

UK Obstetric Surveillance System

Pulmonary vascular disease Study 01/06

Data Collection Form - CASE

Please report any woman who delivered after 1st March 2006.

Case Definition:

EITHER Pulmonary hypertension defined as:

- a mean (not systolic) pulmonary artery pressure equal to or greater than 25mmHg at rest or 30 mmHg on exercise in the absence of a left-to-right shunt OR
- 2) a pulmonary artery systolic pressure greater than 36mmHg. Pulmonary hypertension may be primary (no cause identified) or secondary (known cause identified, for example, vasculitis, connective tissue disease, chronic pulmonary thromboembolism, sickle cell disease, drug use)

OR Eisenmenger's syndrome: defined as pulmonary hypertension secondary to an uncorrected left-to-right shunt from a ventricular septal defect, atrial septal defect or patent ductus arteriosus.

Please note: Pulmonary arterial pressures measured by Doppler will be mean **values**. Systolic pressures can be measured by pulmonary artery catheter.

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.
- 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	tion 1: Woman's details			
1.1	Year of birth			YYYY
1.2	Ethnic group ^{1*} (enter code, pleas	e see back cover for	r guidance)	
1.3	Marital status		single	married cohabiting
1.4	Was the woman in paid employed If Yes, what is her occupation of If No, what is her partner's (if any			Yes No
1.5	Height at booking			cm
1.6	Weight at booking			kg
1.7	Smoking status		never	gave up prior to pregnancy gave up during pregnancy

Section 2: Previous Pregnancies
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
Please indicate whether any of the following were present prior to pregnancy:
3.1 Previous or pre-existing medical problems³* Yes No If Yes, please specify
3.2 Eisenmenger's syndrome If Yes, please specify date of diagnosis and underlying cause
3.3 Pulmonary hypertension If Yes, please specify date of diagnosis If Yes, was any cause for pulmonary hypertension diagnosed? If Yes, please specify Yes No Yes No No If Yes, please specify
3.4 Was pulmonary artery pressure measured prior to pregnancy? If Yes, please record the highest mean arterial pressure at rest (mmHg) During exercise (mmHg)
3.5 Most recent arterial oxygen saturation prior to pregnancy
Rest: % Exercise: % Or tick if neither known
3.6 Was pre-pregnancy counselling given? Yes No Not documented
Section 4:
Section 4a: This Pregnancy
4a.1 Final Estimated Date of Delivery (EDD)5*
4a.2 Was care undertaken in the usual hospital for this woman's area of residence?
Yes No Name of usual hospital of residence
If No, please indicate below reasons for care at a different hospital (please tick all that apply) Referred to a tertiary centre because of underlying medical condition Patient preference Other
If Other, please specify

4a.3		ncy a multiple pregnar	ncy?		Yes No
4a.4	-	lems in this pregnancy			Yes No
Sect	•	se of Disease			
	Was the diagnos during this preg	sis of Eisenmenger's/p nancy?	ulmonary hype	rtension fi	rst made Yes No
		specify diagnosis			
	and date of dia	agnosis			DD/MM/YY
4b.2	Was a recording If Yes, was it	of pulmonary artery p	ressure made o	during this Doppler-de	
	Please record	highest measured pulme	onary arterial pre	essure	
4b.3	Was the lowest a	arterial saturation reco		r/delivery?	
		I hospital admissions of tone overnight stay. P	during this preg	•	at
	Date of admission		eason for admis		
					Yes No Yes No
					Yes No
					Yes No
		which of the following an during pregnancy	specialists wer	e involved	in the
					Date first consulted
	Cardiologist		Yes	No 🗌	DD/MM/YY
	Fetal-maternal m	nedicine specialist	Yes	No 🗌	D D / M M / Y Y
	Obstetric anaest	hetist	Yes	No 🗌	DD/MM/YY
	Obstetric physici	an	Yes	No 🗌	DD/MM/YY
	Other		Yes	No 🗌	DD/MM/YY
	If Other, please	e specify			

Sec	tion 4c: Therapy for pulmonary vas	cular disease				
4c.1	4c.1 Please specify if any of the following therapies were used (please tick all that apply):					
		Prior to pregnancy	During pregnancy			
	Aspirin					
	Theraputic anticoagulation - Warfarin					
	- Heparin					
	Prophylactic anticoagulation - Warfarin					
	- Heparin					
	Calcium antagonists					
	Endothelin antagonists (Bosentan)					
	lloprost					
	Magnesium sulphate					
	Nitrates					
	Nitric Oxide					
	Phosphodiesterase inhibitors (Sildenafil)					
	Prostacyclin (PGI2) (Epoprostenol)					
	Other					
	If Other, please specify					
Sec	tion 5: Delivery					
5.1	Did this woman have a miscarriage?		Yes No			
	If Yes, please specify date					
5.2	Did this woman have a termination of pregnative lif Yes, please specify date	ancy? Medical	Surgical No DDD/MM/YY			
5.3	Is this woman still undelivered?		Yes No			
	If Yes, will she be receiving the rest of her an hospital?	itenatal care from the curre	ent Yes No			
	If care is to be provided at a different hospital care, then go to section 7	•	nospital providing future			
	If No, please continue	_	_			
5.4	What was the planned mode of delivery?	vaginal	caesarean section			
5.5	What was the NYHA grade of disease severit	y at delivery ^{6*} ?				

5.6 Was delivery induced?	Yes No
If Yes, please state indication	
Was vaginal prostaglandin used?	Yes No
5.7 Did the woman labour?	Yes No
If Yes, was labour augmented with syntocinon?	Yes No No
What was the method of analgesia for labour <i>(please tick all that apply)</i> Entonox Opiate specify: im, iv, PCA (please circle)	
Regional specify: epidural, single-shot spinal, continuous spinal, CSE	- (please circle)
Other	- (product circle)
If Other, please specify	
5.8 Was delivery by caesarean section?	Yes No
If Yes, please state whether elective	OR emergency
Please state grade of urgency ⁷ *	
and give indication for caesarean section	
Method of anaesthesia: single-shot spinal continuous spinal	CSE general
5.9 Monitoring during delivery (please tick all that apply)	
	us pressure (CVP)
	ary artery pressure
Other	
If Other, please specify	
5.10 Treatment/prevention of uterine atony (please tick all that apply)	uterine balloon
syntocinon syntometrine ergometrine B. Lynch suture Other	
B. Lynch datale	
If Other, please specify	
If Other, please specify	
If Other, please specify	
Section 6: Outcomes	
Section 6: Outcomes	Yes No
Section 6: Outcomes Section 6a: Woman 6a.1 Was ITU admission planned prior to delivery?	Yes No No No No
Section 6: Outcomes Section 6a: Woman 6a.1 Was ITU admission planned prior to delivery? 6a.2 Was the woman admitted to: Date of admission	
Section 6: Outcomes Section 6a: Woman 6a.1 Was ITU admission planned prior to delivery? 6a.2 Was the woman admitted to: Date of admission duration of stay (days)	etric HDU No
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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 Was the infant stillborn?
If Yes, go to section 7
6b.5 5 min Apgar
6b.6 Was the infant admitted to the neonatal unit?
If Yes, duration of stay (days)
Or Tick if infant is still in NICU/SCBU
Or Tick if infant was transferred to another hospital
6b.7 Did any major infant complications occur?9* Yes No
If Yes, please specify
6b.8 Did this infant die?
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 DD/MM/YY
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. Known secondary causes of pulmonary hypertension, including:

Chronic pulmonary thromboembolism

Antiphospholipid syndrome

Connective tissue disorders

Sickle cell disease

Drug misuse

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. New York Heart Association classification grades of disease severity:

- 1. No functional limitation
- 2. Slight functional limitation (fatigue, palpitations, dyspnoea or angina on ordinary exertion)
- 3. Marked limitation (symptoms on less than ordinary exertion but not at rest)
- 4. Inability to perform any physical activity without symptoms (with or without symptoms at rest)

7. 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

8. 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

Septicaemia

Required ventilation

Right heart failure

9. 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