

**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/l) 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

- 1. Please do not enter any personally identifiable information (e.g. name, address or hospital number) on this form.
- 2. Fill in the form using the information available in the woman's case notes.
- 3. If the woman has received secondary mental health care (prior to or during her current pregnancy) please consult 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.
- 4. Tick the boxes as appropriate. If you require any additional space to answer a question please use the space 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.
- 7. If you do not know the answers to some questions, please indicate this in section 7
- 8. 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.
- 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.



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: \_\_



Section 1: Wom	nan's details	
1.1 Year of birth:		VVVV
	1* (enter code, please see back cover for guidance)	
1.3 Marital status		Married Cohabiting
	an in paid employment at booking?	Yes No
	her occupation:	103 100
	ner partner's (if any) occupation:	
1.5 Height at book		ст
1.6 Weight at boo		kg kg
	oman's smoking status?	
Never	Current Gave up prior to pregnancy Ga	ve up during pregnancy
Section 2: Prov	rious Obstetric History	
	iodo obstatio ilistory	
,	anlated are granting beyond 24 weeks.	
	ripleted pregnancies beyond 24 weeks:	
	gnancies less than 24 weeks:	
<u>-</u>	pregnancies, please go to section 3	
	n have any other previous pregnancy problems?2*	Yes No
<b>If Yes</b> , please s	specify:	
Section 3: Prev	ious Medical History	
3.1 Did the woman	n have any previous or pre-existing medical problem	s?³* Yes No
<b>If Yes</b> , please g	give details:	
3.2 Did the woman	n receive any medication in the 7 days preceding del	ivery? Yes No
<b>If Yes</b> , please li	ist any medications received:	
3.3 Did this woma	an have diabetes prior to pregnancy?  Type	1 Type 2 No
Section 4: This	Pregnancy	
4.1 Final Estimate	ed Date of Delivery (EDD):4*	DD/MM/YY
4.2 Was this a mu	Iltiple pregnancy?	Yes No
	specify number of fetuses:	
	an have pre-eclampsia?	Yes No
	y other problems in this pregnancy?2*	Yes No
		103   110
it <b>res</b> , piease s	specify:	

	tion 5:						
Sec	tion 5a: Woman						
<b>5</b> a.1	Did this woman have a mis	carriage?				Yes	No
	If Yes, please specify date		_			DD/MM	/ Y Y
5a.2	Did this woman have a term	nination of preg	nancy?	•		Yes	No
	If Yes, please specify date					DD/MM	/ Y Y
	If Yes to 5a.1 or 5a.2, please	e now complete	section	ns <b>5</b> b,	6a, 7 and 8		
5a.3	Was delivery induced?					Yes	No 🗌
	If Yes, please state indication	n:		•			
	Was vaginal prostaglandir					Yes	No 🗌
	If Yes, please specify dos	i .	ype of p	rostag		•	
	Agent	Dose			Date	Time	
				D D	IMMIYY	h h m	m
				D D	/MM/YY	h h m	m
				D D	/MM/YY	h h m	m
5a.4	Did the woman labour?					Yes	No 🗌
	If Yes, please state date and	time of diagnosis	s of labo	our?	DD/MM	Y   Y   h   h	: m m
5a.5	Where was the woman mar	naged in labour	? (pleas	e tick a	all that apply)		24hr
			Tick if	Yes	Date and ti	me of admissi	on
	Home					N/A	
	Freestanding midwifery unit				DD/MM/YY hh:mm		
	Alongside midwifery unit				DD/MM/	Y Y h h 24hr	m m
	Secondary care obstetric ur	nit			D D / M M /	Y Y h h 24hr	m m
	Tertiary care obstetric unit				DD/MM/	Y Y h h : 24hr	m m
	Other (please specify)				D D / M M /	Y Y h h : 24hr	m m
5a.6	Was the birthing pool used	in labour?				Yes	No 🗌
If Yes, how long was the woman in the pool in total? (please tick one)							
		·		 <1hr [	1-2hrs	2-4hrs >	4hrs
	Did the birth occur in wate	r?				Yes	No 🗌
<b>5a.7</b>	Was delivery by caesarean	section?				Yes	No 🗌
	If Yes, please state:						
	Grade of urgency:5*						
	Indication for caesarean s	ection:			<b>D</b>		$\Box$
	Method of anaesthesia:				Regional G	Seneral anaesth	netic

If No, was the vaginal delivery assisted' If Yes, please state method used And method of analgesia / anaesthes 5a.8 Were drugs used for 3rd stage?	Forceps Ventouse
<b>If Yes</b> , please specify	
Drug	Route Time first given
	h h m m
5a.9 Did the woman receive any oxytocin or after delivery?	infusions either before  Yes No
If Yes, please specify volumes below	
Concentration/ Max ml/hr dilution infusion rate	Start date and time Stop date Dilution fluid used
Up to delivery	DD/MM/YY DD/MM/YY hh:mm 24hr
After delivery	DD/MM/YY hh:mm hh:mm 24hr
5a.10 What was the woman's estimated total	al blood loss?
Section 5b: Fluids received during	g labour and delivery
5b.1 Did this woman receive other intrave oxytocin infusion) during labour and hyponatraemia?	· · · · · · · · · · · · · · · · · · ·
If Yes please state type and volume ad	ministered before hyponatraemia was diagnosed
Type of intravenous fluid	Volume received (ml)
Was a detailed input/output fluid balance	e chart kept?
5b.2 Did this woman have documented or	
	d consumed during labour and delivery (mls)
Type of oral fluid	Documented prospectively Estimated retrospectively
Water	
Isotonic drinks – specify type	

	Section 5c: Hyponatraemia  5c.1 What was the time and date when the hyponatraemia was diagnosed?					
00.1	What was the time and date v				M / Y Y h h : m m	
5c.2	5c.2 What clinical features of hyponatraemia did the woman have?  (please tick all that apply and give date and time first noted)					
	Type of oral fluid	Tick if Yes	Date		Time	
	Headache		DD/MM	/ Y Y	h h m m	
	Confusion/agitation		DD/MM	/ Y Y	h h m m	
	Fitting		DD/MM	/ Y Y	h h : m m	
	Decreased conscious level		DD/MM	/ Y Y	h h : m m	
	Coma		DD/MM	/ Y Y	h h m m	
	Other (please specify)		DD/MM	/ Y Y	h h i m m	
5c.3	What was the lowest serum s	odium value rec	orded with date	e and time	e?	
			mmol/l	DD/M	M / Y Y h h : m m	
5c.4	Did this woman have features	of sepsis immed	liately prior to d	diagnosis	? (please tick all that apply)	
	Initiation o	·			e prophylactic doses)	
		Pyrexia	Positive c	ultures _	Other None	
Soc	tion Ed: Hyponatraomia					
5d.1	tion 5d: Hyponatraemia Please indicate which of the f		ements were us	sed: (plea	se tick all that apply)	
	5d.1 Please indicate which of the following managements were used: (please tick all that apply)  No treatment					
	Fluid Restriction					
	Diuretics – please specify name dose					
	Hypertonic saline – please specify percentage volume					
Other – please specify						
5d.2 Please indicate the speed of correction of hyponatraemia by entering date and time of serum sodium results until Na ≥130 mmol/l or 48h after diagnosis whichever comes first (either from laboratory sample or blood gas).						
	Date	Ti	me	Seru	ım sodium (mmol/l)	
	DD/MM/YY	hh	im m			
	DD/MM/YY	hh	im m			
	DD/MM/YY	hh	i m m			
Please continue in Section 7 if necessary						

Sec	tion 6: Outcomes			
	tion 6a: Woman			
	Was the woman admitted t	o level 2 critical care (F	4TU)?	Yes No
	Was the woman admitted t	•	•	Yes No
<b>0</b> 4.2	If Yes, duration of stay:	o level o citical care (i	10):	days
	OR Tick if woman is still in H	TU/ITU·		
	OR Tick if woman was transf		l:	
6a.3	Did the woman require ver	•		Yes No
	If Yes, how long for?			days hours
6a.4	Was there any evidence of demyelinosis, persistent v	•	, , ,	
	If Yes, please specify:			
6a.5	Did any other major mater			Yes No
	If Yes, please specify:			
6a.6	What was the woman's date	te of discharge?		DD/MM/YY
	<b>OR</b> Tick if woman still in hos	pital		
6a.7	Did the woman die?			Yes No
	If Yes, please specify date a	nd time of death	DD/MM	/ Y Y h h : m m
	What was the primary cause	of death as stated on th	e death certificate?	24nr
	(Please state if not known)			
Sec	tion 6b: Infant 1			
NB:	If more than one infant, for (before filling it in) and atta npeu.ox.ac.uk/ukoss			
6b.1	Date and time of delivery:		D D / M M	/ Y Y h h : m m
6b.2	Mode of delivery: Spont	aneous vaginal Ver	ntouse Forceps	Vaginal Breech
	Pre-labo	ur caesarean section	Caesarean section af	ter onset of labour
6b.3	Birthweight:			g
6b.4	Sex of infant:		Male Female	Indeterminate
	Was the infant stillborn?		Wale Terriale [	Yes No
00.0	If Yes, please go to section	7		103 140
6b.6	5 min Apgar			
6b.7	Were cord gases taken at o	delivery?		Yes No
ODIT	If Yes, please state the follow	-		100 110
	Venous	pH	ВЕ	Na
	Arterial	pH .	ве 🔲	Na 🗍

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	ies
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

## 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

## 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