

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:

- 1) 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:



Phone: 01865 289714 Royal College of Obstetricians and **Gynaecologists**

UKOSS **National Perinatal Epidemiology Unit University of Oxford Old Road Campus** Oxford **OX3 7LF** Fax: 01865 617775

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	tion 1: Woman's details			
1.1	Year of birth			YYYY
1.2	Ethnic group ^{1*} (enter code, pleas	e see back cover	r for guidance)	
1.3	Marital status		single	married cohabiting
1.4	Was the woman in paid employn	nent at booking	?	Yes 📃 No 🗌
	If Yes, what is her occupation _			
	If No, what is her partner's (if an	ny) 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

Sec	ction 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*} If Yes, please specify	Yes No

Section 3: Previous Medical History	
Please indicate whether any of the following were present prior to pregnancy:	
3.1 Previous or pre-existing medical problems ^{3*}	Yes No
If Yes, please specify	
3.2 Eisenmenger's syndrome	Yes No
If Yes, please specify date of diagnosis	DD/MM/YY
and underlying cause	
3.3 Pulmonary hypertension	Yes No
If Yes, please specify date of diagnosis	DD/MM/YY
If Yes, was any cause for pulmonary hypertension diagnosed?4*	Yes No
If Yes, please specify	
3.4 Was pulmonary artery pressure measured prior to pregnancy?	Yes No
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: 8 Kercise: 6 Ker	ck 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*		D D / M M / Y Y
4a.2 Was care undertaken in the usua	I hospital for thi	s woman's area of	residence?
			Yes No
Name of usual hospital of reside	ence		
If No, please indicate below rea	sons for care at a	different hospital (pl	ease tick all that apply)
Referred to a tertiary centre to	because of underly	ing medical conditio	on 🗌
Patient preference			
Other			
If Other, please specify			

4a.3	Was this pregnancy a multiple pregnancy? If Yes, specify number of fetuses				Yes	No 🗌	
4a.4	Were there problems in this pregnancy ^{2*}					Yes	No
Sect	tion 4b: Cour	se of Disease					
	Was the diagnos during this preg	sis of Eisenmenger's/ nancy?	pulmonary hype	rtension firs		Yes	No 🗌
	If Yes, please specify diagnosis						
	and date of dia	agnosis				D / M M	/ Y Y
4b.2	If Yes, was it	of pulmonary artery		Doppler-deri		Yes heter-deri	No
4b.3	Was the lowest a	arterial saturation rec	orded pre-labou	r/deliverv?		Yes	No
	If Yes,	Date of recording		Rest:		kercise:	%
		I hospital admissions t one overnight stay. /			necessary		
	Date of admission		teason for admis		y de	as the wo livered d nis episo	uring
					Ye	s 🗌 N	o 🗌
					Ye	s 🗌 N	o 🗌
					Ye	s 📃 N	o 🗌
					Ye	s 🗌 N	0
		which of the following an during pregnancy	g specialists wer	e involved ir	1 the		
					Date firs	t consult	ted
	Cardiologist		Yes	No		Y M N	Y
	Fetal-maternal m	edicine specialist	Yes	No		M M / Y	Υ
	Obstetric anaest	hetist	Yes	No		<u>M M / Y</u>	Y
	Obstetric physici	an	Yes	No		Y M N	Υ
	Other		Yes	No		M M / Y	Y
	If Other, please	e specify					

Section 4c: Therapy for pulmonary vascular disease				
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 - Warfar	in		
	- Hepari	n		
	Prophylactic anticoagulation - Warfar	in		
	- Hepari	n		
	Calcium antagonists			
	Endothelin antagonists (Bosentan)			
	lloprost			
	Magnesium sulphate			
	Nitrates			
	Nitric Oxide			
	Phosphodiesterase inhibitors (Sildena	afil)		
	Prostacyclin (PGI2) (Epoprostenol)			
	Other			
	If Other, please specify			
Sec	tion 5: Delivery			
5.1	Did this woman have a miscarriage	?		
5.2	Did this woman have a termination If Yes, please specify date	of pregnancy?	Medical	Surgical No
5.3	Is this woman still undelivered?			Yes No
	If Yes , will she be receiving the rest hospital?	t of her antenatal	care from the curre	nt Yes 🗌 No 🗌
	If care is to be provided at a different care, <i>then go to section</i> 7		e indicate name of h	ospital providing future
	If No, please continue			
5.4	What was the planned mode of delive	very?	vaginal	caesarean section
5.5	What was the NYHA grade of diseas	se severity at de	livery ^{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			
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 (k	please circle)		
Other			
If Other, please specify			
5.9 Wee delivery by account anotion?			
5.8 Was delivery by caesarean section? If Yes, please state whether elective C	Yes No		
Please state grade of urgency ⁷ *			
and give indication for caesarean section			
Method of anaesthesia: single-shot spinal continuous spinal C	SE general		
5.9 Monitoring during delivery (please tick all that apply)			
non-invasive blood pressure ECG central venous	pressure (CVP)		
intra-arterial blood pressure pulse oximetry pulmonary	artery pressure		
Other			
If Other, please specify			
5.10 Treatment/prevention of uterine atony (please tick all that apply)			
	terine balloon		
B. Lynch suture Other			
If Other, please specify			
Section 6: Outcomes			
Section 6a: Woman			
6a.1 Was ITU admission planned prior to delivery?	Yes No		
6a.2 Was the woman admitted to: ITU HDU obstetrie	c HDU 📄 No 🦳		
Date of admission			
duration of stay (days)			
Or Tick if woman is still in ITU/HDU			
Or Tick if woman was transferred to another unit (same hospital) or different ho	ospital		
6a.3 Did any other major maternal morbidity occur? ^{8*}	Yes No		
If Yes, please specify			
6a.4 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)			

Section 6b: Infant 1				
NB: If more than one infant , for each additional infant, please photocopy the infant section of the form <i>(before filling it in)</i> 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	DD/MM/YY hh:mm			
	forceps rotational forceps sarean section after onset of labour			
6b.3 Birthweight	g g			
6b.4 Was the infant stillborn?	Yes No			
If Yes, go to section 7				
6b.5 5 min Apgar				
6b.6 Was the infant admitted to the neonatal unit?	Yes 🗌 No 🗌			
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?	Yes 🗌 No 🗌			
If Yes, please specify date of death				
What was the primary cause of death as stated on the deat (please state if not known)	h certificate?			

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
- Solution of the second se
- Severe jaundice requiring phototherapy Major congenital anomaly

Severe infection e.g. septicaemia, meningitis Exchange transfusion