Cephalopelvic Disproportion (CPD)

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What Is CPD?
Cephalopelvic Disproportion (CPD) is the medical diagnosis used when an infant's head is declared too big to fit through the mother's pelvis. Often, this diagnosis is made after the woman has labored for some time, but other times, it is entered into a woman's medical record before she even labors. A misdiagnosis of CPD accounts for many of the unnecessary cesareans performed in North America and around the world annually. This diagnosis does not have to impact a woman’s future birthing decisions. Many actions can be taken by the expectant mother to increase her chances of birthing vaginally.

Absolute vs. Relative CPD

Absolute CPD is very rare and may be diagnosed in the following circumstances:

1. The mother sustained a severe pelvic injury.

2. The mother suffered from malnutrition as a child (i.e. rickets).

Research tells us that the term "absolute," may be too strong. Many women who are told that they have "absolute CPD" go on to have vaginal births. Even women who have had damage to their pelvic structure from severe malnutrition or a pelvic injury can sometimes go on to birth vaginally. In one study, 68% of women diagnosed after labor with “absolute CPD” still went on to have a vaginal birth. However, in extremely rare cases, true absolute CPD does exist, usually in the context of severe malnutrition or a permanent injury.¹

Relative CPD (also known as FPD - Feto-Pelvic Disproportion) is the supposed inability of a baby to navigate through the mother's pelvis, perhaps due to one of the following reasons:

1. Position of the baby's head - The baby may have his head straight or tilted back instead of flexed with chin to chest. The baby's head may also be asynclitic (tilted to the side).
2. Nuchal arm or hand - The baby may have her hand(s) or arm(s) raised to her head.

3. Posterior position - Baby is facing mother's front instead of back.

4. Other malposition of the baby's head - The back of the baby's head may be facing sideways and has arrested in that position (transverse arrest). Occasionally, this happens as the baby tries to turn during labor into a more favorable position. Also brow or face presentations, where other parts of the baby's head present first instead of its crown, may cause the baby to not be able to descend.

5. Misalignment of the pelvis - The mother's pelvis could be misaligned due to many factors (mild pelvic jarring due to falls, sports injuries, or car accidents). Many women report this to be generally well-treated with chiropractic care.

6. Restriction of movement - Limitations on mother's mobility in labor are very common due to hospital policy, epidural anesthesia, and/or continuous fetal monitoring.

7. Rupture of membranes - The breaking of the mother's waters, either naturally or artificially by her care provider, can cause the baby to drop into the pelvis in an unfavorable position. An arbitrary and artificial time limit being placed on labor may not allow the laboring woman's body enough time to birth.

Understanding the Mechanics of Birth
A woman's pelvis is flexible and is made to open during birth. When there is interference with the birth process (induction before baby is ready, mother’s movement is restricted, etc.), the pelvis is not able to open to its maximum. The baby's head molds (changes shape) during labor and delivery in order to fit through the pelvis. Neither the pelvis nor the baby's head are fixed in one position; both expand and shift as labor progresses. A birthing woman's pelvis is most likely to expand freely and accommodate the baby when the following conditions are present:

The birth takes place when the baby is ready and when natural birth hormones are present. The laboring woman moves freely to her comfort level. Adequate time is allowed for the molding of the baby's head.

CPD Myths
Some care providers will tell women that the following factors may prevent their babies from fitting through their pelvises. Many of these statements lack valid research and some of them have been actively disproved. Many women have had vaginal births despite meeting one or more of these criteria.

1. Your sacrum is prominent, protruding, or flat.

2. You were previously diagnosed with CPD or Failure to Progress (FTP).

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3. Your baby is too large.
4. You have a narrow pubic arch.
5. Your pelvic dimensions are too small.
6. You have an android/platypelloid pelvis.
7. Your partner is tall.
8. You are too short.
9. Your shoe size is too small.
10. You are petite.
11. You and your partner are different races.
12. You are obese and fatty tissue is padding your pelvis making it more difficult for your baby to fit through.

Many women who are diagnosed with CPD go on to birth larger babies vaginally.

**Pelvimetry**
If you have been previously diagnosed with CPD, your care provider may suggest pelvimetry. Pelvimetry is the measurement of the pelvis via clinical manual exam, x-ray, CT scan, or MRI. Many studies have debunked pelvimetry as a reliable indicator of the ability to birth vaginally. In one study of women diagnosed with an "inadequate pelvis" after one previous cesarean section, 67% went on to VBAC.

**Suggestions Which May Help Lower Your Risk for a CPD Diagnosis**

1. Some women report that chiropractic care throughout and between pregnancies is helpful in avoiding CPD. Look for a chiropractor who has experience working with childbearing women and utilizes in-utero constraint techniques.
2. If you want to be mobile in labor, listen to your body. Don't remain strapped to the bed; insist on getting up and moving around.
3. Learn labor positions that aid in opening your pelvis. Consider reading & using *The Pink Kit*, a childbirth education tool useful for any woman planning a VBAC. It can help a woman find the best birth positions for her particular pelvic shape and size.
4. Learn the position of your baby and how to encourage your baby to be in the optimal

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5. Have a doula. Research shows that a birthing woman with continuous labor support is more likely to have a shorter labor and a spontaneous vaginal birth.\textsuperscript{12}

**How Likely Am I To Birth Vaginally After a Cesarean for CPD?**

Studies report two-thirds of women will have a successful VBAC despite a previous diagnosis of CPD. One study showed an 80% VBAC success rate for women who had undergone a cesarean for arrest during the second stage of labor (CPD). In another study of women who had undergone two previous cesareans for CPD/FTP, 56% delivered vaginally.\textsuperscript{13 14 15 16 17}

**Other CPD Resources:** *  
*Sit up and Take Notice: Positioning Yourself for a Better Birth* by Pauline Scott  
*Birthing the Easy Way - Learning the Hard Way* by Sheila Stubbs  
*The Pink Kit* by Common Knowledge Trust  
*Spinning Babies Website - www.spinningbabies.com*

Your local ICAN chapter may have copies of these books & DVDs to loan you. They may also be available through the ICAN Bookstore.

**References:**


