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1. Cunningham FG, Kennet J, Leveno SL, et al. Williams Obstetrics. 22nd ed. Newyork; MC Graw-hill Companies, 2005: 236-239.
2. Scott JR, Gibbs RS, Karlan B, et al. Danforth's Obstetrics and Gynecology. 9<sup>th</sup> ed. Philadelphia; Lippincott Williams & Willkins, 2003: 83-85.
3. Many A, Lazebnik N, Hill LM. The Underlying Cause of Polyhydramnios Determines Prematurity. Prenat Diagn 1996;16:55.
4. Creasy RK, Resnik RE. Maternal- Fetal Medicine : Principle & Practice. 3 rd ed. Philadelphia; WB Saunders, 1994: 494-520.

5. Thompson AJ, Lunan CB, Cameron AD, et al. Assessment of Factors Associated with Incompetent Cervix. Bri J obstet Gynecol 1997; 104: 1054.
6. Owen J, Yost N, Berghella V, et al. Midtrimester Endovaginal Sonography in Women at High Risk for Preterm Birth. JAMA 2001; 286: 1340-1348.
7. Hibbard JV, Snow J, Moawad AH. Short Cervical Length by Ultrasound and Cerclage. J Perinatol 2000;3: 161-5.

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8. Kelly S, Pollock M, Lefebure C, et al. Early Transvaginal Ultrasonography Versus Early Cerclage in Women with an Unclear History of Incompetent Cervix. *Am J Obstet Gynecol* 2001; 184:1097-1099.

9. Guzman E R, Mellon C, Vintzileos AM, et al. Longitudinal Assessment of Endocervical Canal Length Between 15 and 24 Weeks Gestation in Women at Risk for Pregnancy Loss or Preterm Birth. *Obstet Gynecol* 1998; 92(1): 31-7.

10. Vyas N, Vink J, Ghidini A, et al. Multiparous Patient who Acquire Cervical Incompetence: What

Are the Risk Factors?. *Am J Obstet Gynecol* 2005; 193(6): 563.

11. Owen J, Imas JD, Hauth JC. Vaginal Sonography & Cervical Incompetence. *Obstet Gynecol* 2003; 188: 586-596.

12. Berek JS. *Novak's Gynecology*. 13<sup>th</sup> ed. Philadelphia; Lippincott Williams & Wilkins, 2002: 96-98.

13. Althuisius SM, Dekker GA, Vgngelj HP. Cervical Incompetence: A Reappraisal of an Obstetric Controversy. *Obstet Gynecol* 2002; 57(6): 377-387.

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# Survey the Associated Factors with Incompetent Cervix in Pregnant Women

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## Abstract

**Introduction:** Incompetent cervix is a gradual and painless dilatation of cervix that can cause loss of pregnancy with inducing recurrent abortion or preterm labor, 20-25% of preterm labors are associated with Incompetent cervix. This illness can cause physical and psychological disorder for mother and so long illness or costly care for neonates. Thus early diagnosis of incompetent cervix and assessment of its associated factors is very important.

**Objective:** Determine the frequency of some associated factors with incompetent cervix.

**Materials and Methods:** This descriptive cross-sectional study was done on 90 patients (from September 2004 till August 2005) who showed the Incompetent cervix on the basis of history, clinical examination and vaginal sonography or was done cerclage. Data was collected by questionnaire and was analyzed.

**Results:** The frequency of Nullipar mothers (43.3%) was more than Primipars and Multipars. Mean cervix length was 27.9 mm. The most frequency in associated factors belonged to abortion (70%) and then D&C (48.4%). (45.5%) of patients had abortion and curettage simultaneously. Frequency was in multiple gestation 7.5%, cryo 6.7%, rupture of cervix 5.6%, conization 2.2% and nobody had history of cauterization.

**Conclusion:** An analytic comparative study is recommended for more considering associated factors with incompetent cervix. This study showed that we must avoid of unnecessary dilatation and curettage and improve our skills and so use of chemic dilators as prostaglandins for preventing of incompetent cervix.

**Key words:** Cervix Incompetence/ Pregnancy/ Risk Factor