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EDITED BY  
Simcha Yeget,  
Hadassah Medical Center, Israel

REVIEWED BY  
Bhuchitra Singh,  
Johns Hopkins University, United States  
Chenyang Huang,  
Nanjing Drum Tower Hospital, China

\*CORRESPONDENCE  
Linlin Cui  
✉ fdclear3@126.com

† These authors have contributed equally to this work

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# Effects of duration of long-acting GnRH agonist downregulation on assisted reproductive technology outcomes in patients with adenomyosis: a retrospective cohort study

Yexing Li<sup>1,2,3,4,5,6,7\*</sup>, Li Ge<sup>8†</sup>, Xiaohu Yang<sup>1,2,3,4,5,6,7\*</sup>, Linlin Cui<sup>1,2,3,4,5,6,7\*</sup> and Zi-Jiang Chen<sup>1,2,3,4,5,6,7,9,10</sup>

<sup>1</sup>Center for Reproductive Medicine, Chieftoo College of Medicine, Shandong University, Jinan, Shandong, China, <sup>2</sup>Research Unit of Gametogenesis and Health of ART-Offspring, Chinese Academy of Medical Sciences (No. 2022RU0011), Jinan, Shandong, China, <sup>3</sup>Key Laboratory of Reproductive Endocrinology of Ministry of Education, Shandong University, Jinan, Shandong, China, <sup>4</sup>Shandong Key Laboratory of Reproductive Medicine, Shandong Provincial Hospital Affiliated to Shandong First Medical University, Jinan, China, <sup>5</sup>Shandong Provincial Clinical Research Center for Reproductive Health, Jinan, Shandong, China, <sup>6</sup>Shandong Technology Innovation Center for Reproductive Health, Jinan, Shandong, China, <sup>7</sup>National Research Center for Assisted Reproductive Technology and Reproductive Genetics, Shandong University, Jinan, Shandong, China, <sup>8</sup>Center for Reproductive Medicine, The Second Hospital of Shandong University, Chieftoo College of Medicine, Shandong University, Jinan, Shandong, China, <sup>9</sup>Shanghai Key Laboratory for Assisted Reproduction and Reproductive Genetics, Shanghai, China, <sup>10</sup>Center for Reproductive Medicine, Ren Ji Hospital, School of Medicine, Shanghai Jiao Tong University, Shanghai, China

**Objectives:** To elucidate the relationship between long-acting GnRH agonist (GnRHa) downregulation and assisted reproductive technology (ART) outcomes and identify the optimal duration of downregulation in patients with adenomyosis.

**Design:** Retrospective cohort study.

**Participants:** The study was designed to evaluate ART outcomes in adenomyosis patients with and without GnRHa downregulation between January 2016 and December 2020. A total of 374 patients with adenomyosis (621 cycles) were included with 281 cycles in downregulation group versus 340 cycles in non-downregulation group. After 1:1 propensity score matching (PSM), a sample size of 272 cycles in each group was matched. The matched downregulation group was further divided into 1-month (347 cycles), 2-months (72 cycles), and  $\geq 3$  months downregulation (53 cycles) subgroups. Stratification analysis was conducted on pregnancy outcomes in 239 fresh embryo transfer (ET) cycles and 305 frozen embryo transfer (FET) cycles.

**Results:** The downregulation group had larger mean diameter of initial uterus and higher proportion of severe dysmenorrhea compared to non-downregulation group. The pregnancy-related parameters in GnRHa downregulation group were similar to those in non-downregulation group, except for higher late miscarriage rate (MR) (13.4% vs. 3.1%,  $P = 0.003$ ). The subgroup comparisons in fresh ET cycles indicated that implantation rate (75.0% vs. 39.2%,  $P = 0.002$ ), biochemical pregnancy rate (91.7% vs. 56.0%,  $P = 0.036$ ) and clinical pregnancy rate (83.3% vs. 47.0%,  $P = 0.016$ ) could be improved by prolonged GnRHa downregulation

# Effects Of Regulation On Disability Duration Ics

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