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The Impact of Endometrial Injury on Reproductive Outcomes: Results of an Updated Meta-analysis

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Background: It is still unclear whether endometrial injury (EI) has a beneficial effect on reproductive outcomes, and if so, the optimal procedure characteristics are not clear. All previous papers concluded that more research is needed, and as additional studies were recently published, the insights on EI have changed significantly.

Methods: Searches were conducted in MEDLINE, Embase, Web of Science and Cochrane Library, to identify randomized controlled trials examining the EI effect on IVF outcomes in women at least one previous failed cycle.

Results: 2015 references were identified through database searching. Ultimately, 17 studies were included, involving 3016 patients. Clinical pregnancy rate (CPR) (RR=1.19, [95% CI 1.06–1.32], P = 0.003) and live birth rate (LBR) (RR=1.18, [95%CI 1.04–1.34], P = 0.009) were significantly improved after EI. Number of previous failed cycles, maternal age and hysteroscopy were found to be relevant confounders. Higher CPR and LBR were found when EI was performed twice, while performing EI once did not significantly improve reproductive rates.

Conclusion: According to the present meta-analysis, EI may be offered to younger patients with few previous failed cycles and should additionally studied in an RCT comparing different timing and more than one EI before treatment.

Biography

Chen Nahshon has completed here MD studies in the Ruth& Bruce Faculty of Medicine, Technion, Haifa, Israel. In the beginning of her residency in the Department of Obstetrics and Gynecology, Carmel Medical Center' Haifa, Israel, has already published a number of records with much clinical importance.

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