ID Number:



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

Royal College of Obstetricians and Gynaecologists **Case reported in:**



Instructions

1.	Please do not enter any personally identifiable information (e.g. name, address or hospital		
0	number) on this form.		
Ζ.	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.		
Sect	ion 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?		
	If Yes, what is her occupation		
	If No, what is her partner's (if any) occupation		
1.5			
1.5 1.6	If No, what is her partner's (if any) occupation		
	If No, what is her partner's (if any) occupation Height at booking (cm)		
1.6	If No, what is her partner's (if any) occupation Height at booking (cm) Weight at booking (kg)		
1.6 1.7	If No, what is her partner's (if any) occupation Height at booking (cm) Weight at booking (kg) Smoking status never gave up prior to pregnancy current gave up during pregnancy		
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Sect	ion 3: Previous Medical History		_	_
3.1	Previous or pre-existing medical problem ^{3*}		Yes	No 🗌
	If Yes, please specify			
3.2	Previous surgical procedures under general anaesthes	sia	Yes 🗌	No 🗌
	If Yes, was there	_		_
	Documented difficult intubation Failed intuba	ation 📋	None docume	nted
3.3	Predictors of difficult intubation. Please record the follo	owing or		
	documented.	_	Not docu	mented
	Mallampati score4*			
	Inter-incisor gap	ci	ms	
	Able to protrude lower incisors beyond upper incisors?	Yes 🗌	No 🗌	
	Cervical spine abnormality	Yes 🗌	No 🗌	
	If Yes, please specify			
	Other [
	If Other, please specify			
Sect	tion 4: This Pregnancy			
4.1	Final Estimated Date of Delivery (EDD) ^{5*}			/ 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? ^{2*}		Yes 🗌	No 🗌
	If Yes, please specify			
	ion 5: Delivery / Surgical / Anaesthetic interventi	ion		
5.1	Is this woman still undelivered?		Yes 🗌	
	If No, Did the woman labour?		Yes	No 🔄
•	Was delivery by c-section?		Yes	No 🔄
	If Yes, please state grade of urgency ^{6*}			
	And give indication for c-section			
	If Yes, what was the date of the anaesthetic when intubat	tion failed	? DD/MM	/ Y Y
	Will she be delivered at your hospital?		Yes 🗌	No 🗌
	If No, please indicate name of delivery hospital			
5.2	Was the anaesthetic when intubation failed, given for c	aesarea		
	section?		Yes	No 🔄
	If No, for what surgical procedure was the general anaest	thetic give	en?	

Please indicate which anaestheti	sts were present at	any point	during the pro	cedure
Grade	Years in training (trainee)	Locum Y/N	Present on in of anaesthes	
Indication for general anaesthes	ia			
Urgency Patient refu	sal of regional 🗌	Co	agulation abnor	mality 🗌
Failed or inade If Other, please specify	quate regional			Other
Was antacid prophylaxis against			-	urs (eg
metoclopramide, H2 antagonist,	proton pump inhib	itor, sodiu		
			Yes _	No 🗌
Please state drug, dose and time o	of administration. Coi	ntinue in se	ection / if neces Dose	sary. Time
			h	h:mm
			h	24hr
			h	24hr h m m
			h	24hr h : m m
Time of induction of general ana	esthesia		h	h m m
Was cricoid pressure applied at	induction?		Yes	No
Was it released to assist airway	insertion?		Yes [No 🗌
Please list all drugs given for inc	luction, with doses	, in order.	Include repeat	ed
doses. (Continue in section 7 if ne	cessary)			
Drug	Dose	Intu	bation success	ful?
		_ ,	Yes 🗌 No 🗌]
			Yes 🗌 No 🗌]
			Yes 🗌 No 🗌]
			Yes 🗍 No 🦵	1
Cormack-Lehane laryngoscopy	g rade ⁷ * (Best view a	t the time		-
intubation failure was declared)				
How many attempts at laryngoso	copy were made? T	his is the r	number	
of times the laryngoscope was inse				
How many attempts at intubation		is the num	ber of	
times the tracheal tube was inserte				

5.13	Which tracheal	tube size was	s used at the fire	st 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 airway equipment were used, and in which order (mark 1,2,3 etc). In the second column please indicate if the item was unavailable.

		Order of Use (mark 1,2,3 etc)	Unavailable (please tick if yes)	
	Suction			
	Nasopharyngeal airway			
	Oropharyngeal airway			
	Gum Elastic Bougie			
	Laryngeal mask airway (LMA)			
	Intubating LMA			
	ProSeal LMA			
	Short handled Macintosh laryngoscope			
	Long blade Macintosh laryngoscope			
	McCoy laryngoscope			
	Polio Blade laryngoscope			
	Fibreoptic bronchoscope			
	Percutaneous cricothyroidotomy kit			
	Other – please state below			
5.16	Was bag and mask ventilation commence	ed?	Yes 🗌	No 🗌
	If Yes, did oxygenation improve?		Yes 🗌	No 🗌
5.17	Was capnography used during induction	/maintenance of a	naesthesia?	
			Yes 🗌	No 🗌
5.18	What was the oxygen saturation before p	ore-oxygenation?		%
5.19	What was the lowest recorded oxygen sa	turation after indu	iction?	%
5.20	How was the failed intubation managed?			
	Surgery continued with alternative airway	device	Yes 🗌	No 🗌
	If Yes, please state which			
	Patient woken and surgery abandoned?		Yes 🗌	No 🗌
	If Yes, how was the case subsequently	managed?		
	General anaesthetic administered by anot	her anaesthetist	Yes 🗌	No 🗌
	•	กษา สกุลธิงเกิดแจเ		
	If Yes, grade of anaesthetist			
	Regional technique?		Yes	
	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	Ir? ^{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 in the form (before filling it in) and attach extra the website: www.npeu.ox.ac.uk/ukoss	
6b.1 Date and time of delivery	DD/MM/YY hh:mm
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 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?	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.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	
What was the primary cause of death as stated on the death c	ertificate?
(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:

- 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 II: soft palate, fauces, portion of uvu 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 I: 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