

UK Obstetric Surveillance System

Cardiac Arrest in Pregnancy Study (CAPS) Study 04/10

Data Collection Form - CASE

Please report any woman delivering on or after 1st July 2011 and before 1st July 2014.

Case Definition:

Please report any woman who has received immediate basic life support (BLS) (ie. chest compressions and usually, ventilation breaths) at any time in pregnancy and the immediate postpartum period.

Note that women requiring ventilatory support only, are NOT included.



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.

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:
1.6 Weight at booking:
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 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:
Section 3: Previous Medical History
3.1 Does the woman have a history of pre-disposing factors for heart disease?3* Yes No
If Yes, please specify:
3.2 Does the woman have a history of a previous cardiac arrest? Yes No
If Yes, please specify date:
And record cause if known:
3.3 Does the woman have a history of recreational/illegal drug use? Yes No
If Yes, please specify drug/s used: Record time and date of last known intake
OR Tick if not known
3.4 Does the woman have any other previous or pre-existing medical problems? ^{4*} Yes No
If Yes, please specify:

Section 4: This Pregnancy	
Section 4a:	
4a.1 Final Estimated Date of Delivery (EDD) ^{5*}	,
4a.2 Was this a multiple pregnancy?	7
If Yes, please specify number of fetuses:	_
4a.3 Was pregnancy induced hypertension or pre-eclampsia diagnosed in	_
this pregnancy?	
4a.4 Were there any other problems in this pregnancy? Yes No	
If Yes, please specify:	_
4a.5 Was tocolytic therapy used at any point in this pregnancy? Yes No	
If Yes, please specify agent used and date first used :	
Agent Date	
Section 4b: Cardiac Arrest in Pregnancy	
4b.1 Where was the woman when she collapsed?	_
Was this outside hospital?	7
If Yes, what time did the paramedic arrive?	
4b.2 Was the arrest witnessed?	
4b.3 Was the woman in established labour (>4cm dilated)? Yes No	
4b.4 Were there any obvious pre-arrest events? ^{6*} Yes No Not known	
If Yes, please specify:	_
4b.5 What was felt to be the most likely cause of the cardiac arrest?	
	_
Section 4c: Resuscitation	_
4c.1 Date and time cardiac arrest was diagnosed:	1
4c.2 Please give times of the following or tick if not done:	
Time Basic Life Support (cardiac compressions) started Not done	
Time Advanced Life Support started (ECG monitor first applied) h h m m Not done	
Time woman was intubated h h m m Not done AED Manual Not used]
4c.3 What type of defibrillator was used? AED Manual Not used Sheekable Non sheekable	_ _
If AED, was rhythm: If manual, was rhythm identified? Shockable Non-shockable Yes No	_
If Yes, please specify the rhythm	_
4c.4 Were shocks given? Yes No	
4c.5 Did the rhythm change during resuscitation? Yes No	_
	_

4c.6	Were any additional interventions undertaken? ^{7*}	Yes No
	If Yes, please specify:	
4c.7	Were any of the following medications administered?	Yes No
	If Yes, please specify:	
	Epinephrine	
	Amiodarone	
	Atropine	
	Calcium	
	Sodium Bicarbonate	
	Potassium	
	Thrombolysis	
	Antiarrhythmics (e.g. beta blockers)	
	Intralipid	
Plea	ction 5: Peri-arrest (peri-mortem) Caesarean Section ase record the events surrounding Peri-arrest (peri-mortem) Caesarean Section as 20 weeks' gestation only)	n (PMCS) (delivery
5.1	Was a peri-arrest (peri-mortem) caesarean section (PMCS) performed?	Yes No
	If No, please state why not, then go to to section 6.	
5.2	Was the PMCS performed at the place of collapse?	Yes No
	If No, where was the PMCS performed?	
	Why was the woman moved?	
5.3	How was aortocaval compression reduced? Not done	Tilt of pelvis

Manual displacement of uterus Not documented Who made the decision to perform PMCS? Specialty _____ Grade ____ What time was the decision to perform PMCS made? Was this more than 5 minutes after the arrest? If Yes, why was there a delay? Specialty _____ 5.6 Who performed the operation? Grade _____ 5.7 Was CPR continued throughout the PMCS? Yes No If No, please state why not: ____ 5.8 Were aseptic precautions taken?8* Yes No If Yes, please specify: ____ Is there a scalpel on the arrest trolley for PMCS? No 5.9 Yes

5.10 What surgical incision was used to enter the abdomen?	
5.11 What surgical incision was used to enter the uterus?	—
	$\overline{}$

Sec	etion 6: Outcomes			
Sec	tion 6a: Woman			
6a.1	Was the woman's cardiac output restored?	Yes	No 🗌	
	If Yes, what time was cardiac output restored?	h h	: m m	
	If No, what time was resuscitation abandoned?	hh	m m	
6a.2	Was the woman admitted to ITU (level 3) care?	Yes 2	No	
	If Yes, please specify:			
	Date of admission:	DD/MM	/ Y Y	
	Duration of stay:		days	
	OR Tick if woman is still in ITU (level 3) care:			
	OR Tick if woman was transferred to another hospital:			
6a.3	Was the woman admitted to a coronary care unit?	Yes	No 🗌	
	If Yes, please specify:			
	Date of admission:	DD/MM	/ Y Y	
	Duration of stay:		days	
	OR Tick if woman is still in coronary care unit:			
	OR Tick if woman was transferred to another hospital for coronary care:			
6a.4	Did any other major maternal morbidity occur?9*	Yes	No 🗌	
	If Yes, please specify:			
6a.5	Did the woman die?	Yes	No 🗌	
	If No, what was the total duration of hospital stay post arrest?		days	
	If Yes, please specify date and time of death:	I/YYhhh	: m m	
	What was the primary cause of death as stated on the death certificate? (Please state if not known.)			
	Was a post-mortem performed?	Yes	No 🗌	
	If Yes, please specify main findings:			
Sec	tion 6b: Infant 1			
NB:	If more than one infant, for each additional infant, please photocopy the infar (before filling it in) and attach extra sheet(s) or download additional forms to www.npeu.ox.ac.uk/ukoss			
6b.1	Date and time of delivery:	I/YY hh	: m m	
6b.2	Mode of delivery:			
	Spontaneous vaginal Ventouse Lift-out forceps	Rotational force	eps 🗌	
	Breech Pre-labour caesarean section Caesarean section a			

6b.3 Birthweight:			g		
6b.4 Sex of infant:		Male Female	Indeterminate		
6b.5 Was the infant stillborn?			Yes No		
If Yes, was fetus known to be dea	d before delivery?		Yes No		
If infant was stillborn, please go to	section 7.				
6b.6 5 min Apgar					
6b.7 Were cord gases measured?			Yes No		
If Yes, please record cord gas res	ults:				
		Arterial	Venous		
	рН				
	Base Excess		- 🗆 -		
6b.8 Was the infant admitted to the n	eonatal unit?		Yes No		
If Yes, please give duration of stay	y:		days		
6b.9 Did any other major infant comp	olications occur?10	*	Yes No		
If Yes, please specify:					
6b.10 Did this infant die?			Yes No		
If Yes, please specify date and time	ne of death	DD MM/	Y Y h h m m		
What was the primary cause of de (Please state if not known)	ath as stated on the	e death certificate?			
(Flease state if not known)					
Section 7:					
Please use this space to enter any othe	r information you fee	el mav be important			
	, and a second				
Section 8:					
	_				
8.1 Name of person 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

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. Other risk factors for heart disease:

Essential hypertension

Known ischaemic heart disease

Congenital heart disease

Previous cardiac surgery

Previous myocardial infarction

Cardiomyopathy

Presence of Permanent Pacemaker

Known reduction in ventricular function

Low levels of HDL cholesterol

High levels of LDL cholesterol

Cocaine use

Valvular heart disease

Vasculitis

Ischaemic heart disease in first degree relative

Diabetes

Bromocriptine/cabergoline use

Family history of sudden cardiac death

History of arrhythmia

Personal or family history of hypertrophic obstructive

cardiomyopathy (HOCM)

Family history of inherited arrhythmia e.g. long QT syndrome

Marfan syndrome Turner's Syndrome

Previous or pre-existing maternal medical problems,

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

Respiratory disease e.g. severe asthma, COPD

5. Estimated date of delivery (EDD):

Use the best estimate (ultrasound scan or date of last menstrual period) based on a 40 week gestation

Pre-arrest events (please consider 4Hs, 4Ts and subsequent detail), for example:

Trauma, please specify e.g. RTA, domestic violence, self harm

Major genital tract bleeding

Tension pneumothorax

Anaphylaxis

Drug administration, please specify e.g. overdose, drug reaction

Cardiac tamponade

Eclampsia

Status epilepticus

Pulmonary Embolus

Amniotic Embolus

Aortic dissection

Hypovolaemia e.g. Abruption

Cerebrovascular acident

Hypoxaemia of any cause e.g. acute severe asthma, infection/

ARDS/ failed airway management

Metabolic e.g. hypo/hyperkalaemia, hypoglycaemia

Additional interventions at time of cardiac arrest (Treatment of Hs and Ts)

Arterial Blood Gas (ABG)

Active temperature control

Pericardiocentesis

Needle thoracocentesis

Insertion of formal chest drain

Pulmonary embolectomy performed

8. Aseptic precautions at PMCS

Full surgical scrub

Sterile gown

Sterile gloves

Skin preparation

Sterile drapes

Antibiotics

Major maternal medical complications, including:

Persistent vegetative state

Repeat cardiac arrest

Cerebrovascular accident Adult respiratory distress syndrome

Disseminated intravascular coagulopathy

HELLP

Pulmonary oedema

Mendleson's syndrome

Renal failure

Thrombotic event

Septicaemia

10. 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