



UK Obstetric Surveillance System

**Pregnancy in women
with known cardiomyopathy
Study 02/21**

Data Collection Form - CASE

**Please report all pregnant women whose pregnancy ends on or after
1st June 2021 and before 31st May 2024**

Case Definition:

Any pregnant woman with an established diagnosis of cardiomyopathy prior to pregnancy (including dilated cardiomyopathy, hypertrophic cardiomyopathy, previous peripartum cardiomyopathy and arrhythmogenic right ventricular cardiomyopathy (ARVC)).

Case ID Number:



Royal College of
Obstetricians
and Gynaecologists

Bringing to life the best
in women's health care

Please return the completed form to:

ukoss@npeu.ox.ac.uk

UKOSS

National Perinatal Epidemiology Unit
University of Oxford, Old Road Campus, Oxford, OX3 7LF

Phone: 01865 617764 / 617774

Reporting Period: _____

Reporting Hospital: _____



NPEU

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.

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 Did the woman have any previous pregnancy problems?^{2*}** Yes No
If Yes, please specify _____

*For guidance please see back cover

Section 3: Previous Medical History

3.1 Did the woman have a prior pregnancy complicated by peripartum cardiomyopathy (PPCM)?

Yes No

If Yes,

What was the date of first diagnosis?

/ /

What was the lowest ejection fraction (EF) on echocardiogram in that pregnancy?

% or tick if not known

What was the pro-BNP (pro- beta natriuretic peptide) in that pregnancy?

pg/mL or tick if not known

Was the pregnancy a twin/multifetal pregnancy?

Yes No Not known

Was a diagnosis of pre-eclampsia made in that pregnancy?

Yes No Not known

Was a diagnosis of gestational hypertension made in that pregnancy?

Yes No Not known

Was the diagnosis made antenatally?

Yes No

If Yes, at what gestation?

weeks OR tick if not known

Was the diagnosis made postnatally?

Yes No

If Yes, how many weeks postnatally?

weeks OR tick if not known

Did the women receive bromocriptine for management of PPCM?

Yes No Not known

3.2 Did the woman have a known history of hypertrophic cardiomyopathy (HCM)? Yes No

If Yes,

What was the most recent septal wall thickness on echocardiography prior to pregnancy?

mm OR tick if not known

Was there documented left ventricular outflow tract obstruction?

Yes No Not known

Had the woman undergone septal myectomy prior to pregnancy?

Yes No Not known

3.3 Did the woman have arrhythmogenic right ventricular cardiomyopathy (ARVC)?

Yes No

3.4 Did the woman have dilated cardiomyopathy (DCM)?

Yes No

3.5 Did the woman have any other cardiomyopathy not specified above?

Yes No

If Yes, please specify _____

3.6 Was the woman receiving ongoing cardiology review prior to pregnancy?

Yes No Not known

3.7 Did the woman receive documented pre-pregnancy counselling?

Yes No Not documented

3.8 Did the woman have any other pre-existing medical problems?^{3*}

If Yes, please give details _____

3.9 What was the woman's New York Heart class prior to pregnancy^{4*}? (please tick one)

I II III IV

3.10 Was the woman prescribed any of the following types of medication prior to pregnancy? (tick all that apply)

Beta-blockers (e.g Bisoprolol/Atenolol)

Diuretics (e.g Frusemide)

Angiotensin receptor inhibitors (e.g Losartan, Candesartan)

Angiotensin converting enzyme blockers (e.g Enalapril/Captopril)

Anticoagulants (e.g warfarin, low molecular weight heparin (e.g dalteparin), Rivaroxaban)

If she was prescribed an anticoagulant, please specify which _____

Section 4: This Pregnancy

4.1 Final Estimated Date of Delivery (EDD)^{5*}

/ /

4.2 Was this pregnancy a multiple pregnancy?

Yes No

If Yes, specify number of fetuses

4.3 Were any of the following signs of heart failure noted at booking? (tick all that apply)

Shortness of breath Tachycardia (defined as resting heart rate > 100bpm)

Peripheral oedema Chest pain None of these

4.4 Did any of the following complications occur during pregnancy?

Yes No

If Yes, tick all that apply and indicate date and type if applicable

	Tick if Yes	Date	Type/location
Arrhythmia	<input type="checkbox"/>	<input type="text"/> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/>	_____
Heart Failure	<input type="checkbox"/>	<input type="text"/> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/>	N/A
Thrombosis	<input type="checkbox"/>	<input type="text"/> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/>	_____
Stroke/TIA	<input type="checkbox"/>	<input type="text"/> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/>	_____

4.5 Was the woman admitted to hospital during pregnancy for any other reason?

Yes No

If Yes, please specify reason for admission _____

Regarding the mother's pattern of care during pregnancy

4.6 Which of following best describes the pattern of care this woman received in pregnancy? (please tick one)

Referred to a tertiary centre for an opinion but care continued in local hospital

Care transferred to a tertiary centre which took over the remainder of the pregnancy

Tertiary centre care throughout

5.9 Were any of the following medications used in the third stage of labour or to treat postpartum haemorrhage?

Yes No

If Yes, tick all that apply and indicate dose and route if appropriate

	Tick if Yes	Dose	Route
Syntocinon	<input type="checkbox"/>	_____	_____
Carbetocin	<input type="checkbox"/>	_____	_____
Syntometrine	<input type="checkbox"/>	_____	_____
Ergometrine	<input type="checkbox"/>	_____	_____
Misoprostol	<input type="checkbox"/>	_____	_____
Carbeprost	<input type="checkbox"/>	_____	_____

Section 6: Outcomes

Section 6a: Woman

6a.1 Was the woman admitted to ITU Level 3 critical care?

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.2 Was the woman admitted to HDU Level 2 critical care?

Yes No

If Yes, was this: (please tick one)

Obstetric HDU Other HDU

Duration of stay days

Or Tick if woman is still in HDU Level 2 critical care

Or Tick if woman was transferred to another hospital

6a.3 Did the woman have any of the following complications after delivery?

Yes No

If Yes, tick all that apply and indicate dose and route if appropriate

	Tick if Yes	Date	Type/location
Arrhythmia	<input type="checkbox"/>	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/>	_____
Heart Failure	<input type="checkbox"/>	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/>	N/A
Thrombosis	<input type="checkbox"/>	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/>	_____
Stroke/TIA	<input type="checkbox"/>	<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/>	_____

6a.4 Did any other major maternal morbidity occur?^{7*}

Yes No

If Yes, please specify _____

6a.5 Did the woman initiate breastfeeding?

Yes No Unsure

6a.6 Were any of the following medications prescribed following delivery? (tick all that apply)

Beta-blocker Angiotensin Receptor-inhibitor Diuretics
Angiotensin Receptor Blocker Bromocriptine None of these

6a.7 Was an echocardiogram performed after delivery and prior to discharge? Yes No

If Yes, what was the estimated ejection fraction? % OR tick if not known

6a.8 Was medical thromboprophylaxis given postpartum? Yes No

If Yes, for how long postpartum was it planned to be given? days

6a.9 Was the woman given contraceptive advice prior to discharge? Yes No

If Yes, was contraception provided? Yes No

If Yes, please specify type of contraception provided _____

6a.10 What date was the woman discharged after giving birth? / /

6a.11 Did the woman die? Yes No

If Yes, please specify date and time of death / / :
24hr

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

(Please state if not known) _____

Was a post mortem examination undertaken? Yes No

If Yes, did the examination confirm the certified cause of death?

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 / / :
24hr

6b.2 Mode of delivery Spontaneous vaginal Ventouse

Forceps Breech

Pre-labour caesarean section 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?^{8*} Yes No

If Yes, please specify _____

6b.9 Did this infant die? Yes No

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. New York Heart Classification:

Grade 1- No limitation physical activity
Grade 2 Slight limitation of physical activity
Grade 3 Marked limitation of physical activity
Grade 4 Unable to carry out any physical activity without discomfort.

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
Secondary infection e.g. pneumonia
Renal failure
Thrombotic event
Septicaemia
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