

# Real world drug treatment model for reproductive assistance patients in China from 2016 to 2020: a cross-sectional analysis

Jing Jin<sup>1</sup>, Jialei Zhu<sup>1</sup>, and Jing Tang<sup>2</sup>

<sup>1</sup>Affiliation not available

<sup>2</sup>Obstetrics and Gynecology Hospital of Fudan University

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## Abstract

Objective: Infertility is a complex disease, which has a significant impact on medicine, social psychology and economy. There is no unified conclusion on the choice of drug treatment. Our goal is to investigate the actual drug treatment mode of reproductive assistance patients in China, focusing on the trend and rationality of sex hormone use in the past five years. Method: We conducted a cross-sectional analysis of the data from the hospital prescription analysis cooperation project supervised by the China Medical Association during 2016 to 2020. Results: Among the 225225 patients included in this study, the top three cities were Guangzhou, Shanghai and Zhengzhou. In five years, the average age is 32.99 years old. There were 11 kinds of main therapeutic drugs used. The top five were urotropin for injection, different progesterone preparations, chorionic gonadotrophin for injection, dydrogesterone and triptorelin for injection. Although the total dosage of urotropin was the highest, it showed a downward trend. The dosage of progesterone and didroxyprogesterone showed an upward trend, among which progesterone showed the fastest upward trend. Conclusion: The average age of patients has not increased significantly, while the opportunity cost of women's childbirth has increased, which seriously hinders the realization of childbearing intention. The overall medication selection is reasonable. The dosage of first-line urotropin and chorionic gonadotropin recommended by the guidelines is also high in this study, but the dosage of oral first-line treatment of ovarian stimulation in unexplained infertility is low, and the dosage of progesterone is gradually increasing.

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