

عنوان مقاله:

The Peep of Nanotechnology in Reproductive Medicine: A Mini-review

محل انتشار:

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خلاصه مقاله:

Nanotechnology has opened a new field in medicine as well as in other sciences. The aim of this study was to seek the capability of nanotechnology for the treatment of various reproductive diseases. In this study, we analyzed all articles about "nanotechnology and reproductive medicine" published in ۲۰۰۰-۲۰۱۵, indexed in Google Scholar, PubMed and Science Direct. This study indicated that nanotechnology has been extensively used for different biomedical applications, e.g. detection, drug delivery, diagnostic imaging, etc. particularly in cancer diagnostics and treatment. Here, the emerging uses of nanotechnology in reproductive medicine and reproductive biology were found. The available evidence regarding the use of nanomaterials as experimental tools for the detection and treatment of reproductive diseases was summarized. Nanoparticles have potential applications in reproductive biology. Treatment and imaging of reproductive system-related cancers can be performed by engineered nanoparticles. Also, some non-cancerous diseases can be treated by nanotechnology, e.g. endometriosis. The benefits and concerns associated with their use in a highly delicate system of reproductive tissues and gametes have been investigated. Nano-based methods are innovative and potentially controversial approaches in the clinical settings and give us the mechanisms

کلمات کلیدی:

,Drug Delivery, Nanomaterials, Nanoparticles, Nanotechnology, Reproductive Biology, Reproductive Medicine

حمل دارو, بیولوژی تولید مثل, نانوتکنولوژی, نانومواد, نانوذرات

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