



**Halo Azad Khidwrbagi, Muryzina I.**  
**PATHWAY TO IMPROVE REDUCED FECUNDITY IN THE WOMEN**  
**AFTER MISSED ABORTION**

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**Introduction:** Missed abortion (MA) should be paid a lot of follow-up attention by gynaecologist because this clinical entity often entails significant reduction of fecundability including both natural cycle fecundity and assisted reproductive technology cycle efficiency. Suggested causative factors are still controversial and there is no incontestable evidence to attribute any of them such a peculiar mechanism of early pregnancy loss. That is why our study was aimed at elucidating mechanisms of MA deplorable sequels and suggesting pathways for solution of this problem.

**Material and methods:** There were 124 women under surveillance. The main group (I) comprised 64 women with definitive diagnosis of MA. The group for comparison (II) included 30 women admitted for termination of the pregnancy according to their will. Following-up these women' reproductive function, 30 healthy women contemplating prospect of pregnancy were picked out as a control group (III) in order to ascertain the more favourable background for conception. Subsequently the main group was divided into two subgroups according to their management: Ia (31 patients) – monophasic combined oral contraceptive pills, Ib (33) – additional administrative of cryopreserved placental extract (CPE) intramuscularly 1,8 ml at 10, 12, 14, 16, 18 days of menstrual cycle. Clinical state was assessed by means of routine and hormonal methods, histological, immunological features and functional capacity of the endometrium obtained by pipelle-curette at 19-21 day of cycle were determined, IL-1 $\beta$ , IL-6, IL-10, TNF- $\alpha$ , glycodeilin values in the washings from the uterine cavity were assessed by immunenzyme method.

**Results:** The study elicited significant disturbances of endometrial histological structure looking like chronic inflammation, recognized distortion in the local cytokine balance and endometrial steroid receptors susceptibility in the case of experienced MA. Inherent to healthy woman of her reproductive ages Th2-cytokine balance is superseded by Th1-cytokine preponderance with increased values of IL-1 $\beta$ , IL-6 and TNF- $\alpha$  in the endometrium. Although IL-10 is anti-inflammatory cytokine, its level was higher than in other groups that could explain the dormant mechanism of switching on the uterine contractility for expulsion of non-viable concept. Delayed and incomplete endometrial maturation, subsided endometrial oestrogen and progesterone receptors susceptibility in case of MA suggest of luteum corpus failure entailing a significant reduction of glycodeilin production which is the prerequisite for local Th2-microenvironment. CPE proved to have benevolent influence on luteum corpus function, endometrial maturation and glycodeilin production, steroid endometrial receptors susceptibility and drift of endometrial microenvironment towards Th2-cytokine predominance.

**Conclusion:** Proposed treatment facilitates recovery of reproductive function and increases the likelihood of successful conception and uneventful course of pregnancy.

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**APPLICATION OF  $\alpha$ -TOKOFEROL ACETATE IN PATIENTS WITH**  
**SYMPTOMATIC UTERINE LEIOMYOMA.**

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**Introduction.** Hypoxia is one of the leading triggers of lipid peroxidation (LPO). LPO products are injury agents of structures of organ's cells and tissues. Acute haemorrhage leads



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