Breech Birth

Document Type | Guideline
--- | ---
Function(s) | Clinical Practice, Patient Care
Directorate(s) | Women’s Health
Department(s) affected | Auckland DHB Maternity
Patients affected (if applicable) | All maternity patients
Staff members affected | All clinicians in maternity
Key words | Labour, delivery
Author - role only | Senior Medical Officer - Women’s Health Anaesthesia
Owner (see ownership structure) | Service Clinical Director - Secondary Maternity Services
Edited by | Clinical Policy Advisor
Date first published | January 2007
Date this version published | 13 February 2018 - updated
Review Frequency | 3 yearly
Unique Identifier | NMP200/SSM/068 - v05.00

Contents

1. Purpose of guideline
2. Introduction
3. Diagnosis of breech flowchart
4. External cephalic version (ECV)
   4.1. Booking an ECV
   4.2. Absolute contra-indications for ECV
   4.3. Relative contra-indications for ECV
5. Tocolysis for ECV
6. Anaesthesia to facilitate ECV
7. Eligibility for planned vaginal birth
8. Management of breech that is first diagnosed in labour
9. Management of breech presentation in labour and birthing suite (L&B)
10. Supporting evidence
11. Associated Auckland DHB documents
12. Disclaimer
13. Corrections and amendments
1. Purpose of guideline

This guideline establishes the care of women and their babies presenting with breech birth within Auckland District Health Board (Auckland DHB).

2. Introduction

Approximately 3 - 4% of singleton births involve a breech presentation. Experience with vaginal breech birth is reducing in “westernised” healthcare settings with the trend towards caesarean section (CS).

Vaginal breech births do still occur in Labour and Birthing Unit (L&B) including second twins. All practitioners need both an understanding of mechanisms of birth and the skills required for the safe conduct of such a birth.

**Term breech trial** (see Hannah *et al.*, 2000 in [supporting evidence](#))
- overall absolute risk of perinatal mortality 1:200, morbidity 1:20
- risks of vaginal breech birth may have been overstated

With strict criteria before and during labour, planned vaginal birth of the singleton breech at term remains a reasonable option to offer to selected women (see Goffinet *et al.*, 2006 in [supporting evidence](#) for the PREMODA study group)

In order to individualise care, a full and frank discussion with the women and her partner on the risks of the vaginal breech birth and caesarean birth should be undertaken and documented.
3. Diagnosis of breech flowchart

**Diagnosis of breech on abdominal palpation (LMC)**

- Confirm breech presentation by 34 week USS

**Woman consents for ECV**
LMC refers to DAU by phone and fax to book appointment. Nullip 36 weeks multip 37 weeks. DAU emails CS scheduler to provisionally book Elective LSCS for 39 - 40 weeks. LMC confirms still breech around 35 weeks - if cephalic cancel DAU appointment.

**First ECV unsuccessful**
DAU informs LMC by phone and documents in Healthware

**Offer ECV under Spinal Anaesthetic** in next available slot, unless 2nd ECV likely successful in DAU. Confirm ECV appt with DAU.

**Second ECV unsuccessful or declined**
DAU informs LMC by phone and documents in Healthware

**Discuss re mode of birth**

**Planned vaginal birth if eligible**
(see box below)

**LMC or consultant obstetrician books elective LSCS for 39 - 40 weeks**

**Document plan**

**Absolute contra-indications for ECV**
- LSCS is planned on other grounds
- Multiple pregnancy
- Placenta praevia
- Oligohydramnios
- Abnormal Dopplers

**Relative contra-indications for ECV**
- Ante-partum haemorrhage
- Uterine structural anomalies

**Eligibility for planned vaginal birth**
- No fetal growth concerns
- Normal liquor
- Head flexed
- Not footling/knee presentation
4. External cephalic version (ECV)

ECV must be performed by suitably trained health professionals (obstetrician or midwife practitioner) where there is facility for emergency caesarean section if needed. There is low risk of complications, with approx. 0.5% requiring an emergency LSCS. The success rate was 49% at Auckland DHB in 2015.

Sixty-nine percent of women who had a successful ECV achieved a vaginal birth at Auckland DHB in 2015.

All women with a breech presentation at term, and no contraindication to ECV, should be informed about and offered ECV (RANZCOG).

4.1. Booking an ECV

- Give patient the Auckland DHB pamphlet “Turning Breech Babies or External Cephalic Version (ECV)” to woman (can print off Auckland DHB website)
- At 34 weeks if known, or when diagnosed after 34 weeks, phone DAU to book ECV
- FAX to DAU:
  - Day assessment unit (DAU) Referral form (CR8791)
  - Dating ultrasound scan (USS)
  - USS confirming breech presentation
- An appointment should be organised for 36 weeks for nullips or 37 - 38 weeks for multips
- If > 38 weeks, an appointment should be organised as soon as possible

4.2. Absolute contra-indications for ECV

- LSCS is planned on other grounds
- Multiple pregnancy
- Placenta praevia
- Oligohydramnios
- Abnormal Dopplers

4.3. Relative contra-indications for ECV

- Ante-partum haemorrhage (dependent upon cause, severity and gestation at which APH occurred)
- Uterine structural anomalies (dependent upon anatomy)

Note:

- Previous caesarean section is NOT a contra-indication to ECV
- SGA with normal liquor and Dopplers is NOT an absolute contraindication to ECV

5. Tocolysis for ECV

Nifedipine, GTN or salbutamol may be considered at the discretion of the operating practitioner to provide uterine relaxation (Dufour et al., 1997; Tan et al., 1989; Wilcox et al., 2011). Suggested dosing and monitoring are detailed in Oxytocin (Syntocinon) for Induction and Augmentation of Labour in associated Auckland DHB documents.
6. Anaesthesia to facilitate ECV

Evidence from randomised controlled trials and meta-analysis suggests that the addition of an anaesthetic, but not analgesic, neuraxial block approximately doubles the success rate of ECV, independent of the superior comfort afforded by the anaesthetic.

Selection for anaesthesia-assisted ECV

Because of the additional resources required and more medicalised atmosphere of an operating theatre compared to a clinic room, only women who fulfil one or more of the criteria below would normally be offered a spinal anaesthetic to facilitate their ECV:

- Failed ECV in DAU
- Advanced gestation (37/40 or above) at referral for ECV
- Women with chronic pain, in particular pelvic arthropathy
- Algophobia
- Refusal of ECV in DAU

Arranging an anaesthesia-assisted ECV

The next available date for ECV with anaesthesia assistance should be confirmed by DAU. The case should be booked through the Elective Caesarean Section Booking Clerk using CR2952: Elective Caesarean Booking Form (see clinical forms), stating which date and time has been allocated by DAU. Estimated case duration is 45 minutes.

Ideally surgical consent should be taken at the time of booking.

The Pre Assessment Health Questionnaire CR2049 (see clinical forms) should be completed by the woman and faxed to the Level 9 Anaesthetic Department (ext. 25058). This will be reviewed by an anaesthetist prior to the ECV to reduce the risk of cancellation on the day of admission.

Patients do not need to attend the preop assessment clinic prior to their ECV. Unless there is potential for thrombocytopenia or other coagulation abnormalities, blood tests are not routinely required.

Fasting Instructions to be given to the woman

- Water and/or clear oral fluids (up to 200mL/hour) can be drunk up to 2 hours prior to their report time.
- Otherwise, nothing orally for 6 hours
- The woman should aim to have a full bladder for the procedure

Ranitidine 150 mg tablets should be prescribed and given to the woman, one 150 mg tablet to be taken the night before the procedure and one x 150 mg tablet on the morning of the procedure. Reporting date and time should be recorded on the instruction leaflet in the spinal ECV pack, as no separate appointment letter will be sent.

Sequence of events

The woman should report to Level 9 Operating Rooms on Day of Admission (ORDA) where anaesthetic consent will be obtained.

The ECV midwife is provided by Women’s Health and is booked in advance by level 9 Operating Roomsto facilitate CTG monitoring in the Post Anaesthesia Care Unit (PACU).
An Obstetric Ultrasound Machine and CTG monitor will be borrowed from Ward 91 for the duration of the ECV list.

**Anaesthesia and Theatre procedure**

A dense anaesthetic block to cold to at least T6, and ideally T4 or above is recommended. This provides the necessary analgesia and abdominal wall muscle relaxation to facilitate the ECV, and provides surgical anaesthesia in the event of an emergency caesarean section being required.

Recommended intrathecal drugs (standard for CS):
- Heavy Bupivacaine 0.5% 2.1mLs (10.5 mg) to 2.7mLs (13.5 mg)
- Fentanyl 10 - 20 mcg
- Long acting intrathecal opioids are NOT RECOMMENDED and should not be administered.

An in/out urinary catheter is recommended at the end of the procedure. Intravenous fluids should be limited to avoid polyuria and bladder distension.

**Post procedure monitoring**

The woman will be transferred to PACU. Continuous CTG monitoring will be undertaken by the ECV midwife, which can be discontinued after a minimum of 20 minutes if no abnormalities are detected. The CTG should be continued beyond 20 minutes and appropriate advice sought if it is abnormal.

It is vital to ensure normotension to maintain placental perfusion. Wedge of the women’s hips or full left lateral position should be ensured at all times during the procedure and recovery.

Once the woman is stable and the CTG is discontinued, she can be transferred to the Transition Lounge. The woman can be discharged home from the Transition Lounge when she has:
- Voided effectively (consider urinary catheter if not voided 6 hours post-procedure)
- Taken food and drink without nausea/vomiting
- Able to mobilise independently without weakness or numbness

The ECV midwife should inform the LMC of the outcome of the ECV and ensure that appropriate counselling on mode of delivery has been undertaken. This should be communicated to the LMC by telephone and documented in Healthware.

### 7. Eligibility for planned vaginal birth

- No fetal growth concerns
- Normal liquor
- Head flexed
- Not footling/knee presentation
8. Management of breech that is first diagnosed in labour

Early diagnosis of breech presentation is imperative to enable optimal management. This involves an abdominal palpation and vaginal examination on admission.

Confirmation of presentation should be made by portable USS by a suitably trained person if there is any doubt.

Breech presentation in labour requires urgent referral for consultation, to consultant obstetrician on call.

In determining the preferred mode of birth, the consultant obstetrician should consider:
  • management of breech presentation diagnosed in labour is NOT the same as the management of planned vaginal breech birth as per term breech trial
  • gestational age and other eligibility criteria for vaginal breech birth as above
  • whether caesarean section (CS) can be effected prior to spontaneous vaginal birth, without the need for undue haste that might further endanger the mother and the baby
  • fetal well-being as determined by CTG
  • increased fetal risks of vaginal breech delivery
     o possibility of undiagnosed congenital abnormalities
     o undiagnosed hyperextension of the fetal head (RANZCOG)
  • increased maternal risks of emergency CS
  • anaesthetic considerations such as no group and screen or the non-fasted woman
  • potential technical difficulties delivering the fetus at CS if the breech is very low in the pelvis

All aspects of the discussion regarding mode of delivery in this context must be fully and contemporaneously documented.
  • informed consent should be obtained from the woman
  • best practice is a three way conversation between the woman, her LMC and the obstetrician

9. Management of breech presentation in labour and birthing suite (L&B)

See above section 8 for management of breech first diagnosed in labour (i.e. vaginal breech birth not previously planned).

On admission, consultation with the obstetric team on call is required.

For planned vaginal breech birth, do the following:

Labour
  • Advise and admit to L&B when in established labour
  • Review birth plan and ensure competent personnel available
  • IV luer, group and hold
  • Clear Fluids only orally and Ranitidine prophylaxis as per Ranitidine in Labour guideline (see associated Auckland DHB documents)
  • Continuous CTG monitoring in established labour (FSE not contraindicated if required)
  • Good support, adequate analgesia (inclusive of epidural) of the woman’s choice
• Oxytocin (Syntocinon®) augmentation should only be used if advised by consultant obstetrician

Birth
• Ensure full dilation confirmed by vaginal examination
• Availability of a suitably experienced obstetrician in the room during second stage
• Consider passive descent of breech into pelvis if epidural
• Neonatal staff members present at birth
• Anaesthesia team on call and clinical charge midwife (CCM) notified of imminent birth
• Plan should be re-evaluated if not born after 60 minutes of active pushing

10. Supporting evidence

11. Associated Auckland DHB documents

- Access Holders in Women's Health
- Caesarean Section (CS) - Pre, Peri & Post-Op Care
- Fetal Surveillance Policy
- Oxytocin (Syntocinon) for Induction and Augmentation of Labour
- Postpartum Haemorrhage (PPH) Prevention and Management
- Ranitidine in Labour

Clinical Forms:
- CR2049: Pre-Assessment Health Questionnaire
- CR2952: Elective Caesarean Booking Form
- CR8791: National Women’s Health Day Assessment Unit Referral

12. Disclaimer

No guideline can cover all variations required for specific circumstances. It is the responsibility of the health care practitioners using this Auckland DHB guideline to adapt it for safe use within their own institution, recognise the need for specialist help, and call for it without delay, when an individual patient falls outside of the boundaries of this guideline.

13. Corrections and amendments

The next scheduled review of this document is as per the document classification table (page 1). However, if the reader notices any errors or believes that the document should be reviewed before the scheduled date, they should contact the owner or the Clinical Policy Advisor without delay.