

Pregnancy in Amniotic Band Scarred Woman

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Abstract

Amniotic band syndrome is an uncommon syndrome. The incidence is 1:1,200 - 1:15,000 live births. This syndrome is variable malformation. Amniotic band scar of the abdomen seen in adulthood is rare. We managed a case of a 23 year-old pregnant woman who had suspected amniotic band scar of the abdomen since birth. The uterus could expand until term pregnancy despite no intervention. The healthy female baby was delivered by cesarean section because of obstetric indication. Both mother and baby were in good condition. She and her baby were well at six weeks follow-up. We know of no other reported case of maternal abdominal amniotic band scar who could continue pregnancy until term with good outcome.

Key word : Amniotic Band, Scar, Pregnancy

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Amniotic band syndrome is a rare collection of fetal malformations associated with fibrous bands that appear to entangle or entrap various fetal parts *in utero* leading to deformation, malformation or disruption⁽¹⁾. The incidence is 1:1,200-1:15,000 live births^(1,2). The manifestations of this syndrome vary from mild to severe⁽¹⁾. The lesions are both static and irreversible. The prognosis for survivors is variable^(1,2). Prognosis is good and life

expectancy is normal for mildly affected infants with only minor defects⁽¹⁾. We report a case of a pregnant woman with an amniotic band scar at the abdomen and with a successful pregnancy outcome.

CASE REPORT

A 23 year-old, G₂P₀ pregnant woman came to the antenatal clinic, King Chulalongkorn Memorial Hospital when she was 12 weeks

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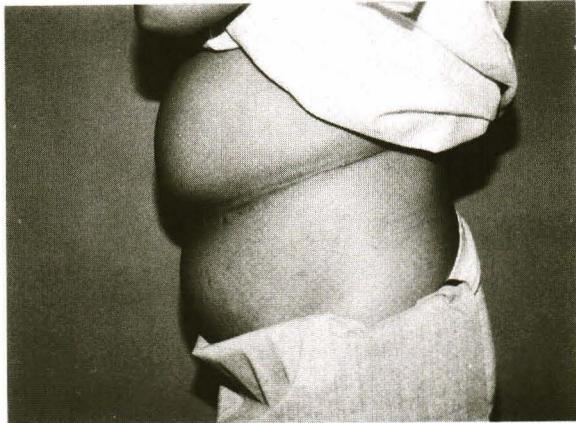


Fig. 1. Tight circumferential amniotic band scar at the waist.

pregnant. Since birth she has had a circumferential abdominal scar just below the umbilicus. She reported that this scar grew as she grew. Physical examination revealed a normal general appearance except for the circumferential abdominal scar at the waist just below the umbilicus (Fig. 1). Her height and weight were 143 cm and 49 kg, respectively. The uterus was palpated above the symphysis pubis, corresponding to the 12th gestational week. Other examinations were normal. Laboratory analysis at the first antenatal care gave the following results: hemoglobin 12.6 g/dL, hematocrit 38 per cent, mean corpuscular volume (MCV) 72.9 fentolitre, mean corpuscular hemoglobin (MCH) 22.6 pg, mean corpuscular hemoglobin concentration (MCHC) 31.0 g/dL, red cell distribution width (RDW) 19.9 per cent. Total and differential counts were normal. Platelet number was 257,000 cells/mm³. The peripheral blood film showed normal red blood cell morphology. She was advised that this scar may affect her pregnancy and was prescribed antenatal multivitamins and iron supplement. She came to the antenatal clinic for every appointment. During the antenatal care, the fundus grew to a height lagging about two weeks behind the gestational age. Ultrasonography at the 25th gestational week showed a growth retarded fetus. She did not have pain at

the scar or skin breakdown. She was advised to have a high protein diet and bed rest. Fetal monitoring showed no evidence of intrauterine asphyxia. The pregnancy continued to progress without further complications until the 41st gestational week, but no sign or symptom of labor occurred. Pelvic examination revealed an unfavorable cervix and narrow pelvis. The estimated fetal weight was 2,400 grams. Elective cesarean section was performed for this case due to unfavorable cervix. A midline lower abdominal incision was performed. Operative findings showed a normal uterus, and no constricting scar. A healthy female baby, small for gestational age, with a birth weight of 2,380 grams was delivered. The postoperative course was uneventful. The abdominal wall wound healed without complications. Six weeks post-partum, she and her baby were well.

DISCUSSION

Based on the literature review, there has been no report about amniotic band scars of the abdomen in pregnant women, but there have been many reports about the effect of a burn-scared abdomen in pregnancy(3-10). The effect is variable but the uterus is usually able to expand in even a severely burn-scared abdomen without complications. We applied these reports

in the management of our case. Based on these literature reviews,(3-10) abdominal burn scars usually do not affect pregnancy, but they may cause some problems. The common problems are failure of the scar to stretch, maternal discomfort and occasionally scar breakdown. There have been many reports that a conservative approach will usually result in a good outcome(3-7). The indications for surgery were maternal pain from the scar and obstruction of normal pregnancy development(8,10).

In our case, she had had the circumferential abdominal scar since birth. Her history and evidence suggested it to be an amniotic

band scar. She continued her pregnancy until term without complications from the abdominal scar except for fetal growth retardation which was different from other reports(3-7,9,10). We managed our case conservatively as described in previous reports(3-7) because rapid abdominal decompression may precipitate premature labor (8). Neither maternal pain from the scar nor scar breakdown occurred. The pregnancy ended with a good result after cesarean section with obstetric indication. We know of no other report of an amniotic band scar of the abdomen in a mother who survived and could continue her pregnancy until term with good outcome.

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REFERENCES

1. Seeds JW, Cefalo RC, Herbert WNP. Amniotic band syndrome. *Am J Obstet Gynecol* 1982; 144: 243-8.
2. Benacernaf BR. Sonographic diagnosis of syndromes of the fetus. In: Fleischer AC, Manning FA, Jeanty P, Romero R, editors. *Sonography in obstetrics and gynecology: principles & practice*, 5th ed. Connecticut: Appleton & Lange, 1996: 493-515.
3. Rai YS, Jackson DM. Child-bearing in relation to the scarred abdominal wall from burns. *Burns* 1975; 1: 167-71.
4. McCauley RL, Stenberg BA, Phillips LG, Blackwell SJ, Robson MC. Long-term assessment of the effects of circumferential truncal burns in pediatric patients on subsequent pregnancies. *J Burn Care Rehabil* 1991; 12: 51-3.
5. Kitzmiller WJ, Neale HW, Warden GD, Smith D. The effect of full-thickness abdominal wall burns sustained during childhood on subsequent childbearing ability. *Ann Plast Surg* 1998; 40: 111-3.
6. Webb JC, Baack BR, Osler TM, Davis VH, Izquierdo LA, Binur N. A pregnancy complicated by mature abdominal burn scarring and its surgical solution: a case report. *J Burn Care Rehabil* 1995; 16: 276-9.
7. Fioretti P, Weiss C, Cilotti A, Strigini F, Melis GB. Old abdominal burns and caesarean section: case report. *Br J Obstet Gynaecol* 1987; 94: 596-7.
8. Haeseker B, Green MF. A complication in pregnancy due to severe burns in childhood. *Br J Plast Surg* 1981; 34: 102-4.
9. Widgerow AD, Ford TD, Botha M. Burn Contracture preventing uterine expansion. *Ann Plast Surg* 1991; 27: 269-71.
10. Matthews RN. Old burns and pregnancy. *Br J Obstet Gynaecol* 1982; 89: 610-1.

การตั้งครรภ์ในหญิงที่มีผลเป็นจากแอบรัตจากแอมเนียน

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กลุ่มอาการ Amniotic band เป็นกลุ่มอาการที่พบได้น้อย อุบัติการณ์พบได้ 1:1,200–1:15,000 ของเด็กคลอดมีชีวิต กลุ่มอาการดังกล่าวก่อให้เกิดความพิการได้หลากหลาย ผลเป็นจาก Amniotic band ในผู้ใหญ่พบได้น้อยมาก ขณะผู้รายงานได้ถูกแพทย์ดังค้าร์瓜าร์ 23 ปีที่มีผลเป็นจาก Amniotic band บริเวณรอบห้องดังต่อไปนี้ แต่ก็มีนัดลูกสามารถขยายตัวได้ปกติโดยไม่ต้องได้รับการผ่าตัดบริเวณผลเป็นจนกระทั่งดังค้าร์ครบกำหนด สามารถได้รับการผ่าตัดคลอดบุตรทางหน้าห้องด้วยข้อบ่งชี้ทางสูติศาสตร์ สามารถละทารกปกติทั้งร่างกายหลังผ่าตัดและเมื่อตรวจติดตาม 6 สัปดาห์หลังผ่าตัด จากความรู้ของขณะผู้รายงานนั้น เมื่อพบว่ามีการรายงานหลังที่มีผลเป็นจาก Amniotic band สามารถตั้งค้าร์จนครบกำหนดและได้ผลดี

ค่าสำคัญ : แบบรัดจากแรมเนียน, ผลเป็น, การตั้งครรภ์

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