



**Servikal Patolojiler ve Kolposkopi Derneđi**  
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# LEEP ve Preterm Doğum Riski

Dr. Mehmet HARMA

BEÜ Kadın Hastalıkları ve Doğum AD  
Jinekolojik Onkoloji Cerrahisi BD

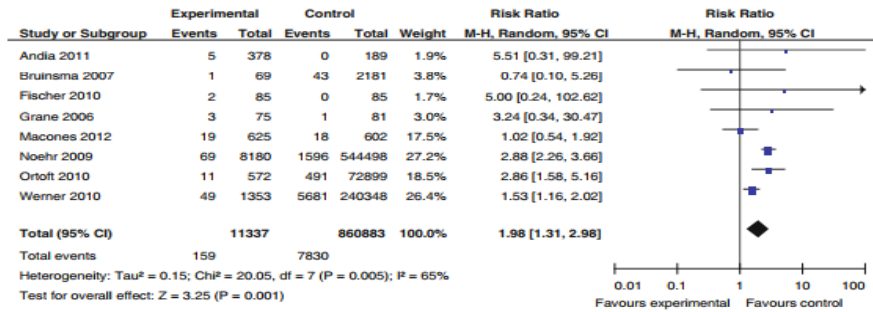
# LEEP=LLETZ

- LEEP — loop electrosurgical excision procedure
- LLETZ — large loop excision of the transformation zone
- Cx prekanseröz lezyonları yönetimi
- Eksizyonel yöntem
- Etkin, ucuz, kolay
- Komplikasyonlar
  - Erken
  - Geç — preterm doğum?

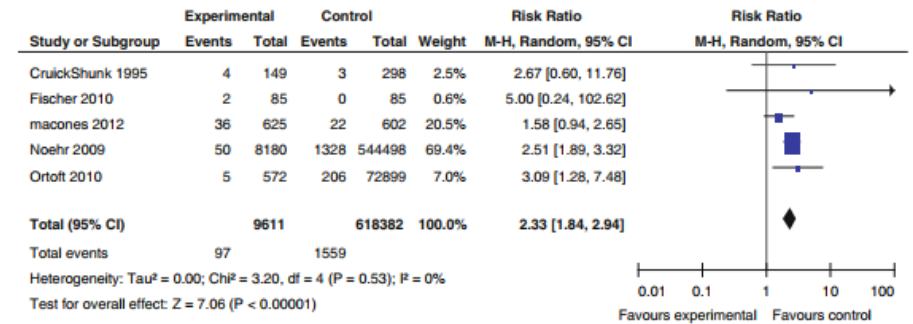
## Pregnancy outcome following loop electrosurgical excision procedure (LEEP) a systematic review and meta-analysis

Gong Jin · Zhang LanLan · Chen Li · Zhang Dan

### A PD<32/34weeks



### B PD<28weeks



26 çalışma

Preterm doğum (<37 h, <32/34 h, <28 h)

CS

PPROM

LBW

Perinatal mortalite

Yenidoğan yoğun bakım

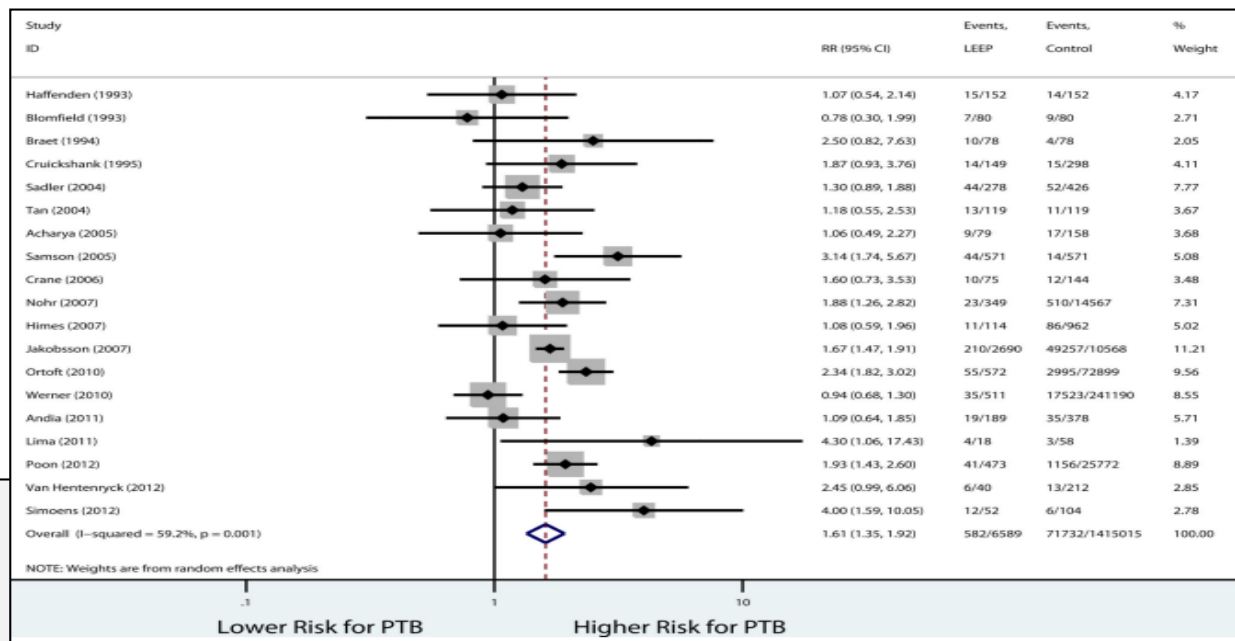
LEEP ↔ preterm doğum (<32/34 h, <28 h)  
LEEP hacmi/derinliği ↑ ≠ preterm doğum ↑

## Loop Electrosurgical Excision Procedure and Risk of Preterm Birth: A Systematic Review and Meta-analysis

Shayna N. Conner, MD<sup>1,1</sup>, Heather A. Frey, MD<sup>1</sup>, Alison G. Cahill, MD, MSCI<sup>1</sup>, George A. Macones, MD, MSCE<sup>1</sup>, Graham A. Colditz, MD, DrPH<sup>2</sup>, and Methodius G. Tuuli, MD, MPH<sup>1</sup>

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19 çalışma  
6589 LEEP +  
1.415.000 LEEP –  
Preterm Doğum riski =  
Risk faktörü → cx displazi nedenleri

# Çıkarılan materyalin büyüklüğü preterm doğum için bir risk faktörü mü ?

genişlik ve derinlik arttıkça → internal os hasarı ↑

hacim arttıkça → mekanik destek ↓

iyileşme dokusunun yapısı ve gerginlik dokusu farklı

## EVET ?

Kyrgiou M, Koliopoulos G, Martin-Hirsch P, Arbyn M, Prendiville W, Paraskevidis E. Obstetric outcomes after conservative treatment for intraepithelial or early invasive cervical lesions: systematic review and meta-analysis. *Lancet*. 2006;367:489–498.

Jakobsson M, Gissler M, Sainio S, Paavonen J, Tapper AM. Preterm delivery after surgical treatment for cervical intraepithelial neoplasia. *Obstet Gynecol*. 2007;109(2):309–313.

Jakobsson M, Gissler M, Paavonen J, et al. Loop electrosurgical excision procedure and the risk for preterm birth. *Obstet Gynecol* 2009;114:504–10.

Noehr B, Jensen A, Frederiksen K, Tabor A, Kjaer SK. Depth of cervical cone removed by loop electrosurgical excision procedure and subsequent risk of spontaneous preterm delivery. *Obstet Gynecol* 2009;114(6):1232–8.

# Length but not transverse diameter of the excision specimen for high-grade cervical intraepithelial neoplasia (CIN 2–3) is a predictor of pregnancy outcome

Liverani, Carlo A.; Di Giuseppe, Jacopo; Clemente, Nicolò; Delli Carpini, Giovanni; Monti, Ermelinda; Fanetti, Fabiana; Bolis, Giorgio; Ciavattini, Andrea

European Journal of Cancer Prevention: September 2016- Volume 25-Issue 5-p 416-422

501 olgu  
preterm doğum öyküsü yok  
CIN 2/3 LEEP

1. The rate of preterm birth in women with **length greater than 20 mm** was significantly higher than that in women with length between 15 and 19 mm (15.6 vs. 3.9%,  $P=0.02$ )
2. The rate of preterm birth in women with **volume greater than 2.5 cm<sup>3</sup>** was significantly higher than that in women with volume between 2.0 and 2.4 cm<sup>3</sup> (5.8 vs. 1.6%,  $P=0.04$ ).
3. A **linear inverse correlation** ( $r=-0.3$ ,  $P<0.001$ ) between gestational age at birth and **length**, but not volume ( $r=0.0$ ,  $P=0.9$ ) or transverse diameter ( $r=0.2$ ,  $P<0.0001$ )

# İdeal Konizasyon Materyali Büyüklüğü ?

2.1 cm<sup>3</sup>, 10 mm derinlik

Papoutsis, Gynecol Obstet Invest, 2013

>6 cm<sup>3</sup>, >1.2 cm derinlik → x 3

Khalid, BJOG, 2012

Ek çıkarılan her mm → x %6

Noehr, Obstet Gynecol, 2009

# LEEP SONRASI GEBELİK

GEÇEN SÜRE PRETERM DOĞUM İÇİN RİSK FAKTÖRÜ MÜ?

riskli ?< 12 ay > 😊

olgu sayıları yetersiz  
olgu seçimleri uygun değil

Heinonen A, Gissler M, Riska A, Paavonen J, Tapper AM, Jakobsson M. Loop electrosurgical excision procedure and the risk for preterm delivery. *Obstetrics and Gynecology*. 2013;121(5):1063–8.

Khalid S, Dimitriou E, Conroy R, Paraskevaidis E, Kyrgiou M, Harrity C, et al. The thickness and volume of LLETZ specimens can predict the relative risk of pregnancy-related morbidity. *BJOG* 2012;119:685–91.

Conner SN, Cahill AG, Tuli MG, Stamilio DM, Odibo AO, Roehl KA, Macones GA. Interval from loop electrosurgical excision procedure to pregnancy and pregnancy outcomes. *Obstetrics and Gynecology*. 2013 ;122(6):1154-9.

# Preterm Doğum

## LEEP vs. soğuk konizasyon

244 olgu

LEEP: 124

S. Konizasyon: 120

Preterm doğum (24-36 h.)

%5 vs. %11 ( $p < 0.05$ )

LEEP

# Preterm Doğum

## LEEP yaşı

115 olgu

n=42, <25 y

n= 73, >25 y

<37 h preterm doğum

<25 y → <26 h ↑

Chevreau, J Low Genit Tract Dis, 2017

# LEEP – Preterm Doğum

- Endikasyon
- Dikkatli olgu seçimi
- Olası sonuçlar hastayla paylaşılmalı
- Serklaj ?

teşekkürler