pregnancy	
4.1	Final Estimated Date of Delivery (EDD):4*	D D / M M / Y Y
4.2	Was this a multiple pregnancy?	Yes No
	If Yes, please specify number of fetuses:	
4.3	Did this woman have pre-eclampsia?	Yes No
4.4	Were there any other problems in this pregnancy? <sup>2*</sup>	Yes No
	If Yes, please specify:	

	tion 5:			
Sec	tion 5a: Woman			
5a.1	Did this woman have a miscarriage?			Yes No
	If Yes, please specify date	_		
5a.2	Did this woman have a termination of pre	gnancy?		
	If Yes, please specify date			
	If Yes to 5a.1 or 5a.2, please now complet	e sections 5	b, 6a, 7 and 8	
5a.3	Was delivery induced?			Yes No
	If Yes, please state indication:			
	Was vaginal prostaglandin used?	turne of proof	alandin <i>(in table )</i>	
	If Yes, please specify dose schedule and Agent Dose	type of prosta	agiandin ( <i>in table i</i> Date	Time
				hhi mm 24hr
				hh:mm 24hr
		D	<b>/</b> M M <b>/</b> Y Y	h h m m
5a.4	Did the woman labour?			Yes No
	If Yes, please state date and time of diagnos	sis of labour?		
5a.5			k all that apply)	24hr
		Tick if Yes	Date and t	ime of admission
	Home			N/A
	Freestanding midwifery unit		DD/MM/	Y Y hh:mm 24hr
	Alongside midwifery unit		DD/MM/	YY hh h 24hr
	Secondary care obstetric unit		DD/MM/	YYhhh:mm 24hr
	Tertiary care obstetric unit			YY hh: mm 24hr
	Other (please specify)	-	DD/MM/	YYhhh:mm 24hr
5a.6	Was the birthing pool used in labour?			Yes No
	If Yes, how long was the woman in the pool	in total? <i>(plea</i>	se tick one)	
		<1hr	1-2hrs	2-4hrs >4hrs
	Did the birth occur in water?			Yes No
5a.7	Was delivery by caesarean section?			Yes No
	If Yes, please state:			
	Grade of urgency:5*			
	Indication for caesarean section:			
	Method of anaesthesia:		Regional	General anaesthetic

	If Yes,	the vaginal delive please state meth ethod of analgesia	od used		ıral 📃 Spin	Forc	Yes ceps V al anaesthe	No ////////////////////////////////////
<b>5</b> a.8	-	<b>gs used for 3rd s</b> please specify	stage?				Yes	No 🗌
		Drug			Route		Time fi	rst given
							h h	mm
							h h	ten m
							hh	thr
5a.9	Did the w	oman receive an eliverv?	y oxytocin	infusions	either before	9	Yes	Νο
		ase specify volum	nes below					
		Concentration/ dilution	Max ml/hr infusion rate		art date nd time	Stop and		Dilution fluid used
	Up to							
	delivery			h	24hr	<u>n</u> <u>n</u> 24	hr	
	After delivery							
5a.10		the woman's es	timated tota		24hr	24	hr	ml
Sec	tion 5b:	Fluids receiv	ved durin	a labou	r and deliv	/erv		
5b.1	Did this w	voman receive of infusion) during	ther intrave	nous fluid	ls (not includ	ling	Yes	No 🗌
	If Yes, ple	ase state type an	d volume ad	ministered	l before hypor	natraemia wa	as diagnose	ed
		Type of intrave	nous fluid		,	Volume rec	eived (ml)	
	Was a det	ailed input/output	fluid balance	e chart ke	ot?		Yes	No 🗌
5b.2		voman have doc ase specify volum				our and deliv	Yes very (mls)	No 🗌
	Type of o				nted prospec		• • • •	spectively
	Water							
	Isotonic o	drinks – specify ty	ре					
	Other – s	pecify type						

Sec	tion 5c: Hyponatraemia					
5c.1	What was the time and date v	vhen the hypona	traemia was di	agnosed	?	
				D D M	M / Y Y h h : m m 24hr	
5c.2	What clinical features of hype (please tick all that apply and g			e?		
	Type of oral fluid	Tick if Yes	Date		Time	
	Headache		DD/MM		h h i m m 24hr	
	Confusion/agitation		DD/MM		hh:mm 24hr	
	Fitting		DD/MM	ΙΥΥ	h h : m m 24hr	
	Decreased conscious level		DD/MM		hh:mm 24hr	
	Coma		DD/MM	<b>/</b> Y Y	h h : m m 24hr	
	Other <i>(please specify)</i>			ΙΥΥ	hh:mm 24hr	
5c.3	What was the lowest serum s	odium value rec	orded with dat	e and tim	le?	
0010			mmol/l		M/YY hh:mm	
5c.4	Did this woman have features	of sepsis immed	liately prior to o	diagnosis	(please tick all that apply)	
		-		-	e prophylactic doses)	
	Pyrexia Positive cultures Other None					
Sec	tion 5d: Hyponatraemia					
5d.1	Please indicate which of the f		ements were u	sed: (plea	ase tick all that apply)	
		,				
	No treatment					
	Fluid Restriction					
	Diuretics – please specify nam					
	Hypertonic saline – please spe					
	Other – please specify					
5d.2	Please indicate the speed of o serum sodium results until N (either from laboratory sample	a ≥130 mmol/l or				
	Date	Ti	me	Ser	um sodium (mmol/l)	
		hh	tim m			
	D D / M M / Y Y	h h				

h h m

Please continue in Section 7 if necessary

Section 6:	Outcomes	
Section 6a	: Woman	
6a.1 Was the	woman admitted to level 2 critical care (HTU)?	Yes No
6a.2 Was the	woman admitted to level 3 critical care (ITU)?	Yes No
lf Yes, d	uration of stay:	days
<b>OR</b> Tick	if woman is still in HTU/ITU:	
<b>OR</b> Tick	if woman was transferred to another hospital:	
6a.3 Did the	woman require ventilatory support?	Yes No
lf Yes, he	ow long for?	days hours
	re any evidence of neurological sequelae (e.g. pontine nosis, persistent vegetative state) from rapid correction o	of sodium? Yes 🗌 No 🗌
<b>lf Yes</b> , pl	lease specify:	
	lease specify:	Yes No
6a.5 Did any		Yes No
6a.5 Did any If Yes, pl	other major maternal morbidity occur?6*	Yes No
6a.5 Did any If Yes, pl 6a.6 What wa	other major maternal morbidity occur? <sup>6*</sup>	Yes No
<ul><li>6a.5 Did any</li><li>If Yes, pl</li><li>6a.6 What wa</li><li>OR Tick</li></ul>	other major maternal morbidity occur? <sup>6*</sup> lease specify: as the woman's date of discharge?	Yes No Yes No Yes No
<ul> <li>6a.5 Did any</li> <li>If Yes, pl</li> <li>6a.6 What wa</li> <li>OR Tick</li> <li>6a.7 Did the v</li> </ul>	other major maternal morbidity occur? <sup>6*</sup> lease specify: as the woman's date of discharge? if woman still in hospital	Yes No
<ul> <li>6a.5 Did any</li> <li>If Yes, pl</li> <li>6a.6 What wa</li> <li>OR Tick</li> <li>6a.7 Did the v</li> <li>If Yes, pl</li> </ul>	other major maternal morbidity occur? <sup>6*</sup> lease specify: as the woman's date of discharge? if woman still in hospital woman die?	Yes No

## Section 6b: Infant 1

NB:	If more than one infant,	for each a	additional i	nfant, plea	se photocopy	the infant s	section of the f	form
	(before filling it in) and	attach extr	ra sheet(s)	or downlo	ad additional	forms from	the website: v	vww.
	npeu.ox.ac.uk/ukoss							

6b.1	Date and time of o	delivery:		DD	/ M M / Y Y	( h h m m	
6b.2	Mode of delivery:	Spontaneous vagir	nal 🗌 Vento	ouse 🗌 Ford	ceps 🗌 Vag	ginal Breech	
		Pre-labour caesarear	section	Caesarean se	ction after one	set of labour	]
6b.3	Birthweight:						J
6b.4	Sex of infant:			Male Fe	emale 🗌 In	determinate	
6b.5	Was the infant sti	llborn?			Y	/es 📄 No 🗌	]
	If Yes, please go to	o section 7					
6b.6	5 min Apgar						]
6b.7	Were cord gases	taken at delivery?			Y	/es 📄 No 🗌	]
	If Yes, please state	e the following cord ga	s results:				
	Venous	pH 📃		ве	N	a 📃	
	Arterial	pH 🔄		BE	Ν	a	

6b.8 Was the infant admitted to the neonatal unit?	Yes No
6b.9 Did any major infant complications occur? <sup>7*</sup>	Yes No
If Yes, please specify	
6b.10 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 7: Further information

Please use this space to enter any other information you feel may be important.

Section 8: Your details		
8.1	Name of UKOSS representative completing the form:	
8.2	Designation:	
8.3	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 medical complications, including:

Persistent vegetative state Pontine demyelinosis Cardiac arrest Cerebrovascular accident Adult respiratory distress syndrome Disseminated intravascular coagulopathy HELLP Pulmonary oedema Mendleson's syndrome Renal failure Thrombotic event Septicaemia

### 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