Uterine Prolapse Following Fundal Pressure in the First Stage of Labour: A Case Report

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Abstract
The use of fundal pressure to assist a woman in labor is a controversial procedure. Its benefits are yet to be scientifically confirmed and it is associated with complications such as perineal lacerations, uterine rupture and uterine inversion. A case is reported of a 28year old Gravida 5 Para 4 + 0 (3 Alive) who presented to Aminu Kano Teaching Hospital, (AKTH) Kano, Nigeria with uterine prolapse following fundal pressure done in the first stage of labor in a peripheral hospital. She was delivered by Cesarean section and the prolapse successfully reduced under general anesthesia. Health workers need education on the risks associated with fundal pressure. Alternative methods of aiding women in labor should be promoted.

Keywords: Fundal pressure, uterine prolapse

Introduction
Uterine fundal pressure is applied by some health workers including native doctors and traditional birth attendants to women in labor with the belief that it helps to increase expulsive efforts in labor. It is usually applied to women in the second stage of labor who are tired to help expedite the delivery. The use of fundal pressure to assist the second stage of labor is controversial. A scientific justification for its use is yet to be made. No confirmed benefit from the procedure has been documented. Rather, it has been associated with a number of complications. Its use to assist the second stage has been found to cause a longer second stage of labor and a higher incidence of third and fourth degree perineal lacerations. Several reports associate fundal pressure to uterine rupture. It is also associated with acute puerperal uterine inversion. These conditions are life threatening to the mother and in the case of ruptured uterus, to the baby too. A case is reported of the consequences of fundal pressure which was done in the first stage of labor.

Case report
A 28-year-old Gravida 5 Para 4 + 0 (3 Alive) presented on the 3rd of September 2006. She was unsure of the date of her last menses but it was sometime nine months earlier. The pregnancy was unbooked. She complained of labor pains of three hours duration and a feeling of a mass in her vagina of one hour duration. She had earlier been to a peripheral Hospital with the complaints of labor pains of three hours. She was admitted for an hour and placed on an intravenous infusion. Fundal pressure was applied to her by the workers on duty which they claimed would help her to deliver the baby. Immediately after,
she had an urge to bear down. She subsequently noted a fleshy mass protruding from her vagina. She was then referred for further management. She had no history of chronic cough, constipation or abdominal distention. It was her first time of noticing the mass. All her previous pregnancies were uneventful. All the deliveries were at home. Her 3rd child died at the age of 5 years from malaria. The other children were alive and well. She did not have any chronic medical disorder. She was a full time housewife. She did not smoke cigarettes or drink alcohol.

On examination, she was noted to be a young woman who was in pains, afebrile, not pale and anicteric. The pulse rate was 88 beats per minute and her blood pressure was 120/70 mm Hg. The Heart sounds were I and II only. The chest was clinically clear. The abdomen was enlarged with a symphiosofundal height of 32 cm. The lie was longitudinal with a cephalic presentation. The presenting part was 5/5 palpable per abdomen. She was having three uterine contractions every 10 minutes with each contraction lasting 40–45 seconds. The fetal heart sounds were heard at the rate of 140 beats per minute. Pelvic examination revealed a prolapsed cervix that was oedematous and, stained with thick, slightly blood stained discharge, and the os was 3cm dilated (Figure 1). The fetal presenting part as well as the fetal membrane could not be felt through the cervical os as they were both high up in the pelvis. An attempt at replacing the prolapsed cervix to its normal position failed.

**Figure 1.** Uterovaginal prolapse with oedematous cervix

A diagnosis of multipara with a second degree uterine prolapse most likely due to fundal pressure and obstructed labor was made. She was then prepared and delivered by Cesarean section. She was delivered of a live female baby weighing 2.7kg with Apgar score 6 and 9 at 1 and 5 minutes respectively. After the Cesarean section, the prolapsed cervix and uterus were successfully reduced back to their normal anatomical position under general anesthesia. A warm vaginal pack was left in the vagina to maintain the uterus, stained

Postoperative course was uneventful and she was discharged home after 7 days good condition. Before discharge, she was fully educated on her condition and informed on the need to avail herself of care from reputable health facilities during subsequent delivery. A report on the patient was also sent back to the referring hospital including the need to educate the health workers who did the fundal pressure to desist from doing so. The patient came for post natal visit six weeks after delivery and the prolapse had recurred. She was counselled and has accepted to have a vaginal hysterectomy.

**Discussion**

The case presented pinpoints the problems faced by women in the process of delivering their babies in the developing countries. This case presented is pathetic because the woman actually availed herself of supposedly skilled care during delivery, which was expected to provide her with the optimum care she deserved. Rather, she was made a victim of a potentially dangerous procedure of no proved benefit with the resultant consequences. The fact that health workers were trying to deliver her by applying fundal pressure in the first stage of labor showed their basic lack of understanding of the mechanism of normal labor. It cannot in any way be justified, and may cause injury to the baby and mother, including ruptured uterus, apart from precipitating uterovaginal prolapse as occurred in this case. Our literature review could not reveal a previous report of uterine fundal pressure done in the first stage of labor.

Since fundal pressure is associated with several complications, both orthodox and traditional health practitioners should be discouraged from applying it. Fundal pressure is more commonly applied in the second stage of labor. However, when there is delay in the second stage of labor, efforts should be made to find out why and appropriate corrective measures put in place. Delay in second stage may be caused by inadequate uterine contractions, cephalopelvic disproportion, and maternal exhaustion among other factors. Appropriate measures to address delay may therefore be in the form of augmentation with oxytocics, cesarean section or assisting the labor by forceps or vacuum as the case may be. The case illustrates the need for training and retraining of health care workers to update their knowledge in obstetrics in the form of ‘Life Saving Skills (LSS)’. This will enable the correct management of obstetric cases to be given and potentially dangerous procedures such as fundal pressure to be abandoned.

**References**

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