

UK Obstetric Surveillance System

Severe Maternal Sepsis Study 03/11

Data Collection Form - CASE

Please report any woman delivering on or after 1st June 2011 and before 1st June 2013.

Case Definition:

Any pregnant or recently pregnant woman (up to 6 weeks postpartum) diagnosed with severe sepsis (irrespective of the source of infection). Report only cases diagnosed as having severe sepsis by a senior clinician.

A severe sepsis case would be expected to include women in one of the following groups:

- 1. Death related to infection or suspected infection
- 2. Any women requiring level 2 or level 3 critical care (or obstetric HDU type care) due to severe sepsis or suspected severe sepsis
- 3. A clinical diagnosis of severe sepsis

As a guide, clinical diagnosis of severe sepsis would usually be associated with 2 or more of the following:

- a. Temperature >38°C or <36°C measured on 2 occasions at least 4 hours apart
- b. Heart rate >100 beats/ minute measured on 2 occasions at least 4 hours apart
- c. Respiratory rate >20/ minute measured on 2 occasions at least 4 hours apart
- d. White cell count >17x10⁹/L or <4x10⁹/L or with >10% immature band forms, measured on 2 occasions



Royal College of Obstetricians and Gynaecologists 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 on the Clinician's Section of the blue card 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 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 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 7.
- 9. If you encounter any problems with completing the form please contact the UKOSS Administrator or use the space in section 7 to describe the problem.

Sec	ction 1: Woman's details
1.1	Year of birth:
1.2	Ethnic group: ^{1*} (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? Yes No
	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	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 No
	If Yes, please specify:
2.3	Did the woman have any previous Caesarean sections? Yes No
	If Yes, how many?

Sec	ction 3: Previous Medic	al History		
3.1	Does the woman have a his	tory of recurrent infections?		Yes No
	If Yes, please specify:			
3.2	Was the woman immuno-co suppressants)?	mpromised (including taking	j immuno-	Yes 🗌 No 🗌
	If Yes, please specify cause:			
3.3	Does the woman have (or ha	ave a history of) diabetes?		Yes No
3.4	Does the woman have a hist	tory of a sexually transmitted	d infection?	^{3*} Yes No
	If Yes, please give details:			
3.5		ther previous or pre-existing r	-	blems? ⁴ * Yes No
3.6	Does the woman or any hou weeks prior to presentation	sehold member have a recent of any of the following?	nt history (t	wo
			Woman	Household member
			Yes No	Yes No Not Known
		Sore throat		
		Respiratory infection		
		Diarrhoea		
		Vomiting		
		Flu-like illness		
		Sustained abdominal pain		
		Mastitis (>48 hrs duration)		
		Mastilis (~40 fils duration)		
Sec	ction 4: This Pregnancy	- Antenatal Informatio	n	
4.1	Final Estimated Date of Deli	very (EDD)⁵*		
4.2	Was this a multiple pregnan			Yes No
	If Yes, please specify number	of fetuses:		
4.3	Date of booking:			DD/MM/YY
4.4	amniocentesis?	vasive antenatal procedures,	•	Yes 📃 No 📃
4.5		tibiotics in the two weeks prior		
		aken?		
A G	What was the indication?			
4.6	Were there any other proble			Yes No
	ir res, please specify:			

Postion 5. Dolivery and Diamonia of Consis			
Section 5: Delivery and Diagnosis of Sepsis			
Section 5a: Delivery			
bia.1 Did the woman have a miscarriage? Yes	No		
If Yes, please specify date:	YY		
5a.2 Did the woman have a termination of pregnancy? Yes	No		
If Yes, please specify date:	YY		
If Yes to 5a.1 or 5a.2, please now complete sections 5b, 6a, 7 and 8			
5a.3 Is the woman still undelivered? Yes	No		
If Yes, will she be receiving the rest of her antenatal care from your hospital? Yes	No		
If No, please indicate name of hospital providing future care:			
	.		
	No		
If No, please indicate name of delivery hospital, then go to Section 7			
5a.4 Was delivery induced? Yes	No 🗌		
If Yes, please state indication:			
Was vaginal prostaglandin used? Yes	No 🗌		
5a.5 What was the date and time of membrane rupture?	mm		
5a.6 Did the woman labour? Yes	No		
If Yes, what was the date and time labour was diagnosed?	mm		
How many vaginal examinations were documented?	4hr		
Was fetal blood sampling performed? Yes	No		
Was a fetal scalp electrode used? Yes	No		
Were there any complications of vaginal delivery			
(e.g. episiotomy, 2nd, 3rd or 4th degree tear)? Yes No Not applica			
Did the woman undergo a manual removal of placenta? Yes No Not applica			
If Yes, please state:			
Grade of urgency: ^{6*}			
Indication for caesarean section:			
Method of anaesthesia: Regional General anaesthe	etic 🗌		
	No 🗌		
If Yes, please give names of antibiotics given:			
Were there any complications during the surgery? Yes	No		
If Yes, please specify:			

5a.9	Did the woman have any of the following prior to diago(please tick all that apply)Intravenous lines (
	Intra-arterial lines In-out urinary cathe	eter In-dwelling urinary catheter
5a.10	Did the woman have an epidural or a spinal for anaest	hesia/analgesia? Yes 🗌 No 🗌
5a.11	Was the woman admitted/re-admitted after delivery?	Yes 🗌 No 🗌
	If Yes, what was date of admission/re-admission?	DD/MM/YY
	Please state the reason for admission/re-admission:	
Sec	tion 5b: Diagnosis and Management of Sep	sis
	What was the date and time of severe sepsis diagnosis	
5b.2	Where was the woman when sepsis was first suspected	ed? Hospital Home
5b.3	Did the woman have any of the following:	
	A temperature >38°C measured on 2 occasions at least 4	hours apart? Yes No
	If Yes: Date and time first recorded:	
	Date and time last recorded:	DD/MM/YY hh: mm 24hr
	A temperature <36°C measured on 2 occasions at least 4	
	If Yes: Date and time first recorded:	DD/MM/YY hh:mm
	Date and time last recorded:	
	Heart rate >100 beats/ minute measured on 2 occasions a	t least 4 hours apart? Yes No
	If Yes: Date and time first recorded:	DD/MM/YY hh:mm
	Date and time last recorded:	
	Respiratory rate >20/minute measured on 2 occasions at I	east 4 hours apart? Yes 🗌 No 🗌
	If Yes: Date and time first recorded:	
	Date and time 2nd recorded:	DD/MM/YY hh:mm 24hr
	White cell count >17 x10 ⁹ /L, on two occasions?	Yes No
	If Yes: Date and time first recorded:	
	Date and time 2nd recorded:	DD/MM/YY hh:mm 24hr
	White cell count <4 x10 ⁹ /L, on two occasions?	Yes No
	If Yes: Date and time first recorded:	DD/MM/YY hh: mm
	Date and time 2nd recorded:	
	White cell immature band forms > 10%, on two occasions	? Yes No Not done
	If Yes: Date and time first recorded:	DD/MM/YY hh:mm 24hr
	Date and time 2nd recorded:	DD/MM/YY hh:mm 24hr

50.4	Was there laboratory confirmed i	infection?	Yes No
	If Yes: What was the source of the	sample (e.g. blood, urine, etc.)?	
	Date of first positive sample:		D D / M M / Y Y
	Organism identified:		
5b.5	What was the primary source of	the infection which caused the sepsis?	
5b.6	Was septic shock diagnosed?		Yes No
	If Yes, what was the date of diagno	osis?	
5b.7	Please record the following or tic	ck if not measured	
		Lowest systolic BP mmHg OI	R Not measured
		Highest lactate mmol/L OI	R Not measured
		Greatest base deficit - OI	R Not measured
		Lowest pH	R Not measured
5b.8	Were antibiotics administered fo	-	Yes 📃 No 🗌
	If Yes, please list in table below (Co	ontinue in section 7 if necessary).	
	Antibiotic	Route Date started	Date stopped
			DD/MM/YY
Sec	tion 6: Outcomes		
	tion 6: Outcomes tion 6a: Woman		
	tion 6a: Woman	l (including obstetric HDU) or level 2 car	re? Yes No
Sec	tion 6a: Woman Was the woman admitted to HDU	l (including obstetric HDU) or level 2 car	
Sec	tion 6a: Woman		re? Yes No
Sec	tion 6a: Woman Was the woman admitted to HDU If Yes, duration of stay:	level 2 care:	
Sec	tion 6a: Woman Was the woman admitted to HDU If Yes, duration of stay: OR Tick if woman is still in HDU or OR Tick if woman was transferred t	level 2 care: to another hospital:	
Sec 6a.1	tion 6a: Woman Was the woman admitted to HDU If Yes, duration of stay: OR Tick if woman is still in HDU or OR Tick if woman was transferred to Was the woman admitted to ITU of	level 2 care: to another hospital:	days
Sec 6a.1	tion 6a: Woman Was the woman admitted to HDU If Yes, duration of stay: OR Tick if woman is still in HDU or OR Tick if woman was transferred t	level 2 care: to another hospital: or level 3 care?	days
Sec 6a.1	tion 6a: Woman Was the woman admitted to HDU If Yes, duration of stay: OR Tick if woman is still in HDU or OR Tick if woman was transferred to Was the woman admitted to ITU If Yes, duration of stay:	level 2 care: to another hospital: or level 3 care? evel 3 care:	days
Sec 6a.1	tion 6a: Woman Was the woman admitted to HDU If Yes, duration of stay: OR Tick if woman is still in HDU or OR Tick if woman was transferred to Was the woman admitted to ITU of If Yes, duration of stay: OR Tick if woman is still in ITU or le OR Tick if woman was transferred to	level 2 care: to another hospital: or level 3 care? evel 3 care: to another hospital:	days
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Sec 6a.1 6a.2	tion 6a: Woman Was the woman admitted to HDU If Yes, duration of stay: OR Tick if woman is still in HDU or OR Tick if woman was transferred to Was the woman admitted to ITU of If Yes, duration of stay: OR Tick if woman is still in ITU or le OR Tick if woman was transferred to Did any other major maternal mod If Yes, please specify:	level 2 care: to another hospital: or level 3 care? evel 3 care: to another hospital: orbidity occur? ⁷ *	days Yes No days days Yes No Yes No
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Sec 6a.1 6a.2 6a.3 6a.4	tion 6a: Woman Was the woman admitted to HDU If Yes, duration of stay: OR Tick if woman is still in HDU or OR Tick if woman was transferred to Was the woman admitted to ITU of Was the woman of stay: OR Tick if woman is still in ITU or le OR Tick if woman was transferred to Did any other major maternal mod If Yes, please specify:	level 2 care: to another hospital: or level 3 care? evel 3 care: to another hospital: orbidity occur? ^{7*}	Image: Constraint of the second state Yes No Image: Constraint of the second state Yes No Sis? Yes No Image: Constraint of the second state Sis? Yes No Image: Constraint of the second state Yes No Sis? Yes No Image: Constraint of the second state
Sec 6a.1 6a.2 6a.3 6a.4	tion 6a: Woman Was the woman admitted to HDU If Yes, duration of stay: OR Tick if woman is still in HDU or OR Tick if woman was transferred to Was the woman admitted to ITU If Yes, duration of stay: OR Tick if woman is still in ITU or le OR Tick if woman was transferred to Did any other major maternal mod If Yes, please specify:	level 2 care: to another hospital: or level 3 care? evel 3 care: to another hospital: orbidity occur? ^{7*} I from hospital after her episode of seps oman's final discharge from hospital? e of death	Image: Constraint of the second state Yes No Image: Constraint of the second state Yes No Sis? Yes No Image: Constraint of the second state Sis? Yes No Image: Constraint of the second state Yes No Sis? Yes No Image: Constraint of the second state

Sec	tion 6b: Infant 1
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
6b.1	Date and time of delivery:
6b.2	Mode of delivery:
	Spontaneous vaginal Ventouse Lift-out forceps Rotational forceps
	Breech Pre-labour caesarean section Caesarean section after onset of labour
6b.3	Birthweight:
6b.4	Sex of infant: Male Female Indeterminate
6b.5	Was the infant stillborn? Yes No
	If Yes, please go to section 7.
6b.6	5 min Apgar:
6b.7	Was the infant admitted to the neonatal unit? Yes No
6b.8	Was the infant septic? Yes No
6b.9	Did any other major infant complications occur?** Yes No
	If Yes, please specify:
6b.10	Did this infant die? Yes No
	If Yes, please specify date and time of death
	What was the primary cause of death as stated on the death certificate? (Please state if not known)

Section 7:

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

Section 8:

- 8.1 Name of person completing the form:
- 8.2 Designation:
- 8.3 Today's date:

You may find it useful in the case of queries to keep a copy of this form.

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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 Rh(D) alloimmunisation

3. Previous history of sexually transmitted infection, including:

HIV Syphilis Gonorrhoea

Chlamydia Genital herpes Hepatitis C

4. Previous or pre-existing maternal medical problems, including:

Diabetes

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, anaemia

Inflammatory disorders e.g. inflammatory bowel disease

Autoimmune diseases

Cancer Depression

- 5. Estimated date of delivery (EDD): Use the best estimate (ultrasound scan or date of last menstrual period) based on a 40 week gestation
- 6. 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
- 7. Major maternal medical complications, 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 Required ventilation

8. 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