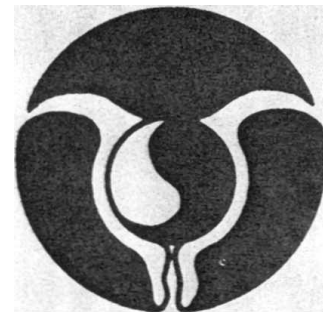


III. INTERNATIONAL SYMPOSIUM
on the
PREGNANT UTERUS
Basic Science Aspects with
Clinical Implications



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FINAL PROGRAM & ABSTRACTS

DEPARTMENT OF OBSTETRICS
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OF SCIENCES

EMG OF THE CERVIX - CONTINUOUS INTRAPARTAL ANALYSIS

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The activity of smooth musculature in the cervix is important for the course of pregnancy and labour. With studying electrical activity in the cervix during labour we are trying to get better understanding of smooth muscular activity and of its role in the cervical function. After building the system for EMG registration the system and software for continuous intrapartal EMG analysis was built. With circular cervical registration we recorded EMG activity. In induced labours in primiparas with unripe cervixes. Through analysis of median frequencies, RMS (Root mean square) for whole EMG activity and separately for EMG activity at uterine corpus contraction and between contractions was found out: there exists individuality in different labours; there is a lot of oscillation during the course of latent and less so in the active phase of labour; median frequency is significantly higher in latent than in active phase and RMS significantly lower in latent phase than in active phase; in the periods of high median frequencies RMS is low and vice versa; the median frequency of EMG activity in the time of uterine corpus contraction is significantly lower than median frequency between contractions; there is no statistical differences between RMS at and between contraction; there is a little correlation between median frequency and RMS changes and uterine corpus contractions in the beginning of labour.