

**UK Obstetric Surveillance System** 

# **Failed intubation Study 03/08**

**Data Collection Form - CASE** 

Please report all women delivering between 1st April 2008 and 31st March 2010.

## **Case Definition:**

Any woman of over 20 weeks gestation given a general anaesthetic (whether on delivery suite or another hospital department) where failed intubation has occurred.

Failed Intubation is defined as failure to achieve tracheal intubation during a rapid sequence induction for obstetric anaesthesia, thereby initiating a failed intubation drill.

Please return the completed form to:

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

Fax: 01865 289701

Phone: 01865 289714

Case reported in:

Royal College of Obstetricians and **Gynaecologists** 



# **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 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 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 group¹* (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				
Sect	tion 2: Previous Pregnancies				
2.1	Gravidity				
	Number of completed pregnancies 24 weeks and beyond				
	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? <sup>2*</sup> Yes No				
	If Yes, please specify				
2.3	Previous LSCS under general anaesthesia Yes No				
	If Yes, was there				
	Documented difficult intubation  Failed intubation  None documented				

Sect	tion 3: Previous Medical History			
3.1	Previous or pre-existing medical problem <sup>3*</sup>		Yes	No 🗌
	If Yes, please specify			
3.2	Previous surgical procedures under general anaesthe	esia	Yes	No 🗌
	If Yes, was there			
	Documented difficult intubation  Failed intul	oation Non	e documer	nted
3.3	Predictors of difficult intubation. Please record the following or tick if not			
	documented.		Not docui	mented
	Mallampati score4*			
	Inter-incisor gap	L cms	_	
	Able to protrude lower incisors beyond upper incisors?	Yes No L		
	Cervical spine abnormality	Yes No [		
	If Yes, please specify			
	Other			
	If Other, please specify			
	tion 4: This Pregnancy	_		
4.1	Final Estimated Date of Delivery (EDD) <sup>5*</sup>		DD/MM	/ Y Y
4.2	Was this pregnancy a multiple pregnancy?		Yes	No 📙
	If Yes, please specify number of fetuses			
4.3	Were there problems in this pregnancy? <sup>2*</sup>		Yes	No 🗌
	If Yes, please specify			
Soci	tion 5: Delivery / Surgical / Anaesthetic interven	tion		
5.1	Is this woman still undelivered?	tion	Yes 🗍	No 🗍
0.1			Yes $\square$	No $\square$
	If No, Did the woman labour?		Yes $\square$	No $\square$
	Was delivery by c-section?  If Yes, please state grade of urgency <sup>6</sup> *		165	
				Ш
	And give indication for c-section			
	If Yes, what was the date of the anaesthetic when intub	ation failed? L	V22 -	)/ [Y ] Y ]
	Will she be delivered at your hospital?		Yes	No 📙
	If No, please indicate name of delivery hospita	al		
<b>5</b> 0	NACE the consethetic value introbation follow siven form			
5.2	Was the anaesthetic when intubation failed, given for section?	caesarean-	Yes 🗍	No □
		othodic sires o		.40
	If No, for what surgical procedure was the general anae	sinetic given?		

lease indicate which anaesthetists were present at any point during the procedure					
Grade	Years in training (trainee)	Locum Y/N	Present on indu- of anaesthesia		
Indication for general anaesthe	sia				
•	usal of regional  equate regional	Co	pagulation abnorma Oth	· —	
If Other, please specify					
Was antacid prophylaxis against aspiration prescribed in the previous 6 hours (eg metoclopramide, H2 antagonist, proton pump inhibitor, sodium citrate)?  Yes □ No □					
Please state drug, dose and time	of administration. Co	ntinue in s	— ection 7 if necessar	у. У.	
Drug				ime	
			hh	24hr m m	
			h h	24hr	
Time of induction of general an	aesthesia		hh	24hr	
Was cricoid pressure applied at	tinduction?		Yes	No 🗌	
Was it released to assist airway	insertion?		Yes	No 🗌	
Please list all drugs given for in		s, in order	Include repeated		
doses. (Continue in section 7 if n	ecessary)				
Drug	Dose	Intu	bation successful	?	
		_	Yes No No		
		_	Yes No No		
			Yes No		
Cormack Labora larryngogogogy			Yes No		
Cormack-Lehane laryngoscopy intubation failure was declared)	grade (Dest view a	at the time			
How many attempts at laryngos of times the laryngoscope was ins			number		
How many attempts at intubation times the tracheal tube was insert	on were made? This		ber of		
mile and addition to the moon				Ш	

5.13	Which tracheal tube size was used at the f	first attempt?		
5.14	Was any other tube size attempted?		Yes No	
	If Yes, which sizes?			
5.15	Please state which of the following items of which order (mark 1,2,3 etc). In the second unavailable.			
		Order of Use (mark 1,2,3 etc) (page 4)	<b>Unavailable</b> lease tick if yes)	
	Suction			
	Nasopharyngeal airway			
	Oropharyngeal airway			
	Gum Elastic Bougie			
	Laryngeal mask airway (LMA)			
	Intubating LMA ProSeal LMA			
	Short handled Macintosh laryngoscope	H		
	Long blade Macintosh laryngoscope			
	McCoy laryngoscope	H	H	
	Polio Blade laryngoscope	H	H	
	Fibreoptic bronchoscope	$ = \square $	T T	
	Percutaneous cricothyroidotomy kit			
	Other – please state below			
5.16	Was bag and mask ventilation commenced	d?	Yes No	
	If Yes, did oxygenation improve?		Yes No	
5.17	Was capnography used during induction/maintenance of anaesthesia?			
			Yes No	
5.18	What was the oxygen saturation before pr	e-oxygenation?	<b>\</b> %	
5.19				
5.20	How was the failed intubation managed?			
	Surgery continued with alternative airway de	evice	Yes No No	
	If Yes, please state which			
	Patient woken and surgery abandoned?		Yes No N	
	If Yes, how was the case subsequently m	nanaged?		
	General anaesthetic administered by anoth	er anaesthetist	Yes No	
	If Yes, grade of anaesthetist			
	Regional technique?		Yes No No	
	Other		Yes No	

If Other, please specify				
5.21 Was a cricothyroidotomy performed?	Yes No			
If Yes, was this by				
IV cannula Specific cricothyroid needle	device Surgical airway Other			
If Other, please specify				
Was it performed by (please tick)	Surgeon Anaesthetist			
Grade of operator				
Was patient	Conscious Unconscious			
Section 6: Outcomes				
Section 6a: Woman				
6a.1 Was the woman admitted to ITU/HDU?	Yes No			
If Yes, duration of stay (days)				
Or Tick if woman is still in ITU/HDU				
Or Tick if woman was transferred to another h	ospital			
6a.2 Did the patient aspirate?	Yes No			
6a.3 Did any other major maternal morbidity occu	r?8* Yes No			
If Yes, please specify				
6a.4 Did the woman die?	Yes No			
If Yes, please specify date of death	DD/MM/YY			
What was the primary cause of death as state	d on the death certificate?			
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	D D / M M / Y Y h h : m m			
6b2 Mode of delivery	24hr			
spontaneous vaginal ventouse	lift-out forceps  rotational forceps			
breech pre-labour caesarean section	caesarean section after onset of labour			
6b.3 Birthweight	g			
6b.4 Was the infant stillborn?	Yes No			
If Yes, was this	Antepartum OR Intrapartum			
Please 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)	Yes No No
Or Tick if infant is still in NICU/SCBU	
Or Tick if infant was transferred to another hospital	
6b.8 Did any major infant complications occur?9*	Yes 🗌 No 🗌
If Yes, please specify	
6b.6 Did this infant die?	Yes 🗌 No 🗌
If Yes, please specify date of death	D D / M M / Y Y
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 to the space to enter any other information you feel may be important to the space to enter any other information you feel may be important to the space to enter any other information you feel may be important to the space to enter any other information you feel may be important to the space to enter any other information you feel may be important to the space to enter any other information you feel may be important to the space to enter any other information you feel may be important to the space to enter any other information you feel may be important to the space to	ortant
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:

Pre-eclampsia (hypertension and proteinuria)

Eclampsia

Thrombotic event

Amniotic fluid embolism

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

# 3: Previous or pre-existing maternal medical problems, including:

Essential hypertension

Cardiac disease (congenital or acquired)

Renal disease

Connective tissue disorders

Rheumatological disorders

Any congenital facial abnormalities or trauma

Endocrine disorders e.g. hypo or hyperthyroidism,

acromegally

Psychiatric disorders

Haematological disorders e.g. sickle cell disease,

diagnosed thrombophilia

Inflammatory disorders e.g. inflammatory bowel disease

Polycystic ovary syndrome

**Epilepsy** 

Diabetes

Autoimmune diseases

Cancer / previous radiotherapy

#### 4: Mallampati classification

This classification describes the anatomical structures visualised with maximal mouth opening and tongue protrusion in the sitting position.

Class I: soft palate, fauces, uvula, pillars Class II: soft palate, fauces, portion of uvula

Class III: soft palate, base of uvula

Class IV: hard palate only

### 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. Cormack and Lehane

This classification describes the best view possible at laryngoscopy.

Grade II: complete glottis visible
Grade II: anterior glottis not seen
Grade III: epiglottis seen, but not glottis

Grade IV: epiglottis not seen

### 8. Major maternal medical complications, including:

Persistent vegetative state

Cardiac arrest

Cerebrovascular accident

Adult respiratory distress syndrome

Disseminated intravascular coagulopathy

Pulmonary oedema

Mendleson's syndrome

Renal failure

Thrombotic event

Septicaemia

Required ventilation

### 9. Fetal/infant complications, including:

Respiratory distress syndrome

Intraventricular haemorrhage

Necrotising enterocolitis

Neonatal encephalopathy

Chronic lung disease

Severe jaundice requiring phototherapy

Severe infection e.g. septicaemia, meningitis

Exchange transfusion