

The Effects of the Loop Excision of the Transformation Zone on Cervical Length: Implication for Pregnancy

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Objective

This study was undertaken to determine whether previously described significant and quantitative cervical shortening caused by loop excision of the transformation zone persists after months of healing

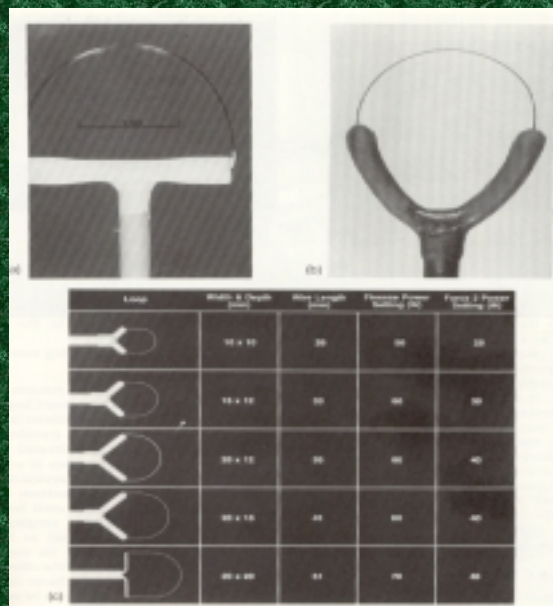
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Study Design

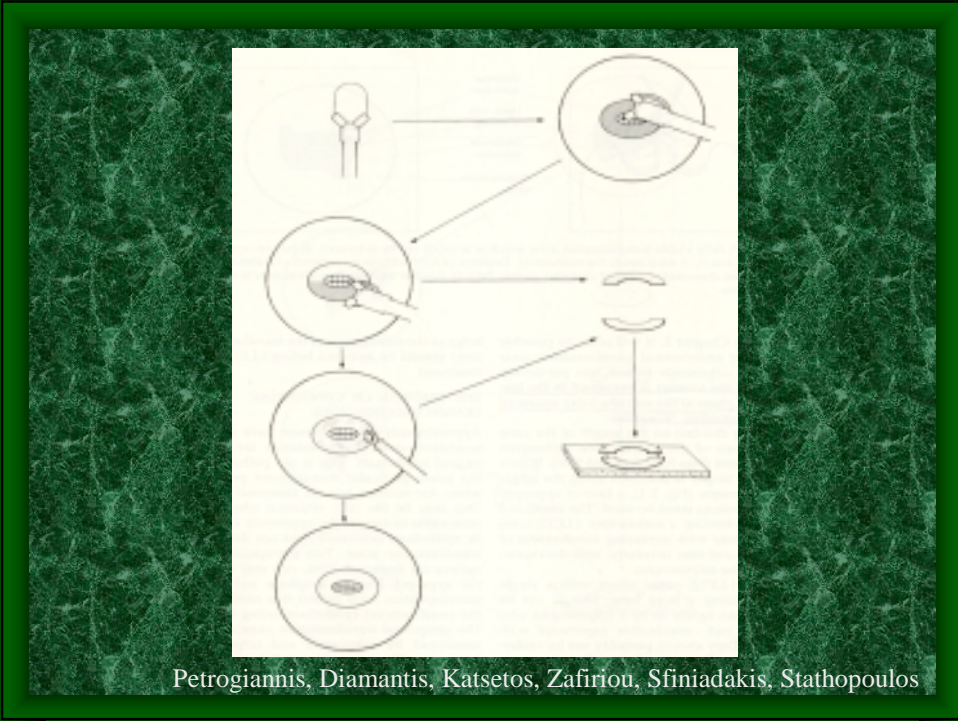
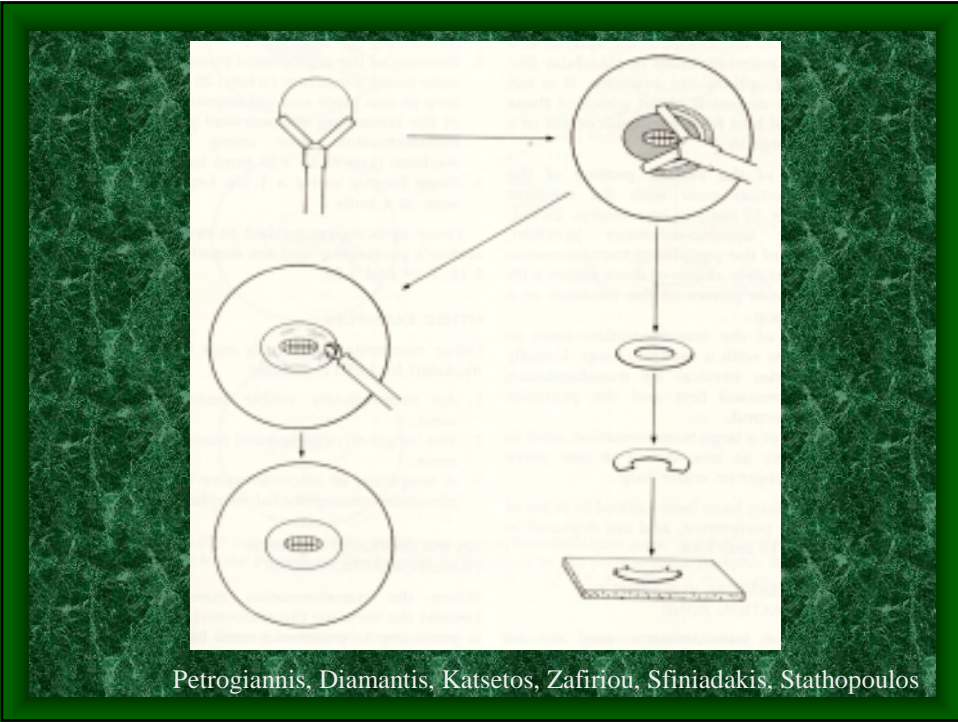
A prospective study was designed in which 20 patients were enrolled

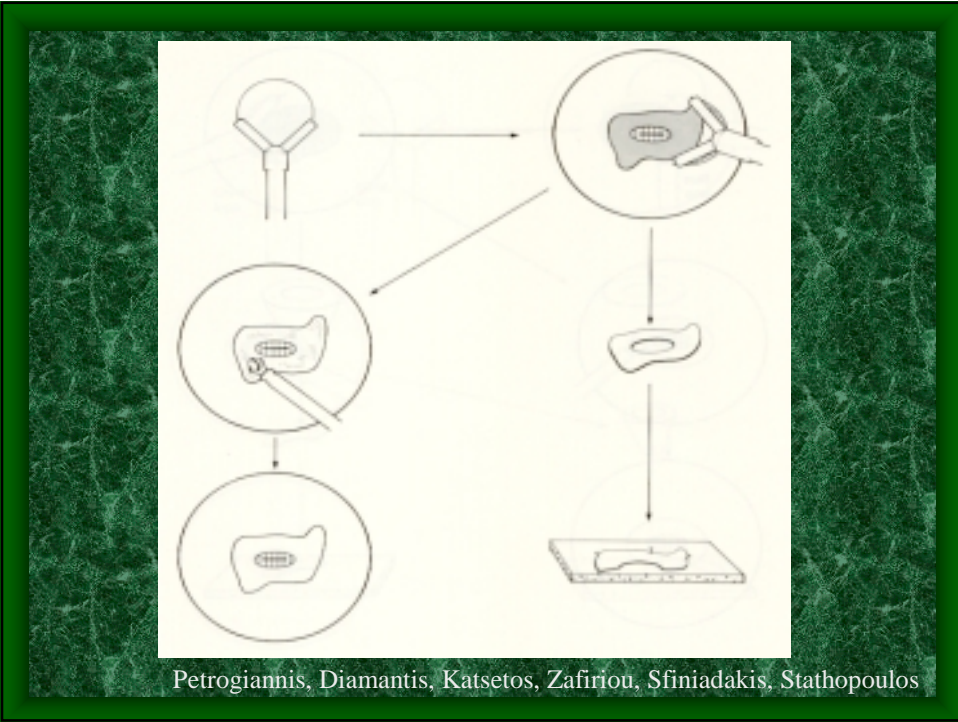
Each underwent transvaginal ultrasonography for determination of cervical length before loop excision of the transformation zone and > 3 months after the loop excision of the transformation zone. Simple regression analysis was performed to determine whether the length of the cervix had changed significantly between the measurement

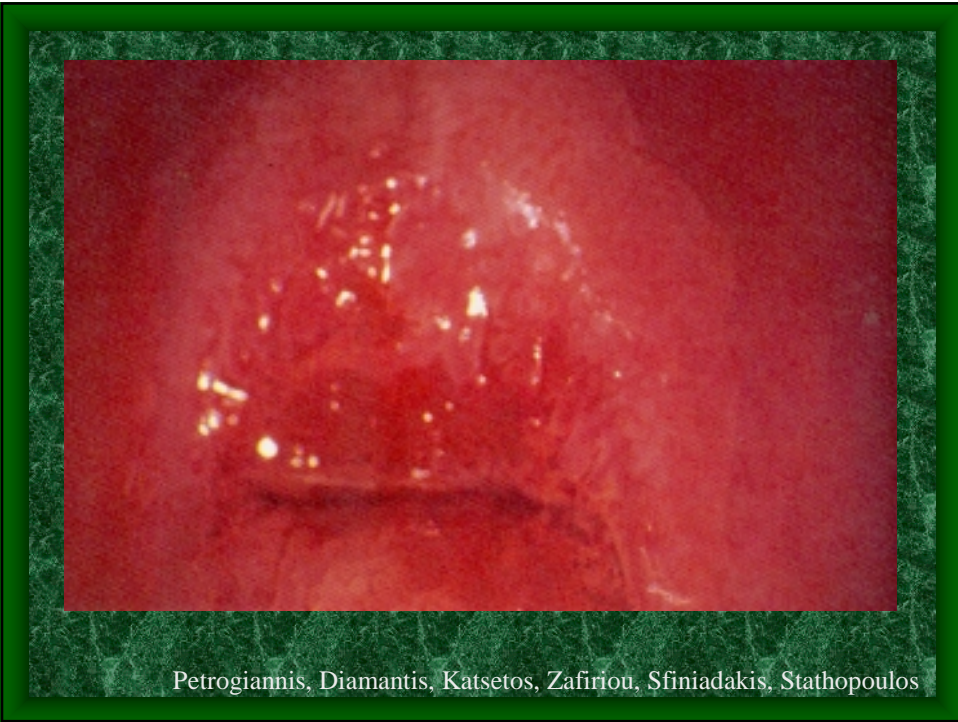
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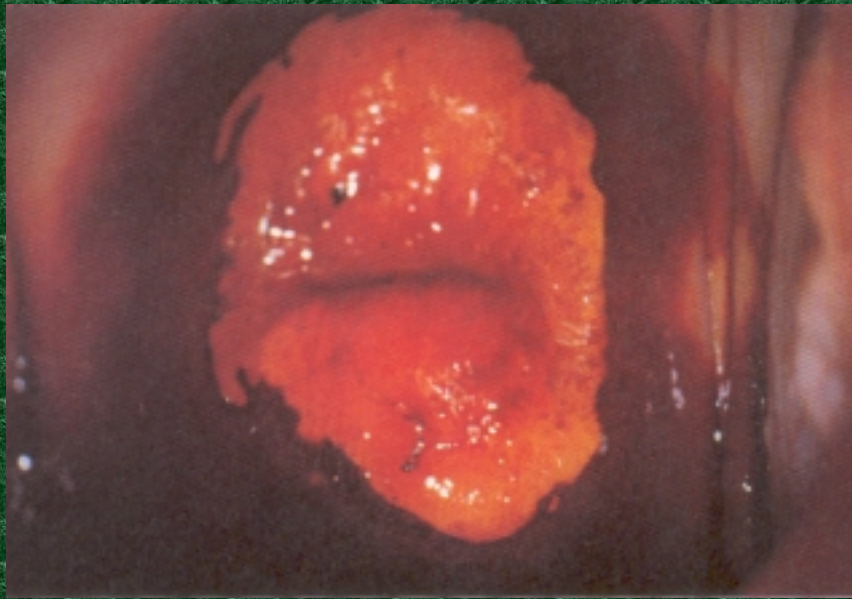


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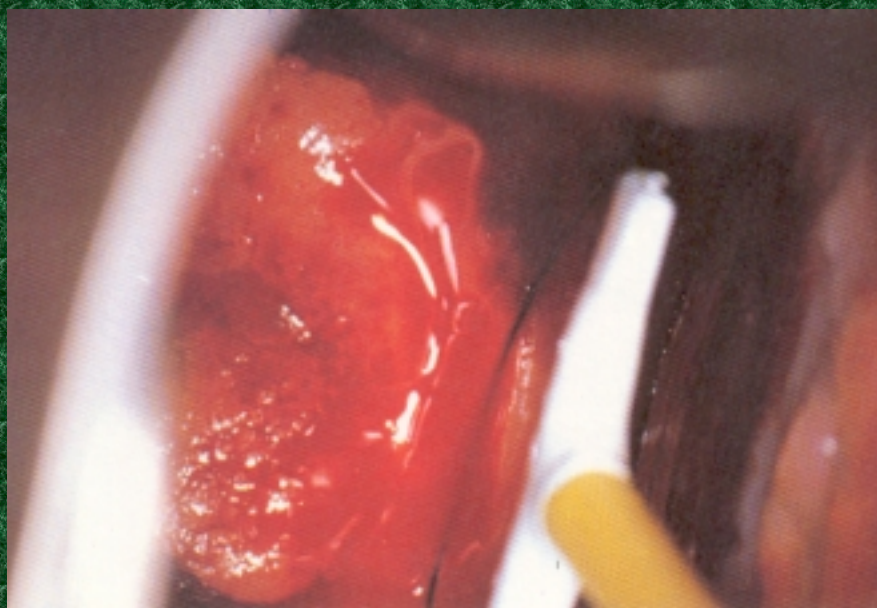




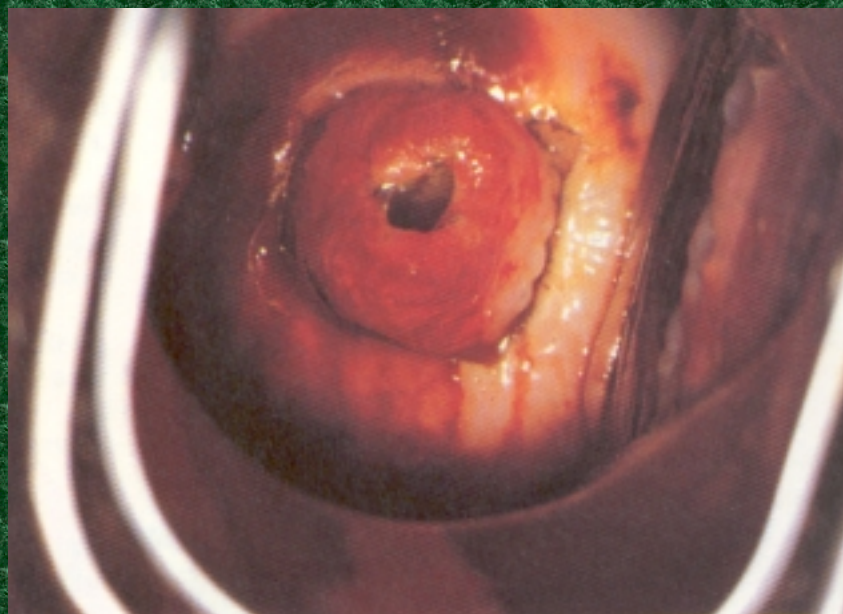
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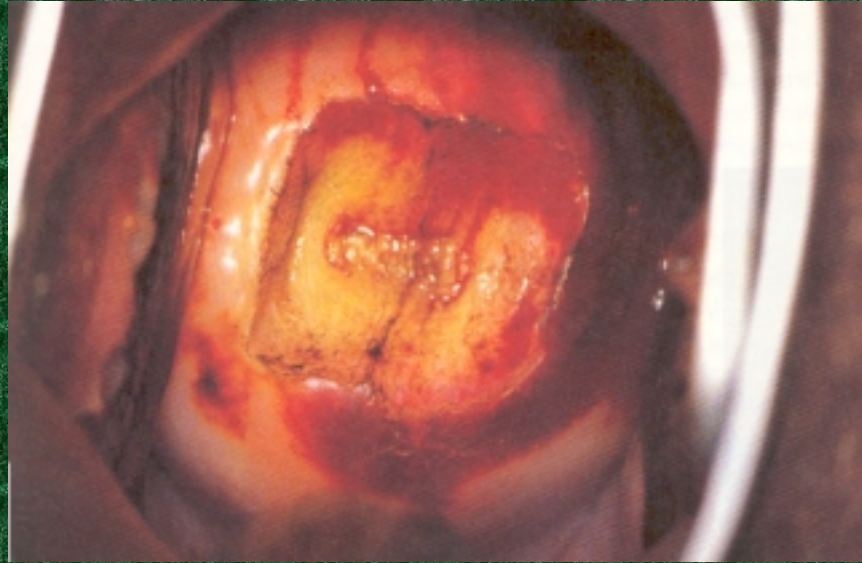
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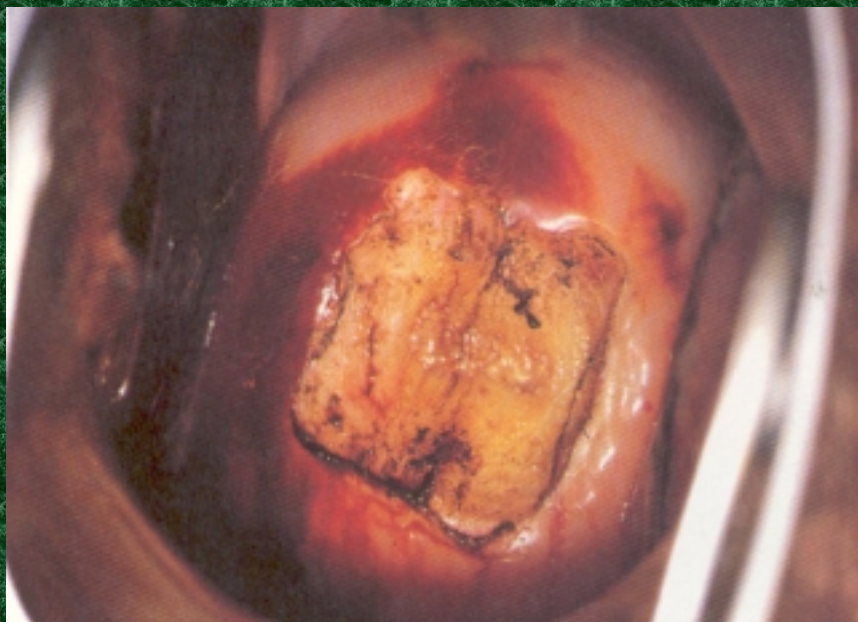
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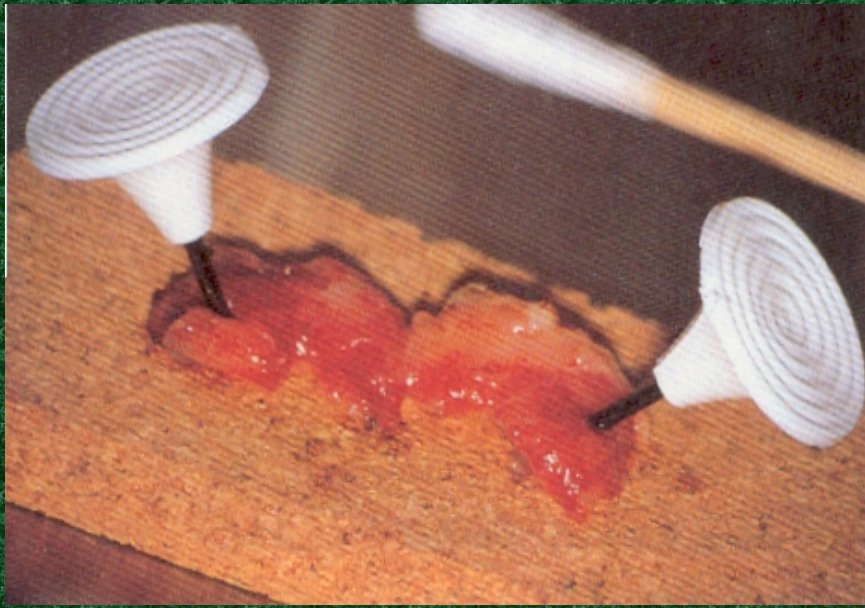
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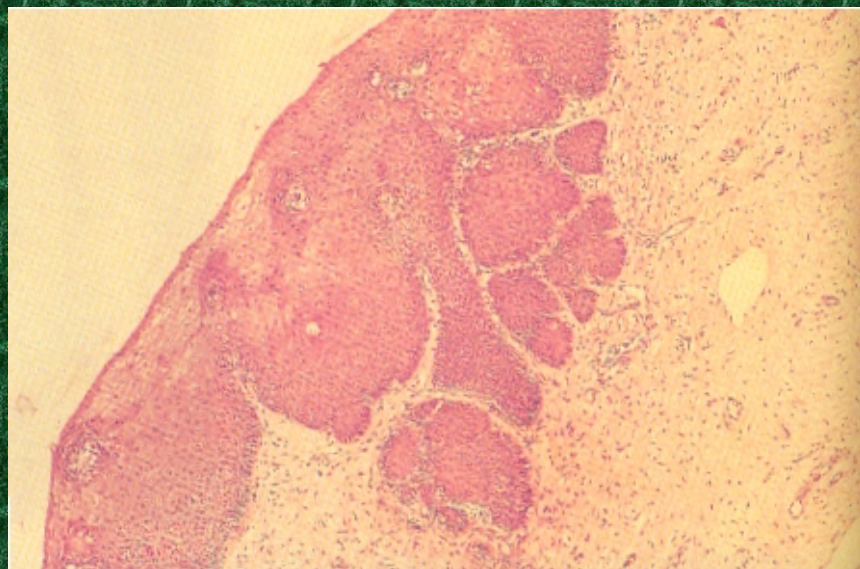
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Results

The mean cervical lengths as measured by transvaginal ultrasonography before and after loop excision of the transformation zone were $2,9 \pm 0,7$ cm and $2,9 \pm 0,6$ cm.

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Results

The correlation between ultrasonographic measurements before and after loop excision of the transformation zone was $r=0,87$ ($p<0,001$) which indicated that ultrasonographic measurements after loop excision of the transformation zone was different from the ultrasonographic measurement before loop excision of the transformation zone. The mean difference between measurements was $0,0 \pm 0.35\text{cm}$

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Conclusion

After adequate healing time the loop excision of the transformation zone the length of the cervix, as measured transvaginal ultrasonography does not appear to remain shortened

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