Maternity GP shared care guideline
Acknowledgements

Metro North Hospital and Health Service (MN HHS), works alongside Brisbane North Primary Health Network (PHN) and other key stakeholders in the public and private sector, to develop and maintain a best practice model for General Practitioner (GP) maternity care. Inclusive in this model are guidelines to assist GPs and hospitals to care for women in accordance with current evidence based maternity care practice.

Sincere thanks are extended to the following for their dedication to the task:

- Executive Director, Clinical Directors and Nursing and Midwifery Directors, Women’s and Newborn Services, Metro North Hospital and Health Service
- Brisbane North PHN and Metro North Women’s and Children’s Stream Collaborative
- Brisbane North PHN
- Maternity Choices Australia
- Dr Wendy Burton, GP Advisor Brisbane South PHN & Mater Mothers’ Hospital GP Maternity Shared Care Program
- Affiliated Maternity GP Alignment Programs

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### Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACRRM</td>
<td>Australian College of Rural and Remote Medicine (ACRRM)</td>
</tr>
<tr>
<td>ANDAS</td>
<td>Antenatal Day Assessment Unit</td>
</tr>
<tr>
<td>CAPC</td>
<td>Centre for Advanced Prenatal Care</td>
</tr>
<tr>
<td>CFTS</td>
<td>Combined First Trimester Screen</td>
</tr>
<tr>
<td>CMS</td>
<td>Community Midwifery Service</td>
</tr>
<tr>
<td>CMV</td>
<td>Cytomegalovirus</td>
</tr>
<tr>
<td>CPI</td>
<td>Central Patient Intake</td>
</tr>
<tr>
<td>CVS</td>
<td>Chorionic Villi Sampling</td>
</tr>
<tr>
<td>DRANZCOG</td>
<td>Diploma of the Royal Australian and New Zealand College of Obstetricians and Gynaecologists</td>
</tr>
<tr>
<td>EPAU</td>
<td>Early Pregnancy Assessment Unit</td>
</tr>
<tr>
<td>EPDS</td>
<td>Edinburgh Postnatal Depression Scale</td>
</tr>
<tr>
<td>GP</td>
<td>General Practitioner</td>
</tr>
<tr>
<td>HBeAg</td>
<td>Hepatitis B &quot;e&quot; antigen</td>
</tr>
<tr>
<td>HBIG</td>
<td>Hepatitis B Immune Globulin</td>
</tr>
<tr>
<td>HBV</td>
<td>Hepatitis B Virus</td>
</tr>
<tr>
<td>MFM</td>
<td>Maternal Fetal Medicine</td>
</tr>
<tr>
<td>NIPT</td>
<td>Non-Invasive Prenatal Testing</td>
</tr>
<tr>
<td>NBA</td>
<td>National Blood Authority</td>
</tr>
<tr>
<td>OGTT</td>
<td>Oral Glucose Tolerance Test</td>
</tr>
<tr>
<td>ORC</td>
<td>Obstetric Review Centre</td>
</tr>
<tr>
<td>PHR</td>
<td>Pregnancy Health Record</td>
</tr>
<tr>
<td>PMC</td>
<td>Primary Maternity Carer</td>
</tr>
<tr>
<td>PPM</td>
<td>Private Practice Midwife</td>
</tr>
<tr>
<td>RACGP</td>
<td>Royal Australian College of General Practitioners</td>
</tr>
<tr>
<td>SANDS</td>
<td>Stillbirth and Neonatal Death Support</td>
</tr>
<tr>
<td>SHADES</td>
<td>Specialist Hospital Alcohol and Drug Service</td>
</tr>
<tr>
<td>SIDS/SUDI</td>
<td>Sudden Infant Death Syndrome / Sudden Unexpected Death in Infancy</td>
</tr>
</tbody>
</table>
### Definitions

<table>
<thead>
<tr>
<th>Definitions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consultation(^1)</td>
<td>A discussion between health care professionals or health care professionals and the woman for the purpose of providing clinical care. Consultation can occur face to face, by videoconference, telephone, or email.</td>
</tr>
<tr>
<td>Obstetrician</td>
<td>Local facilities may as require, differentiate the roles and responsibilities assigned in this document to an “obstetrician” according to their specific practitioner group requirements; for example, to general practitioner obstetricians, specialist obstetricians, consultants, senior registrars and obstetric fellows.</td>
</tr>
<tr>
<td>Primary Maternity Carer (PMC)(^1)</td>
<td>In the context of maternity shared care, the PMC is the community based health care professional, nominated by the woman, who provides and coordinates the majority of the woman’s care. The PMC may be a GP, GP obstetrician, obstetrician, or midwife providing private maternity care in the community.</td>
</tr>
<tr>
<td>Referral(^1)</td>
<td>Communication, preferably in writing from the health care professional making the referral for: • Consultation (e.g. request for an opinion or specialised service where responsibility for the maternity care remains with the PMC) or • Transfer of care (e.g. responsibility for maternity care is transferred from the PMC to an obstetrician). The PMC may continue to provide care within their scope of practice, in collaboration with the specialist team (e.g. the team may consist of obstetrician, physician, and psychiatrist). Referrals should be accompanied by relevant personal and clinical information to enable an informed consultation or safe and timely transfer of care.</td>
</tr>
<tr>
<td>Shared Care(^1)</td>
<td>A co-operative arrangement between a public birthing facility and a PMC not employed by the birthing facility and located in the community (e.g. GP or private practice midwife). The PMC provides the majority of the antenatal and postnatal care with the public birthing facility health care professionals providing care during labour and the intrapartum period.</td>
</tr>
</tbody>
</table>
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1. Foreword

The National Maternity Plan (2011) set out the Federal Government’s vision for maternity services that Maternity care will be woman-centred, reflecting the needs of each woman within a safe and sustainable quality system. “All Australian women will have access to high-quality, evidence-based, culturally competent maternity care in a range of settings close to where they live”. It recognised the significant contribution that General Practitioners (GPs) make as part of collaborative networks necessary to ensure effective delivery and continuity of maternity care particularly in the context of those most at risk of poor outcome and those living in rural communities.

This guideline supports Metro North Hospital and Health Service (MN HHS) *Putting people first* Strategy as it engages MN HHS partners to improve the patient experience and fosters a culture of partnership to better deliver patient-centred care.

In order to support this shared delivery, it is essential that we develop robust clinical pathways between primary, secondary and tertiary carers. This guideline complements the existing Queensland Clinical Guidelines Operational Frameworks: *Maternity shared care* and *Non-urgent referral for antenatal care* and informs the Brisbane North HealthPathways. Together these important tools will provide GPs with relevant information to support their delivery of safe and effective maternity care.

2. Maternity GP shared care

Women who wish to attend a MN HHS birthing facility during pregnancy and in childbirth have an option for GP shared care. (Refer to page 4 for definition of shared care).

To support effective communication and clear understanding of the respective roles and responsibilities of health care professionals involved in maternity shared care, Queensland Clinical Guidelines has published an operational framework titled: *Maternity shared care*.


3. The Pregnancy Health Record

The aim of the Pregnancy Health Record (PHR) is to facilitate women’s participation in their care and to facilitate communication between care providers.

The PHR is to be the substantive record of the woman’s pregnancy. Information is to be recorded in the PHR at every visit by the care provider and must be sufficient to meet the care provider’s duty of care in diagnostic and treatment decisions.

The woman should be advised that the PHR is the ONLY complete health record maintained by the birthing facility and forms part of the birthing facility’s health care records.

All pathology and imaging requests are to be included in the PHR and results documented as soon as available. This provides evidence that someone has checked test results.

**Obtaining and commencing the PHR**

The PHR can be commenced by either the hospital or the GP.

Redcliffe Hospital and Royal Brisbane and Women’s Hospital (RBWH) always commence the PHR at the hospital booking – in appointment. This is the preferred process in both units. If the GP chooses to
commence the PHR, it is to be noted on the referral to avoid duplication. Caboolture Hospital prefers that the GP commences the PHR.

To obtain the PHR, the GP Practice can contact the hospital antenatal clinic and PHRs will be sent. Alternatively, the PHR can be ordered with access to the OfficeMax online ordering system (OrderMax). For OfficeMax contact details refer to Appendix 2: Resources and contacts.

4. Medical indemnity recommendations

The risk of litigation in the practice of obstetrics mainly relates to the conduct of labour. Recently litigation has also occurred when antenatal screening tests have failed to be performed, serious medical problems or obstetric complications have not been detected during the pregnancy, or there has been a delay in management.

To be indemnified for the practice of maternity shared care the following guidelines must be adhered to:

1. Every GP is to check with their professional indemnity provider as to the extent of cover provided. However, in general terms it is understood that GPs with non-procedural cover are covered for claims arising out of care (including any major antenatal complications) up until labour but are not covered for any intra-partum care or treatment. To be covered for intra-partum care the GP must have GP obstetric cover.

2. Request all appropriate tests after discussion and informed consent and follow up the results.
   a. Any investigations requested by GPs for any pregnant woman under their care must be followed up by the GP concerned.
   b. While part of appropriate follow up is communicating relevant results to the shared care hospital, it is still necessary for the GP to check that appropriate action has been taken.
      The GP will not be relieved of all liability by simply communicating the results in the assumption the hospital will act on the results.

3. Ideally the woman will be referred to an antenatal clinic before 12 weeks gestation and triaged for consultation with an obstetrician/obstetric registrar at an appropriate time as required:
   a. If shared care is planned, the antenatal clinic will see the woman again at 36 weeks and at 41 weeks, provided that the antenatal course is uneventful.
   b. GPs may continue to see pregnant women for antenatal visits or for intercurrent medical problems, but in shared care the responsibility for the obstetric care and the delivery of the baby must rest with the obstetric hospital/clinic, consultant obstetrician or with a GP who has GP obstetric insurance arrangements.

4. In an emergency, e.g. haemorrhage or pre-term birth, any doctor irrespective of their cover must render whatever emergency assistance they can, and will be indemnified.

5. If a shared care GP is planning to be away from his or her practice, the woman’s care including responsibility for follow up of tests is to be handed over to another GP who is adequately indemnified. Alternatively, the woman can be referred back to the birthing facility. Please discuss with the birthing facility capacity within the service and models of care.

6. GPs can obtain further information from their indemnifier.
5. Alignment and Quality Improvement & Continuing Professional Development (QI&CPD) requirements

GPs that choose to participate in the Alignment Program will have access to:

- High quality education, online resources and,
- Improved lines of communication with Metro North birthing facilities.

In return, GPs participating in the Alignment Program are expected to provide:

- Referrals with an agreed minimum amount of clinically relevant information to facilitate safe provision of care. Hard-copy or electronic templates have been created for GP use. Referrals are to include copies of pathology and radiology reports;
- Timely, clinically significant communication with the appropriate clinician/s;
- Documentation of care provided in the PHR or clinic notes;
- Attendance at education updates, with a minimum of one update per QI & CPD triennium and
- High quality patient care as per RACGP guidelines.

MN HHS is committed to supporting all GPs who wish to share care to maintain their skills and familiarity with new protocols and approaches.

To become an aligned maternity shared care GP within MN HHS, a GP should fulfil the requirements listed below.

Alignment

GPs must be a registered medical practitioner with current medical indemnity insurance.

A Diploma of the Royal Australian and New Zealand College of Obstetricians and Gynaecologists (DRANZCOG) is desirable but not compulsory. GPs should at a minimum have current knowledge and skill in obstetric care and be familiar with and follow the guidelines and policies of the participating birthing facility.

To practice maternity shared care within MN HHS, GPs are encouraged to attend one maternity shared care alignment workshop per triennium and complete the associated knowledge assessment.

The three-year cycle is run in parallel with the triennium set down by the RACGP and the Australian College of Rural and Remote Medicine (ACRRM) for GP Vocational Registration.

6. Suitability for maternity shared care

Most women can be offered shared antenatal care. The decision is a joint one made by the woman, her PMC and the birthing facility health care professionals, all of whom share responsibility. Following the hospital booking in appointment, the hospital sends a letter to the GP approving the woman as suitable for Shared Care.

“Women with complex care needs may access maternity shared care providing all health care providers:

- are familiar with relevant risk factors
- follow appropriate consultation and referral/management guidelines
- collaborate in a timely fashion with each other and;
- recognise the assessment of risk is a continuing process throughout the pregnancy”¹

For information regarding the process to facilitate effective communication, continuity of collaborative care and coordination of non-urgent antenatal referral for consultation and/or transfer of care; refer to the
6.1 Indications for discussion, consultation and/or transfer

The following 3 tables are specific indications for discussion, consultation and/or transfer of care when first discussing a woman’s needs during initial visits. The main purpose of the indication list is to provide a guide for risk-selection.

This table, has been developed in consultation with Karin Lust (Obstetric Medicine Physician RBWH), adapted from the Mater Mothers’ Hospital GP Maternity Shared Care Guideline January 2018 and the ACM National Midwifery Guidelines for consultation and referral 3rd edition Issue 2. 2014

Maternity Shared Care - Definition table

<table>
<thead>
<tr>
<th></th>
<th>Discuss</th>
<th>Consult</th>
<th>Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>The primary carer (midwife or GP) will provide clinical care and, if necessary, call upon such qualified health professionals as may reasonably be expected to have the necessary skills and experience to assist them in provision of care.</td>
<td>Consult with a MN HHS specialist obstetrician or obstetric registrar.</td>
<td>Transfer responsibility for the woman’s care to a MN HHS specialist obstetrician.</td>
</tr>
</tbody>
</table>

Table 1. Medical conditions

<table>
<thead>
<tr>
<th>Anaesthetic difficulties</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Previous failure or complication (e.g. difficult intubation,</td>
<td></td>
</tr>
<tr>
<td>failed epidural)</td>
<td>B/C</td>
</tr>
<tr>
<td>Previous adverse anaesthetic drug reaction</td>
<td>A</td>
</tr>
<tr>
<td>Malignant hyperthermia or neuromuscular disease or family</td>
<td>C</td>
</tr>
<tr>
<td>history</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cardiovascular disease</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-existing cardiac disease</td>
<td>B/C</td>
</tr>
<tr>
<td>Hypertension</td>
<td>C</td>
</tr>
<tr>
<td>Chronic hypertension, with or without medication</td>
<td>C</td>
</tr>
<tr>
<td>Arrhythmia</td>
<td>B/C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Drug dependency and prescription medicine</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of alcohol and other drugs</td>
<td>B/C</td>
</tr>
<tr>
<td>Medicine use (category B or higher)</td>
<td>B/C</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Endocrine</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-existing Type 1 or Type 2 diabetes</td>
<td>C</td>
</tr>
<tr>
<td>Impaired glucose tolerance</td>
<td>B/C</td>
</tr>
<tr>
<td>Category</td>
<td>Condition</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Gestational diabetes</td>
<td>requiring insulin</td>
</tr>
<tr>
<td>Thyroid conditions</td>
<td></td>
</tr>
<tr>
<td><strong>Gastroenterology</strong></td>
<td></td>
</tr>
<tr>
<td>Inflammatory bowel disease</td>
<td>including ulcerative colitis and Crohn’s disease</td>
</tr>
<tr>
<td>Previous bariatric surgery</td>
<td></td>
</tr>
<tr>
<td><strong>Genetic – any condition</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Haematological</strong></td>
<td></td>
</tr>
<tr>
<td>Thrombo-embolic disease</td>
<td></td>
</tr>
<tr>
<td>Coagulation disorders</td>
<td></td>
</tr>
<tr>
<td>Anaemia from any cause</td>
<td></td>
</tr>
<tr>
<td>Thrombophilia</td>
<td></td>
</tr>
<tr>
<td><strong>Infectious diseases</strong></td>
<td></td>
</tr>
<tr>
<td>HIV-infection</td>
<td></td>
</tr>
<tr>
<td>Rubella</td>
<td></td>
</tr>
<tr>
<td>Toxoplasmosis</td>
<td></td>
</tr>
<tr>
<td>Cytomegalovirus</td>
<td></td>
</tr>
<tr>
<td>Parvo virus infection</td>
<td></td>
</tr>
<tr>
<td>Varicella Zoster virus</td>
<td></td>
</tr>
<tr>
<td>Hepatitis from all causes</td>
<td></td>
</tr>
<tr>
<td>Tuberculosis</td>
<td></td>
</tr>
<tr>
<td>Herpes genitals</td>
<td>Primary infection and recurrent</td>
</tr>
<tr>
<td>Syphilis</td>
<td></td>
</tr>
<tr>
<td><strong>Neurological</strong></td>
<td></td>
</tr>
<tr>
<td>Epilepsy</td>
<td></td>
</tr>
<tr>
<td>Subarachnoid haemorrhage</td>
<td>aneurysms</td>
</tr>
<tr>
<td>Multiple sclerosis</td>
<td></td>
</tr>
<tr>
<td>AV malformations</td>
<td></td>
</tr>
<tr>
<td>Myasthenia gravis</td>
<td></td>
</tr>
<tr>
<td>Spinal cord lesion</td>
<td></td>
</tr>
<tr>
<td>Muscular dystrophy</td>
<td>myotonic dystrophy</td>
</tr>
</tbody>
</table>
### Organ transplants
- **C**

### Malignancy
- Any history of or current - **C**

### Mental health disorders
- Care during pregnancy and birth, after birth and miscarriage will depend on severity and extent of psychiatric disorder - **B/C**

### Renal function disorders
- Disorder in renal function, with or without dialysis - **B/C**
- Recurrent urinary tract infections - **B/C**
- Pyelonephritis - **B/C**

### Respiratory disease
- Mild - **A/B**
- Moderate – requiring maintenance therapy - **B/C**
- Severe - **C**

### Autoimmune disease
- System/connective tissue diseases – these include rare maternal disorders such as systemic lupus erythematosus (SLE), anti-phospholipid syndrome (APS), scleroderma, rheumatoid arthritis, periarteritis nodosa, Marfan’s syndrome, Raynaud’s disease and/or other systemic and rare disorders. - **C**

### Table 2. Pre-existing gynaecological disorders

<table>
<thead>
<tr>
<th>Key: A = Discuss; B = Consult; C = Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pelvic floor reconstruction</strong></td>
</tr>
<tr>
<td>Colpo-suspension following prolapse, fistula and previous rupture - <strong>B/C</strong></td>
</tr>
<tr>
<td><strong>Cervical abnormalities</strong></td>
</tr>
<tr>
<td>Cervical amputation - <strong>C</strong></td>
</tr>
<tr>
<td>Cervical cone biopsy - <strong>B/C</strong></td>
</tr>
<tr>
<td>Cervical surgery with or without subsequent vaginal birth - <strong>B/C</strong></td>
</tr>
<tr>
<td>Abnormal HPV test or cervical cytology - <strong>B/C</strong></td>
</tr>
<tr>
<td><strong>Uterine abnormalities</strong></td>
</tr>
<tr>
<td>Myomectomy/hysterotomy/congenital reproductive tract abnormalities - <strong>B/C</strong></td>
</tr>
<tr>
<td><strong>Infertility treatment</strong></td>
</tr>
<tr>
<td><strong>B/C</strong></td>
</tr>
</tbody>
</table>
### Pelvic deformities (trauma, symphysis rupture)
B/C

### Female genital mutilation
B/C

---

**Table 3. Previous obstetric history**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Key: A = Discuss; B = Consult; C = Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maternal antibodies against red blood cells or platelets e.g. Rhesus isoimmunisation and alloimmune thrombocytopenia</td>
<td>C</td>
</tr>
<tr>
<td>ABO-incompatibility</td>
<td>B/C</td>
</tr>
<tr>
<td>Hypertension</td>
<td>A/B</td>
</tr>
<tr>
<td>Pre-eclampsia</td>
<td>B/C</td>
</tr>
<tr>
<td>Eclampsia</td>
<td>C</td>
</tr>
<tr>
<td>Recurrent miscarriage (three or more)</td>
<td>B/C</td>
</tr>
<tr>
<td>Pre-term birth (&lt; 37 weeks)</td>
<td>B/C</td>
</tr>
<tr>
<td>Cervical incompetence and cervical rupture</td>
<td>C</td>
</tr>
<tr>
<td><strong>Fetal growth concerns</strong></td>
<td></td>
</tr>
<tr>
<td>Fetal growth restriction</td>
<td>B/C</td>
</tr>
<tr>
<td>Small for gestational age (SGA) &lt; 10\textsuperscript{th} centile or &lt; 2.5 kg after 37 completed weeks gestation</td>
<td>B/C</td>
</tr>
<tr>
<td>Large for gestational age (LGA)</td>
<td>B/C</td>
</tr>
<tr>
<td><strong>Previous difficult birth</strong></td>
<td></td>
</tr>
<tr>
<td>Shoulder dystocia</td>
<td>B/C</td>
</tr>
<tr>
<td>Forceps or vacuum extraction</td>
<td>A/B</td>
</tr>
<tr>
<td>Asphyxia (defined as an APGAR score of &lt; 7 at 5 minutes)</td>
<td>B/C</td>
</tr>
<tr>
<td>Caesarean section – Lower segment</td>
<td>B/C</td>
</tr>
<tr>
<td>Caesarean section - other</td>
<td>C</td>
</tr>
<tr>
<td><strong>Perinatal death</strong></td>
<td></td>
</tr>
<tr>
<td>Previous intra uterine fetal death (IUFD)</td>
<td>B/C</td>
</tr>
<tr>
<td>Prior child with congenital and/or hereditary disorder</td>
<td>B</td>
</tr>
<tr>
<td>Postpartum haemorrhage &gt; 1000 mls</td>
<td>B/C</td>
</tr>
<tr>
<td>Placental abruption</td>
<td>B/C</td>
</tr>
<tr>
<td>Placental accreta</td>
<td>C</td>
</tr>
</tbody>
</table>
The following table lists specific indications for discussion, consultation and/or transfer of care in response to conditions or abnormalities identified during pregnancy. The main purpose of the indication list is to provide a guide for risk-selection.

### Table 4. Indications developed/discovered during pregnancy

<table>
<thead>
<tr>
<th>Condition</th>
<th>Key: A = Discuss; B = Consult; C = Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uncertain dates after 20 completed weeks</td>
<td>B/C</td>
</tr>
<tr>
<td>Laparotomy during pregnancy</td>
<td>C</td>
</tr>
<tr>
<td>Abnormal cervical cytology – CIN II or higher</td>
<td>B/C</td>
</tr>
<tr>
<td>Mental health disorders</td>
<td>B/C</td>
</tr>
<tr>
<td>Hyperemesis gravidarum requiring hospital admission or &gt; 5% weight loss</td>
<td>B/C</td>
</tr>
<tr>
<td>Suspected fetal abnormality or increased risk for fetal abnormality</td>
<td>B/C</td>
</tr>
<tr>
<td>Spontaneous rupture of membranes before 37 completed weeks</td>
<td>C</td>
</tr>
<tr>
<td>Hypertension arising in pregnancy – Systolic BP &gt; 140 mmHg and/or</td>
<td>B/C</td>
</tr>
<tr>
<td>Diastolic &gt; 90 mmHg</td>
<td></td>
</tr>
<tr>
<td>Eclampsia</td>
<td>C</td>
</tr>
<tr>
<td>Significant cardiovascular symptoms</td>
<td>B/C</td>
</tr>
<tr>
<td>Coagulation disorders</td>
<td>B/C</td>
</tr>
<tr>
<td>Vaginal bleeding in the second or third trimester or suspected placental abruption</td>
<td>B/C</td>
</tr>
<tr>
<td>Condition</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Placental abruption</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Size/date discrepancy</strong></td>
<td></td>
</tr>
<tr>
<td>Small for dates</td>
<td></td>
</tr>
<tr>
<td>Large for dates</td>
<td></td>
</tr>
<tr>
<td>(Symphysis fundal height &gt; 3 cm or &lt; 3 cm from gestational age)</td>
<td></td>
</tr>
<tr>
<td><strong>Post term pregnancy – longer than 41 completed weeks</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Surrogate pregnancy or adoption intended</strong></td>
<td></td>
</tr>
<tr>
<td>Threatened preterm labour</td>
<td></td>
</tr>
<tr>
<td><strong>Suspected cervical incompetence</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Multiple pregnancy</strong></td>
<td></td>
</tr>
<tr>
<td>Abnormal presentation at 36 completed weeks</td>
<td></td>
</tr>
<tr>
<td>Breech presentation – consideration for ECV at 37 weeks</td>
<td></td>
</tr>
<tr>
<td>Suspected cephalic pelvic disproportion</td>
<td></td>
</tr>
<tr>
<td>No prior antenatal care prior to 28 completed weeks</td>
<td></td>
</tr>
<tr>
<td>Fetal death in utero</td>
<td></td>
</tr>
<tr>
<td><strong>Endocrine disorders</strong></td>
<td></td>
</tr>
<tr>
<td>Diabetes – including gestational diabetes</td>
<td></td>
</tr>
<tr>
<td>Thyroid disease</td>
<td></td>
</tr>
<tr>
<td>Endocrine disorders (other)</td>
<td></td>
</tr>
<tr>
<td><strong>Gastroenterology</strong></td>
<td></td>
</tr>
<tr>
<td>Cholestasis</td>
<td></td>
</tr>
<tr>
<td>Inflammatory bowel disease</td>
<td></td>
</tr>
<tr>
<td>Abnormal liver function tests (LFTs)</td>
<td></td>
</tr>
<tr>
<td><strong>Haematological</strong></td>
<td></td>
</tr>
<tr>
<td>Thrombosis</td>
<td></td>
</tr>
<tr>
<td>Coagulation disorders</td>
<td></td>
</tr>
<tr>
<td>Anaemia</td>
<td></td>
</tr>
<tr>
<td><strong>Infectious diseases</strong></td>
<td></td>
</tr>
<tr>
<td>Hepatitis from all causes</td>
<td></td>
</tr>
<tr>
<td>HIV - infection</td>
<td></td>
</tr>
</tbody>
</table>
7. **Booking in to a birthing facility**


The referral form will be triaged by Metro North CPI and forwarded to the appropriate facility. Please note: if the referral form is incomplete or does not contain sufficient information, the receiving facility will not support the referral and will send it back to CPI.

Referrals are triaged by the facility daily and appointments are allocated according to urgency and due date. GPs are to indicate:

- if the woman has risk factors,
- GP shared care has been offered and requested or
- if the woman has a preference for Birth Centre care at RBWH, or other specified model of care such as Midwifery Group Practice, Ngarrama, Midwifery teams, Midwives in the Community.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rubella</td>
<td>B/C</td>
</tr>
<tr>
<td>Toxoplasmosis</td>
<td>B/C</td>
</tr>
<tr>
<td>Cytomegalovirus</td>
<td>B/C</td>
</tr>
<tr>
<td>Parvo virus infection</td>
<td>B/C</td>
</tr>
<tr>
<td>Varicella Zoster virus infection</td>
<td>C</td>
</tr>
<tr>
<td>Tuberculosis – this refers to an active tuberculous process</td>
<td>C</td>
</tr>
<tr>
<td>Herpes genitalis primary infection/recurrent</td>
<td>B/C</td>
</tr>
<tr>
<td>Tuberculosis</td>
<td>C</td>
</tr>
<tr>
<td>Renal function disorders</td>
<td></td>
</tr>
<tr>
<td>Recurrent urinary tract infections</td>
<td>B/C</td>
</tr>
<tr>
<td>Pyelonephritis</td>
<td>B/C</td>
</tr>
<tr>
<td>Respiratory disease</td>
<td></td>
</tr>
<tr>
<td>Asthma</td>
<td>A/B</td>
</tr>
<tr>
<td>Severe chest infection</td>
<td>B/C</td>
</tr>
<tr>
<td>Pyrexia of unknown origin</td>
<td>B/C</td>
</tr>
<tr>
<td>Abdominal pain of unknown origin</td>
<td>B/C</td>
</tr>
<tr>
<td>Baby for adoption</td>
<td>B/C</td>
</tr>
<tr>
<td>Symphysis pubis dysfunction</td>
<td>B/C</td>
</tr>
<tr>
<td>Fibroids</td>
<td>B/C</td>
</tr>
</tbody>
</table>

**Key:** A = Discuss; B = Consult; C = Transfer
2. Order initial tests.
Refer to Appendix 1: *Metro North Antenatal Shared Care* for guide to initial tests required.

3. To enable women to make an informed choice GPs are encouraged to discuss all model of care options with the woman. GPs are encouraged to be familiar with the various models of care and know where to send women for information. Likewise, Metro North birthing facilities have a responsibility to inform GPs of changes to their models of care.
Metro North birthing facilities provide detailed information on available models of care on their Maternity Services homepage.

RBWH:


Caboolture Hospital:

Redcliffe Hospital:

A hospital booking-in appointment with a midwife will be arranged and an appointment with an obstetrician will be scheduled if necessary.

Following the booking-in appointment, RBWH sends a *GP Notification of Visit Form* to the referring GP and Redcliffe Hospital sends a letter.

At the RBWH booking-in appointment, women will be offered a login to enable 12 months access to GLOW which is an RBWH online education resource.

### 8. Maternity shared care visit schedule

MN HHS states "*Determine the schedule of antenatal visits based on the individual woman’s needs. For a woman’s first pregnancy without complications, a schedule of ten visits should be adequate. For subsequent uncomplicated pregnancies, a schedule of seven visits should be adequate*".

The maternity shared care visit schedule may differ slightly between facilities. As a general guide, at/or following the hospital booking-in visit before 18 weeks, the woman may require a consultation with an obstetrician (if need identified) but will otherwise see her GP:

- every 4 weeks between 12 – 28 weeks gestation (more often if required)
- then as per the PHR (more often if required)
- All facilities request the woman attend a booked appointment in antenatal clinic to commence a birth plan. The timing of this varies from facility to facility, but is usually in the second or third trimester.
- At 36 and 41 weeks gestation, all facilities will review the woman in the antenatal clinic

All other visits will be with the GP who will as per the PHR:
• conduct a routine antenatal assessment at each appointment, which will include:
  – BP
  – Fundal height (for RBWH patients, also complete a standardised growth chart from 24 weeks),
  – Fetal movements
  – Fetal heart rate
  – Presentation/position (from 3rd trimester)
  – Maternal weight (for RBWH patients, also complete Pregnancy Weight Gain Chart)
  – Urine dipstick (as required) and,
  – Reassess risks factors e.g. smoking, alcohol, depression, cervical screening if due.

• provide information and facilitate discussion
• order and review tests as required
• document in the PHR
• reassess planned schedule of care and identify women who may require additional care as per guidelines for consultation and referral.
• if computerised, print updated antenatal record summary and attach to PHR

For additional information related to antenatal care processes, refer to the PHR and Appendix 1 Metro North Antenatal Shared Care Flowchart

9. Screening tests

9.1 Tests for fetal chromosome abnormalities e.g. Down syndrome

Screening for fetal chromosome abnormalities should be discussed and offered to women of ALL ages. Screening tests for fetal chromosome abnormalities are dependent upon accurate gestational age dating; if dates are uncertain a ‘dating scan’ is required for appropriate screening tests to proceed. (Refer to Table 5).

• **Biochemical tests** in first and second trimester are available at all pathology providers and the timing of tests is outlined in the table below.

• **Combined first trimester screen (CFTS)** consisting of Papp-A, free B-HCG and nuchal translucency ultrasound.

  When requesting a nuchal translucency scan, please indicate the pathology provider on the scan referral so that a combined result can be calculated on the day of the scan. When ordering the combined first trimester screen, the blood test should be performed before the nuchal translucency scan so that the result is available to be combined into a single adjusted risk on the day of the scan. The result should not be given with separate biochemistry and nuchal translucency risks but always as a ‘combined’ adjusted risk only.

  Please refer to [MBSonline.gov.au](http://MBSonline.gov.au) for Medicare rebate eligibility.

• **A low Papp-A <0.4MoM** increases the risk of pregnancy complications such as IUGR and PET.
Independently from management required for the risk of aneuploidy, women with a low papp-A should be offered an extra scan at 24 weeks for fetal growth and uterine artery Dopplers. If the uterine artery Dopplers are normal with no protodiastolic notching, no further scans are required except if indicated by new clinical findings. If the uterine artery Dopplers are abnormal, the women should be offered growth scans at 28 and 34 weeks gestation, or more often if the growth pattern is abnormal.

- **Non-Invasive Prenatal Testing (NIPT)** is an option for those women who are able to self-fund their testing, after appropriate pre-test genetic counselling. NIPT are tests for aneuploidy based on the detection of fetal cell free DNA in the maternal plasma. Compared to other screening tests available they are highly accurate for trisomy 21 with an overall sensitivity of 99.5% and specificity of 99.8%. However, they are still considered screening tests and a positive test should be followed up by a diagnostic test. There are several tests offered through different providers. All offer screening for T21, T18 and T13. Some also offer sex determination, screening for monosomy X, triploidy and microdeletions (e.g. 22q11.2 Di George).

NIPT is not covered by Medicare and as such will incur significant costs to the pregnant woman.

- **The ‘triple test’** consisting of free B-HCG, AFP and unconjugated estriol is an alternative test in second trimester. (*note for optimal triple test screen a dating scan is required). The sensitivity is much lower than the CFTS but can be offered if the patient presents too late for CFTS.

**Table 5. Screening for fetal chromosome abnormalities**

<table>
<thead>
<tr>
<th>Screening Test</th>
<th>Appropriate timing—gestational age</th>
</tr>
</thead>
<tbody>
<tr>
<td>First trimester biochemistry—Papp-A, free B-HCG</td>
<td>9+0 to 13+6 weeks</td>
</tr>
<tr>
<td>Nuchal translucency scan</td>
<td>11+0 to 13+6 weeks</td>
</tr>
<tr>
<td>Non Invasive Prenatal Testing (NIPT)</td>
<td>10 weeks and over</td>
</tr>
<tr>
<td></td>
<td>Contact your local provider for details</td>
</tr>
<tr>
<td>Women who require and/or request counselling about invasive testing i.e. Chorionic Villus Sampling (CVS) or Amniocentesis can be referred to local birthing facility.</td>
<td>CVS from 11 weeks</td>
</tr>
<tr>
<td></td>
<td>Amniocentesis from 16 weeks</td>
</tr>
<tr>
<td>2nd trimester Triple test— free B-HCG, AFP, unconjugated estriol</td>
<td>15 to 22+6 weeks (optimal time 16 weeks)</td>
</tr>
</tbody>
</table>

Women with a result that suggests a higher probability of having a baby with a chromosomal abnormality should be referred to Maternal Fetal Medicine (MFM) for counselling about the options for invasive diagnostic testing.²

For more information refer to: RANZCOG Statement July 2018 *Prenatal screening and diagnostic testing for fetal chromosomal and genetic conditions*  
https://www.ranzcog.edu.au/RANZCOG_SITE/media/RANZCOG-MEDIA/Women%27s%20Health/Statement%20and%20guidelines/Clinical-Obstetrics/Prenatal-
9.2 Routine morphology ultrasound screening
All pregnant women should be offered a morphology ultrasound scan performed between 18+0 and 20+6 weeks gestation. Follow the increased BMI protocol for women with a BMI ≥ 40. The routine morphology scan is not endorsed as a screening test for Down syndrome and if screening for Down syndrome is requested by the woman then the only endorsed screening tests at this gestation is the triple test or NIPT (Refer to Table 5).

For more information refer to:
Maternal Fetal Medicine (MFM) Referral Guidelines for Antenatal Ultrasound and MFM Consultation

10. Supplements
RANZCOG Guidelines: Vitamin and mineral supplementation in pregnancy

10.1 Folate
Dietary supplementation with folic acid, from 12 weeks before conception and throughout the first 12 weeks of pregnancy, reduces the risk of having a baby with a neural tube defect. Recommended dose is 500 micrograms per day.²

Where there is a known increased risk of NTD (patients taking anticonvulsant medication, pre-pregnancy diabetes mellitus, previous child or family history of NTD or BMI >30), or a risk of malabsorption, a 5mg daily dose is recommended.

10.2 Iodine
The current recommendation is for women who are pregnant to take an iodine supplement of 150 micrograms each day. Women with pre-existing thyroid conditions should seek advice from their medical practitioner before taking a supplement.²,³

10.3 Other Vitamins and minerals
Vitamin D screening is to be offered to women who are at risk for vitamin D deficiency e.g.
- Limited exposure to sunlight
- Dark skin
- A pre-pregnancy BMI of >30

Pregnant women with Vitamin D level below 50 nmol/L:
- For pregnant women with levels 30–49 nmol/L, commence 1,000 IU (25µg)/day.
- Pregnant women with levels < 30 nmol/L should commence 2,000 IU (50µg)/day.
• Repeat the Vitamin D level at 28 weeks gestation
Pregnant women with Vitamin D level above 50 nmol/L
• These women should take 400 IU Vitamin D daily as part of a pregnancy multivitamin

Advise women that taking vitamins A, C or E supplements is not of benefit in pregnancy and may cause harm. Do not routinely offer iron supplementation to women during pregnancy. Previous bariatric surgery requires different recommendations for vitamins and minerals through pregnancy. See Appendix C: Nutrient requirements in pregnancy post bariatric surgery

11. Antenatal services

11.1 Maternal Fetal Medicine
Metro North HHS’s Maternal Fetal Medicine (MFM) service is delivered by the Centre for Advanced Prenatal Care (CAPC), situated at RBWH.
For more information, referral forms and contact details go to:

11.2 Early pregnancy assessment
Early Pregnancy Assessment Units (EPAU) provide a pregnancy loss service for women who are less than 14 weeks pregnant.

<table>
<thead>
<tr>
<th>Table 6. Early Pregnancy Assessment Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early Pregnancy Assessment Unit (EPAU)</td>
</tr>
<tr>
<td>RBWH</td>
</tr>
<tr>
<td><strong>Availability</strong></td>
</tr>
<tr>
<td>• Monday to Friday 9.00 – 12.00</td>
</tr>
<tr>
<td><strong>Location</strong></td>
</tr>
<tr>
<td>• MFM/CAPC Maternal Fetal Medicine Unit (MFM) Level 6 Ned Hanlon Building</td>
</tr>
</tbody>
</table>
# Early Pregnancy Assessment Unit (EPAU)

<table>
<thead>
<tr>
<th>Inclusion criteria</th>
<th>Inclusion criteria</th>
<th>Inclusion criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>• All patients must:</td>
<td>• GP must provide</td>
<td>• Referral required prior to EPAU staff allocating an appointment.</td>
</tr>
<tr>
<td>– have a written referral</td>
<td>– Ultrasound results</td>
<td>– Diagnosed miscarriage (incomplete or missed)</td>
</tr>
<tr>
<td>– be Medicare eligible</td>
<td>– Pathology results including recent B HCG</td>
<td>– PV bleeding and/or pain in early pregnancy to 14 weeks gestation.</td>
</tr>
<tr>
<td>• Diagnosed miscarriage (incomplete or missed)</td>
<td>• Confirmed stable ectopic pregnancy treated conservatively</td>
<td>– Less than 14-week size pregnancy on ultrasound and haemodynamically stable.</td>
</tr>
<tr>
<td>• Less than 14-week size pregnancy on ultrasound</td>
<td>• Pregnancy of unknown location, stable and requiring assessment and follow up</td>
<td>• Pregnancy of unknown location – discuss with Gynaecology Registrar on call</td>
</tr>
<tr>
<td>• Clinically stable</td>
<td></td>
<td>• Ectopic Pregnancy</td>
</tr>
<tr>
<td>• Medicare card holder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Pregnancy of unknown location – must be discussed with the Gynaecology Registrar prior to referral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Molar pregnancy – discuss with Gynaecology Registrar prior</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Follow up of ectopic pregnancy treated with methotrexate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exclusion criteria</th>
<th>Exclusion criteria</th>
<th>Exclusion criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Ectopic pregnancy (requiring surgical management)</td>
<td>• Viable intrauterine pregnancy confirmed on Ultrasound</td>
<td>• Viable intrauterine pregnancy confirmed on Ultrasound</td>
</tr>
<tr>
<td>• Heavy bleeding/pain (haemodynamically unstable)</td>
<td>• Pregnancy &gt; 14 weeks gestation</td>
<td>• Pregnancy &gt; 14 weeks gestation</td>
</tr>
<tr>
<td>• Complete miscarriage</td>
<td>• Haemodynamically unstable</td>
<td>• Haemodynamically unstable</td>
</tr>
<tr>
<td></td>
<td>• Negative pregnancy test</td>
<td>• Negative pregnancy test</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Hyperemesis</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>How to refer</th>
<th>How to refer</th>
<th>How to refer</th>
</tr>
</thead>
<tbody>
<tr>
<td>• GPs consulting a woman who meets inclusion criteria may refer direct to EPAU</td>
<td>• Fax referrals to (07) 5433 8710</td>
<td>• GPs consulting a woman who meets the inclusion criteria may refer directly</td>
</tr>
<tr>
<td></td>
<td>• Contact EPAU directly to</td>
<td></td>
</tr>
</tbody>
</table>

Level 3 of the co-located Moreton Bay Integrated Care Centre (MBICC)
Early Pregnancy Assessment Unit (EPAU)

<table>
<thead>
<tr>
<th>Facility</th>
<th>RBWH*</th>
<th>Caboolture</th>
<th>Redcliffe</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Obstetric Review Centre (ORC)</td>
<td>speak with midwife</td>
<td>to EPAU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(07) 5433 8213</td>
<td>Fax referrals to (07) 3883 7041</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Contact ANDAS / EPAU</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>directly to speak with</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>midwife (07) 3883 7108</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>For discussion with</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Registrar call switchboard</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>on (07) 3883 7777 and</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ask for O &amp; G Registrar</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Inform the woman she will</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>be contacted by EPAU</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>within 24 hours (Monday –</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Friday)</td>
</tr>
</tbody>
</table>

NB: Advise women to present to their nearest hospital emergency department if they have heavy bleeding (> 1 pad/hour), or severe pain or develop fever prior to their scheduled EPAU appointment.

Give Anti-D to all pregnant women who have a Rh negative blood group if bleeding.

Correspondence will be forwarded to referring GP at completion of care.

For further information refer to: Queensland Clinical Guideline: *Early pregnancy loss*

### 11.3 Second and third trimester assessment

#### Table 7 Second and third trimester assessment

<table>
<thead>
<tr>
<th>Facility</th>
<th>RBWH*</th>
<th>Caboolture Antenatal Day Assessment Unit (ANDAS)</th>
<th>Redcliffe Antenatal Day Assessment Unit (ANDAS)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Days/hours of operation</strong></td>
<td>ORC 7 days 24 hours</td>
<td>Monday to Friday 08:30 and 17:00</td>
<td>Monday to Friday 08:00 and 16:00</td>
</tr>
<tr>
<td><strong>How to contact/refer</strong></td>
<td>ORC triage midwife (07) 3647 3932</td>
<td>ANDAS midwife (07) 5433 8213</td>
<td>ANDAS midwife (07) 3883 7108</td>
</tr>
</tbody>
</table>
### Criteria

Pregnant women ≥ 20/40 (RBWH14/40) who are hemodynamically stable and require assessment for any pregnancy related concerns including:

- Reduced fetal movements
- Pregnancy Induced Hypertension – Blood pressure checks
- Proteinuria
- Prolonged pregnancy
- Suspicion of fetal growth restriction
- Prelabour rupture of membranes
- Breech presentation requiring External Cephalic Version
- Diabetes
- Cholestasis of Pregnancy
- Poor obstetric history
- Prolonged rupture of membranes declining labour induction
- Requirement for steroid administration*
- Bleeding
- Contractions

### 11.4 RBWH Continence Advisory Service

The Women’s and Newborn Services Continence Advisory Service is available to antenatal and postnatal women who are booked into the RBWH.

Reasons for referral may include:

- **Lower urinary tract symptoms:**
  - Frequency
  - Urgency
  - Urge incontinence
  - Stress incontinence
  - Voiding difficulties; i.e. poor stream, feeling of incomplete emptying
- **Bowel symptoms**
  - Constipation or Diarrhoea
  - Faecal soiling
  - Flatus incontinence
- **Issues with 3rd and 4th degree tears**

A pre-work up for referral acceptance is required and includes:

- **Bladder symptoms** – MSU M/C/S
- **Bowel symptoms** – Stool M/C/S if indicated

Referrals can be sent via:

- Fax (07) 3646 1769 – attention to Continence Advisory Service WNBS
11.5 Perinatal mental health support

The recognition of mental health disorders in the antenatal period is important as treatment may be required during pregnancy.

Conduct screening using the Edinburgh Postnatal Depression Scale (EPDS) as early as practical in pregnancy and repeat at least once later in pregnancy; repeat the EPDS at any time in pregnancy if clinically indicated. It is the GPs responsibility to arrange appropriate referrals if needed and to document in the PHR.

For support and information contact the Metro North Perinatal Mental Health Service (non-acute).

RBWH: 0417 819 949
Caboolture and Redcliffe: 0408 151 138
For acute care contact 1300 MH Call (1300 64 22 55)
For more information: Mental Health Care in the Perinatal Period – Australian Clinical Practice Guideline October 2017

11.6 Ngarrama

Ngarrama is a Metro North HHS Aboriginal and Torres Strait Islander Maternity Service which offers care for women who are Aboriginal and/or Torres Strait Islander and/or whose partner identifies as Aboriginal and/or Torres Strait Islander.

It is important to identify on the antenatal referral form, those women and/or partners who are Aboriginal and/or Torres Strait Islander or women whose baby will be Aboriginal and/or Torres Strait Islander to enable Ngarrama services to be offered to the woman.

At the first hospital visit women will be offered all models of care available with the hospital and also additional support of this service.

RBWH
Ngarrama Royal: (07) 3646 3759 or 0428 404 875
Caboolture
Ngarrama North (Caboolture): (07) 5433 8118
Redcliffe
Ngarrama East (Peninsula): (07) 3049 6849

11.7 Antenatal lactation support

GPs play an important role in encouraging and supporting women to breastfeed.

The initial antenatal interview between a woman and her doctor or midwife should include a careful assessment of the woman’s (and her partner’s) attitudes, beliefs, expectations, knowledge and experience in
relation to infant feeding.
Throughout the pregnancy, you will be prompted by the PHR to discuss topics such as:

- Normal breast changes
- Reasons why breastfeeding is important
- The importance of early skin to skin contact
- How to position baby for effective breastfeeding
- The importance of rooming-in
- Expressing and safe storage of breast milk

Brisbane North HealthPathways has a Lactation Support Services Pathway
https://brisbanenorth.communityhealthpathways.org

Also, refer to Appendix 2 for a list of breastfeeding resources for health professionals and consumers.

**RBWH**
Breastfeeding education is included in the childbirth education curriculum.
Women who have risk factors for breastfeeding difficulty and are booked into the RBWH can be referred to the RBWH Lactation Service for both antenatal and postnatal support.
An antenatal consultation enables assessment, advice and care planning with an International Board-Certified Lactation Consultant (IBCLC). Antenatal contact also enables relationship building between the woman and the lactation team to streamline postnatal support. Refer to section 18.1 for contact details.

**Caboolture Hospital**
Women who are booked into the Caboolture hospital are invited to attend an informal breastfeeding class. Following class attendance, women can be referred for an individual lactation appointment if required.
Breastfeeding classes are also available and can be booked via Antenatal Clinic.
All women are given “Caboolture Hospital Baby Booklet: a Resource for Mums”. This booklet contains both practical information and contacts for infant feeding support.

**Redcliffe Hospital**
Breastfeeding classes are incorporated into the childbirth education curriculum. Women can book to attend via Antenatal Clinic. Written resources are available to reinforce knowledge.

**11.8 Obstetric medicine**

**RBWH**
The Obstetric Medicine Unit is part of the Departments of Maternity Services and Internal Medicine.
The Obstetric Medicine Unit provides an inpatient and outpatient consultative service for pregnant women with medical conditions specific to pregnancy or coincidental to pregnancy.
Referrals are accepted from around the state.
Services include:
• general obstetric medicine clinics
• specialised endocrine, epilepsy and cardiac clinics
• preconception counselling

These clinics are coordinated by the Maternity Outpatients Department - Contact for Complex Case Managers (07) 3647 3961 / (07) 3647 0549

During office hours an Obstetric Medicine Registrar can be contacted.
Call switch on (07) 3646 8111 and ask for the Obstetric Medicine Registrar.
After hours, an Obstetric Medicine Consultant is on call.
For matters relating to diabetes in pregnancy, contact the Women's and Newborn Services Diabetes Educator DECT (07) 3647 6217.

Caboolture and Redcliffe Hospitals
Additional clinics for high risk conditions include:
• Obstetric Medical
• Diabetes in pregnancy
• Special Needs (for patients with adverse outcomes)

11.9 Allied health services
Metro North HHS birthing facilities provide essential allied health support which includes:
• Pharmacy
• Physiotherapy
• Dietetics
• Social Work

11.10 Other antenatal specialist services
RBWH
As a quaternary and tertiary referral teaching hospital, the RBWH provides additional specialist services and clinics. These include:
• Obstetric Medicine, Endocrine and Gestational Diabetes Mellitus Clinics
• Obstetric Anaesthesia Clinics
• Specialist Hospital Alcohol & Drug Service (SHADES)
• Queensland Genetic Service
• Psychology

RBWH and Redcliffe Hospitals offer an Antenatal Pharmacy Service providing advice on suitability of medications in pre-conception, pregnancy and breastfeeding. Advice can be provided to the woman and to
her GP.
Women identified as taking medication during pregnancy will also be offered a pharmacist appointment as part of their antenatal care.

Redcliffe and Caboolture Hospitals offer specialised antenatal care via the Young Parents Group for women up to 21 years of age. This group provides coordinated education, antenatal visits and social work support. RBWH has a Midwifery Group Practice (MGP) that offers antenatal care for young parents.

12. Management of abnormal results and findings

Any investigations requested by a GP for any pregnant woman under his/her care must be followed up by the GP concerned. It is the GPs responsibility to follow up all abnormal results irrespective of whether a copy has been sent to the hospital.

12.1 Full blood count
Consider iron studies if the haemoglobin is 110g/L or less and the MCV is low or red blood cells are microcytic. Check B12/folate levels if the MCV is high or red blood cells are macrocytic. Testing for thalassaemia (haemoglobin electrophoresis) should also be considered where appropriate. Low white cell or platelet counts should prompt discussion with obstetric registrar, and/or referral to hospital antenatal clinic.

12.2 Blood group and antibody screen
Any positive test for antibody levels should prompt immediate referral to hospital antenatal clinic.

12.3 Rubella titre
A “non immune” level should prompt a note to discuss immunisation with the woman post birth. Under no circumstances should immunisation be given in pregnancy. Contact with young children with rubella should be avoided.

12.4 Syphilis serology
A positive result should prompt referral to hospital antenatal clinic. For further information refer to: Queensland Clinical Guideline: Syphilis in pregnancy: https://www.health.qld.gov.au/__data/assets/pdf_file/0035/736883/g-sip.pdf

12.5 Hepatitis B and C, and HIV tests
A positive result should prompt referral to the hospital antenatal clinic. The obstetrician will refer to the appropriate specialist services.
12.6 Thyroid function tests

Do not routinely test pregnant women for thyroid dysfunction.
Recommend thyroid testing to women who are at increased risk of thyroid dysfunction.

12.7 Combined First Trimester Screening and Triple Test

Abnormal Combined Frist Trimester Screening or Triple Test results must be referred urgently to the participating hospital for counselling with a view to offering CVS, Amniocentesis or NIPT if appropriate.

12.8 Morphology ultrasound

Any abnormality should prompt discussion with/referral to the hospital antenatal clinic.
Following a phone call, fax the ultrasound report and previous results e.g. nuchal translucency, with a cover letter to the antenatal clinic. If the abnormality concerns the fetus the referral can be sent directly to the MFM department at RBWH. For consultation or advice phone the Obstetric Registrar or Maternal Fetal Medicine Department.

12.9 Oral glucose tolerance test (OGTT)

The diagnosis of gestational diabetes should prompt immediate referral to the antenatal clinic and transfer from GP shared care to hospital obstetric care.
Fax a referral letter and a copy of the OGTT result to the GP Liaison Midwife or Clinical Nurse (Diabetes) c/- ANC. Highlight that this referral is for the management of gestational diabetes in a previously booked shared care woman.
Do not use the antenatal new patient referral form if the woman is already booked into the facility.
Women who identify pre-conception or in the first trimester as high risk for diabetes in pregnancy, should be offered a first trimester OGTT and referred urgently if OGTT abnormal.

12.10 Intrauterine growth restriction (IUGR)

At each antenatal visit from 24 weeks, measure fundal height\(^2\),\(^4\)
1. Mother semi-recumbent with an empty bladder
2. Palpate to determine the fundus with two hands
3. Secure tape with hand at top of fundus
4. Measure to top of symphysis pubis
5. Measure along longitudinal axis of the uterus

Image source: Perinatal Institute, Birmingham
Other considerations include transverse lie, multiple pregnancies and obesity.

If serial Symphysis Fundal Height (SFH) measurements demonstrate slow or static growth by crossing centile lines when plotting fundal height chart, refer the woman for an ultrasound and request:

- fetal size/growth compared with previous ultrasound (bi parietal diameter, abdominal circumference),
- doppler of umbilical artery flow,
- amniotic fluid index (ask for normal range).

If any parameters are abnormal discuss any concerns regarding fetal growth with obstetric registrar.

Also see MFM referral guidelines

12.13 Reduced fetal movements

If fetal movements are reduced check fundal height and fetal heart rate and refer to hospital for assessment of fetal wellbeing.5

If fetal movements are appropriate but either the GP or the woman is concerned, or there is a previous history of stillbirth or fetal death in utero, refer to the hospital by communication with the obstetric registrar. Refer to Appendix 1 for contact number.

To assist clinicians with the management of women who report decreased fetal movements, the Centre of Research Excellence in Stillbirth has published the Clinical Practice Guideline for the Care of Women with Decreased Fetal Movements

12.14 Hypertension

For information related to the management of Hypertension during pregnancy refer to the Queensland Clinical Guideline: Hypertensive disorders of pregnancy

If elevation of BP persists or there is any suggestion of pre-eclampsia or growth restriction, contact the obstetric registrar to arrange hospital assessment.

12.15 Vaginal bleeding ≥ 20 weeks

(Refer to EPAU advice for bleeding < 14 weeks)

For woman who are haemodynamically stable:

- Perform a physical assessment of the woman and record fetal heart rate
- Review ultrasound result for placenta site (clear of os) and if no scan refer for one if stable (a speculum examination can be performed with placenta praevia but avoid digital examination)
- Use a speculum to view cervix and cervical screening if no normal cervical screening/PAP result in last two years
- Consider need for Anti D if rhesus negative and arrange Kleihauer test to ascertain amount to give. For
further information refer to: National Blood Authority

• If spotting ceased and examination is normal, reassure and encourage observation at home
• For ongoing bleeding or anything other than light spotting contact Birth Suite and/or obstetric registrar on call.
• If heavy blood loss and/or patient appears clinically compromised obtain IV access, arrange urgent transfer to hospital and contact on call obstetric registrar/consultant.

12.16 Abnormal presentation
If 36 weeks gestation or more and suspected breech or transverse lie contact the antenatal clinic coordinator to discuss an ultrasound and arrange an obstetric assessment as soon as possible.

13. Management of Rh D negative women
Pregnant women who are Rh D negative fall into two categories: those with and those without Anti-D antibodies. **Women with Rh D antibodies are not suitable for shared care.**


This document, produced by the National Blood Authority (NBA) and approved by the National Health and Medical Research Council (NHMRC), updates previous guidelines on the use of Rh (D) immunoglobulin (Anti-D). Hard copies of the guidelines are obtainable from the NBA.


Additional information can be located at [http://www.rcog.org.uk/guidelines](http://www.rcog.org.uk/guidelines)

RCOG Green-top Guideline No. 65 titled *The Management of Women with Red Cell Antibodies during Pregnancy* May 2014

To obtain Anti D contact:
- QML (delivered free as part of their routine courier service). An order form can be accessed from [www.qml.com.au](http://www.qml.com.au) (or by phoning 07 3146 5122) and faxed to the QML blood bank on 07 3371 9029.
- Red Cross (if no QML service available) phone 07 3838 9010 – courier or taxi fees apply
- Please record the routine administration at 28 and 34 – 36 weeks on page a4 of the PHR

14. Infections and immunisations
Pregnancy may be complicated by any of the common infections. Many impact adversely on fetal well-being. Discussion with a consultant obstetrician or obstetric medicine physician is required when infections are suspected or there is a history of exposure.

For current evidence based information related to perinatal infections refer to:
• South Australian Perinatal Practice Guidelines
  http://www.sahealth.sa.gov.au/wps/wcm/connect/Public+Content/SA+Health+Internet/Clinical+resources/Clinical+topics/Perinatal+practice+guidelines/

  https://www.asid.net.au/resources/clinical-guidelines

  https://immunisationhandbook.health.gov.au

• Queensland Clinical Guideline: Early onset Group B streptococcal disease

14.1 Cytomegalovirus (CMV)

Evidence is limited to support screening for CMV during pregnancy.
As CMV may be transmitted to the baby and can have serious consequences, the focus is on giving women advice about hygiene measures that reduce risk of infection.
Consensus-based recommendations include:6

- Advise pregnant women about hygiene measures to prevent CMV infection such as frequent hand washing, particularly after exposure to a child’s saliva or urine.
- Only offer screening to pregnant women if they come into frequent contact with large numbers of very young children (e.g. child care workers).

14.2 Pertussis vaccine (dTpa)

Vaccination is recommended with each pregnancy, including pregnancies that are closely spaced, to provide maximal protection to every infant.
The optimal time for pertussis vaccination in pregnancy is between mid 2nd trimester and early 3rd trimester (between 20 and 32 weeks gestation).
If pregnant women are not vaccinated between 20 and 32 weeks, they should receive pertussis-containing vaccine as soon as possible and at any time up to delivery. If given within 2 weeks of delivery, the newborn may not be adequately protected.
If pregnant women receive the vaccine earlier than 20 weeks, they do not need a repeat dose during the same pregnancy.7

14.3 Influenza vaccine

Influenza vaccination is recommended for pregnant women and is safe to administer during any stage of pregnancy or while breastfeeding.7

15. Smoking

Although abstinence early in pregnancy will produce the greatest benefits to the mother and fetus, smoking cessation at any point during the pregnancy will be beneficial.
Effective smoking cessation intervention should be offered to pregnant smokers at the first antenatal visit and throughout pregnancy and post-partum. This includes not only advice to quit but extended psychosocial interventions.

A lowest dose intermittent nicotine replacement therapy can be considered after the first trimester using a risk/benefit approach.

If the woman is identified as a smoker, the PHR prompts assessment using the Tobacco Screening Tool on page a10 of the PHR.

Whilst mothers who smoke whilst breastfeeding are encouraged and supported to stop, they are concurrently educated about the benefits of breastfeeding and encouraged to continue breastfeeding.⁸

The Queensland Government Quitline provides support and resources.

Website: https://quithq.initiatives.qld.gov.au
Email: 13QUIT@health.qld.gov.au

Phone: Quitline 13 QUIT (13 7848) for free information, practical assistance and support. Trained counsellors are available seven days a week to help with the process of quitting.

### 16. Weight status and gestational weight gain

At the initial visit, record height, pre-pregnancy weight, and calculate BMI.² ⁹

Include pre-pregnancy BMI on hospital referral.

Inter-pregnancy weight gain should also be documented. Recalculate BMI at 36 weeks

It is recommended that women with BMI:

- >35 and <18 - decision re suitable model of care usually made in consultation with obstetric team. Some women may continue with GP shared care dependent on BMI and other risk factors.
- > 50 - birth in a tertiary hospital.

#### Table 8. Target weight gains⁹

<table>
<thead>
<tr>
<th>Pre-pregnancy BMI (kg/m2)</th>
<th>Rate of gain 2⁰ &amp; 3⁰ trimester (kg/week) *</th>
<th>Recommended total gain range (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 18.5</td>
<td>0.45</td>
<td>12.5 to 18</td>
</tr>
<tr>
<td>18.5 to 24.9</td>
<td>0.45</td>
<td>11.5 to 16</td>
</tr>
<tr>
<td>25.0 to 29.9</td>
<td>0.28</td>
<td>7 to 11.5</td>
</tr>
<tr>
<td>≥ 30.0</td>
<td>0.22</td>
<td>5 to 9</td>
</tr>
</tbody>
</table>

* Calculations assume a 0.5-2 kg weight gain in the first trimester

For information regarding the assessment and management of obesity in the perinatal period refer to: Queensland Clinical Guideline: Obesity

https://www.health.qld.gov.au/__data/assets/pdf_file/0019/142309/g-obesitypdf
17. Nutrition and physical activity

Pregnant women are advised to eat a healthy diet as per the *Australian Dietary Guidelines*. Antenatal nutrition education materials are available:


Low to moderate intensity physical activity during pregnancy is associated with a range of health benefits and is not associated with adverse outcomes.

Pregnant women are encouraged to:

- Undertake safe general exercise (i.e. walking, swimming) or a specific pregnancy exercise class in the community
- Attend a physiotherapy antenatal class at their respective hospital.
- RBWH "Living Well" is a free telephone coaching program supporting Royal mums-to-be achieve a health pregnancy. "Living Well" is provided by dietitians
- Redcliffe Hospital offers referral to hospital based dieticians for conditions such as Excess Weight, Low pre-pregnancy weight, Hyperemesis and previous weight loss surgery
- MN HHS runs “Nurture your Bump” antenatal education programs at various locations

18. Postnatal care and supports

The care of the woman during labour and birth will be the responsibility of the hospital health care team.

At discharge, a summary of the pregnancy and birth outcome will be sent to the referring GP.

A postnatal appointment with the GP is advised for mother and baby at 5-10 days and 6 weeks.

Some women may be offered a postnatal hospital outpatient appointment if specific problems have been experienced during pregnancy or birth e.g. 3rd or 4th degree tear. OASIS clinic in Gynaecology OPD at RBWH offers follow up for women who have experience 3rd or 4th degree tears. During the postnatal period, the GP may identify problems that require referral back to the hospital.

18.1 Feeding support

Brisbane North HealthPathways has a Lactation Support Services Pathway

https://brisbanenorth.communityhealthpathways.org

GPs have an important role in not only encouraging and supporting breastfeeding; and in supporting women to overcome breastfeeding difficulties.

Timely support and management is the key to overcoming feeding problems to ensure continued breastfeeding.
The RBWH has a Lactation Service available to women who have birthed at the RBWH. Women can access the Lactation Service during the first 28 days post birth. The Lactation Service is staffed by midwives who are also International Board-Certified Lactation Consultants.

For an appointment or to talk to a Lactation Consultant DECT phone: (07) 3647 9359
Breastfeeding support is also offered by the Child and Youth Community Health Service
Refer to Appendix 2 for contact details.

At Caboolture and Redcliffe hospitals post discharge breastfeeding support is provided by the Child and Youth Community Health Service via their “Drop in Clinics” (up to 12 weeks of age). No appointment is required.

Postnatal women are invited to attend “Breastfeeding Hour” between 08:00 and 09:00 Monday to Friday at the Caboolture Community Child and Youth Community Health Clinic.

The Child and Youth Health Service also provide an outpatient infant feeding clinic for women requiring more intensive support. This is by appointment only. Phone: (07) 5433 8300

18.2 Home visiting
Following birth, support is continued in the community by midwives and child health nurses. Depending on geographical boundaries and circumstances, contact may be either a home visit or a telephone consult.
RBWH also offers Telehealth consult.
To speak to a home visiting midwife phone:

RBWH
Community Midwifery Service (CMS) DECT: (07) 3647 3956
A CMS midwife will ring soon after discharge to arrange a post-natal home visit if applicable

Caboolture Hospital
Home Maternity Service (HMS): (07) 5433 8923

Redcliffe Hospital
Home Maternity Service (HMS): (07) 3883 7803 or 0414 577 154 Mon to Sun 08:00 to 16:00.
Discharge/HMS Coordinator (Midwife): (07) 3049 2334 – Mon to Fri 07:30 to 15:30

18.3 Postnatal GP appointment 5 - 10 days
Mother
Early contact is encouraged to assess wellbeing, social risk factors, and level of support.

Examine/Review:
- BP
- Lochia
- Perineum (if indicated)
- Abdominal wound if caesarean section (CS)
- Bladder and bowel function
• Medical conditions (e.g. GDM - remind re OGTT at 6-weeks post partum; hypertension)
• Calves for deep vein thrombosis (DVT)
• Breasts and Nipples
  • Mobility. Enquire about back pain and refer women who are experiencing musculoskeletal pain and/or pelvic floor dysfunction to hospital physiotherapy department or a Women’s Health Physiotherapist in the community.
  • Feelings. Apply Edinburgh Postnatal Depression Scale if indicated.

Discuss:
• Relevant parenting and health education topics
• Feelings and family support
• Birth and any complications
• Contraception and intercourse resumption
• Routine tests
• Infant feeding
• Healthy Hearing
• NNST
• Role of the GP, hospital community midwife, child health nurse, lactation consultant
• Risk of injury
• SIDS / SUDI
• Requirement for six-week baby check
• Use of the Infant Personal Health Record including information contained within
• Immunisations and immunisation schedule (Offer mother MMR and/or Pertussis immunisation as indicated)

Refer (if indicated) to:
• Child and Youth Community Health Service
• Lactation Service
• Paediatrician
• Allied Health Services (Physiotherapy, Social work, Dietetics, Pharmacist)
• Perinatal Mental Health Service
• Continence Advisory Service

Baby
Review by GP between five and ten days of age if baby discharged from hospital < 72 hours of age.

To assist newborn, follow up and assessment refer to:
• Infant Personal Health Record
• Queensland Maternity and Neonatal Clinical Guideline titled: Routine newborn assessment
• Queensland Maternity and Neonatal Clinical Guideline titled: Neonatal jaundice

- Queensland Maternity and Neonatal Clinical Guideline titled: Establishing breastfeeding

18.4 Postnatal GP appointment - 6 weeks

Mother
Assess wellbeing, social risk factors, and level of support.
Apply Edinburgh Postnatal Depression Scale.

Examine/Review:
- BP
- Breasts and nipples
- Abdominal examination, check wound if CS, refer to physiotherapist if abdominal diastases
- Perineum if tear or episiotomy
- Perform cervical screening if due
- Enquire about urinary or faecal incontinence
- Enquire about back problems and refer women who are experiencing musculoskeletal pain and/or pelvic floor dysfunction to hospital physiotherapy department or a Women’s Health Physiotherapist in the community.
- Review any medical conditions (e.g. GDM - remind re OGTT at 6 weeks post-partum; hypertension)

Discuss:
- Family planning /contraception/intercourse
- Feeding and mother’s/parents satisfaction with baby’s progress
- Immunisation schedule
- Community supports e.g. Child and Youth Community Health Service, Australian Breastfeeding Association

Baby
- Complete relevant sections of the Infant Personal Health Record
## Appendix 1 Decision support tool (a quick reference guide)

### Metro North Antenatal Shared Care

#### Process

**Pre-conception**
- Folate and iodine supplementation
- Rubella serology +/- vaccination
- Venereal disease history +/- vaccination
- Influence vaccination in season
- Pap smear if due
- Chlamydia if age < 25
- Smoking cessation
- Alcohol cessation
- Consider preconception clinic at hospital if medical condition

**First GP visit(s)** (may require more than one consultation)
- Confirm pregnancy and dates
- Scan if dates uncertain or risk of ectopic (previous ectopic, tubal surgery)
- Folate and iodine supplementation for all
- Review medical/surgical/pysch/FHR/obstetric/medications/allergies and update GP records
- Identify risk factors for pregnancy
- Discuss aneuploidy screen vs. diagnostic test
- Order first trimester screening tests
- Perform physical examination as per Pregnancy Health Record (PHR)
- Weigh, calculate BMI and discuss weight gain, nutrition and physical activity
- Discuss breast changes, smoking, alcohol, other drugs, diabetes, toxoplasmosis etc.
- Influence vaccination in season
- Discuss modes of care
- Complete referral, indicate if high risk, you wish to share care or preference is for Birth Centre RWH
- Send referral to Central Patient Intake (CPI)
- Ask woman to complete online registration (Cableboot only)

**First trimester screening tests (GP)** (or ANC on all request forms)
- FBC, blood group and antibodies, Rubea, Hep B, Hep C, HIV, Syphilis serology, MSU (if asymptomatic bacteriuria)
- OGTT (if HbA1c > 5.6 or OGTT not tolerated) if risk factors for GDM
- ELFT, TFI, Vd D for specific indications only
- Venereal disease (if not Hx of Venereal or vaccination)
- Pap smear if due
- Discuss/offers aneuploidy screening:
  1. Nuchal translucency scan = first trimester screen (free hCG, Papp-A) K11-13+6 or K11-13+6
  2. Triple test (AFP, estradiol, free b-hCG) K15-18 (but up to K22): if desired or if present too late for first trimester testing. Not if twins or diabetes
  3. NIPT ≥ K10 (not Medicare funded)
- Discuss and refer for CVS/amniocentesis if appropriate

**Uncomplicated pregnancy**
- Refer privately for detailed scan (dating, morphology) at 11-16 weeks
- Arrange to see woman after scan
- First ANC visit with midwife K15-20
- Obstetrician review if required
- All investigations to be reviewed and followed up by referring clinician
- Referrals made if applicable

**GP visits**
- Schedule as per PHR or specific facility
- More frequent if clinically indicated
- Record in PHR
- Education/assessment as per PHR
- K26-28: OGTT, if HbA1c > 5.6 or OGTT not tolerated
- GP: if Rh negative, blood group/antibodies screen, offer Anti-D
- dTPa in third trimester (optional time K22-32)
- K34: if Rh neg, offer Anti-D
- K36: FBC

**ANC visits**
- K36
- K41: Review for membrane sweep and to discuss induction if appropriate

### Contacts

<table>
<thead>
<tr>
<th>Referral</th>
<th>RWH</th>
<th>Caboolture</th>
<th>Redcliffe</th>
</tr>
</thead>
<tbody>
<tr>
<td>GP Liaison Midwife</td>
<td>3647 3960</td>
<td>3646 1905</td>
<td>3683 7882</td>
</tr>
<tr>
<td>O&amp;G Registrar on call</td>
<td>3646 8111</td>
<td>3633 8120</td>
<td>3683 7777</td>
</tr>
<tr>
<td>Obstetric Medicine Registrar</td>
<td>3666 8111</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Perinatal Mental Health</td>
<td>0617 319 949</td>
<td>0608 151 130</td>
<td>0608 151 138</td>
</tr>
</tbody>
</table>

### Additional information

**Rh negative?**
- Offer Anti-D
  - 20 and 34 weeks
  - Sensitising events
  - Refer to www.blood.gov.au for details and dosage

**High risk for diabetes in pregnancy?**
- Previous GDM or baby > 4500g or > 90th centile; previous elevated BGL; PCOS; gestational diabetes; maternal age > 40; previous perinatal loss; multiple pregnancy; high risk ethnicity; medications: corticosteroids, antidepressants
- First Trimester OGTT, Urgent Hospital ANC referral if abnormal
- Specify reason in referral, Fax to CPI - 1300 364 952

**Medical disease or obstetric complications? Early obstetric hospital ANC referral**
- GP referral letters are triaged by consultant within same week
- Please specify urgency, level of required hospital care and reasons in referral letter
- Fax to CPI - 1300 364 952

*Modified by Brisbane North PHN, NIPHS and Mater Mothers’ Hospital from an original created by Dr Michael Rice, Mano Hanen and Heng Yang. This is a joint initiative between Metro North Hospital and Health Service and Brisbane North PHN.*

Version 3, Effective: 05/2019 Review QP 2020
Appendix 2. Resources and contacts

- Australian Breastfeeding Association
  1800 mum 2 mum (1800 686 268)
  https://www.breastfeeding.asn.au/

- Child and Youth Community Health Service
  Phone: 1300 366 039 Central Intake Service
  Available: 8.30am to 4.30pm Mon to Fri (excl. public holidays)


- Metro North Perinatal Mental Health Service

- Multicultural Health

- Metro North Referral Guidelines

- Mental Health Care in the Perinatal Period – Australian Clinical Practice Guideline October 2017

- OfficeMax Australia Ltd, 31 Gravel Pit Road, Darra, Queensland, 4076
  Customer Service: 136 MAX (136 629)

- PIPA – Preterm Infants and Parents Association
  A non-profit support group for parents who have a preterm baby

- Queensland Health Breastfeeding Website
• Queensland Clinical Guidelines

• Queensland Medicines Advice and Information Service (QMAIS)
Email: QMAIS@health.qld.gov.au
Phone: 36467098 or 36467599
Available: 0830-1700 Mon – Fri (except Public Holidays)

• RANZCOG Guidelines

• REDNOSE
Provides information, education resources and bereavement support in relation to Sudden Unexpected Death in Infancy (SUDI) including Sudden Infant Death Syndrome (SIDS)
Information and education:
1300 998 698
https://rednose.com.au
Grief and Loss:
1300 308 307
https://rednosegriefandloss.com.au

• SANDS
A support organisation for all bereaved parents and families who have suffered the death of a baby anytime from conception through to 28 days after birth - this includes miscarriage, neonatal death, stillbirth, ectopic pregnancy and genetic/medically advised termination.
Phone: 1300 773 672

• Young Parents Program
http://www.encircle.org.au/young-parents-program

• 13HEALTH—Queensland Health help-line
Phone: 13 43 25 84
References


3. National Health and Medical Research Council. NHMRC Iodine supplementation for Pregnant and Breastfeeding Women Public Statement 2010

   http://www.perinatal.org.uk/FetalGrowth/GAP/fundal_height.aspx


   https://pediatrics.aappublications.org/content/129/3/e827

9. Institute of Medicine. Weight gain during pregnancy; reexamining the guidelines 2009