Case report

CERVİCAL BRİD FORMATION AFTER CESAREAN DELİVERY: A CASE REPORT
GÖKHAN AÇMAZ1, HİLAL USLU YUVACI1, HÜSEYİN AKSOY2, ÜLKÜ AKSOY1, İPTİSAM İPEK MÜDERRİS3

1 KAYSERİ EDUCATION AND TRAINING HOSPITAL OF MEDICINE, DEPARTMENT OF OBSTETRICS AND GYNECOLOGY
2 KAYSERİ MILITARY HOSPITAL DEPARTMENT OF OBSTETRICS AND GYNECOLOGY
3 ERCİYES UNIVERSITY DEPARTMENT OF OBSTETRICS AND GYNECOLOGY, TURKEY

ABSTRACT

A 29 year old woman, whose third C/S was applied seven months ago without any complication admitted to our hospital for contraception with an intrauterine device. After pelvic examination; a bird, which was lying from cervicovesical junction to posterior fornix was detected. A vaginal approach was applied to remove the bread from the cervix and cervical dilatation with Hegar dictators was performed for potential haematometria formation. After cervical dilatation, hysteroscopy was applied for probable intrauterine adhesions and no adhesion was detected. To the author’s knowledge, intraabdominal postoperative adhesions may play a role for small bowel obstruction, pelvic pain, and infertility that require repeating operative procedures. Haematometria, infertility and cervical stenosis may be a result of cervical brid which may be a complication of C/S. As we did not detect any intrauterine adhesion, removing the cervical brid and dilatation of cervix with Hegar dilatators was curative.

INTRODUCTION

Extraperitoneal cesarean section (C/S) is one of the most frequent surgeries and used for the prevention of infection and postoperative adhesion. Although the appropriate use of C/S has a close relationship with a decrease in perinatal mortality and morbidity rates, it is also associated with an increased possibility of maternal postpartum morbidity (1). Adhesions can be defined as pathological bonds between surfaces of the peritoneum or pelvic cavities formed during the scarring of peritoneal surface defects. These bonds may range from a thin film of connective tissue to a thick and fibrous bridge containing blood vessels or a direct connection between two organ surfaces (2). Postoperative adhesions may play a role for small bowel obstructions, pelvic pain, infertility and require repeating operative procedures (3).
Adhesions were found in % 46 of women whose repeat C/S was done and this rate increased with the number of repeat cesareans (4).

Special hormonal state of the mother, amniotic fluid and surgical suture materials have an influence on the formation of adhesions and this situation has been shown in different researches (5-7). Scars and intra-abdominal adhesions are both tissue healing process and sometimes can be determined incidentally (8). We aimed to present a very rare form of adhesion formation after C/S on the cervix which was determined incidentally.

CASE

A 29 years old woman, gravida 3, para 3 was admitted to our hospital for intrauterine device replacement after her third C/S. Her third C/S was applied seven months ago without any complication. The patient had lactational amenorrhea. After pelvic examination; a bird, which was lying from cervicovesical junction to posterior fornix was detected. Ultrasonic examination did not show any pathological finding. Despite there was no other abnormality on pelvic examination, the location of the brid required to make ped test for eliminating fistula formation. Fistula formation was not determined. All laboratory tests including hormonal profile, hematological and biochemistry parameters were normal. After hCG test, pregnancy was not detected, informed written constant form obtained from the patient. A vaginal approach was applied to remove the brid from cervix and cervical dilatation with Hegar dilatators was performed for potential haematometria formation. After cervical dilatation, hysteroscopy was applied for possibility of intrauterine adhesions and no adhesion was seen. Surgical procedure was completed without any complication.

Before operation

After operation
DISCUSSION

Adhesions are the well recognized consequence of tissue trauma that may result from sharp, mechanical or thermal injury, infection, radiation, ischemia, desiccation, abrasion, or foreign-body reaction. Such trauma may trigger a cascade of events that begins with the disruption of stromal mast cells, which release vasoactive substances such as histamine and kinins that increase vascular permeability (9). In 1926 Kerr introduced the most popular approach of low transverse incision in the uterine wall, which is the one being used by the majority of surgeons today. The overall complication rate of C/S is 11.6% although this rate is much higher for emergency C/S (14.5%) than for elective C/S (6.8%) (10).

During the delivery of fetus with C/S, many of the surgeons apply a low segment incision on uterine wall and elongation of the incision to the cervix and vagina can be detected as an intra-operative complication. Slipshod suturation of the incision may be resulted with formation of adhesions on different surfaces. In this case, the patient had amenorrhea which may be the leading cause we didn’t detect any haematometria. Cervical dilatation and hysteroscopy was applied for potential complications such as intrauterine adhesions and haematometria. A case of secondary amenorrhea with severe intrauterine adhesions and chronic uterine torsion after C/S in a teenage girl was reported (11). The case we are reporting differ from that case as our patient had no evidence of intrauterine adhesions and minimal invasive vaginal approach and hysteroscopy was applied. Only an adhesion on cervix was detected and it was removed from cervix by vaginal approach. The operation was performed in order to prevent formation of haematometria and cervical stenosis.

CONCLUSION

Intraabdominal postoperative adhesions may play a role for small bowel obstruction, pelvic pain, infertility and require repeating operative procedures (3). Haematometria, infertility and cervical stenosis can be a result of cervical brid which can be a complication of C/S. As we did not detect any intrauterine adhesion, removing the cervical brid and dilatation of cervix with Hegar dilatators was curative.

REFERENCES


