

Ethnicity (select all that apply)

- New Zealand European
- Māori
- Samoan
- Cook Island Māori
- Tongan
- Niuean
- Chinese
- Indian
- Other (please state)

What is the country of birth?

- New Zealand
- Australia
- England
- China
- India
- South Africa
- Samoa
- Cook Islands
- Other (please state)

Source of ethnicity information (select all that apply)

- Woman
- Family/whānau
- DHB patient registration form
- Other (please state)
- LMC notes
- Clinical notes
- NHI details

Maternal height: ____ cm

Maternal weight ____ kg (earliest measured in pregnancy)

(If not available, please measure height and weight.)

Obstetric history

Previous pregnancies (Do not include index pregnancy in parity. Multiple births are counted as one.)

Gravidity ____ Parity: ____ Unknown

Please complete for each pregnancy. See footnotes for codes for each section.

Date of delivery	Place of birth	Gestation (weeks)	Pregnancy outcome ¹	Delivery method ²	Birth weight	SGA <10 th centile	Complications ³

¹Pregnancy outcome: LB, live born; SM, spontaneous miscarriage; TOP, termination of pregnancy; E, ectopic pregnancy; SB, stillbirth; END, early neonatal death (<7 days age); LND, late neonatal death (7–27 days); CYD, Child and Youth Death (28 days–24 years); U, unknown.

²Delivery method: NVD, normal vaginal delivery; OV, operative vaginal delivery; VB, vaginal breech; CS, Caesarean section; U, unknown.

³Complications: NIL, no complications; HE, hyperemesis; APH, ante partum haemorrhage/abruption; CxS, cervical stitch; GDM, gestational diabetes; PET, pre-eclampsia; Other, please comment in summary section; U, unknown.

All the following questions relate to this pregnancy

Has the mother experienced family violence during this pregnancy?

- No
- Not asked
- Unknown
- Yes

If yes, was she offered referral to relevant support services?

- Yes
- Yes, but declined
- No
- Unknown

Does the mother have a history of infertility for >12 months before this pregnancy?

- Yes
- No
- Unknown

Fertility treatment for this pregnancy (select all that apply)

- Artificial insemination – donor
- Artificial insemination – husband/partner
- Clomiphene citrate
- Follicle-stimulating hormone
- Intra-cytoplasmic sperm injection
- In vitro fertilisation (number of embryos transferred: _____)
- Surgery to increase fertility
- Insulin sensitisers, eg, metformin
- Letrozole
- Other (please state)

Was treatment in New Zealand?

- Yes
- No
- Unknown

If overseas, where:

Intended place of birth

- Home
- Birthing unit
- Hospital level 1
- Hospital level 2
- Hospital level 3
- Other
- Unknown
- Not registered
- Name of place/unit/hospital
-

Actual place of birth

- Home
- Birthing unit
- Hospital level 1
- Hospital level 2
- Hospital level 3
- Other
- Unknown
- Fetus still in utero
- Name of unit/hospital
-

If the intended place of birth was different to the actual place of birth, when was the mother transferred to the actual place of birth?

- Before labour In labour Unknown

Lead maternity carer

Please select the mother's lead maternity carer (LMC) at time of first registration and at birth (select one in each column)¹

	LMC at booking	LMC at birth
Not registered	<input type="checkbox"/>	<input type="checkbox"/>
Self-employed midwife	<input type="checkbox"/>	<input type="checkbox"/>
DHB care	<input type="checkbox"/>	<input type="checkbox"/>
General practitioner	<input type="checkbox"/>	<input type="checkbox"/>
Obstetrician (private)	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>

Please indicate who was clinically responsible for the woman's care at the time of the birth (select one)

- No care
 Self-employed midwife
 DHB care
 General practitioner
 Obstetrician (private)
 Unknown

If clinical responsibility is different to 'LMC at booking, when did this transfer of clinical responsibility occur?

- Antenatal Intrapartum

Antenatal procedures (select all that apply)

- Scan at ≤ 22 weeks gestation (how many scans: _____)
 1st trimester screening (MSS1)
 2nd trimester screening (MSS2)
 Anatomy scan: gestation of first anatomy scan: _____ weeks _____ days
gestation of second anatomy scan: _____ weeks _____ days
 Chorionic villus sampling
 Cervical suture
 Amniocentesis
 Doppler studies
 Growth scan
 External cephalic version *(list continues over page)*

¹ For 'LMC at booking' to be different to 'LMC at birth', a new registration must have been completed.

- Fetocide
- Amnioreduction
- Fetoscopic laser treatment
- Traditional massage
- Other (please state)
- No antenatal procedures
- Unknown

Smoking

Smoking at first registration with an LMC (cigarettes)

- Yes
- No
- Unknown

Smoking status at birth (cigarettes)

- Never smoked
- Current non-smoker
 - Stopped before this pregnancy
 - Stopped <16 weeks gestation
 - Stopped ≥16 weeks gestation
 - Previous status unknown
- Current smoker
 - How many cigarettes per day: _____
 - Unknown
- Smoking status unknown

Smoking cessation support

- No
- Yes – by LMC/clinician only
- Yes – referred to external agent
- Offered but declined
- Unknown

Maternal use of alcohol and other drugs

- Yes (please complete the section below)
- No
- Unknown

	During first trimester	Month before birth	Describe (list continues over page)
Alcohol	<input type="checkbox"/>	<input type="checkbox"/>
Amphetamine/P	<input type="checkbox"/>	<input type="checkbox"/>
Cocaine	<input type="checkbox"/>	<input type="checkbox"/>
Ecstasy	<input type="checkbox"/>	<input type="checkbox"/>
Hallucinogens	<input type="checkbox"/>	<input type="checkbox"/>
Herbal highs	<input type="checkbox"/>	<input type="checkbox"/>
Synthetic cannabis	<input type="checkbox"/>	<input type="checkbox"/>

Marijuana
 Opiates
 Methadone
 Petrol/paint/glue
 Other (please state)

Antenatal visits before fetal death/or delivery

Total number of visits from antenatal record: _____ Unknown
 Gestation at first antenatal visit with LMC: _____ weeks Unknown
 Gestation at first antenatal visit with any health provider: _____ weeks Unknown

Mother's clinical history (including any diagnoses made in this pregnancy; please answer all questions; list continues over page)

Asthma Yes No Unknown
 Diabetes Yes No Unknown
 Type 1 diabetes
 Type 2 diabetes
 Impaired glucose tolerance
 Epilepsy Yes No Unknown
 Heart condition Yes No Unknown
 Congenital heart condition
 Rheumatic heart disease
 Coronary artery disease
 Other cardiac condition (please state)
 Thyroid abnormality Yes No Unknown
 Hypothyroidism
 Hyperthyroidism
 Other (please state)
 Inflammatory bowel disease Yes No Unknown
 Systemic lupus erythematosus Yes No Unknown
 Other autoimmune disorder Yes No Unknown
 Mental health disorder Yes No Unknown
 Depression
 Psychotic disorder
 Other (please state)
 Renal disease Yes No Unknown
 Venous thromboembolism Yes No Unknown

Blood disorder Yes No Unknown
 Anaemia
 Thalassaemia trait
 Thrombophilia
 Other (please state)

Hypertension Yes No Unknown
 Chronic/essential hypertension
 Secondary hypertension

Cervical surgery Yes No Unknown

Urinary tract infection Yes No Unknown

Uterine abnormality Yes No Unknown

Uterine surgery Yes No Unknown

Other (please state)

Diabetes in pregnancy

Was the mother screened for diabetes in pregnancy Yes No Unknown Declined

Gestational diabetes confirmed Yes No Unknown

Laboratory results

HbA1c at booking _____ mmol/mol Date ___/___/___

HbA1c at ≥20 weeks (record highest result) _____ mmol/mol Date ___/___/___

Polycose (record highest result) ____ . ____ mmol/L Date ___/___/___

Glucose tolerance test (record highest result)
 Fasting ____ . ____ mmol/L 2 hr ____ . ____ mmol/L Date ___/___/___

Was this a multiple pregnancy?

Yes No Unknown

Number of fetuses/babies at first ultrasound in pregnancy: _____

Total number of babies born in this delivery, including stillbirths: _____

Was a fetal reduction performed?

Yes (please describe):

No

Unknown

Select the type of multiple:

- Dichorionic diamniotic
- Monochorionic diamniotic
- Monoamniotic
- Other multiple – please describe chorionicity
- Unknown

Please write the NHI of all fetuses/babies

First NHI

Second NHI.....

More than two (please add all NHI):.....

.....

Was there any vaginal bleeding related to this pregnancy? (Please complete both)

Before 20 weeks Yes No Unknown

After 20 weeks Yes No Unknown

Did the mother have any of these obstetric conditions in this pregnancy? (Select all that apply)

Hypertension Yes No Unknown

Gestational hypertension

Pre-eclampsia

Pre-eclampsia with chronic hypertension

Eclampsia

Chronic hypertension

Unspecified

Preterm labour Yes No Unknown

Prolonged rupture of membranes Yes No Unknown

Preterm rupture <37 weeks gestation

Term rupture ≥37 weeks gestation

Cholestasis of pregnancy Yes No Unknown

Confirmed maternal infection Yes No Unknown

Pyelonephritis

Lower urinary tract infection

Other infection:.....

Trauma Yes No Unknown

Vehicular

Violent personal injury or assault

Other, eg, falls:

Other obstetric condition Yes (please state)

No

Unknown

Surgery in pregnancy Yes (state type of surgery):

No

Unknown

Was fetal growth restriction suspected before fetal demise?

- No
- Yes, but no scan performed
- Yes, and confirmed by scan
- Yes, but normal growth on scan
- Unknown

Was a customised growth chart generated for this woman antenatally?

- Yes
- No
- Unknown

Was folic acid taken:

- Pre-pregnancy? Yes No Unknown
- In the first trimester? Yes No Unknown

Was there consultation with an obstetrician during pregnancy?

- Obstetrician was lead maternity carer No Unknown

Yes (choose reasons for obstetrician consultation below)

- Prolonged pregnancy (>41 weeks)
- Age of mother
- Breech
- Recurrent miscarriage
- Mother's request
- Stillbirth (this pregnancy)
- Previous stillbirth
- Suspected size of fetus large fetus small fetus
- Previous intrauterine growth restriction
- Previous Caesarean section
- Renal
- Cardiac
- Hypertension
- Prolonged rupture of membranes
- Cholestasis
- Other medical (please state)
- Surgery in pregnancy
- Significant infection
- Multiple pregnancy
- Antepartum haemorrhage
- Diabetes
- Unstable lie
- Fetal abnormality
- Raised BMI
- Other reason (please state)

Was the mother referred to any other healthcare services (apart from midwifery and obstetrics) during pregnancy?

- Yes No Unknown

- Medical (including MFM, non-obstetric specialists)
- Mental health
- Drug and alcohol
- Social
- Other service (please state)

Induction

- Yes No Unknown

Medication/method used

- Balloon PG gel 1 mg
- Cervidil PG gel 2 mg
- Misoprostol (dose: ____ mcg) PGE2 tablets
- Mifegyne Oxytocin
- Artificial rupture of membranes (time: __:__ 24-hr clock; date: __/__/__)
- Other (please state)

Reason for induction

- Post dates Intrauterine fetal death
- Pre-eclampsia Intrauterine growth restriction
- APH Fetal abnormality
- Diabetes Prolonged rupture of membranes
- Maternal request
- Other (please state)

Augmentation

- Yes No Unknown

Medication/method

- Artificial rupture of membranes (time: __:__ 24-hr clock; date: __/__/__)
- Oxytocin
- Other (please state)

Analgesia in labour

- Yes No Unknown

- Opiate
- Nitrous oxide
- Epidural
- TENS (transcutaneous electrical nerve stimulation)
- Unknown
- Other (please state)

Bath or pool during labour

- Did part of labour occur in bath/pool? Yes No Unknown
- Was the baby born in bath/pool? Yes No Unknown

Mode of birth (select one for each baby/fetus this pregnancy)

- | | First baby/
fetus | Second baby/
fetus |
|--|--------------------------|--------------------------|
| Normal vaginal delivery | <input type="checkbox"/> | <input type="checkbox"/> |
| Vaginal breech (also answer 'a') | <input type="checkbox"/> | <input type="checkbox"/> |
| Operative vaginal delivery (also answer 'b') | <input type="checkbox"/> | <input type="checkbox"/> |
| Caesarean section (also answer 'c') | <input type="checkbox"/> | <input type="checkbox"/> |
| Unknown/not stated | <input type="checkbox"/> | <input type="checkbox"/> |

- Were there more than two babies/fetuses? Yes No Unknown

^aBreech

- When was breech diagnosed? Before labour During labour
- Mode of delivery: Assisted Extraction Spontaneous

Was an anaesthetic administered?

- Yes No Unknown
- General
 - Spinal
 - Epidural
 - Local
 - Other (please state)

^bOperative vaginal delivery

Mode of delivery

- | | |
|---|--|
| <input type="checkbox"/> Forceps low | <input type="checkbox"/> Ventouse low |
| <input type="checkbox"/> Forceps mid-cavity | <input type="checkbox"/> Ventouse mid |
| <input type="checkbox"/> Forceps mid-cavity with rotation | <input type="checkbox"/> Ventouse mid-rotation |

Was an anaesthetic administered?

- Yes No Unknown
- General
 - Spinal
 - Epidural
 - Local
 - Other (please state)

Caesarean

Were forceps tried first?

- Forceps/ventouse attempted before Caesarean
- Forceps/ventouse not attempted before Caesarean

Type of Caesarean section

- Planned** – no labour
- Planned** – during labour
- Unplanned** – during labour
- Unplanned** – no labour

Was an anaesthetic administered?

- Yes
 - General
 - Spinal
 - Epidural
 - Local
 - Other (please state)
- No
- Unknown

Maternal outcome

- Alive and generally well
- Alive but with serious morbidity, eg, admitted to ICU, hysterectomy or stroke
- Dead** (Please add further details if morbidity or mortality has occurred)
 -
 -
 -
 -
 -

Placenta

Placenta weight: ___ gm Placenta not weighed Unknown

Placental examination

- Not examined
- Normal
- Some abnormalities (select all that apply)
 - Retroplacental clot
 - Gritty/calcified
 - Circumvallate placenta
 - Other (please state)

Umbilical cord examined?

- Yes No Unknown

Any problems with cord? (Select all that apply)

- True knot: tight knot loose knot
- Cord round neck: tight around loose around
- Cord round limbs or body: tight around loose around
- Torsion/spring-like cord (eg, hypercoiled)
- Marginal/velamentous insertion
- Abnormal cord thickness thin cord thick cord
- Meconium stained
- Tear in cord
- Two vessels
- Other abnormality (please state)

Summary

Please provide any other information you consider relevant or may have contributed to the outcome but that was not covered in these questions.

.....
.....
.....
.....
.....

Form completed by

Name:.....
Designation:.....
Phone.....
Email.....
Date.....

LMC name and address if different to clinician completing the form

Name:.....
Phone.....
Email.....
Date.....

Please courier the completed form to:

National Coordinator Perinatal and Maternal Mortality Review
Level 9, Accuro House, 17–21 Whitmore St, Wellington 6011

If you have questions, please contact your local Perinatal and Maternal Mortality Review coordinator

National Mortality Review Committee | Perinatal and Maternal Mortality Review

Rapid reporting form for a perinatal death – baby

Please use the *Guidelines for the completion of the mother and baby forms following a perinatal death March 2016 Version 10* to help you complete this form. You can obtain these guidelines from www.otago.ac.nz/pmmrc. Please contact your local coordinator for assistance with logging in.

Both the mother and the baby National Mortality Review Committee forms need to be completed by the lead maternity carer or other clinician for any baby who dies from 20 weeks gestation (ie, $\geq 20^0$, or **if gestation is unknown** a birth weight ≥ 400 g), including all terminations, to before 28 completed days of life (ie, up to midnight on the 27th day).

This baby form can be submitted electronically **after** you have submitted the mother form. If you are submitting written forms, please courier this and the mother form to the address at the end of the form.

Please complete within 48 hours of the baby's death if possible

Personally identifiable information (of the mother, baby or lead maternity carer) collected on this form will be kept confidential. The information included in reports by the National Mortality Review Committee is grouped and non-identifiable.

Place patient label here if available

Mother's NHI: Baby's NHI:

Mother's first name: Surname:.....

Mother's other name(s):.....

Baby's first name: Surname:.....

Baby's other name(s):.....

Baby's sex: Male Female Indeterminate Unknown

Baby's ethnicity (select all that apply)

- | | |
|---|--|
| <input type="checkbox"/> New Zealand European | <input type="checkbox"/> Māori |
| <input type="checkbox"/> Samoan | <input type="checkbox"/> Cook Island Māori |
| <input type="checkbox"/> Tongan | <input type="checkbox"/> Niuean |
| <input type="checkbox"/> Chinese | <input type="checkbox"/> Indian |
| <input type="checkbox"/> Other (please state) | |

Source of ethnicity information (select all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Parents | <input type="checkbox"/> LMC notes |
| <input type="checkbox"/> Family/whānau | <input type="checkbox"/> Clinical notes |
| <input type="checkbox"/> DHB patient registration form | <input type="checkbox"/> NHI details |
| <input type="checkbox"/> Other (please state) | |

Live or stillbirth (select one) Stillbirth Live birth Unknown

Was this birth the result of a termination of pregnancy?

- | | | |
|------------------------------|-----------------------------|----------------------------------|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Unknown |
|------------------------------|-----------------------------|----------------------------------|

Date of birth: / / Time of birth ___:___ hrs (use 24-hour clock)
 DD MM YYYY

Gestation at birth: ___ weeks ___ days Unknown

Best estimate of gestational age based on:

- | | |
|---|---|
| <input type="checkbox"/> Ultrasound in first trimester | <input type="checkbox"/> Ultrasound ≤20 weeks gestation |
| <input type="checkbox"/> Ultrasound >20 weeks gestation | <input type="checkbox"/> Last menstrual period |
| <input type="checkbox"/> Clinical examination at birth | |

Baby's birthweight: _____ g Unknown

If this was a multiple pregnancy, what was the birth order of the deceased fetus/baby?

- | | |
|---|---------------------------------|
| <input type="checkbox"/> First | <input type="checkbox"/> Second |
| <input type="checkbox"/> Other (please state) | |

When did death occur?

- | | |
|-------------------------------------|---|
| <input type="checkbox"/> Antepartum | <input type="checkbox"/> Intrapartum – first stage |
| <input type="checkbox"/> Neonatal | <input type="checkbox"/> Intrapartum – second stage |
| <input type="checkbox"/> Unknown | <input type="checkbox"/> Intrapartum – unknown |

If stillbirth, estimated gestational age at time of fetal death: ___ weeks ___ days Unknown

Place of death for live-born babies:

- Home Hospital (please also answer the next question)
 Other (please state)

Area of hospital where baby died

- Delivery suite Postnatal ward Neonatal unit
 Children's ward Operating theatre Antenatal ward
 Emergency department SCBU
 Other (please state)

Baby examination

Were any external abnormalities noted on external examination of the baby?

- No
 Yes (please state)
.....

Post-mortem examination

Was a post-mortem examination discussed or offered to parents/whānau?

- Yes No Unknown

If not, why not?
.....
.....

Was the pānui/information for whānau/families about post-mortem examination provided to the whānau? (Note: it is available in te reo Māori, Samoan, Hindi and Chinese at www.hqsc.govt.nz/resources/resource-library/panuiinformation-for-whanaufamilies-about-post-mortem-examination-brochure)

- Yes No Unknown

Who discussed or offered the post-mortem? (Select all that apply)

- Fetal medicine specialist Paediatric/neonatal SMO
 Perinatal pathologist Paediatric registrar
 Obstetric SMO Paediatric SHO
 Obstetric registrar Midwife LMC
 Obstetric SHO Midwife core
 Other (please state)

If a post-mortem was discussed or offered, was consent given?

- Unknown
- Yes: What type of post-mortem examination was consented to?
 - Full post-mortem Limited post-mortem External post-mortem
- No (describe the reasons why not)

Was the death referred to the coroner?

- Yes
- No
- Unknown

Did the coroner take jurisdiction?

- Yes
- No
- Unknown

If neonatal death, what was the date and time of death:

Date: / / Time: : hrs (use 24-hour clock)

DD MM YYYY

Apgar scores

- 1 minute
- 5 minutes..... (If the score for 5 minutes is <9, complete the next three)
- 10 minutes.....
- 15 minutes.....
- 20 minutes.....

Cord gases

<input type="checkbox"/> Not taken	Arterial	Venous
pH	<u> </u> . <u> </u> <u> </u>	<u> </u> . <u> </u> <u> </u>
Base deficit +/-	<u> </u> <u> </u> . <u> </u>	<u> </u> <u> </u> . <u> </u>
CO ₂	<u> </u> <u> </u> . <u> </u>	<u> </u> <u> </u> . <u> </u>
Lactate	<u> </u> <u> </u> . <u> </u>	<u> </u> <u> </u> . <u> </u>

Was the baby resuscitated at birth?

- Yes – resuscitated and transferred to another clinical area
- Yes – baby unable to be resuscitated
- No
- Unknown

Were maternal corticosteroids given antenatally?

- Yes, course started at gestation: weeks days
- No
- Unknown

Was the course of corticosteroids completed?

Yes

No

Unknown

Was the baby transferred from their place of birth before their death?

Unknown

Yes, the baby was transferred to:

Neonatal intensive care unit (NICU)/special care unit (SCU)

Special care baby unit (SCBU)

Postnatal ward

Home

Died in transfer

Tertiary services

Other (please state)

.....

No, the baby was not transferred because:

Died at place of birth

Died in birthing unit/theatre

Other (please state)

.....

Summary

Please provide any other information you consider relevant or that may have contributed to the outcome but was not covered in these questions.

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.....
.....
.....

Form completed by

Name:

Designation:

Phone:

Email:

Date

Please courier the completed form to:

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Level 9, Accuro House, 17–21 Whitmore St, Wellington 6011

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