



# Perinatal Morbidity and Mortality Policy

## 1. Background

Australian research suggests that one in every 10 patients suffers a complication of care during their hospital stay, with half of those complications being avoidable. While most complications will only have a minor impact on patients a minority end in permanent disability or death.

For the great majority, pregnancy and childbirth is a normal physiologic process and should be a positive and happy experience that culminates in a healthy mother and baby. This means, however, that on those occasions when things do go wrong, the effects can be even more devastating than in other areas of healthcare.

Maintaining maternal and neonatal safety in these circumstances depends on being vigilant for signs of deviation from normal and being prepared to take effective and prompt action when they are detected. However, because of their relative rarity, it may be some time before serious incidents become apparent when the overall local statistics seem unremarkable yet care may be suboptimal.

It is vital that any and all incidents of perinatal morbidity and mortality are properly reported and are transparently investigated in order to identify contributing care delivery problems, recommend actions to address these care delivery problems and prevent unnecessary recurrences.

The WA Health [MP 0098/18 WA Review of Death Policy and Procedure](#) outlines perinatal death review requirements for maternity sites in order to identify:

- a) potentially preventable deaths, and
- b) opportunities for improvement in the delivery of health services

WACHS further requires perinatal death review to ensure high quality, systematic investigation and audit of the likely cause/s of the death to reduce future risks and provide appropriate support to the parents / family

### Legislative requirements for perinatal deaths

The legislative requirements relating to birth registration, notification of death, coronial reporting, disposal of products of conception (including terminations of pregnancy) under 20 weeks and funeral /cremations for those over 20 weeks gestation are outlined in a table at **Appendix four**.

## 2. Policy Statement

This policy provides clinical governance assurance that all events resulting in perinatal morbidity or mortality (M & M) are subject to systematic review with central monitoring of patterns, trends and relevant care recommendations for dissemination and action across all maternity service providers.

Central monitoring of perinatal M & M case patterns and trends then dissemination of lessons and recommendations for care across maternity services will be undertaken by the WACHS Perinatal M & M Committee.

### 2.1 Outcomes – maternal, fetal and neonatal morbidity reviews

- Known complications still require case review by senior clinicians (not involved in the care) to determine whether there was preventable harm
- All cases of significant maternal or neonatal morbidity or mortality, as per the Stork generated monthly Maternal and Infant trigger reports are to be reviewed by the Midwifery manager and /or senior Obstetric doctor – see [Appendix 1](#).
- Where preventable harm is identified, anywhere across the care continuum, the case must be reported as a clinical incident.
- Findings from these case reviews are to be maintained in a local Perinatal M & M trigger review database for record keeping / audit purposes. The local database should be kept on a shared drive with access provided for relevant staff members.
- A template for both the Stork Maternal and Infant Trigger case reviews can be found in the supporting resources on HealthPoint with this policy. Managers should download the templates to their shared drive folder for use.

### 2.2 Outcomes – SAC1 incidents

- All perinatal SAC 1 incidents are to be reported and investigated as per WA Health [MP 0122/19 Clinical Incident Management Policy](#) and WACHS SAC 1 Business Rules see [Appendix 1](#)
- SAC 1 investigations should include:
  - at least one senior midwife and/or obstetric doctor from either another WACHS region central office or another WA public health service provider.
  - the maternity manager at that site provide they were not involved in the actual incident
- Maternity SAC 1 investigation reports will be tabled at the WACHS Perinatal M & M Committee meeting

### 2.3 Outcomes – perinatal death reviews

- All perinatal deaths will be subject to systematic local first and second line review as per the [WACHS Review of Death procedure](#) and classified in the WACHS Review of Death (ROD) app – see [Appendix 2](#). Perinatal Review of Death tool
- The second level review should be completed by the most senior midwifery position and lead Obstetric doctor (except where involved in the case)
- These reviews must incorporate care across the continuum (antenatal where records available, intrapartum and postnatal) and not just for the presenting admission
- Findings should be reported to the WACHS Perinatal M & M Committee for tabling and discussion at the next committee meeting

## 2.4 Conflict of opinion about cases or reporting

Where two clinicians, or Health Service Provider (HSP) staff including non-maternity staff, disagree as to:

- whether a case should be reported as a clinical incident, and/or the SAC classification of an incident
- The classification of a perinatal death or whether a death is a reportable death

then staff should follow the WACHS [Maternity Care Clinical Conflict Escalation Pathway](#)

If a staff member remains concerned after following the [Maternity Care Clinical Conflict Escalation Pathway](#) they can seek advice of the WACHS Central Office Clinical Leads for Obstetrics or Midwifery

## 2.5 Resources to support investigation /audit of perinatal deaths

The Perinatal Society of Australia and New Zealand (PSANZ) have a number of resources / tools to support the high quality and systematic investigation of the causes of perinatal deaths. These can be found here <https://sanda.psanz.com.au/clinical-practice/clinical-guidelines/> but of particular assistance is the:

- [The Australian Perinatal Mortality Audit tool](#)

## 2.6 Regional maternity care governance

Each region and site should be required to establish a maternity clinical governance committee (however titled), that meets regularly with a defined reporting structure, with representatives from:

- Each maternity site – midwifery and obstetric doctor
- Regional clinical leads for maternity
- Safety and quality
- Education

The maternity clinical governance committee (however titled) is accountable for oversight, actions, recommendations and escalation arising from the :

- WACHS Obstetric dashboard
- monthly Stork Maternal and Infant trigger case review findings
- Stork perinatal database routine reports
- Womens Health Australasia (WHA) Benchmarking Maternity Care reports
- ACHS Clinical Indicator Reports
- Health Round Table
- Local maternity related guidelines /pathways
- Regional maternity care clinical audit results
- First and second line review of perinatal deaths

## 3. Definitions

<b>Fetal death (stillbirth)</b>	Still born child means a child; a) of at least 20 weeks' gestation, <b>or</b>
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	<p>b) if it cannot be reliably established whether the child's period of gestation is more or less than 20 weeks, with a body mass of at least 400 grams at birth,</p> <p>that exhibits no sign of respiration or heartbeat, or other sign of life, immediately after birth.</p>
<b>Livebirth</b>	<p>Any child that exhibits any respiration or heartbeat, or other sign of life, immediately after birth (regardless of gestation).</p> <p><b>PLEASE NOTE:</b>  <i>The Coroner's Court of WA has confirmed that where a baby is born alive following a termination procedure and subsequently dies, this is a reportable death under the Coroners Act 1996</i></p>
<b>Maternal death</b>	<p>Where a woman dies as the result of pregnancy or childbirth and up to 42 days after birth (WA Health)</p> <p><b>NOTE:</b> <i>These deaths are reportable to the Chief Health Officer (CHO) for WA within 48 hours.</i></p> <p><i>Further information on how to make a notification and the information to be provided can be found at <a href="http://ww2.health.wa.gov.au/Articles/N_R/Notification-of-death-of-a-woman-as-a-result-of-pregnancy-or-childbirth">http://ww2.health.wa.gov.au/Articles/N_R/Notification-of-death-of-a-woman-as-a-result-of-pregnancy-or-childbirth</a></i></p>
<b>Miscarriage</b>	A fetal death occurring before 20 weeks of gestation
<b>Neonatal death</b>	<p>The death of a liveborn infant at any gestation that occurs within 28 days of that birth</p> <p><i>These births are registerable as a live birth and subsequent death</i></p>
<b>Perinatal</b>	From 20 completed weeks gestation to 28 completed days after birth (AIHW)
<p><b>Perinatal death</b></p> <p>See <b>Appendix three</b> for legal requirements</p>	<p>A fetal death (stillbirth) or neonatal death</p> <p><b>PLEASE NOTE:</b>  <i>The CHO must be notified whenever any child:</i></p> <ul style="list-style-type: none"> <li>• <i>of more than 20 weeks gestation is stillborn, or</i></li> <li>• <i>under the age of 1 year dies from any cause whatsoever.</i></li> </ul> <p><i>Further information on how to make a notification and the information to be provided can be found at <a href="http://ww2.health.wa.gov.au/Articles/N_R/Notification-of-perinatal-and-infant-deaths">http://ww2.health.wa.gov.au/Articles/N_R/Notification-of-perinatal-and-infant-deaths</a></i></p>
<b>Perinatal morbidity</b>	Maternal, fetal or neonatal medical conditions or complications arising during the perinatal period (AIHW)
<b>Perinatal mortality</b>	Maternal, fetal or neonatal death in the perinatal period
<b>Preventable harm</b>	Unintended physical or emotional patient harm resulting from an act or omission of health care

## 4. Roles and Responsibilities

**Regional Directors of Medicine / Nursing and Midwifery** are to establish and maintain a regional maternity clinical governance committee with clear reporting accountability lines.

**Midwives and Obstetric doctors** are to report clinical incidents as per the Perinatal M & M clinical incident and/or case review trigger list (see [Appendix 1](#)). Any staff member can report a clinical incident even where others disagree as to whether it is reportable.

### **Midwifery Manager / Senior Obstetric doctor to**

- To review all Stork Maternal and Infant Trigger report cases monthly to determine if any care delivery problems occurs and report the same as a clinical incident.
- Maternity managers are to create a shared folder (Perinatal M & M case reviews) to store the Stork Trigger report case review databases and all other routine Stork reports for the site (see templates in related documents on HealthPoint). The manager should ensure access to the shared folder for others who require it.
- Ensure first line review of all perinatal deaths occur
- Monitoring of all clinical indicator reports via Stork, Womens Health Australasia (WHA) [WHA Benchmarking maternity care reports and Inpatient activity and costing reports](#), the [WACHS Obstetric dashboard](#) and the WA Health Maternity SQUiS dataset.

### **Central Office Safety and Quality**

- Notify the PM&MC of completed Obstetric SAC1 investigation reports and maternity related CIMS data reports
- Provide a report of all ROD reviews conducted in the preceding two months to the PM&MC meeting

**Doctors and nurses in emergency departments and in general wards caring for pregnancy loss under 20 weeks** must familiarise themselves with the legislative requirements for these perinatal losses (see Table in [Appendix 4](#)).

**All Staff** are required to work within policies and guidelines to make sure that WACHS is a safe, equitable and positive place to be.

## 5. Compliance

Failure to comply with this policy document may constitute a breach of the WA Health Code of Conduct (Code). The Code is part of the Integrity Policy Framework issued pursuant to section 26 of the Health Services Act 2016 (HSA) and is binding on all WACHS staff which for this purpose includes trainees, students, volunteers, researchers, contractors for service (including all visiting health professionals and agency staff) and persons delivering training or education within WACHS.

## 6. Records Management

*Clinical:* [Health Record Management Policy](#)

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## 7. Evaluation

Evaluation of implementation of this policy is to be carried out by Regional Nursing and Midwifery Director and the Regional Medical Director 12 months post implementation.

Review of the functions of the PM&MC committee will be undertaken following the first 12 months of activity.

## 8. Standards

[National Safety and Quality Health Service Standards](#) (Second edition 2017) 1.1b/c, 1.7a, 1.27a, 6.1, 6, 11

## 9. Legislation

The statutory requirement to notify perinatal and infant mortality is specified in Sections 335 1, 5(a) and (c), and 336A of the *WA Health (Miscellaneous Provisions) Act 1911* (Part XIII). [https://ww2.health.wa.gov.au/Articles/N\\_R/Notification-of-perinatal-and-infant-deaths](https://ww2.health.wa.gov.au/Articles/N_R/Notification-of-perinatal-and-infant-deaths)

## 10. References

Perinatal Society of Australia and New Zealand (PSANZ) [PSANZ Clinical Guidelines for care around Stillbirth and Neonatal Death](#)

Douglas, N., et al. *Inquiry into Obstetric and Gynaecological Services at King Edward Memorial Hospital, 2001*  
[https://www.slp.wa.gov.au/publications/publications.nsf/DocByAgency/2DE36253839E4B1748256B280008DA15/\\$file/Volume+1+-+Complete.pdf](https://www.slp.wa.gov.au/publications/publications.nsf/DocByAgency/2DE36253839E4B1748256B280008DA15/$file/Volume+1+-+Complete.pdf)

Kirkup, D. (2015) [The Morecambe Bay Investigation](#) UK NHS report into serious incidents relating to maternity care

Duckett, S. et al. *Targeting Zero: Supporting the Victorian hospital system to eliminate avoidable harm and strengthen quality of care, Report of the Review of Hospital Safety and Quality Assurance in Victoria* <https://www2.health.vic.gov.au/hospitals-and-health-services/quality-safety-service/hospital-safety-and-quality-review>

Picone, D. and Pehm, K. (2015) *Review of the Department of Health and Human Services' management of a critical issue at Djerriwarrh Health Services*, Australian Commission on Safety and Quality in Health Care

Wallace, E. M. (2015) *Report of an Investigation into Perinatal Outcomes at Djerriwarrh Health Services*  
<https://www2.health.vic.gov.au/~media/Health/Files/Collections/Research%20and%20reports/E/DJERRIWARRH%20-%20WALLACE%20REPORT%20-%20EXECUTIVE%20SUMMARY>

Wilson, R. M., et al. (1999) 'An analysis of the causes of adverse events from the Quality in Australian Health Care Study'  
<https://www.mja.com.au/journal/1999/170/9/analysis-causes-adverse-events-quality-australian-health-care-study>

### 11. Related Policies

[MP0129/20 Release of Human Tissue and Explanted Medical Devices Policy](#)  
[MP 0122/19 Clinical Incident Management Policy](#)  
[MP 0098/18 WA Review of Death Policy and Procedure](#)  
[WACHS Review of Death procedure](#)

### 12. Policy Framework

[Clinical Governance, Safety and Quality](#)

**This document can be made available in alternative formats  
on request for a person with a disability**

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### Appendix 1: Perinatal M & M incidents requiring CIMS report

An event or circumstance resulting from health care provision (or lack thereof) which could have, or did lead to, unintended or unnecessary physical or psychological harm to a patient should be reported as a clinical incident into Datix CIMS. There are three Severity Assessment Codes:

- **SAC 1** = serious harm or death
- **SAC 2** = moderate harm
- **SAC 3** = minor or no harm

#### WA Health defined SAC 1 clinical Incidents:

1. Discharge or release of an infant to an unauthorised person or infant abduction
2. Incorrectly positioned oro/ naso-gastric tube resulting in serious harm or death
3. Maternal death or serious disability associated with pregnancy, birth and the puerperium (up to 42 days after the birth)
4. Delay in recognising or responding to clinical deterioration (*including CTG*)
5. Fetal complications associated with health care delivery
  - a. Unrelated to congenital abnormality (birth weight greater than 2500 grams) causing death, or serious and/or ongoing perinatal morbidity.
  - b. Complications, not anticipated yet arose, and not managed in an appropriate or timely manner, resulting in death, or serious and/or ongoing morbidity.
  - c. Intrapartum transfer to another facility for a higher care resulting in death, or serious and/or ongoing morbidity
  - d. complication of resuscitation
6. Hospital process issues contributing to serious harm or death:
  - a. triaging, assessment, planning or delivery of care e.g. miscommunication of test results, response to abnormal test results
  - b. Delay in transport or transfer
  - c. Misidentification of patients

**WACHS Stork Maternal and Infant trigger cases requiring clinical review.** (If the outcome is a result of health care provision, or lack thereof, the event should be reported in Datix CIMS)

1. Perinatal death not related to lethal congenital anomaly
2. Apgar score < 7 at 5 minutes or Cord blood pH less than 7.1
3. Neonatal trauma requiring extra observations e.g. Haematoma, brachial plexus injury, fractures
4. Unplanned birth at gestation below usual site threshold
5. Cord prolapse and vasa-praevia haemorrhage
6. Uterine rupture
7. Eclampsia
8. Pregnancy associated DVT or pulmonary embolus (up to 6 wks postnatal)
9. Peripartum hysterectomy (up to 6 wks)
10. Attempted operative vaginal birth outside of theatre leading to caesarean
11. Postpartum haemorrhage > 1500 ml **or** associated with transfusion
12. 4<sup>th</sup> degree tear
13. Postnatal return to theatre i.e. post-LUSCS or perineal repair
14. Maternal admission to HDU or ICU or requiring a special
15. Intrapartum or postnatal transfer to another maternity hospital for ongoing management
16. Bladder (including overdistension), bowel or blood vessel injury associated with birth
17. Incidents arising from baby co-sleeping (parent or carer)
18. Admission to SCN associated with water birth

Appendix 2: Perinatal Review of Death (ROD) tool

Case ID:	Region:	Death category:		
		AN	Labour	PN or Neonatal
<b>Perinatal death – triggers (Maternal, fetal, neonatal)</b> <i>Yes response indicates potential preventability</i>				
<b>Care delivery issues</b>				
Was there delay in diagnosis /assessment or transfer				
Was there delay in initiating Rx				
Was the information or communication provided inadequate, incorrect or misinterpreted				
Did care deviate from policy or guidelines				
Was there a complication due to Rx, procedure or operation				
Was there a medication error which may have contributed				
Was there failure to seek help / lack of supervision				
Were there any clinical risk factors that weren't identified or referred (i.e. Obstetric, medical, social, EPDS, substance misuse etc)				
Was there a failure to identify / follow up any abnormal test results (imaging, diagnostics or CTG etc)				
Was there failure to recognise deterioration or respond to deterioration appropriately				
Was there an adverse event and was it documented in the medical record				
<b>Staffing issues</b>				
Was no assistance available when required				
Was the skill mix inappropriate				
Was there inadequate staff for the activity demand				
Was there inadequate knowledge or skills				
Did a staff member fail to maintain their competence				
<b>Organisation issues</b>				
Was there misuse of, faulty or unavailable equipment				
Were there barriers to accessing or engaging in services required				
Was there inadequate training and education				
Was there lack of policy or guideline				
Was there inadequate system for information sharing between services				
Is the building design or functionality inadequate				
<b>Patient factors:</b>				
Was a parent co-sleeping with newborn				
Was there poor compliance with recommended care				
Were modifiable risk factors present – high BMI, smoking, alcohol /drugs, FDV etc				

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**Appendix 3: Perinatal death classification**

<b>Health Round Table criteria (for fetal deaths – also consider care preceding the death)</b>	
<b>Category 1</b>	<b>Anticipated death</b> due to a life limiting condition (anticipated by clinicians and family at the time)
<b>Category 2</b>	<b>Not unexpected death</b> which occurred despite the health service provider taking appropriate measures
<b>Category 3</b>	<b>Unexpected death</b> which was not reasonably preventable with appropriate intervention
<b>Category 4</b>	<b>Preventable death</b> where steps <b>may not</b> have been taken to prevent it
<b>Category 5</b>	<b>Avoidable death</b> resulting from health care intervention or omission
<b>Deaths classified as category 4 or 5 require SAC 1 reporting</b>	



### Appendix 4: Legislative requirements for all perinatal deaths (conception to 42 days post birth)

< 20 weeks OR < 400 grams if gestion uncertain	Termination of Pregnancy	Miscarriage – no signs of life at birth	Neonatal death (shows any signs of life – gasp / breath, heartbeat or movement)
	<ul style="list-style-type: none"> <li>Generic Consent for Procedure (MR295)</li> <li>Form 1 - Notification by Medical Practitioner of Induced Abortion</li> </ul> <p><b>IF BORN SHOWING ANY SIGNS OF LIFE:</b></p> <ul style="list-style-type: none"> <li>Birth Registration Form</li> <li>Death in Hospital Form</li> <li>Report to the Coroner</li> <li>Arrange external funeral director</li> </ul>	<ul style="list-style-type: none"> <li>Not registerable with Births Deaths and Marriages (BDM) but offer parents option to apply for Recognition of Early Pregnancy Loss certificate (BDM150)</li> <li>Consent for KEMH cremation (if requested by parents)</li> <li>Offer consent for pathology examination</li> </ul>	<ul style="list-style-type: none"> <li>Birth Registration form</li> <li>Death in hospital form (MR001)</li> <li>Medical Certification of Stillbirth or Neonatal Death (BDM 201)</li> <li>Offer consent for pathology examination</li> </ul>
<b>Fetal tissue disposal</b>	<ul style="list-style-type: none"> <li>Recognisable fetal tissue - send to pathology for disposal</li> <li>No recognisable fetal tissue – usual local process for human tissue disposal</li> </ul>		<ul style="list-style-type: none"> <li>External funeral director</li> </ul>
≥ 20 weeks OR ≥ 400 grams	Termination of pregnancy	Stillbirth, or Neonatal Death (shows any signs of life – gasp / breath, heartbeat or movement)	
	<ul style="list-style-type: none"> <li>Witness to Approval to Termination of Pregnancy (MR256)</li> <li>Birth registration form Centrelink Payment Claim Form (<b>Stillbirth</b> = Bereavement, <b>NND</b> = Parenting)</li> <li>Stork Data Base</li> <li><b>Stillborn:</b> consent for cremation at KEMH or funeral director</li> </ul> <p><b>IF BORN SHOWING ANY SIGNS OF LIFE:</b></p> <ul style="list-style-type: none"> <li>Death in Hospital Form</li> <li>Report to the Coroner</li> <li>External funeral director</li> </ul>	<ul style="list-style-type: none"> <li>Consent for post-mortem (MR 236)</li> <li>Laboratory request for placental examination</li> <li>Medical Certification of Stillbirth or Neonatal Death (BDM 201)</li> <li>Death in Hospital Form (MR 001)</li> <li>Report to Coroner (if reportable death)</li> <li>Birth Registration Form</li> <li>Centrelink Payment Claim Form (<b>Stillbirth</b> = Bereavement, <b>NND</b> = Parenting)</li> <li>Stork perinatal data base</li> <li>Permission to Transport Deceased Baby if taking home</li> <li>Authorisation and Release of Human Tissue and Explanted Medical Device Consent Form (MR355.10) – if parents taking placenta home</li> </ul> <p><b>Under 28 weeks:</b></p> <ul style="list-style-type: none"> <li><b>Stillbirth:</b> Consent for cremation at KEMH or external funeral director</li> <li><b>Neonatal death:</b> requires external funeral director</li> </ul> <p><b>All 28 weeks and over:</b></p> <ul style="list-style-type: none"> <li>External funeral director</li> <li>Certification of medical attendant (Cremation form 7)</li> </ul>	

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