



Abnormal Presentation

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Objectives:

- 1. Define fetal malpresentations.
- 2. List the predisposing factors for malpresentations.
- 3. Identify the types of fetal malpresentations and the recommended delivery options for each.





PRELUDE

Fetal presentation: It is which part of the fetus occupies the pelvis eg. cephalic, breech, shoulder presentation

Portion of the fetus overlying the pelvic inlet. The **most common presentation is cephalic**. This is 96% of fetuses at term.

- Cephalic: head presents first.
- **Breech:** feet or buttocks present first. The major risk of vaginal breech delivery is entrapment of the after-coming head.
 - **Frank** breech means thighs are flexed and legs extended. This is the only kind of breech that potentially could be safely delivered vaginally.
 - **Complete** breech means thighs and legs flexed.
 - **Footling** breech means thighs and legs extended.
- **Compound:** more than one anatomic part is presenting (e.g., head and upper extremity).
- Shoulder: presents first.

Fetal lie: the relationship of the longitudinal axis of the fetus to longitudinal axis of the

mother, The most common lie is longitudinal.

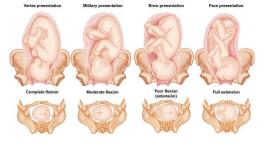
There are three (3) lies:

- Longitudinal: fetus and mother are in same vertical axis
- Transverse بالعرض: fetus at right angle to mother
- Oblique: fetus at 45° angle to mother

Fetal Attitude:

this is the relationship of the different parts of the baby to each others, usually flexion attitude.

- 1. Vertex: head is maximally flexed (this is normal)
- 2. Military: head is partially flexed
- 3. Brow: head is partially extended
- 4. Face: head is maximally extended

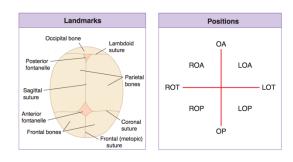






Fetal Position:

Relationship of a definite presenting fetal part to the maternal bony pelvis. It is expressed in terms stating whether the orientation part is anterior or posterior, left or right. The most common position at delivery is occiput anterior.



Landmarks:

- Vertex presentation: the landmark is **the Occipital bone** with a flexed head (normal)
- breech presentation: the landmark is the Sacrum
- Face presentation: the landmark is **the Mentum (chin)** with an extended head.
- Brow presentation: the landmark is **the Frontal bone** with partially extended head.

1- Breech presentation يعني المقعدي. The commonest

- Feet and buttoks present first.
- Incidence is 3% in term babies.

الأمهات لما يعملوا US في الأسبوع ال32، 31، 28 طبيعي إنهم يلاقوا أطفالهم برييتش برزنتيشن بعدين في نهاية الحمل على الأسبوع 36 بيرجع الطفل للبزشن العادي فما يحتاج نسوي لهم شي لو كان breech خلال 28,31,32

بالنسبة لعند التيرم، إذا كانت الأم بريتش أدخلها بكرة لعملية C-Section ولازم أسوي US للأم قبل آخذها للثبيتر لأن الطفل يرجع لوضعه الطبيعي غالبا. So the baby will always turn at the end unless if it was a big baby at term





TYPES (important in OSCE and MCQs)

Complete breech	Frank breech	footling breech (Incomplete)
the leg are flexed at hip joint and knee joint	flexed hip but extended knee joint U shape رجله بوجهه، شکله طالع مثل	with extended hip and knee joints and high buttocks (either uni- or bilaterally) Very dangerous, could lead to cord prolapse ¹

ماهو أكيد السبب ?WHAT CAUSES A BREECH PRESENTATION

Fetal causes	Maternal causes
 All related to fetal movement restriction: Hydrocephalus Poly hydroniums ويتقلب كثير فيصير البيبي يتحرك ويتقلب كثير Oligohydramnios يكون بريتش من الشهر الثامن مثلا Oligohydramnios الوضع والموية قليلة فما تساعده على الحركة والتقلب فيكمل بهذا Placenta Previa Short umbilical cord على وضعه يلى وضعه وحتى اللونق لأنه ما يشمح له يتحرك ويثبته ويخليه يتحرك كثير 	 The most common cause of breech presentation is PRETERM LABOR. البريتش لأن مثل ما كتبت فوق يكون كومون بالسابع او الثامن فلما تولد بدري بتكون أكثر عرضه للبريتش Uterines anomalies fibroid uterus Small pelvis

لانه السير فكس مب كله مقفل بالرأس مثلا وبيكون فيه فراغات حوالين الرجل النازلة فيمكن ينزل معها أي شيء ثاني. 1





Management:

Patients are offered the options of:

- vaginal breech delivery²
 - Complications: Cord prolaps, lower limb fracture, abdominal organs injuries, brachial plexus nerve injuries, Difficulties in delivering the head and intracranial bleeding.
- c-section •
- External cephalic version •

BOX 13-4 CRITERIA FOR VAGINAL DELIVERY OF PRESENTATIO Fetus must be in a frank or complete breech presentation.

Gestational age should be at least 36 weeks. Estimated fetal weight should be between 2500 and 3800 g. Fetal head must be flexed.

Maternal pelvis must be adequately large, as assessed by x-ray pelvimetry* or tested by prior delivery of a rea-sonably large baby. There must be no other maternal or fetal indication for

cesarean delivery.

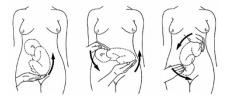
Anesthesiologist must be in attendance. Obstetrician must be experienced. Assistant must be scrubbed and prepared to guide the fetal head into the pelvis.

EXTERNAL CEPHALIC VERSION (ECV):

A procedure in which the obstetrician manually converts the breech fetus to a vertex presentation through external uterine manipulation under ultrasonic guidance. صعبه لكن بعض الأمهات أمور هم تمشى

- لا تسويه بدري لأن البيبي احتمال يرجع يقلب. Done after 38 weeks.
- If blood group is rhesus negative should receive anti D immunoglobulin.
- It should be done in the theater with everything ready for c-• section.

البر إيماقر يفدا صعب تسويه لها لأن البلفك مسلز تكون قويه فما أقدر ألف البيبي



Contraindications: .

- Contracted pelvis
- Scar uterus (Previous caesarian section or myomectomy)
- placenta previa
- hypertensive patient

Complications:

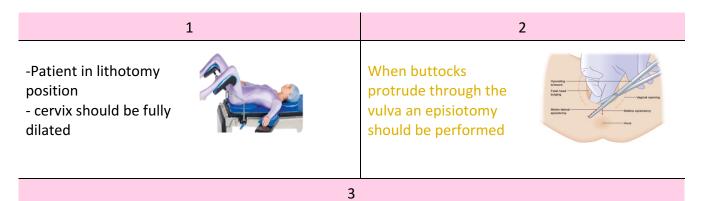
- Membrane rupture
- uterine rupture
- abruptio placenta
- cord prolapse

² It can be managed by vaginal but now people worried about breech and always go for Csection, but the mother has the right to go for CS or vaginal

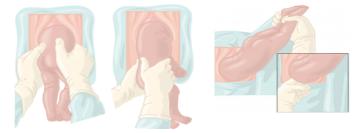




Management of breech delivery:



- Legs are delivered easily unless it is an extended that need to be flexed.
- With delivery of the umbilicus small loop of cord is pulled down to feel the pulsations.
- Then delivery of both arms first the anterior then the posterior.



4- Delivery of the head ³			
Burn Marshal manoeuvre	Jaw flexion shoulder traction	Obstetrical forceps	
Keep the baby hanging to promote head Flexion		for the after coming head	
A Exercise to rest			
A. Extraction of anterior arm. B. Extraction of posterior arm. B. Extraction of posterior arm. Barwest G. D. Pasters, Lessica OY. A. Black, G. D. Janest Human Labor & Birth, eth Edition			

³ The after coming head is where thing get stuck especially if the head is in extended potion and stuck at the pelvic, you may try and pull the baby but it may suffocate, so never pull the baby's head it will come down because of the body weight. Or you can put your finger inside the baby's mouth to flex the head





2-Face presentation

- Occurs as the result of complete extension of the head.
- The incidence is about 1 in 500 deliveries. نادر
- The presenting diameter of the face is the submento-bregmatic, which measures 9.5 cm

Etiology

- In majority of case the cause is unknown but is frequently attributed to excessive tone of • the extensor muscles of the fetal neck, extreme prematurity, high maternal parity.
- Rare causes like tumor of the neck, thyroid, thymus gland and cord around the neck (as it prevents flexion).

Diagnosed

in labor by **palpating** the nose, mouth, and the eyes on vaginal examination.

MODE OF DELIVERY: It depends on the attitude of the baby

Mento-anterior (chin on pubis)	Mento-posterior (chin on spine)	
Chin of the baby is facing the anterior of the mum.	The chin of the baby is at the posterior of the mum	





vaginal delivery is possible and the head is delivered by flexion using forceps



Vaginal delivery is not possible and patient should be delivered by caesarian section

3- Brow presentation More rare

- The incidence is about 1 in 2000 deliveries. •
- It occurs when there is less extension of the fetal head than that seen • in face presentation, midway between face and vertex presentation. الرأس لاهو فلكسد ولاهو اكستندد
- The presenting diameter is mento-vertical (13.5 cm), which is very long so it will be hard for it to go out
- diagnosed in labor by palpating the anterior fontanelle, supra orbital ridges, and nose on vaginal examination.
- Delivery is by caesarian section.







4- SHOULDER PRESENTATION

- Due to oblique or transverse lie in labor.
- Common in women with high parity. لأن من كثر ما تحمل وتولد بيروح التون
 حق اليوترس ويصير لاكسد، مثل البلونه لو قعدت أنفخها وأنفشها بالنهاية بيطلع شكلها
 حق اليوترس ويصير لاكسد، مثل البلونه لو قعدت أنفخها وأنفشها بالنهاية بيطلع شكلها
- Also occurs in placenta previa, uterine anomalies, and pelvic tumors.
- If diagnosed in early labor with intact membrane and no other pathology external cephalic version can be tried.
- In case of rupture of the membranes exclude cord prolapse.
- Delivery of shoulder presentation in labor with rupture membrane is by emergency caesarian section.

Summary

vertex presentation	 The most common presentation of the fetus. The head is maximally flexed. Landmarks: occiput. Engaging diameter: suboccipitobregmatic (9.5) Management: normal position → simple vaginal delivery.
breech presentation	 the most common malposition. Feet and buttocks present first. types: complete: Flexed legs at hip and knee joints. Frank: flexed at the hip joints and extended at knee joints. Incomplete(footling): Extended legs at hip and knee joints. Management: Patients are offered the options of vaginal breech delivery, external cephalic version, or c-section.
brow presentation	 partial extension. Landmark: frontum. Engaging diameter: verticomental (13.5) Management: C-section most of the time because of the large diameter unless if the fetus is small and the pelvis is large.







pro	face esentation	 complete extension. Landmark: mentum. Engaging diameter: submentobregmatic (9.5) Management mento-anterior (chin on pubis):Vaginal delivery is possible and the head is delivered by flexion. mento-posterior (chin on spine):Vaginal delivery is not possible and patient should be delivered by caesarian section. 			
	MCQs				
	1- which of t A- vertex.	he following is norma B-brow.	l presentation? C-breech.	D-face.	
	2- Which of t A- vertex.	he following has the I B-brow.	argest engaging dian C-face.	neter?	
	 3- a 26 y/o female in the labor room, when the physician performs a vaginal exam he felt one foot of the baby. what is the type of presentation? A-complete breech. C-frank breech. D- vertex. 				
	4- What is th A- vertex.	e most common fetal B-brow.	malposition? C-breech.	D-face.	

Answers: 1-A. 2-B. 3-B. 4-C.