

## عنوان مقاله:

Scientific Principles and Prospects for Medical Approaches Dealing with Female Reproductive System: A Systematic Review

## محل انتشار:

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## خلاصه مقاله:

**Background and Objective:** The reproductive system has a crucial role in women's health. Conditions such as congenital malformations and pathological diseases can negatively affect reproductive organs function and interfere with a woman's quality of life. This review aims to provide a brief overview of the current advances in the field of women health and systematical review the potential and available methods used there. **Search Method:** Throughout this review, we systematically searched MEDLINE to identify 167 articles related to female productive system. About 45 articles have been chosen for systematic review after duplicate elimination and selection of eligible ones were included with criteria such as having a good statistical population or in vitro background and newer therapies or studies addressing key therapies and facing challenges in the field. **Findings:** Novel regenerative medicine and tissue engineering, such as stem cell-based therapies or the development of advanced human cell-based in vitro-manufactured preclinical test systems offer the possibility to create laboratory-grown tissues to restore or establish normal organ function. Despite advancements in reproductive medicine and reconstructive surgery, there is an increased demand for the development of immune-compatible biological tissue substitutes when native healthy tissue is lacking, due methods such as organs on chip and microfluidic technologies raise to provide technical helps by providing powerful in vitro tools, allowing the simulations. **Conclusion:** Because of the intimate relationship between the cells of each organ and between organs, toxicology studies in the female reproductive tract have been difficult to design. There would be a huge demand for better in vitro tools simulating the problems and thereby new regenerative therapies dealing with women health.

## کلمات کلیدی:

Reproductive organs, Women health, Preterm, Regenerative medicine, Scaffold, Hydrogels, Bio 3D printing, Stem cells

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