

Anaphylaxis in Pregnancy Study 01/16

Data Collection Form - CASE

Please report all pregnant women diagnosed with anaphylaxis on or after 1st September 2016 and before 28th February 2018 during pregnancy and up to 48 hours after <u>delivery</u>

Case Definition:

Anaphylaxis is defined as a severe, life-threatening generalised or systemic hypersensitivity reaction. The following two criteria must be met for a diagnosis of anaphylaxis to be made:

- 1. A life-threatening airway problem and/or breathing problem and/or circulatory problem
- 2. Sudden onset and rapid progression of symptoms

Women should not be reported if a diagnosis of anaphylaxis has been excluded by their senior attending obstetrician/anaesthetist.

Please return the completed form to:

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

Fax: 01865 617775 Phone: 01865 289744

Email: stephen.mccall@npeu.ox.ac.uk

Case reported in:



Instructions

- 1. Please do not enter any personally identifiable information (e.g. name, address or hospital number) on this form.
- 2. Fill in the form using the information available in the woman's case notes.
- 3. Tick the boxes as appropriate. If you require any additional space to answer a question please use the space provided in section 7.
- 4. Please complete all dates in the format DD/MM/YY, and all times using the 24hr clock e.g. 18:37
- 5. If codes or examples are required, some lists (not exhaustive) are included on the back page of the form.
- 6. 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 INOSS Administrator. We will send these sections again for you to complete two weeks after the woman's expected date of delivery.
- 7. If you do not know the answers to some questions, please indicate this in section 7.
- 8. If you encounter any problems with completing the form please contact the INOSS Administrator or use the space in section 7 to describe the problem.

Sec	ction 1: Woman's details
1.1	Year of Birth:
1.2	Country of birth:
1.3	What was the woman's highest level of education? No formal schooling
	Less than primary schooling Primary school
	Secondary or high school College, university or higher
1.4	Did the woman or her partner have a steady income during pregnancy (excluding social security)? Yes No
1.5	Height at booking:
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 Obstetric History
2.1	Gravidity
	Number of completed pregnancies beyond 24 weeks:
	Number of pregnancies less than 24 weeks:
	Number of previous caesarean sections:
2.2	Did the woman have any other previous pregnancy problems?¹* Yes No
	If Yes, please specify:

Sac	ction 3: Previous Medical History
3.1	Does the woman have a previous history of anaphylaxis? Yes No
3.2	Does the woman have a previous history of atopy? Yes No
2.2	If Yes, please tick all that apply: Eczema Asthma Hay fever
3.3	Does the woman have a history of previous allergic reaction to any of the following? Yes No
	If Yes, please tick all that apply: Latex Food stuffs Animal fur or bird feathers
	Dust mites Insect stings Pollen/spores Other
	If Other, please specify:
3.4	Does the woman have a history of previous recorded allergic reaction to any drugs? Yes No
	If Yes, please state which drug / antibiotic:
	If Yes, please describe the reaction recorded in the notes:
3.5	Does the woman have any other pre-existing medical problems ^{2*} ? Yes No
	If Yes, please specify details:
	(continue in Section 7 if required)
	(** * * * * * * * * * * * * * * * * * *
Sec	ction 4: Outcomes
Sec	ction 4a: This Pregnancy
4a.1	Final Estimated Date of Delivery (EDD):3*
4a.2	Was this a multiple pregnancy? Yes No
	If Yes, please specify number of fetuses:
4a.3	Were there problems in this pregnancy¹*?
	If Yes, please specify details:
Sec	ction 4b: Diagnosis and management of anaphylaxis
	What was the date and time when symptoms were first experienced?
4b.2	When was anaphylaxis diagnosed (date and time)? DDD/MM/YY hh h: m m
4b.3	24hr
	If Yes, please tick all that apply: Laryngeal or pharyngeal oedema Hoarse voice
	Stridor (laryngospasm) Other
	If Other, please specify:

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40.4	Did the woman have a life	•	•		Yes No
	If Yes, please tick all that app	. •		and raised respiratory ra	
		Wheeze ((bronchospasm	,	_ =
			Confusion	secondary to hypoxia	Cyanosis
		Re	spiratory exha	ustion or respiratory arres	t Other
	If Other, please specify	y:			
4b.5	Did the woman have a life	threatening of	circulatory pro	oblem?	Yes No
	If Yes, please tick all that app	ply: Sig	gns of shock su	ıch as faintness, pallor or	clammy skin
		Tac	hycardia >100l	opm Signs of ischae	emia on ECG
	5	Systolic BP <9	0mmHg or MB	P<60mmHg or measured	hypotension
		De	ecreasing level	of consciousness C	ardiac arrest
4b.6	Did the woman have skin of flushing, urticarial/nettle rate of the skin of the	ash, angioede	ema)?	· · ·	Yes No
4b 7	Where was the woman who				
40.7	Where was the woman who				ostnatal ward
		nome or C	Community		
	If Other places enseif	\ (*)		elivery suite Theatre	e Other
	If Other, please specify				
4b.8	Was there a suspected cau	sative agent	?	Yes No	Unknown
	If Yes, was the agent an ant	tibiotic?			Yes No No
	Tick all that apply:		Prophy	laxis before/after a caesa	arean section
	Prophylaxis for G	roup B Strept	ococcus (GBS)	carriage to prevent neon	atal infection
				Treatment of an infection	n Other
	If Other, please state reas	son:			
	If No, what was the causative	e agent and it	s indiction for u	se:	
4b.9	Did the woman have any k	nown previou	us exposure to		_
	the causative agent?			Yes No	Unknown
	If Yes, please state when: $_$				
4b.10	Were any regular medication recreational) being taken p	•	•		Unknown
	If Yes, please list these med	ications:			
4b.11	Were vital observations red	corded prior	to anaphylaxis	s?	Yes No
	If Yes, what were the most re	ecent set of vi	tal observations	s prior to the diagnosis of	anaphylaxis:
		Obser	vation	Date	Time
	Oxygen saturations (%)			DD/MM/YY	h h m m
	Blood pressure (mmHg)	Systolic	Diastolic	DD/MM/YY	h h m m 24hr
	Heart rate (bpm)			D D / M M / Y Y	h h m m
	Respiratory rate/min			DD/MM/YY	h h m m

b.12 What were the vital ob	servatio	ons at the t	ime of diag	nosis	s of anaphylaxis	?	
		Observ	ation		Date		Time
Oxygen saturations (%)				D D / M M / Y	Y	h h m m
Blood pressure (mmHg	g)				D D / M M / Y	Υ	h h m m
Heart rate (bpm)					D D / M M / Y	Υ	h h : m m
Respiratory rate/min					D D / M M / Y	Υ	h h : m m
o.13 Did the woman have a	cardior	espiratory	arrest?			,	Yes No
If Yes, please state the	date and	d time at wh	ich this occu	ırred:	D D / M M	/ Y	Y h h : m r
b.14 Was any fetal heart ra	te abnoı	rmality not	ed?			,	Yes No
							🖂 🤈
o.15 Following diagnosis o	-		s high flow o	oxyge	en given?		Yes No L
o.16 Was there orotracheal	intubat	ion?				1 🔻	Yes No L
If Yes, date and time: o.17 Following diagnosis o	f ananh	vlayis wer	e IV fluids o	niven	2 D D 7 M M	/ <u> </u>	Yes No
If Yes, please state:	a unupn	ylaxio, woi	o iv ilaiao g	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•		100 110 _
Name of fluid		Volu	ume	Т	Time started	Т	ime stopped
					h h m m		h h : m m
					h h m m	Г	h h m m
					24hr h h m m		h h m m
p.18 Following diagnosis o administered?	f anaph	ylaxis, wer	e any of the	follo	owing drugs	,	Yes No
If Yes, please state:							
Name of drug	Ye	es/No	Time giv	en	Dose given		Route
Adrenaline	Yes	No	h h m	m			
Chlorphenamine	Yes	No 🗌	h h m	m			
Hydrocortisone	Yes	No 🗌	h h : m	m			
b.19 Were any other drugs	given d	uring the r		n per	iod?	,	Yes No
If Yes, please state:							
Name of drug	Time	e given	Dose giv	en	Route		Indication
	h h	* m m					
	hh	: m m					
	hh	24hr					
		24hr					

4b.20 Was blood taken for serum tryptase levels? Yes No
If Yes, please give date and time
If Yes, was the result Normal or raised (please tick one) Normal Raised
4b.21 Was blood testing carried out to confirm the suspected allergen? Yes No
If Yes, was a specific IgE identified?
If Yes, please state what the IgE was specific to:
4b.22 Was skin testing carried out to confirm the suspected allergen? Yes No
If Yes, was any causal agent identified?
If Yes, please state the agent:
Section 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 pregnancy? Yes No
If Yes, please specify date and time: DDJ/MM/YY hh: mm
5.3 Is this woman still undelivered? Yes No
If Yes, will the woman receive the remainder of her antenatal care at your hospital? Yes No
If No, please indicate name of hospital providing future care:
Will she be delivered at your hospital? Yes No
If No, please indicate name of delivery hospital,
5.4 Was delivery induced? Yes No
If Yes, please state indication:
If Yes, vaginal prostaglandin was used? Yes No No
5.5 Was delivery by caesarean section? Yes No
If Yes, please state:
Grade of urgency:4*
Indication for caesarean section:
Method of anaesthesia: Spinal Epidural top-up
CSE Epidural General anaesthetic The time between decision and delivery and delivery of the haby

Saction & Outcomes	
Section 6: Outcomes Section 6a: Woman	
	Voc No No
6a.1 Was the woman admitted to ITU (critical care level 3)?5*	Yes No
If Yes, please specify duration of stay: OR Tick if woman is still in ITU:	days
OR Tick if woman was transferred to another hospital:	
6a.2 Did any other major maternal morbidity occur?6*	Yes No
	103 110
If Yes, please specify:	Yes No
	M/VV b b l m m
If Yes, please specify date and time of death What was the primary cause of death as stated on the death certificate?	24hr
(Please state if not known)	
(Flease state if Hot known)	
Section 6b: Infant 1	
6b.1 Please state the date and time of delivery:	M / Y Y h h : m m
6b.2 Mode of delivery: Spontaneous vaginal Ventouse Forceps	S Vaginal breech
Pre-labour caesarean section Caesarean sectio	n after onset of labour
6b.3 Birthweight:	$\overline{\qquad}g$
6b.4 Sex of infant: Male Fema	le Indeterminate
6b.5 Was the infant stillborn?	Yes No
_	OR Intrapartum
	min 10 min
6b.7 Were the cord gases measured?	Yes No
If Yes, please state the umbilical arterial pH and base excess:	
If Yes, please state the umbilical venous pH and base excess:	
6b.8 Did the infant experience any seizures? Yes	No Unknown
6b.9 Was an aEEG or a full EEG performed? Yes	No Unknown
If Yes, please state the results:	
6b.10 Did the infant have any evidence of neurological imaging? Yes	No Unknown
If Yes, please state:	
Type of imaging used,	
Date and time used:	M / Y Y h h : m m
What damage was identified?	24hr
6b.11 Did this infant have a neurological examination? Yes	No Unknown
If Yes, Was there any evidence of neurological deficit on neurological examination?	Yes No
If Yes, please state what this was:	

8b.12 Was the infant admitted to the neonatal intensive care unit (not SCBU)? Yes No
If Yes, please state the duration of stay (days)
Or Tick if the infant is still in the neonatal unit
Or was the infant transferred to another hospital?
Sb.13 Was a diagnosis of neonatal encephalopathy made? Yes No Unknown
If Yes, was the baby cooled? Yes No Unknown
Sb.14 Did any major infant complications occur ^{7*} ? Yes No
If Yes, please specify details:
Sb.15 Did this infant die?
If Yes, please specify the date and time of death: DD/MM/YY h h : m m
If Yes, please state the primary cause of death as documented on the death certificate:
Section 7:
Please use this space to enter any other information you feel may be important
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Please use this space to enter any other information you feel may be important
Please use this space to enter any other information you feel may be important Section 8:
Section 8: 3.1 Name of person completing the form:
Section 8: 3.1 Name of person completing the form: 3.2 Designation:
Section 8: 3.1 Name of person completing the form:

Definitions

1. Previous or current pregnancy problems, these may include amongst others: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

2. 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

3. Estimated date of delivery (EDD):

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

4. 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

5. Intensive care unit - Level 3:

Patients requiring advanced respiratory support alone or basic respiratory support together with support of at least two organ systems. This level includes all complex patients requiring support for multi-organ failure.

6. Major maternal medical complications, these may include amongst others:

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

Other organ dysfunctions (hepatic, cardiac)

Multiple organ failure

7. Fetal/infant complications, these may include amongst others:

Respiratory distress syndrome

Intraventricular haemorrhage

Necrotising enterocolitis

Neonatal encephalopathy

Severe jaundice requiring phototherapy

Major congenital anomaly

Severe infection e.g. septicaemia, meningitis

Exchange transfusion