

UK Obstetric Surveillance System

# HELLP Syndrome Study 02/11

**Data Collection Form - CASE** 

Please report any woman presenting on or after the 1st June 2011 and before 1st June 2012.

### **Case Definition:**

All pregnant women identified as having HELLP syndrome defined as **NEW ONSET** of the following:

- 1. Elevated liver enzymes, defined as:
  - Serum aspartate aminotransferase (AST) ≥70 iu/L

OR Gamma-glutamyltransferase (y-GT) ≥70 iu/L

OR

Alanine aminotransferase (ALT) ≥70 iu/L

AND

- AND
- 2. Low platelets, defined as platelet count < 100 x10<sup>9</sup>/l

#### 3. EITHER

**Haemolysis**, defined by abnormal peripheral blood smear or serum lactate Dehydrogenase (LDH) levels ≥600 iu/L or total bilirubin ≥20.5 µmol/l

#### OR

**Hypertension**, defined as a systolic blood pressure ≥ 140 mmHg or a diastolic blood pressure ≥ 90 mmHg

OR

**Proteinuria**, defined as 1+ (0.3 g/l) or more on dipstick testing, a protein: creatinine ratio of 30 mg/mmol or more on a random sample, or a urine protein excretion of 300 mg or more per 24 hours



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 Eax: 01865 617775

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:	YYYY
1.2	Ethnic group: <sup>1*</sup> (enter code, please see back cover for	or 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 and weight at booking:	cm AND kg
1.6	Smoking status:	never gave up prior to pregnancy
		current gave up during pregnancy
<b>Sec</b> 2.1	ction 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	
2.2	What was the date of delivery/termination/miscarri recent previous pregnancy:	age in the most
2.3	Please indicate if any of the following were presen pregnancies: ( <i>Please tick all that apply</i> )	t in previous
	Pregnancy induced hypertension (F HEI	PIH) Pre-eclampsia Eclampsia LLP syndrome Gestational diabetes
2.4	Did the woman have any other previous pregnancy	y problems? <sup>2*</sup> Yes No
	If Yes, please specify:	

Sec	ction 3: Previous Medical History
3.1	Did the woman have essential hypertension at booking or prior to pregnancy? Yes No
	If Yes, was she receiving anti-hypertensive medication at booking or prior to pregnancy?
3.2	Does the women have pre-existing diabetes mellitus? Type 1 _ Type 2 _ Neither _
3.3	Did the women have any other previous or pre-existing medical problems? <sup>3*</sup> Yes 📃 No 📃
	If Yes, please specify:

Section 4:					
Section 4a: This Pregn	ancy				
4a.1 Final Estimated Date of	Delivery (E	EDD):4*			
4a.2 Was this a multiple preg	jnancy?				Yes 🗌 No 🗌
If Yes, please specify nur	nber of fetu	ses:			
4a.3 Date of booking:					
4a.4 What was the platelet co	ount at boo	king?			x10º/L
4a.5 Was the woman diagnos	sed with an	ny of the follow	wing in this	pregnancy	?
			1	res No	Date of diagnosis
	Pregnancy i	induced hypertens	sion (PIH)		DD/MM/YY
	Pre-eclamp	sia	[		DD/MM/YY
	Eclampsia		[		DD/MM/YY
	Gestational	diabetes	[		DD/MM/YY
4a.6 What were the levels of	the followi	ng in this pre	unancy or t	ick if not red	corded:
	Tick if booking level not recorded	Level at booking	Tick if highest level not recorded	Highest Level	Date of highest level recorded
Systolic BP (mmHg)					DD/MM/YY
Diastolic BP (mmHg)					DD/MM/YY
Proteinuria (please indicate units)					DD/MM/YY
4a.7 Were there any other pr	oblems in t	this pregnanc	y?²*		Yes No
If Yes, please specify:					

Sectio	on 4b: Diagnosis	and mar	nagement o	f HELLP	syndrome	)
4b.1 D	ate and time of diagn	osis of HEL	LP syndrome	:	DD/MM	/ Y Y h h : m m
4b.2 P	lease indicate which o	of the follow	wing signs/syr	nptoms we	ere noted pric	r to or at diagnosis:
	Rig	ght upper ab	dominal quadra	ant or epiga	astric pain	Nausea/vomiting
				Headache	Visual ch	nanges Other
	If Other please specif	ÿ:				
	lease record the bloo ninimum level or tick i		-	at diagnosi	is and at their	
	Marker	Tick if diagnosis level not recorded	Level at diagnosis	Tick if lowest level not recorded	Lowest recorded level	Date lowest level recorded
	Platelet count (x10 <sup>9</sup> /L)					DD/MM/YY
	Glucose (mmol/L)					DD/MM/YY
	Haemoglobin (g/dL)					DD/MM/YY
	Blood gases - pH					DD/MM/YY
	lease record the bloo naximum level or tick i			at diagnosi	is and at their	
	Marker	Tick if diagnosis level not recorded	Level at diagnosis	Tick if highest level not recorded	Highest recorded level	Date highest level recorded
AST (iu/L)	)					DD MM/YY
ALT (iu/L)						DD/MM/YY
γ-GT (iu/L	_)					DD/MM/YY
LDH (iu/L)	)					DD/MM/YY
Total biliru	ubin (µmol/l)					DD/MM/YY
Creatinine	e (µmol/l)					DD/MM/YY
White cell	l count (x10º/L)					DD/MM/YY
PT (sec)						DD/MM/YY
APTT (see	c)					DD/MM/YY
Blood gas	ses – base excess (mEq/L)		-		-	DD/MM/YY
4b.5 W	las a peripheral blood	smear per	formed?			Yes 📃 No 📃
lf		ce of haemo	olysis (fragment	ed or contr	acted red cells	s) Yes No
	res, was there eviden		• • •			
4b.6 W	Vas diagnosis of HELLI		e: a	ntepartum [	intrapartu	m postpartum
		P syndrome	nagement imme	ediately foll	owing diagnos	is:
	las diagnosis of HELLI	P syndrome	nagement imme Imme	ediately foll ediate deliv	owing diagnos ery delive	

it tes, ple	ease specify:		11.16		<b>.</b>
	Agent	Dose	Units	Indication	Date started
pregnanc	cy (antenatally o	ve medication co or postnatally)?	mmenced/cc	ontinued in this	Yes No
it tes, pie	ease specify:	Nome	of dura		Data transmost started
		Name	of drug		Date treatment started
-		ig treatments cor or postnatally)?	mmenced/co	ntinued in this	
				Yes No	Date treatment starte
		Magnesium sulphat	е		
-		Aspirin		this pregnancy	
(antenata	other medications of the second structure of the secon	Aspirin		this pregnancy	Yes No
(antenata If Yes, ple	ally or postnata	Aspirin on commenced/c lly)?			Yes No
(antenata If Yes, ple	ally or postnata	Aspirin on commenced/c lly)?	continued in t		
(antenata If Yes, ple	ally or postnata	Aspirin on commenced/c lly)?	continued in t		
(antenata If Yes, ple Na	ally or postnata ease specify: ame of medication	Aspirin On commenced/c IIy)?	continued in t		Date treatment starte
(antenata If Yes, ple   11 Did the w	ally or postnata ease specify: ame of medication women refuse b	Aspirin on commenced/c lly)?	continued in t		Date treatment starte
(antenata If Yes, ple Na 11 Did the w If No, wer	ally or postnata ease specify: ame of medication or men refuse b re blood product	Aspirin on commenced/c lly)? lood products? s given?	continued in t	ion	Date treatment starte
(antenata If Yes, ple Na 11 Did the w If No, wer	ally or postnata ease specify: ame of medication or men refuse b re blood product	Aspirin on commenced/c lly)?	continued in t	ion	Date treatment starte
(antenata If Yes, ple Na 11 Did the w If No, wer	ally or postnata ease specify: ame of medication or men refuse b re blood product	Aspirin on commenced/c lly)? lood products? s given?	ontinued in t	ion kis? (please tick a	Date treatment starte
(antenata If Yes, ple Na 11 Did the w If No, wer	ally or postnata ease specify: ame of medication or men refuse b re blood product	Aspirin on commenced/c lly)? lood products? s given?	nboprophyla	ion kis? (please tick a	Date treatment starte
(antenata If Yes, ple Na 11 Did the w If No, wer	ally or postnata ease specify: ame of medication or men refuse b re blood product	Aspirin on commenced/c lly)? lood products? s given?	nboprophyla	ion kis? (please tick a	Date treatment starte

Sec	Section 5: Delivery				
5.1	Did this woman have a miscarriage?	Yes 🗌 No 🗌			
	If Yes, please specify date:	DD/MM/YY			
5.2	Did this woman have a termination of pregnancy?	Yes No			
	If Yes, please specify date:	DD/MM/YY			

5.3	Is this woman still undelivered?	Yes No
	If Yes, will she be delivered at your hospital?	Yes No
	If No, please indicate name of delivery hospital, then go to Section 7	
5.4	Was delivery induced?	Yes No
	If Yes, please state indication:	
5.5	Did the woman labour?	Yes No
5.6	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

0		
Sec	tion 6: Outcomes	
Sec	tion 6a: Woman	
6a.1	Was the woman admitted to ITU (critical care level 3) or obstetric HDU?	Yes No
	If Yes, duration of stay:	days
	OR Tick if woman is still in ITU/HDU:	
	OR Tick if woman was transferred to another hospital:	
6a.2	Did the woman require ventilation?	Yes No
6a.3	Did the woman require haemodialysis?	Yes No
	If Yes, for how long was she dialysed?	days
6a.4	Did the woman have hepatic encephalopathy	Yes No
6a.5	Was the woman transferred to a liver unit?	Yes No
6a.6	Did any other major maternal morbidity occur?6*	Yes No
	If Yes, please specify:	
6a.7	Has the woman been discharged from hospital?	Yes No
	If Yes, what was the date of the woman's discharge from hospital?	D D / M M / Y Y
	Was the woman readmitted after discharge?YesNo	Not known
	If Yes, what was the reason for readmission?	
6a.8	Did the woman die?	Yes No
	If Yes, please specify date and time of death	Y Y h h : m m
	What was the primary cause of death as stated on the death certificate? (Please state if not known)	2410
	Was a post mortem examination undertaken?	Yes No
	If Yes, did the examination confirm the diagnosis? Yes No	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:
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.
<b>6b.6</b>	5 min Apgar
6b.7	Was the infant admitted to the neonatal unit?   Yes   No
6b.8	Did any other major infant complications occur? <sup>7*</sup> Yes       No
	If Yes, please specify:
6b.9	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.

### 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, for example:
- 3 or more miscarriages
- Acute fatty liver
- Amniotic fluid embolism
- Ante-partum haemorrhage requiring transfusion
- Baby with major congenital problem
- Hyperemesis requiring admission
- IUGR/small for gestational age
- Neonatal death
- Placenta praevia
- Placental abruption
- Placenta accreta/percreta/increta
- Post-partum haemorrhage requiring transfusion
- Preterm birth or mid-trimester loss
- Severe infection (e.g. pyelonephritis) Stillbirth (IUD)
- Surgical procedure in pregnancy Significant antepartum haemorrhage
- Thrombotic event (DVT/Pulmonary embolus/ Stroke)
- 3. Previous or pre-existing maternal medical problems, for example:
- Auto-immune disease Cancer Cardiac disease (congenital or acquired) Epilepsy

Endocrine disorders, e.g.Hypo or hyperthyroidism, Haematological disorders e.g. sickle cell disease, diagnosed thrombophilia Inflammatory disorders e.g. Inflammatory bowel disease Psychiatric disorders Renal disease Thrombotic event (pulmonary embolism) Coagulopathy

Polycystic ovary disease

- 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, for example:

Adult respiratory distress syndrome Cardiac arrest Cerebrovascular accident/intercranial haemorrhage Convulsions – not diagnosed as eclampsia Disseminated intravascular coagulopathy (DIC) Deranged clotting – not DIC Multiple organ failure Persistent vegetative state/anoxic/hypoxic brain injury Pulmonary oedema Septicaemia/septic shock Thrombotic event

## 7. Infant complications, for example:

Chronic lung disease Exchange transfusion Intraventricular haemorrhage Major congenital anomaly Multiorgan failure Necrotising enterocolitis Neonatal encephalopathy/HIE/birth asphyxia Respiratory distress syndrome/Ventilated/ Pneumothorax/Chest effusions/Haemothorax Severe infection e.g. septicaemia, meningitis Severe jaundice requiring phototherapy