

Study on Effect of Endometriosis to ART Outcome: Relationship of Misscarriage and Myometrial Thickness

Abstract ID : 2373

Submitted by : hirofumi kashiwagi the 2017-01-04 11:19:04

Category : SEUD CONGRESS

Typology : Poster

Status : Validated

Authorisation to disclose : Yes/Oui

Introduction:

ART (assisted reproductive technology) has been increasingly popular in our modern society. The rise in both numbers of endometriosis patients and ART-related pregnancies were reportedly attributable to the advanced age of women who still take the risk to have a child. However, it is not clearly elucidated whether the impact of endometriosis to pregnancy is an outcome of ART. This study aims to identify the pregnancy outcomes of the patients with endometriosis conceived by ART.

Patients and methods:

We reviewed the medical records of the patients who underwent IVF-ET treatment at Tokai University Hospital from January 2010 to December 2014 (N=826; cycle). According to the research protocol approved by IRB, 101 pregnancies were retrospectively recruited. 23 were affected with endometriosis (Em+ group), and 78 had no clinical signs of endometriosis (Em- group). Two groups were analyzed of their background, and several aspects of pregnancy course with perinatal outcomes.

Results:

There were no significant demographic differences in age, and past history of miscarriage between the two groups. The serum level of Anti-Mullerian Hormone (AMH) showed a significant difference (Em+ group : 2.20 ± 1.46 ng/ml vs Em- group : 3.76 ± 2.05 ng/ml). The rate of miscarriage showed a significant difference (Em+ group : 52% vs Em- group : 25%). As for miscarriage patients, the myometrial thickness showed a significant difference (Em+ group : 22.0 ± 7.6 mm vs Em- group : 16.0 ± 3.4 mm). Perinatal outcomes (premature delivery, caesarean section, gestational age at delivery, birth weight, Apgar score, umbilical arterial blood pH, NICU admission) were not significantly different between the groups.

Conclusion:

In the patients who underwent IVF-ET treatment, endometriosis may increase the rate of miscarriage. Our result suggested that myometrial thickening will be a prognosis determining factor. Regarding other aspects of pregnancy outcome, the impact of endometriosis should be clarified in large prospective study.

Keywords : Endometriosis, ART, Misscarriage

Authors :

References : , , ,

Authors

Hirofumi Kashiwagi 1, Shunichiro Izumi 1, Takahiro Suzuki 1, Hitoshi Ishimoto 1, Mikio Mikami 1,

1. Obstetrics and Gynecology, Tokai university, Isehara, JAPAN

Authors (raw format)

Kashiwagi Hirofumi - email : hirofumi@tsc.u-tokai.ac.jp Institution : Tokai university Department : Obstetrics and Gynecology City : Isehara Country : JAPAN Speaker : Yes

Izumi Shunichiro - email : tokaimfc@hotmail.com Institution : Tokai university Department : Obstetrics and Gynecology City : Isehara Country : JAPAN Speaker : No

Suzuki Takahiro - email : tokaimfc@hotmail.com Institution : Tokai university Department : Obstetrics and Gynecology City : Isehara Country : JAPAN Speaker : No

Ishimoto Hitoshi - email : tokaimfc@hotmail.com Institution : Tokai university Department : Obstetrics and Gynecology City : Isehara Country : JAPAN Speaker : No

Mikami Mikio - email : tokaimfc@hotmail.com Institution : Tokai university Department : Obstetrics and Gynecology City : Isehara Country : JAPAN Speaker : No

