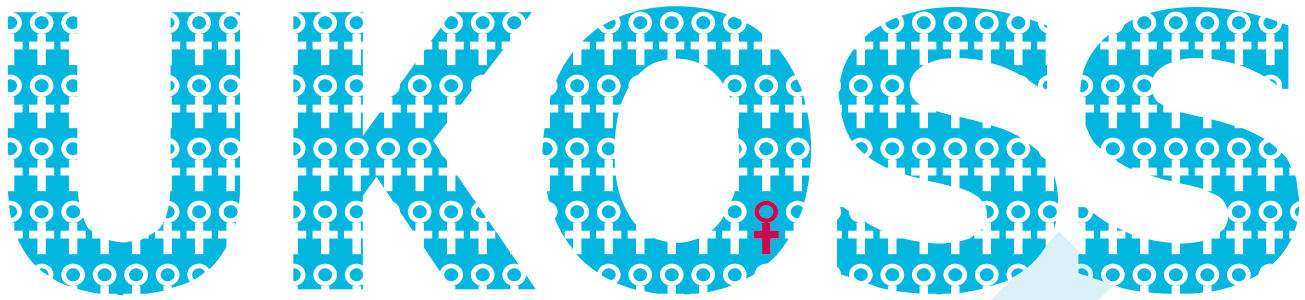


ID Number:



UK Obstetric Surveillance System

Low maternal plasma fibrinogen Study 03/17

Data Collection Form - CASE

**Please report any woman delivering on or after the 1st November 2017 and
before 31st October 2018**

Case Definition:

All women identified as having a laboratory Clauss or derived plasma fibrinogen of $<2\text{g/L}$ and/or a Fitem (A5 or A10 or MCF) $<10\text{mm}$ and/or TEG function at fibrinogen $<200\text{ mg/dl}$ at any point in pregnancy or immediately postpartum (up to first hospital discharge after the end of pregnancy).

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 table provided 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.



Royal College of
Obstetricians
and Gynaecologists

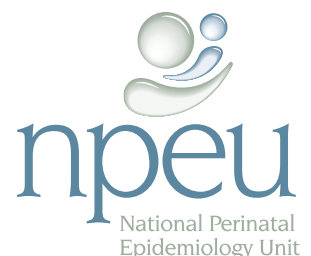
Bringing to life the best
in women's health care

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: 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

 cm

1.6 Weight at booking

 . kg

1.7 Smoking status

never gave up prior to pregnancy
current gave up during pregnancy

Section 2: Previous Obstetric History

2.1 Gravidity

Number of previous completed pregnancies beyond 24 weeks

Number of previous pregnancies less than 24 weeks

If no previous pregnancies, please go to section 3

2.2 Has the woman had any previous caesarean sections?

Yes No

If Yes, please specify number in total

2.3 Has the woman had a previous post partum haemorrhage?

Yes No

If Yes, please specify details

Date of post partum haemorrhage

Tick if transfused

 / / / /

2.4 Did the woman have any other previous pregnancy problems?^{2*}

Yes No

If Yes, please specify _____

Section 3: Previous Medical History

3.1 Does the woman have a history of acquired or inherited bleeding disorders? Yes No

If Yes, please specify _____

3.2 Does the woman have a history of thrombocytopenia (platelet count <100)? Yes No

If Yes, please specify diagnosis _____

3.3 Does the woman have any other pre-existing medical problems?^{3*} Yes No

If Yes, please give details _____

Section 4:

Section 4a: This Pregnancy

4a.1 Final Estimated Date of Delivery (EDD)^{4*}

/ /

4a.2 Was this pregnancy a multiple pregnancy?

Yes No

If Yes, specify number of fetuses

4a.3 Was this woman receiving any of the following antenatally?

Aspirin Low molecular weight heparin Other anticoagulant

4a.4 Were there any other problems in this pregnancy?^{2*}

Yes No

If Yes, please specify _____

Section 4b: Causes, diagnosis and management of low fibrinogen

4b.1 What was the date and time fibrinogen was first recorded to be low (as per the case definition on the front of the data collection form)?

/ / :
24hr

4b.2 Which of the following factors were considered causes of the low fibrinogen? Please tick all that apply

- Placenta praevia Placenta accreta Placenta abruption
Uterine rupture Uterine atony
Trauma / uterine extensions at caesarean section Amniotic fluid embolism
Vaginal/cervical tear/laceration Manual Removal of Placenta Uterine inversion
Pre-eclampsia HELLP Eclampsia
Infection or sepsis requiring antibiotics around delivery
Inherited dysfibrinogenaemia or hypofibrinogenaemia Liver failure Other

If Other, please specify _____

Which was considered the primary cause of the low fibrinogen?

What date and time was this first suspected?

/ / :
24hr

4b.3 What was the date and time blood loss was first suspected note that this may be before delivery)?

/ / :
24hr

4b.4 What was the woman's estimated blood loss

BEFORE fibrinogen first recorded to be low

ml

AFTER fibrinogen first recorded to be low

ml

4b.5 Did this woman refuse blood products?

Yes No

4b.6 Please indicate which of the following obstetric managements were used and the order in which they were used both before and after fibrinogen was recorded to be low (indicate all used by recording 1,2,3 etc according to order used):

	BEFORE fibrinogen first recorded to be low	AFTER fibrinogen first recorded to be low
Syntocinon infusion	<input type="checkbox"/>	<input type="checkbox"/>
Ergometrine	<input type="checkbox"/>	<input type="checkbox"/>
Misoprostol	<input type="checkbox"/>	<input type="checkbox"/>
Carboprost (hemabate)	<input type="checkbox"/>	<input type="checkbox"/>
Local haemostatic agents (e.g. Floseal)	<input type="checkbox"/>	<input type="checkbox"/>
Uterine tamponade	<input type="checkbox"/>	<input type="checkbox"/>
Laparotomy and primary repair	<input type="checkbox"/>	<input type="checkbox"/>
Uterine artery embolisation	<input type="checkbox"/>	<input type="checkbox"/>
Uterine artery ligation	<input type="checkbox"/>	<input type="checkbox"/>
Internal iliac artery ligation	<input type="checkbox"/>	<input type="checkbox"/>
B-Lynch or other brace suture	<input type="checkbox"/>	<input type="checkbox"/>
Intra-abdominal packing	<input type="checkbox"/>	<input type="checkbox"/>
Intrauterine balloons	<input type="checkbox"/>	<input type="checkbox"/>
Radiological Intervention	<input type="checkbox"/>	<input type="checkbox"/>
Hysterectomy	<input type="checkbox"/>	<input type="checkbox"/>

If a hysterectomy was carried out, what date and time was it performed?

/ / : 24hr

4b.7 Please record the amounts of blood components and fluid received in total by this woman both before and after fibrinogen was recorded to be low.

	Amount BEFORE fibrinogen first recorded to be low	Amount AFTER fibrinogen first recorded to be low
Packed red cells	<input type="text"/> <input type="text"/> units	<input type="text"/> <input type="text"/> units
Fresh Frozen Plasma	<input type="text"/> <input type="text"/> units	<input type="text"/> <input type="text"/> units
Platelets	<input type="text"/> <input type="text"/> units	<input type="text"/> <input type="text"/> units
Crystalloids: 0.9% Saline	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ml	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ml
Crystalloids: other	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ml	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ml
Colloids	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ml	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ml
Blood by cell salvage	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ml	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> ml

4b.8 Was the haemoglobin concentration measured before fibrinogen was recorded as low?

Yes No

If Yes, please give Hb Level (g/L) _____

Date and time of most recent measurement before delivery / / : 24hr

4b.9 Please specify the values of the following haematological parameters at diagnosis of low fibrinogen and the worst values recorded (indicate NR if not recorded)

	Value at diagnosis	Worst value
Hb g/dL		
Platelet count (x10 ⁹ /L)		
Prothrombin time (PT)		
INR		
Activated prothrombin time (APTT)		
Fibrinogen measured in laboratory (g/L)		
D-dimer		
TEG Functional fibrinogen		
TEG rapid TEG r time		
Rotem Extem CT		
Rotem Fibtem A5, A10 or MCF*		

*If Rotem Fibtem used please give A5 or A10 or MCF and indicate which parameter e.g. A10 6mm

4b.10 How many units of RBC were given before first FFP transfusion? (if none, please record 0)

4b.11 How many units of RBC were given before first cryoprecipitate or fibrinogen concentrate transfusion? (if none, please record 0)

4b.12 Did the woman receive any of the following to stop bleeding during the obstetric haemorrhage?

	Tick if yes	Total dose given	Date and time first given	Fibrinogen concentration at the time of first dose	Fibrinogen concentration after last dose
Cryoprecipitate	<input type="checkbox"/>		DD / MM / YY hh : mm <small>24hr</small>		
Fibrinogen concentrate	<input type="checkbox"/>		DD / MM / YY hh : mm <small>24hr</small>		
Tranexamic acid	<input type="checkbox"/>		DD / MM / YY hh : mm <small>24hr</small>		
Factor VIIa	<input type="checkbox"/>		DD / MM / YY hh : mm <small>24hr</small>		
Prothrombin complex concentrate	<input type="checkbox"/>		DD / MM / YY hh : mm <small>24hr</small>		

4b.13 Did you use point of care testing to guide blood transfusion management for any of the following?

- Red blood cells Fresh frozen plasma Platelets
 Cryoprecipitate Fibrinogen concentrate

Section 5: Delivery

5.1 Did this woman have a miscarriage?

If Yes, please specify date

Yes No
DD / MM / YY

5.2 Did this woman have a termination of pregnancy?

If Yes, please specify date

Yes No
DD / MM / YY

If Yes to 5.1 or 5.2, please now complete sections 6a, 7 and 8

5.3 Was delivery induced?

If Yes, please state indication _____
Yes No

5.4 Did the woman labour?

If Yes, please state date and time of diagnosis of first stage of labour

DD / MM / YY hh : mm
24hr

5.5 Was delivery by caesarean section?

If Yes, please state:

Grade of urgency^{5*}

Indication for caesarean section _____

Method of anaesthesia:

Regional General anaesthetic

Section 6: Outcomes

Section 6a: Woman

6a.1 Was the woman admitted to level 2 critical care (HDU) either on delivery suite or in a separate HDU?

Yes No

6a.2 Was the woman admitted to level 3 critical care (ITU)?

Yes No

If Yes, please specify

Duration of stay _____ days

Or Tick if woman is still in Level 3 critical care

Or Tick if woman was transferred to another hospital

6a.3 Did the woman have a DVT or pulmonary embolism after management of haemorrhage?

Yes No

6a.4 Did the woman require any organ support?

Yes No

If Yes, please specify (e.g. respiratory, renal) _____

6a.5 Did any other major maternal morbidity occur?^{6*}

Yes No

If Yes, please specify _____

6a.6 Has the woman been discharged?

Yes No

If Yes, please give date of discharge

DD / MM / YY

6a.7 Was this woman readmitted after first discharge?

Yes No

If Yes, please give date of

Readmission DD / MM / YY and date of final discharge DD / MM / YY

6a.8 Did the woman die?

Yes No

If Yes, please specify date and time of death

DD / MM / YY hh : mm
24hr

What was the primary cause of death as stated on the death certificate?

(Please state if not known.) _____

Section 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

/ / : 24hr

6b.2 Mode of delivery

Breech Pre-labour caesarean section Spontaneous vaginal Ventouse Forceps
Caesarean section after onset of labour

6b.3 Birthweight

g

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 Did any other major infant complications occur?^{7*}

Yes No

If Yes, please specify _____

6b.9 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:

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

Section 8:

Name of person completing the form _____

Designation _____

Today's date

/ /

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
Cardiac arrest
Cerebrovascular accident
Adult respiratory distress syndrome
Disseminated intravascular coagulopathy
HELLP
Pulmonary oedema
Secondary infection e.g. pneumonia
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