



PERINATAL DEATH NOTIFICATION FORM 2019

CHOOSE Type of Case (*TICK*)

- STILLBIRTH:** *A baby delivered without signs of life from 24 weeks' gestation and/or with a birth weight of \geq 500g.*

**If the birth occurred unattended and there was no lung aeration seen at Post Mortem (PM) and no other circumstantial evidence of life at birth, it should be assumed that the baby was stillborn.*

OR

- EARLY NEONATAL DEATH:** *Death of a live born baby occurring before 7 completed days after birth.*

OR

- LATE NEONATAL DEATH:** *Death of a live born baby occurring from the 7th day and before 28 completed days after birth.*

* For the purpose of reporting, a 'live born' baby is defined as any baby born with evidence of life such as breathing movements, presence of a heart beat, pulsation of the cord or definite movement of voluntary muscles.

If a baby born at <22 completed weeks is being registered as a neonatal death, please report same to NPEC.

The National Perinatal Epidemiology Centre is sincerely grateful for your contribution to this audit.

Guidance for completing this form, with specific reference to Sections 11, 12 and 13 on Cause of Death, is outlined in the accompanying reference manual.

The National Perinatal Epidemiology Centre also acknowledges with thanks the Centre for Maternal and Child Enquiry (CMACE) UK for permission to modify and use its Perinatal Mortality Notification Proforma for use in the Irish context.

SECTION 1. WOMANS' DETAILS

1.1. Mother's age

1.2. Ethnic group:

- White - Irish Irish Traveller
 Any other White background Please specify country of origin _____
 Asian or Asian Irish Black or Black Irish
 Other including mixed ethnic backgrounds: Please specify _____
 Not recorded

1.3. Marital status: Married Never married Separated/Divorced Widowed Unknown

1.4. Living with partner / spouse? Yes No Unknown

1.5. Woman's employment status at booking?

- Employed or self-employed (full or part time) Unemployed (looking for work)
 Student Home maker Permanently sick/disabled
 Other _____ Unknown

1.7. Height at booking (round up to the nearest cm):

1.8. Weight at booking (round up to the nearest kg):

If weight is unavailable, was there evidence that the woman was too heavy for hospital scales? Yes No

1.9. Body Mass Index at booking (BMI): .

1.10.a. Did the woman smoke at booking? Yes, specify quantity smoked per day _____

No Unknown

1.10.b. Did she give up smoking during pregnancy? Yes No Unknown N/A

1.11. Is there documented history of alcohol abuse?

- None recorded Prior to this pregnancy During this pregnancy

1.12. Is there documented history of drug abuse or attendance at a drug rehabilitation unit?

- None recorded Prior to this pregnancy During this pregnancy

SECTION 2. PREVIOUS PREGNANCIES

2.1. Did the woman have any previous pregnancies? *If yes, please complete questions 2.2-2.4* Yes No

2.2. No. of completed pregnancies ≥ 24 weeks and or with a birth weight $\geq 500\text{g}$ (all live and stillbirths):

2.3. No. of pregnancies < 24 weeks and with a birth weight $< 500\text{g}$:

2.4. Were there any previous pregnancy problems? *If yes, please tick all that apply below* Yes No

- | | | |
|---|---|--|
| <input type="checkbox"/> Three or more miscarriages | <input type="checkbox"/> Pre-term birth or mid trimester loss | <input type="checkbox"/> Stillbirth, <i>please specify number</i> <input type="checkbox"/> |
| <input type="checkbox"/> Infant requiring intensive care | <input type="checkbox"/> Baby with congenital anomaly | <input type="checkbox"/> Neonatal death, <i>please specify number</i> <input type="checkbox"/> |
| <input type="checkbox"/> Previous caesarean section | <input type="checkbox"/> Placenta praevia | <input type="checkbox"/> Placental abruption |
| <input type="checkbox"/> Pre-eclampsia (hypertension & proteinuria) | | <input type="checkbox"/> Post-partum haemorrhage requiring transfusion |
| <input type="checkbox"/> Other, please specify _____ | | <input type="checkbox"/> Unknown |

SECTION 3. PREVIOUS MEDICAL HISTORY

3.1. Were there any pre-existing medical problems? *If yes, please tick all that apply below* Yes No Unknown

- | | |
|---|--|
| <input type="checkbox"/> Cardiac disease (congenital or acquired) | <input type="checkbox"/> Epilepsy |
| <input type="checkbox"/> Endocrine disorders e.g. hypo or hyperthyroidism | <input type="checkbox"/> Renal disease |
| <input type="checkbox"/> Haematological disorders e.g. sickle cell disease | <input type="checkbox"/> Psychiatric disorders |
| <input type="checkbox"/> Inflammatory disorders e.g. inflammatory bowel disease | <input type="checkbox"/> Hypertension |
| <input type="checkbox"/> Diabetes | <input type="checkbox"/> Other, please specify _____ |

SECTION 4. THIS PREGNANCY

4.1. Final Estimated Date of Delivery (EDD): // Unknown

Use best estimate (*ultrasound scan or date of last menstrual period*) based on a 40 week gestation, or the final date agreed in the notes.

4.2. Was this a multiple pregnancy at the onset of pregnancy? Yes No

4.3. Was this pregnancy a result of infertility treatment? Yes No Unknown

If yes, please specify method of fertility treatment _____

4.4. Gestation at first booking appointment: weeks + days Not booked Unknown

4.5. Intended place of delivery at booking: Name of unit _____

Please specify the type of unit

- | | | | |
|---|---|-------------------------------|-----------------------------------|
| <input type="checkbox"/> Obstetric Unit | <input type="checkbox"/> Alongside Midwifery Unit | <input type="checkbox"/> Home | <input type="checkbox"/> Unbooked |
|---|---|-------------------------------|-----------------------------------|

4.6. What was the intended type of delivery care at booking?

- | | | |
|--|---|--|
| <input type="checkbox"/> Obstetric-Led Care | <input type="checkbox"/> Midwifery-Led Care | <input type="checkbox"/> Self-Employed Community Midwife |
| <input type="checkbox"/> Home c/o Hospital DOMINO Scheme | | |

4.7a Was the care of the mother transferred from another unit with the fetus in utero? Yes No

If yes please answer question 4.7 b

4.7b Gestation at time of in-utero transfer: weeks + days Unknown

4.8 a Did the woman undergo an anatomy scan? Yes No

If yes please answer question 4.8 b

4.8 b Gestation at time of anatomy scan: weeks + days

SECTION 5. DELIVERY

5.1. Onset of labour:

Spontaneous Induced Never in labour

5.2. Intended place of delivery at onset of labour: Name of unit _____

Please specify the type of unit

Obstetric Unit Alongside Midwifery Unit Home

5.3. What was the intended type of care at onset of labour?

Obstetric-Led Care Midwifery-Led Care Self-Employed Community Midwife

Home c/o Hospital DOMINO Scheme

5.4. Was the intended mode of delivery a planned caesarean section? Yes No

5.5. Place of delivery: Name of unit _____

Please specify the type of unit

Obstetric Unit Alongside Midwifery Unit Other, please specify _____

5.6. What was the type of care at delivery?

Obstetric-Led Care Midwifery -Led Care Born Before Arrival (BBA) - Unattended

Self-Employed Community Midwife Home c/o Hospital DOMINO Scheme

5.7. Date and time of delivery/birth: Date: // Time: :

5.8. What was the lie of the fetus at delivery?

Longitudinal Oblique Transverse

5.9. What was the presentation at delivery?

Vertex Breech Compound (*includes transverse and shoulder presentations*) Brow Face

5.10. What was the mode of delivery? (Please tick all that apply)

Vaginal cephalic delivery Ventouse Forceps Assisted Breech delivery

Vaginal Breech delivery Pre-Labour Caesarean Section Caesarean Section After Onset of Labour

CAESAREAN SECTIONS ONLY

5.11. What was the type of or indication for Caesarean Section?

- Elective - At a time to suit woman or maternity team Urgent - Maternal or fetal compromise which is not immediately life threatening
 Emergency - Immediate threat to life of woman or fetus Failed instrumental delivery

SECTION 6. ALL BABY OUTCOME

6.1. Sex of fetus/baby:

- Male Female Indeterminate

6.2. Number of fetuses/babies in this delivery: *(all identifiable including papyraceous)*

Birth order of this fetus/baby:

- Singleton
 Twin 1 Twin 2
 Triplet 1 Triplet 2 Triplet 3
 Other multiple birth pregnancy, please specify _____ Birth Order

6.3. If from a multiple delivery, what was the chorionicity? *Please tick all that apply*

- Dichorionic diamniotic Monochorionic diamniotic Monochorionic monoamniotic Trichorionic
 Singleton Not known

6.4. Birth weight (kg):

.

6.5. Gestation at delivery:

- weeks + days Unknown

6.6. Was this a termination of pregnancy?

- Yes No

Please refer to the reference manual

6.7. Was a local hospital review of this case undertaken?

- Yes No

Please refer to the reference manual

SECTION 7. MATERNAL OUTCOME

7.1. Admission to HDU:

- Yes No

7.2. Admission to ICU:

- Yes No

7.3. Maternal Death:

- Yes No

SECTION 8. STILLBIRTH (If not a stillbirth, please go to Section 9)

8.1. At what gestation was death confirmed to have occurred?

- weeks + days

If known, what date was death confirmed?

/ /

8.2. Was the baby alive at onset of care in labour?

- Yes No Never In Labour Unattended Unknown

SECTION 9. NEONATAL DEATH ONLY**9.1. Was spontaneous respiratory activity absent or ineffective at 5 minutes?** Yes No

If a baby is receiving any artificial ventilation at 5 minutes, the assumption is absent/ineffective activity: a 0 Apgar score indicates absent activity.

9.2. Was the heart rate persistently <100bpm? (i.e. heart rate never rose above 100bpm before death) Persistently <100bpm Rose above 100bpm**9.3. Was the baby offered *active resuscitation in the delivery room?** Yes No

(*active resuscitation includes BMV, PPV, intubation, cardiac massage)

9.4. Was the baby admitted to a neonatal unit? (Includes SCBU and ICU) Yes No**9.5a. Was the baby transferred to another unit after birth?** Yes No

If yes please answer 9.5 b

9.5 b. Date and Time of Transfer to other unit after birth:Date //Time :**9.6. Date and Time of Death:**Date //Time :**9.7. Place of Death*:** Labour Ward Neonatal Unit Ward Theatre In Transit Paediatric Centre Home

Name of unit: _____

*This question refers to where the baby actually died, e.g. 'ICU, 'at home' or 'in transit'.

Babies are deemed to have died 'at home' if there are no signs of life documented in the home even if resuscitation is attempted.

A baby is deemed to have died 'in transit' if signs of life are documented prior to transfer but the baby was either declared dead on arrival to the hospital or showed no subsequent signs of life in the hospital, despite attempted resuscitation..

SECTION 10. POST-MORTEM INVESTIGATIONS**10.1. Was this a coroner's case? *If yes, please complete question 10.2.*** Yes No**10.2. Has the post-mortem report been received from the coroner's office?** Yes No**10.4. Was a post-mortem performed?** Yes No

If no, please complete question 10.5.

10.5. Was a post-mortem offered? Yes No**10.6. Were any of the following procedures carried out after death?**

Please tick all that apply

 MRI X-Ray CT External Examination Genetic testing**10.7. Was the placenta sent for histology?** Yes No

SECTION 11. CAUSE OF DEATH AND ASSOCIATED FACTORS - STILLBIRTH & NEONATAL DEATH

11. Please TICK ALL the maternal or fetal conditions that were present during pregnancy or were associated with the death. PLEASE REFER TO THE REFERENCE MANUAL.

11.1.1. MAJOR CONGENITAL ANOMALY:

Central nervous system Cardiovascular system Respiratory system Gastro-intestinal system

Musculo-skeletal anomalies Multiple anomalies Urinary tract Metabolic diseases

Other major congenital anomaly, please specify _____

Chromosomal disorder*, please specify _____

*** In the event of a chromosomal disorder how was the diagnosis made?**

Clinically Genetic analysis * Ultrasound

**See reference manual*

11.1.1 (b) Was the diagnosis of major congenital anomaly confirmed/suspected before delivery by a Consultant Fetal

Medicine Specialist? No Yes, in your unit

Yes, in another unit, please specify name of unit _____

11.1.2. HYPERTENSIVE DISORDERS OF PREGNANCY:

Pregnancy induced hypertension Pre-eclampsia HELLP syndrome Eclampsia

11.1.3. ANTEPARTUM or INTRAPARTUM HAEMORRHAGE:

Praevia Abruption Other, please specify _____

11.1.4. MECHANICAL:

Cord compression: Prolapse cord Cord around neck Other cord entanglement or knot

Uterine rupture: Before labour During labour

Mal-presentation: Breech Face Compound

Transverse Other, please specify _____

Shoulder dystocia:

11.1.5. MATERNAL DISORDER:

Pre-existing hypertensive disease Diabetes Other endocrine conditions (excluding diabetes)

Thrombophilias Obstetric cholestasis Uterine anomalies

Connective tissue disorders, please specify _____

Other, please specify _____

11.1.6. INFECTION: (confirmed by microbiology/placental histology)

Maternal infection: Bacterial Syphilis Viral diseases

Protozoal Group B Streptococcus

Other, please specify organism _____

Ascending infection:

Chorioamnionitis Other, please specify _____

11.1.7. SPECIFIC FETAL CONDITIONS:

Twin-twin transfusion Feto-maternal haemorrhage Non-immune hydrops Iso-immunisation

Other, please specify _____

11.1.8. SPECIFIC PLACENTAL CONDITIONS:

PLEASE NOTE THERE IS NO REQUIREMENT TO COMPLETE THIS SECTION SHOULD YOU WISH TO SUMIT AN ANONYMISED COPY OF THE PLACENTAL HISTOLOGY REPORT AS AN ATTACHMENT TO THIS FORM.

Please refer to the reference manual, page 10, for guidance on completing this section.

No abnormal histology reported

Chorioamnionitis → Mild Moderate Severe

Fetal vasculitis → Arterial Venous Both

Maternal vascular malperfusion (uteroplacental insufficiency)

Please specify pathology:

Distal villous hypoplasia

Placental hypoplasia

Accelerated villous maturation

Ischaemic villous crowding

Placental infarction → Please specify approximate percentage involved _____

Retroplacental haemorrhage → Please specify approximate percentage of maternal surface involved _____

Fetal vascular malperfusion:

Please specify pathology

Patchy hypoperfusion

Scattered avascular villi

Thrombosis in fetal circulation

Fetal thrombotic vasculopathy

Cord pathology as sole finding

Please specify pathology

Hypercoiled cord

Hypocoiled cord

Meconium associated vascular necrosis

Vasa praevia

Velamentous cord

Other, please specify _____

Cord pathology associated with distal disease

please specify associated distal disease:

Delayed villous maturation

Thrombosis in fetal circulation

Delayed Villous maturation defect (distal villous immaturity/ delayed villous maturation)

Villitis → Low grade High grade With stem vessel obliteration

Other, please specify _____

11.1.9. INTRA-UTERINE GROWTH RESTRICTION DIAGNOSIS MADE: YES

What was this based on? *Please tick all that apply*

- Suspected antenatally Observed at delivery Observed at post-mortem

11.1.10. ASSOCIATED OBSTETRIC FACTORS: *Please tick all that apply*

- Birth trauma** Intracranial haemorrhage Subgaleal haematoma
 Fracture, please specify _____
 Other, please specify _____

Intrapartum fetal blood sample result < 7.25 Yes No

- Polyhydramnios Oligohydramnios Premature rupture of membranes

- Prolonged rupture of membranes (> 24hours) Amniocentesis

- Spontaneous premature labour Other, please specify _____

11.1.11. WERE THERE ANY ANTECEDENT OR ASSOCIATED OBSTETRIC FACTORS PRESENT? YES NO

11.1.12. UNCLASSIFIED: *Please use this category as sparingly as possible*

SECTION 12. MAIN CAUSE OF DEATH: STILL BIRTH & NEONATAL DEATHS

12.1. Which condition, indicated in Section 11 as being present, was the MAIN condition or sentinel event causing or associated with the death. *Please refer to the post-mortem and placental histology reports.*

(NB "non-MAIN" conditions are best described as the "Other clinically relevant maternal or fetal conditions/ factors that were associated with but not necessarily causing the death").

12.2. Sources of information used to determine cause of death?

Please tick all that apply

- Post Mortem Placental Histology Other, please specify _____

SECTION 13. NEONATAL DEATH ONLY: NEONATAL CONDITIONS ASSOCIATED WITH THE DEATH

13.1. Please TICK ALL the neonatal conditions causing and associated with the death.
PLEASE REFER TO THE REFERENCE MANUAL.

13.1.1. MAJOR CONGENITAL ANOMALY:

- Central nervous system Cardiovascular system Respiratory system Gastro-intestinal system
- Musculo-skeletal anomalies Multiple anomalies Urinary tract Metabolic diseases
- Other major malformation, please specify _____
- Chromosomal disorder*, please specify _____

*** In the event of a chromosomal disorder how was the diagnosis made?**

- Clinically Genetic analysis * Ultrasound

**See reference manual*

13.1.1 (b) Was the diagnosis of major congenital anomaly confirmed/suspected before delivery by a Consultant Fetal Medicine Specialist?

- No Yes, in your unit
- Yes, in another unit, please specify name of unit _____

13.1.2. PRE-VIABLE: (less than 22 weeks)

13.1.3. RESPIRATORY DISORDERS:

- Severe pulmonary immaturity Surfactant deficiency lung disease Pulmonary hypoplasia Meconium aspiration syndrome
- Primary persistent pulm. hypertension Chronic lung disease / Bronchopulmonary dysplasia (BPD)
- Other (includes pulmonary haemorrhage), please specify _____

13.1.4. GASTRO-INTESTINAL DISEASE:

- Necrotising enterocolitis (NEC) Other, please specify _____

13.1.5. NEUROLOGICAL DISORDER:

- Hypoxic-ischaemic encephalopathy (HIE)
- *Intraventricular / Periventricular haemorrhage, please specify highest grade (0 – 4) *
- Hydrocephalus*, please tick all that apply:
 - * Congenital Acquired Communicating Obstructive Other _____
- Other, please specify _____

13.1.6. INFECTION:

- Generalised (sepsis) Pneumonia Meningitis Please specify specific organism _____
- Other, specify _____

13.1.7. INJURY / TRAUMA: (Postnatal)

Please specify _____

13.1.8. OTHER SPECIFIC CAUSES:

Malignancies / Tumours In-born errors of metabolism, please specify _____

Specific conditions, please specify _____

13.1.9. SUDDEN UNEXPECTED DEATHS:

Sudden Infant Death Syndrome (SIDS) Infant death – Cause unascertained

13.1.10. UNCLASSIFIED: (Use this category as sparingly as possible)

13.2. Which condition, indicated in Section 13.1 as being present, was the MAIN condition causing or associated with the death. Please refer to the post-mortem report. In the absence of a post-mortem report, please refer to the death certificate.

(NB "non-MAIN" conditions are best described as the "Other clinically relevant maternal or fetal conditions/ factors that were associated with but not necessarily causing the death").

13.3. Sources of information used to determine cause of death?

Please tick all that apply

Post Mortem Placental Histology Other, please specify _____

SECTION 14. DETAILS OF REPORTING UNIT (Please print)

14.1. Name of reporting unit: _____

14.2. Completed by

Name: _____

Staff Grade: _____

Work address: _____

Telephone Number: _____ **E-mail Address:** _____

Date of Notification: / /

Thank you very much for taking the time to complete this form

Please return all completed forms to:

**Ms Edel Manning, Project manager perinatal mortality audit,
National Perinatal Epidemiology Centre
Department of Obstetrics and Gynaecology
5th Floor
Cork University Maternity Hospital
Wilton
Cork**

If you have any queries regarding the Perinatal Death Notification Form, please contact us at the National Perinatal Epidemiology Centre

**Tel: (0)21 420 5042
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