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## **TITLE: Placenta Praevia & Accreta Spectrum (incl. Vasa Praevia)**

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### **1. Purpose**

To provide guidance to staff on the management of the care of women diagnosed with, or who present with, abnormalities of placental implantation.

### **2. Scope**

All Lakes District Health Board medical and midwifery staff, Lead Maternity Carers (LMC), and nursing staff working in the Emergency Department, Birthing Unit, or Perinatal Unit at both Rotorua and Taupo Hospitals.

### **3. Definitions**

<b>Low Lying Placenta</b>	When pregnancy is more than 16 weeks gestation and the placental edge is less than 20 millimetres (2 centimetres) from the internal cervical os on transabdominal or transvaginal ultrasound scan. Particular concern for placental invasion with an anterior placenta over a caesarean section scar.
<b>Placenta Praevia</b>	When the placenta lies directly over the internal cervical os.

<b>Placenta Accreta Spectrum (PAS)</b>	<p>When the placenta is morbidly adhered to the uterine wall; includes the spectrum of placenta accreta, increta and percreta. For ease of description the term 'accreta' is used in this guideline for all these conditions.</p> <ul style="list-style-type: none"> <li>Placenta accreta: densely adherent placenta due to abnormally deep invasion of the placenta onto the uterine muscle (possibility placenta will separate at birth).</li> <li>Placenta increta: adherent placenta embedded into the uterine muscle wall (placenta unlikely to separate at birth).</li> <li>Placenta percreta: adherent placenta growing through the uterus and with possible involvement of other organs (placenta unlikely to separate at birth).</li> </ul> <p>Occurs when the placenta is located over a previous scar and is therefore increasingly common due to the number of previous caesarean sections.</p> <p>Has increased risk of massive obstetric haemorrhage at birth and associated morbidity and mortality.</p>
<b>Vasa Praevia</b>	<p>Is the presence of unprotected fetal vessels within the amniotic membranes over or near the internal cervical os.</p> <p>Type 1: velamentous insertion of the umbilical cord onto the membranes distant to the placenta with vessels traversing the membranes over the cervix.</p> <p>Type 2: succenturiate, multilobed or bilobed placenta with fetal vessels connecting the lobes overlying the cervix.</p> <p>Type 3: abnormal fetal blood vessels branching off the placenta and lying unprotected near the cervical os, arising after resolution of placenta praevia or low-lying placenta.</p>

## 4. Screening and Diagnosis

### Clinical Suspicion

While a definitive diagnosis of the position of a placenta is now achieved with ultrasound imaging, clinical acumen remains vitally important in suspecting and managing placental location issues.

Ensure any history of previous caesarean section is included on the USS request form, as this is a risk factor.

- Women who have had a previous caesarean section who also have either placenta praevia or an anterior placenta underlying an old caesarean section scar at 32 weeks gestation are at increased risk of placenta accreta and should be managed as though they have placenta accreta.
- Placenta praevia should be considered in any woman with painless and unprovoked vaginal bleeding after 20 weeks' gestation.
- At term, a high presenting part or an abnormal lie with painless and unprovoked bleeding should raise a high suspicion of placenta praevia.

This should be suspected irrespective of previous imaging results.

Where possible prior imaging should be reviewed and, if possible, undertake further imaging to confirm the location of the placenta.

## Ultrasound Imaging

Requests for USS should include relevant clinical information i.e. previous caesarean section or uterine scar.

The location of the placenta should be included in the 20 week anatomy scan.

If there is suspicion of low-lying placenta or an anterior placenta over a previous uterine scar, then a further trans-abdominal ultrasound scan using the full bladder technique should be performed.

Condition	Test
• If a woman is symptomatic:	→ perform imaging as appropriate
• Low lying placenta with no symptoms:	→ follow-up scan at 32 weeks
• Placenta praevia with no symptoms:	→ follow-up scan at 32 – 36 weeks to clarify the diagnosis and allow time to plan for third trimester management and birth
• Placenta located over previous caesarean or other uterine scar:	→ refer to High Risk USS Clinic 26 - 28 weeks to rule out accreta, especially if anterior placenta praevia

A transvaginal ultrasound scan may be required for all women diagnosed at the anatomy scan as having a placenta that reaches or covers the cervical os to enable visualisation of the lower placental edge.

## Morbidly Adherent Placenta

Antenatal imaging by Colour Flow Doppler Ultrasonography should be performed in women with placenta praevia who are at increased risk of placenta accreta i.e. previous uterine scar.

Magnetic Resonance Imaging (MRI) and Doppler Ultrasound are equally effective in detecting the morbidly adherent anterior placenta. MRI is helpful in detecting the depth of placental infiltration and the adherence of a posterior placenta.

Definitive diagnosis of the type of the morbidly adherent placenta can only be made intraoperatively and histologically.

## 5. Antenatal Management

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### Consultant review and ongoing input

Women who are found to have the placenta lying over the old scar or who have placenta praevia should be seen in antenatal clinic after confirmation via USS and have a documented antenatal discussion with a **Consultant Obstetrician** after the second scan (i.e. 32 weeks) to;

- make plans for antenatal care and further imaging
- outline the possible implications for birth – mode of birth, bleeding, blood transfusion, anaesthetic and surgical measures
- determine the woman's wishes for future fertility and discuss the risk of requiring a hysterectomy
- enable multidisciplinary preparation for birth
- preparation for the birth itself

Referral should be made for Obstetric Anaesthetist review.

Since it is possible that birth may need to take place as an emergency caesarean section, **a clear care plan needs to be placed in the clinical notes, preferably using the Placenta Praevia and Accreta Clinical Pathway** (see [Appendix 2.](#)).

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### Avoid/treat anaemia

All women should have their full/complete blood count checked, but it is particularly important for those at increased risk of obstetric haemorrhage. Be aware that serum Vitamin B12 is commonly low despite normal tissue levels in pregnancy. Treat any anaemia according to the Lakes Maternal Iron Optimisation Guideline (1401933).

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### Timing of follow-up scan and further imaging

Placenta praevia at 32 weeks' gestation is likely to persist in 90 per cent of cases therefore a scan should be performed around 36 weeks' gestation, and prior to birth to exclude the cases where the placenta has migrated.

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### Location for birth

Consideration should be given to the appropriate location for birth based on the clinical situation (e.g. BMI, location and severity of placenta praevia, previous surgeries, any suspicion of placenta accreta).

If there are any safety concerns, birth should take place in a tertiary hospital after referral by the Lakes Obstetric team;

- Women with other or multiple co-morbidities and are therefore at high risk of complications and heavy bleeding should be managed in a tertiary unit.

- Cell salvage is available in Rotorua, however consideration should still be given to referral to a tertiary hospital for any patient at high risk of needing cell salvage and for women who may decline blood products.
- All known cases of placenta accreta/increta/percreta should be planned to be managed in a tertiary unit – Urology and Interventional Radiology services are not available at Rotorua Hospital.

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### Mode of birth

This will depend on the degree and location of the placenta praevia, ultrasound scan findings, other clinical factors and the woman's preference.

- Women with a low lying placenta in the third trimester are recommended to have birth by caesarean section, especially if the placenta is thick.
- Vaginal birth may be considered in specific cases of low lying placenta, with caution, if the woman is motivated and depending on ultrasound scan findings and after discussion with a Consultant Obstetrician.
- In cases of placenta praevia, elective caesarean section should be offered as the preferable mode of birth.
- Where there is suspected placenta accreta/increta/percreta elective caesarean section at a tertiary unit should be offered as the preferable mode of birth.

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### Gestational age of elective birth

- **Low Lying Placenta:** plan for elective caesarean section at 38 weeks.  
If placenta is 11-20mm from cervical os, consideration may be given to spontaneous vaginal birth under special circumstances and following discussion with Obstetrician.
- **Placenta Praevia:** plan for elective caesarean section at 36 – 38 weeks' gestation
- **Placenta Accreta:** Although there is no international agreement on the timing, in cases of known placenta accreta, an elective caesarean section between 36 and 37 weeks' gestation, at tertiary unit, is advised to avoid labour and an emergency procedure.
- **Complicated, High Risk Praevia or Accreta:** If high risk of bleeding (e.g., previous self-limited episodes of antepartum haemorrhage or contractions) or higher levels of surgical difficulty (i.e. percreta), planning caesarean section at 34-35 weeks or earlier, at a tertiary unit, is reasonable.

Overall, timing needs to be individualised depending on the clinical picture and resources available.

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### **Inpatient management**

Inpatient management is recommended for patients with placenta praevia and antepartum haemorrhage (APH) in the third trimester.

- A current group and hold should be available for all women admitted with APH and known placenta praevia.
- Women should be encouraged to stay hydrated, remain mobile, and wear TED stockings. Prophylactic low molecular weight heparin should be considered for women at high risk of thromboembolism.

Antepartum haemorrhage should be managed in accordance with the Lakes Antepartum Haemorrhage Guideline 2499506.

## **6. Multidisciplinary pre-operative planning**

This should be planned and coordinated by the Consultant Obstetrician.

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### **Antenatal steroids for fetal lung maturation**

There should be good communication with the Paediatric team to ensure antenatal steroids are offered and recommended if any episodes of bleeding occur at <34+6 weeks' gestation.

Repeated doses of steroids are appropriate if recurrent episodes of bleeding occur <32 weeks or birth is planned <35 weeks.

Rescue steroids may be offered, up to two doses at weekly intervals prior to 32 weeks.

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### **Blood availability**

There should be consultation with a Haematologist and communication with Blood Bank to allow cross-matched red cells to be available during an antenatal inpatient admission for haemorrhage or for birth, and other products as necessary.

If there are known blood antibodies, a referral at 28-32 weeks to Blood Bank with the date of the caesarean section is needed.

## 7. Surgical Procedures

An experienced Obstetrician and Anaesthetist should be present for any woman going to the operating theatre with a known placenta praevia. Consideration should be given to having another Obstetrician available to assist should the need arise.

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### Unexpected diagnosis of placenta accreta/increta/percreta

In the case of an unexpected diagnosis of placenta accreta/increta/percreta at the time of surgery, consideration should be given to the safety of continuing surgery versus cessation of surgery and transfer to a tertiary unit. Involvement of a second Obstetrician and additional anaesthetic support in decision making is recommended.

In the case of an emergency surgical procedure being required for a woman at high risk of bleeding, where transfer is not possible due to patient instability, appropriate personnel should be called and be present in theatre;

- On-call Obstetrician and consider a second Obstetrician
- On-call Anaesthetist and consider a second Anaesthetist
- Consider General Surgeon
- Blood Bank
- Theatre Coordinator (with appropriate staff requested)
- Paediatric Consultant

## 8. Massive Postpartum Haemorrhage

Should be dealt with in accordance with the recommendations as for primary postpartum haemorrhage – see the Ministry of Health '[Treating Postpartum Haemorrhage Poster](#)' and the Lakes Adult Massive Transfusion Protocol (MTP) – Rotorua 585349.

In the event of life-threatening haemorrhage, appropriate and timely recourse to a peripartum hysterectomy is a life-saving measure.

## 9. Vasa Praevia

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### Risk Factors

- Velamentous cord insertion
- Bilobed, multilobed or succenturiate placenta
- Low-lying placenta or unresolved placenta praevia

### Clinical Risk Factors

- Multiple gestation
- Pregnancy through assisted reproductive technology

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### Prenatal Diagnosis and Care

See;

- Summary of Screening, Diagnosis & Management of Vasa Praevia flowchart ([Appendix 1.](#))
- Prenatally Diagnosed Vasa Praevia Care Pathway ([Appendix 3.](#))
- **Anatomy Scan:** Detection of vasa praevia is offered at the time of the anatomy scan.
- **Transvaginal Scan 28 – 32 weeks:** to confirm diagnosis of vasa praevia when any of the following features are present at the Anatomy Scan;
  - Low-lying fetal vessels (within 5cm of the cervical os)
  - Velamentous cord insertion
  - Low-lying placenta
  - Bilobed or multilobed placenta
- **Third Trimester Scan:** To avoid unnecessary admission, anxiety, iatrogenic preterm birth, and caesarean section, persistence of vasa praevia must be confirmed on ultrasound in the third trimester.
- **Prophylactic Corticosteroids** Women with known vasa praevia at 32 weeks should be given prophylactic corticosteroids due to the increased risk of fetal compromise and preterm birth.
- **Inpatient versus outpatient care from 32 weeks gestation:**
  - Consider the risk factors for preterm labour and antepartum haemorrhage.
  - Discuss with women who are asymptomatic with confirmed vasa praevia the potential benefits and harms of inpatient and outpatient options, access to hospital with emergency caesarean capacity and neonatal facilities within 30 minutes of their home.
- Women with low-lying fetal vessels (2-5cm from os) should receive ongoing outpatient appointments and assessment.



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## Birth Planning

- **Caesarean birth** in women with a diagnosis of vasa praevia;
  - With risk factors for preterm birth – caesarean from 34 weeks gestation.
  - Without risk factors for preterm birth – caesarean from 36 weeks gestation.
- The ultimate goal in vasa praevia cases is to facilitate birth prior to rupture of membranes whilst minimising the impacts of prematurity. Based on available data, planned birth via caesarean section is recommended at 34-36 weeks of gestation in asymptomatic women.

### Intrapartum Diagnosis

- Birth via emergency caesarean section and neonatal resuscitation, including the use of blood transfusion if required, are the standard of care for management of vasa praevia diagnosed during labour.
- Birth should not be delayed whilst trying to confirm the diagnosis.

### Suspected Ruptured Vasa Praevia

- The paediatric team, including the on-call Paediatrician, should be requested to be present at birth and the blood bank should be urgently contacted to ready red blood cells for neonatal transfusion.
- Placental pathological examination should be requested to confirm the diagnosis, especially when stillbirth has occurred or when there has been acute fetal compromise. (This will be performed in Auckland).

## 10. Audit Indicators

- Percentage of women with placenta praevia or suspected placenta accreta whose care has followed this guideline
- Percentage of women with placenta praevia or suspected placenta accreta who have the Placenta Praevia & Accreta Clinical Pathway available in their notes from 32 weeks onwards
- Percentage of women with placenta praevia or suspected placenta accreta that required emergency birth prior to the planned procedure, who had plans for both emergency and planned birth discussed and documented

## 11. Related Documents

- Antepartum Haemorrhage Guideline - 2499506
- Adult Massive Transfusion Protocol (MTP) – Rotorua - 585349
- Maternal Iron Optimisation Guideline - 1401933
- Placenta Praevia and Accreta Spectrum Clinical Pathway
- Prenatally Diagnosed Vasa Praevia Clinical Pathway

## 12. References

Canterbury DHB, 2019. Placenta praevia and accreta. <https://www.cdhb.health.nz/wp-content/uploads/5d39a5f1-glm0002-placenta-praevia-placenta-accreta.pdf>

Ministry of Health (2022). Treating Postpartum Haemorrhage Poster. [https://www.health.govt.nz/system/files/documents/publications/treating\\_postpartum\\_haemorrhage\\_1april22.pdf](https://www.health.govt.nz/system/files/documents/publications/treating_postpartum_haemorrhage_1april22.pdf)

Royal Australian and New Zealand College of Obstetricians & Gynaecologists (RANZCOG) 2023. Placenta Accreta Spectrum (PAS) (C-Obs 20) Clinical Guideline. <https://ranzcoq.edu.au/wp-content/uploads/Placenta-Accreta-Spectrum.pdf>

Royal Australian and New Zealand College of Obstetricians & Gynaecologists (RANZCOG) 2025. Vasa Praevia (C-Obs 47) Clinical Guideline. <https://ranzcoq.edu.au/wp-content/uploads/Vasa-Praevia.pdf>

Royal College of Obstetricians & Gynaecologists. 2018 Placenta praevia, placenta praevia accreta and vasa praevia: diagnosis and management. Green-top Guideline No. 27. <https://obgyn.onlinelibrary.wiley.com/doi/full/10.1111/1471-0528.15306>

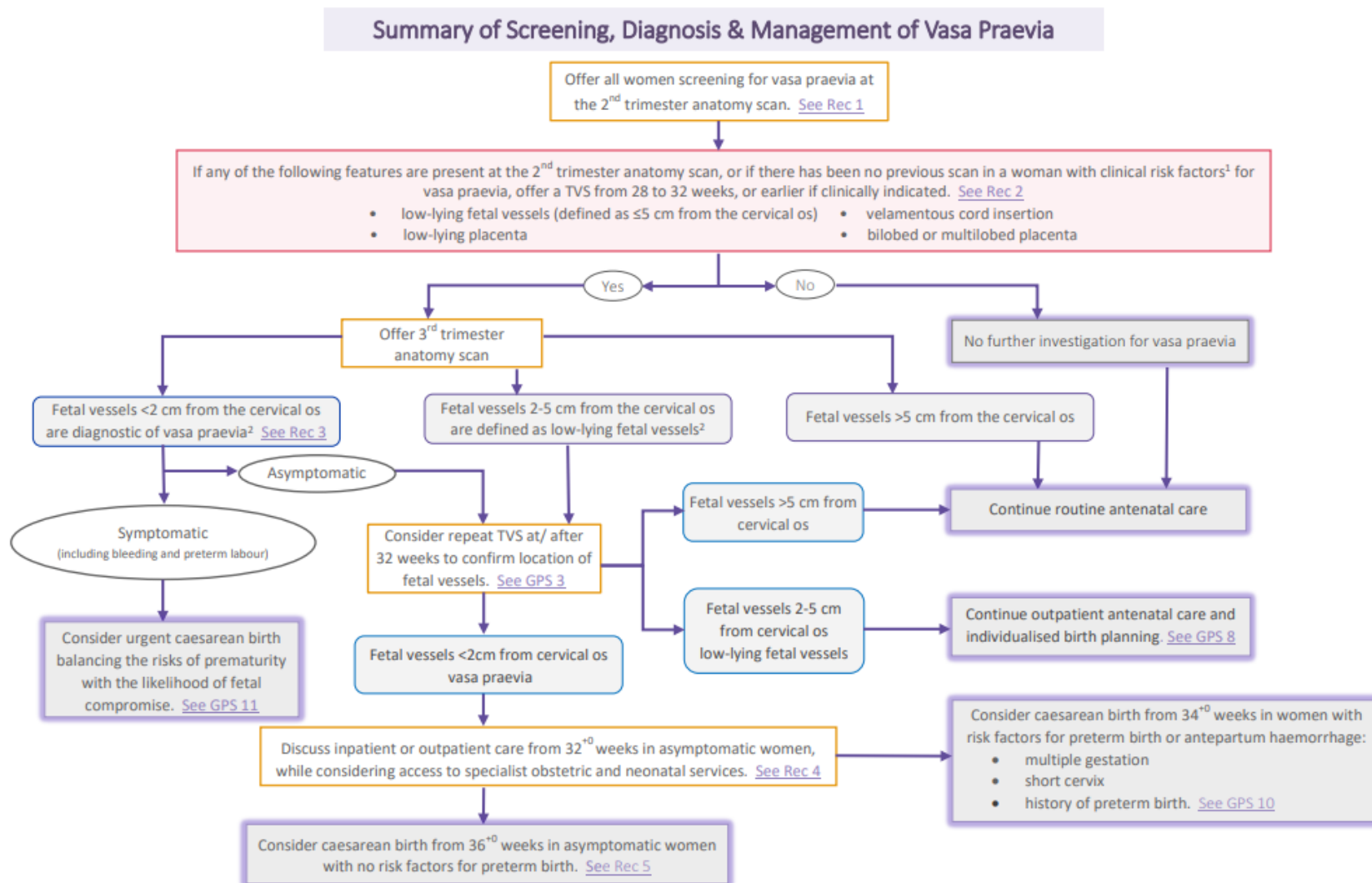
Waikato DHB, 2020. Management of Suspected Placenta Accreta, Percreta or Increta Guideline

**Authorised by: Maternity Clinical Quality Improvement Meeting**

## 13. Appendices

See over page.....

## Appendix 1. Summary of Screening, Diagnosis & Management of Vasa Praevia



<sup>1</sup>Clinical risk factors; multiple gestation and assisted reproduction [See GPS 5](#)

<sup>2</sup>There is no consensus among experts about a definition of "a safe distance of fetal vessels from the cervix"



## Placenta Praevia & Accreta Spectrum Clinical Pathway

<b>20w USS Diagnosis:</b>	<input type="checkbox"/> Placenta : <input type="checkbox"/> <i>Praevia</i> <input type="checkbox"/> <i>Low Lying</i> Distance from Os:.....cms <input type="checkbox"/> Suspected Placenta Accreta Spectrum
<b>History:</b>	<input type="checkbox"/> Previous Caesarean Section or other uterine surgery: <input type="checkbox"/> Yes : <i>Arrange:</i> <input type="checkbox"/> <i>Colour Flow Doppler Ultrasound Scan at 32 weeks</i> +/- <input type="checkbox"/> <i>MRI Scan: if uncertain USS diagnosis or other reasons</i>
<b>32 w USS / MRI Results:</b>	<input type="checkbox"/> Placenta: <input type="checkbox"/> <i>Praevia</i> <input type="checkbox"/> <i>Low Lying</i> Distance from Os:.....cms <input type="checkbox"/> Suspected Placenta: <input type="checkbox"/> <i>Accreta</i> <input type="checkbox"/> <i>Increta</i> <input type="checkbox"/> <i>Percreta</i>
<b>Advice to Patient:</b>	<input type="checkbox"/> Informed of implications – risk of bleeding, blood transfusion, hysterectomy <input type="checkbox"/> Discussed anaesthetic & other surgical measures and contingencies <input type="checkbox"/> Must seek early, urgent assistance if bleeding, pain or any other concerns <input type="checkbox"/> May need inpatient stay if ongoing episodes of bleeding <input type="checkbox"/> Accreta Spectrum: must be within 30 mins of hospital after 32 weeks, or earlier if bleeding
<b>Future Fertility:</b>	Ascertain the patient's wishes for future fertility.
<b>Tertiary Referral:</b>	Refer to Tertiary Unit if: <input type="checkbox"/> Complicated Placenta Praevia <input type="checkbox"/> Suspected Accreta/Increta/Percreta <input type="checkbox"/> High BMI <input type="checkbox"/> Previous Surgery <input type="checkbox"/> Need for cell salvage <input type="checkbox"/> Patient declines blood products.

If continuing with local / Secondary Unit care;	
<b>Birth Planning:</b>	<input type="checkbox"/> Vaginal Birth – specific case of low lying placenta, Obstetrician has discussed risks <input type="checkbox"/> Caesarean Section booked for 36-38 weeks <input type="checkbox"/> Anaesthetic referral sent <input type="checkbox"/> Pre-admission clinic assessment arranged <input type="checkbox"/> If antibodies, inform Blood Bank, incl. date of C Section
<b>Bloods:</b>	<b><i>Avoid anaemia: Recheck Hb and Ferritin</i></b> <input type="checkbox"/> 32 weeks: <input type="checkbox"/> 36 weeks:
<b>36w USS &amp; Results</b>	<b><i>If Placenta Praevia - recheck placental position;</i></b> <input type="checkbox"/> Placenta: <input type="checkbox"/> <i>Praevia</i> <input type="checkbox"/> <i>Low Lying</i> Distance from Os:.....cms

<b>Day of Birth:</b>	<input type="checkbox"/> Inform Blood Bank <input type="checkbox"/> Consider additional Obstetric Consultant on standby:
<b>Bleeding Prior to Planned Surgery:</b>	<b><i>If profuse bleeding prior to day of planned surgery;</i></b> <input type="checkbox"/> IV Access – X2 cannula's <input type="checkbox"/> Consent for C Section +/- Hysterectomy <b><i>Inform the following asap;</i></b> <input type="checkbox"/> On call Obstetric Consultant <input type="checkbox"/> On call Anaesthetist <input type="checkbox"/> Clinical Midwife Coordinator OR Midwife in Charge <input type="checkbox"/> Theatre Coordinator <input type="checkbox"/> SCBU <input type="checkbox"/> Blood Bank: * specify if antibodies <input type="checkbox"/> request cross match 6 units

DO NOT WRITE IN THIS BINDING MARGIN

EDMS # 2651616 Version 1.1 Date: November 2025

Placenta Praevia & Accreta Clinical Pathway

## Prenatally Diagnosed Vasa Praevia Care Pathway

(To be read in conjunction with the Antepartum Haemorrhage Guideline 2499506)

**All cases of vasa praevia, low lying vessels and resolved vasa praevia are to be referred to the High Risk Clinic at Rotorua Hospital.**

20w USS Diagnosis:	<input type="checkbox"/> Vasa Praevia : <input type="checkbox"/> Traversing region of internal os <input type="checkbox"/> Located within 2cms of the internal os
Advice to Patient:	<input type="checkbox"/> Not to stand for prolonged periods <input type="checkbox"/> Present to hospital immediately if any signs or symptoms of labour and/or bleeding <input type="checkbox"/> Not to engage in coitus <input type="checkbox"/> Avoid moderate or strenuous exercise <input type="checkbox"/> If it persists consider inpatient admission from 32 weeks <input type="checkbox"/> Birth by caesarean section at 34-36 weeks
28w USS:	<input type="checkbox"/> Referral for: For transabdominal and transvaginal Colour Flow Doppler USS & assess growth.
28w USS Results:	<input type="checkbox"/> Vasa Praevia: <input type="checkbox"/> Located <2cm from cervical. <input type="checkbox"/> Low Lying Vessels: <input type="checkbox"/> Located 2-5cms of the internal os. <i>Risk remains, plan birth.</i> <input type="checkbox"/> Resolved: <input type="checkbox"/> Located >5cms of the internal os. <i>Routine care.</i>
Steroids @ 32wks:	<input type="checkbox"/> Assess need for antenatal steroids for fetal lung development <input type="checkbox"/> Steroids required & prescribed Date Given: ..... <input type="checkbox"/> Steroids not required
32w USS	<input type="checkbox"/> Repeat Transvaginal Colour Flow Doppler USS, assess growth
32w USS Results:	<input type="checkbox"/> Vasa Praevia: <input type="checkbox"/> Located <2cm from cervical. <i>See below.</i> <input type="checkbox"/> Low Lying Vessels: <input type="checkbox"/> Located 2-5cms of the internal os. <i>Outpatient care, plan birth.</i> <input type="checkbox"/> Resolved: <input type="checkbox"/> Located >5cms of the internal os. <i>Routine care.</i>

### Low Lying Vessels

Advice to Patient:	<input type="checkbox"/> Continued risk of rupture of the exposed and unprotected vessels.
Low Lying Vessels Birth Planning:	<input type="checkbox"/> Elective Caesarean Section at .....weeks OR <input type="checkbox"/> Vaginal Birth with; <input type="checkbox"/> Pre-emptive plan for emergency caesarean in place <input type="checkbox"/> Advise early admission once in labour or after rupture of membranes <input type="checkbox"/> Continuous CTG monitoring while in labour <input type="checkbox"/> Caution on birth of the placenta to avoid cord avulsion <input type="checkbox"/> Inform LMC

### Ongoing Vasa Praevia

Advice to Patient:	<input type="checkbox"/> Continued risk of rupture of the exposed and unprotected vessel <input type="checkbox"/> Consider inpatient or outpatient care from 32 weeks, consider access to Obstetric & Neonatal services.
Vasa Praevia Birth Planning:	<input type="checkbox"/> No Preterm Birth Risk Factors: Consider caesarean from 36 <sup>+</sup> weeks: .....wks <input type="checkbox"/> Preterm Birth or APH Risk Factors: Consider caesarean from 34 <sup>+</sup> weeks: .....wks <input type="checkbox"/> History of PTB <input type="checkbox"/> Multiple gestation <input type="checkbox"/> Short Cervix

DO NOT WRITE IN THIS BINDING MARGIN

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Prenatally Diagnosed Vasa Praevia Care Pathway