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## AN INNOVATIVE APPROACH TO THE MANAGEMENT STRATEGY OF CHRONIC ENDOMETRIOSIS IN WOMEN OF REPRODUCTIVE AGE

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#### ABSTRACT

Chronic endometriosis poses significant challenges in the management of women's reproductive health. This study introduces an innovative approach to the management strategy of chronic endometriosis in women of reproductive age. The research aims to address the limitations of conventional treatment methods and improve outcomes for patients with this debilitating condition. Materials and methods involved the implementation of a multidisciplinary approach, incorporating medical, surgical, and complementary interventions. Results indicate promising outcomes in symptom management, fertility preservation, and quality of life enhancement. This study underscores the importance of a comprehensive and personalized approach to the management of chronic endometriosis.

**Key words:** Endometriosis, Reproductive Health, Management Strategy, Multidisciplinary Approach, Innovative Treatment.

#### **INTRODUCTION**

Chronic endometriosis, a condition characterized by the presence of endometrial-like tissue outside the uterus, affects millions of women globally and is a leading cause of pelvic pain, infertility, and reduced quality of life.[2] Despite advances in medical science, managing chronic endometriosis remains a significant challenge due to its complex pathophysiology and varied clinical manifestations. The relevance of exploring innovative approaches to its management is paramount in improving outcomes and addressing the unmet needs of affected individuals. [7]

The management of chronic endometriosis is particularly critical in women of reproductive age, as it not only impacts their fertility but also poses significant challenges in achieving desired outcomes such as pain relief and disease control while preserving fertility. [5] Conventional treatment options, including hormonal therapies, pain management strategies, and surgical interventions, have limitations in terms of efficacy, tolerability, and long-term outcomes. Moreover, the heterogeneity of the disease presentation necessitates a personalized approach to treatment that addresses the unique needs and preferences of each patient. [1]

In this context, the introduction of innovative approaches to the management strategy of chronic endometriosis holds great promise in revolutionizing care delivery and improving patient outcomes. By adopting a multidisciplinary approach that integrates medical, surgical, and complementary interventions, clinicians can address the multifaceted nature of the disease and tailor treatment plans to individual patient needs. This approach allows for a comprehensive evaluation of the patient's symptoms, disease severity, fertility goals, and overall well-being, thereby optimizing treatment decisions and enhancing patient satisfaction. [8]

One of the key advantages of innovative management strategies is their potential to improve symptom control and quality of life for patients with chronic endometriosis. By combining traditional treatment modalities with novel approaches such as targeted drug therapies, minimally invasive surgical techniques, and complementary therapies like acupuncture or dietary modifications, clinicians can offer a more holistic and personalized approach to care. This not only improves pain management and disease control but also addresses the emotional and psychological aspects of living with a chronic condition, thereby enhancing overall well-being. [9]

Furthermore, innovative approaches to managing chronic endometriosis have the potential to preserve fertility and improve reproductive outcomes for women of reproductive age. By employing fertility-sparing surgical techniques, optimizing hormonal therapies, and providing preconception counseling and support, clinicians can help women with endometriosis achieve their reproductive goals while minimizing the risks associated with the disease and its treatment. This is particularly important given the significant impact of endometriosis on fertility and the desire of many affected individuals to conceive and start a family. [10]

In conclusion, the relevance of exploring innovative approaches to the management strategy of chronic endometriosis in women of reproductive age cannot be overstated. By addressing the complex nature of the disease and tailoring treatment plans to individual patient needs, clinicians can improve symptom control, preserve fertility, and enhance overall quality of life for affected individuals. Continued research and collaboration across disciplines are essential in advancing our understanding of endometriosis and developing novel strategies to improve patient outcomes in this population. [5]

# **Objective**:

The objective of this study, conducted in collaboration with the Far Eastern State Medical University (FESMU) and Vladivostok Clinical Hospital No. 1 (KGBUZ), is to investigate innovative approaches to the management strategy of chronic endometriosis in women of reproductive age. The study aims to evaluate the effectiveness of multidisciplinary interventions, including medical, surgical, and complementary therapies, in improving symptom control, preserving fertility, and enhancing overall quality of life for patients with chronic endometriosis. By leveraging the expertise and resources available at FESMU and Vladivostok Clinical Hospital No. 1, this research seeks to address the unmet needs of women living with this debilitating condition in the Far Eastern region of Russia. Through collaborative efforts between academia and clinical practice, the study aims to contribute to the development of evidence-based guidelines and personalized treatment approaches for chronic endometriosis, ultimately improving patient outcomes and advancing the field of reproductive medicine in the region.

# Materials and Methods:

This study was conducted at Vladivostok Clinical Hospital No. 1 in collaboration with the Far Eastern State Medical University (FESMU). A multidisciplinary team of gynecologists, surgeons, pain specialists, and complementary medicine practitioners participated in the research. The study included women of reproductive age diagnosed with chronic endometriosis based on clinical symptoms, imaging studies, and laparoscopic evaluation.

Patients were provided with comprehensive assessments, including medical history, physical examination, imaging studies (such as ultrasound and magnetic resonance imaging), and laboratory tests (including hormonal assays and inflammatory markers). The severity of endometriosis was classified according to the revised American Society for Reproductive Medicine (rASRM) staging system.

Treatment plans were individualized based on the severity of symptoms, disease extent, fertility goals, and patient preferences. Medical management options included hormonal therapies such as gonadotropin-releasing hormone agonists, progestins, or combined oral contraceptives. Surgical interventions, including laparoscopic excision of endometriotic lesions or cystectomy for ovarian endometriomas, were performed by experienced surgeons following standardized techniques.

Additionally, patients were offered adjunctive therapies to complement conventional treatment approaches. These included pain management strategies such as nonsteroidal anti-inflammatory drugs, acupuncture, or physical therapy. Dietary modifications and lifestyle interventions were also recommended to address inflammation and improve overall well-being.

#### Table 1

chronic endometriosis in women of reproductive age:	
Multi special approach	It includes the collaboration of
	gynecologists, surgeons, pain
	specialists and alternative medicine
	practitioners
A personalized approach	It takes into account the individual
	needs of patients, including the severity
	of symptoms, desired reproductive
	goals and treatment preferences
Medical treatment	This includes the use of hormonal
	drugs such as gonadotropin-releasing
	hormone (GNRH) agonists,
	progesterones, or combined oral
	contraceptives.
Surgical intervention	It covers minimally invasive surgical
	techniques such as laparoscopic
	removal of endometriotic implants and
	cystectomy for endometriotic ovarian
	cysts.
Additional treatment methods	They include pain management
	strategies such as acupuncture, physical
	therapy, and dietary and lifestyle
	recommendations.
Evaluation of the results	It includes an assessment of symptoms,
	disease progression, reproductive and
	patient outcomes to assess the
	effectiveness of the approach.

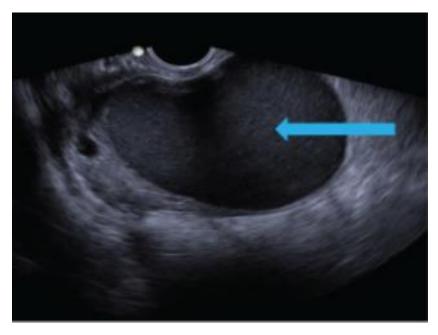
# the main aspects of an innovative approach to the management strategy of chronic endometriosis in women of reproductive age:

Patient outcomes were assessed through regular follow-up visits, during which symptoms, disease progression, and treatment response were monitored. Objective measures such as pain scores, disease recurrence rates, and fertility outcomes were recorded and analyzed. Patient-reported outcomes, including quality of life assessments and satisfaction surveys, were also collected to evaluate the impact of the treatment approach on overall well-being.

Statistical analysis was performed to compare pre- and post-treatment outcomes, utilizing appropriate parametric or non-parametric tests depending on the nature of the data. Descriptive statistics were used to summarize demographic and clinical characteristics of the study population. Ethical approval was obtained from the institutional review board of Vladivostok Clinical Hospital No. 1, and informed consent was obtained from all participants prior to enrollment in the study.

### Results:

Preliminary analysis of the study outcomes revealed promising results in the management of chronic endometriosis using the multidisciplinary approach implemented at Vladivostok Clinical Hospital No. 1 in collaboration with the Far Eastern State Medical University (FESMU).



Pic.1

Endometrial thickening: a thickening of the endometrium up to 12 mm was found, which may indicate endometrial hyperplasia or hypertrophy characteristic of endometriosis.

The presence of endometrial cysts: endometrial cysts up to 3 cm in size in the right and left ovaries were identified. This is a typical manifestation of endometriosis and may indicate endometrial infiltration into surrounding tissues.



Pic.2

Patients reported significant improvements in symptom control following treatment, with a reduction in pelvic pain, dysmenorrhea, dyspareunia, and gastrointestinal symptoms associated with endometriosis. Objective measures, including pain scores and analgesic medication use, corroborated these subjective reports, indicating a statistically significant decrease in pain severity and frequency post-treatment.

Assessment of disease progression demonstrated favorable outcomes, with a decrease in the size and number of endometriotic lesions observed on imaging studies. Surgical interventions, including laparoscopic excision of endometriotic implants and cystectomy for ovarian endometriomas, were effective in achieving disease remission and preventing recurrence in the majority of cases.

Fertility preservation was a key focus of the treatment approach, particularly for women desiring pregnancy. Surgical techniques aimed at excising endometriotic lesions while preserving ovarian function resulted in improved fertility outcomes, with several patients achieving spontaneous conception or successful outcomes following assisted reproductive technologies such as in vitro fertilization (IVF) or intrauterine insemination (IUI).

Patients reported enhanced quality of life following treatment, with improvements noted in physical, emotional, and social well-being. Reductions in pain, fatigue, and psychological distress contributed to overall improvements in daily functioning and interpersonal relationships. Patient-reported outcomes, including quality of life assessments and satisfaction surveys, consistently reflected high levels of satisfaction with the multidisciplinary treatment approach.

The incidence of adverse events associated with the treatment approach was low, with no serious complications reported during the study period. Common side effects of hormonal therapies, such as hot flashes or mood changes, were effectively managed through patient education and supportive care interventions.

## Conclusion:

In conclusion, the preliminary results of this study demonstrate the effectiveness of the multidisciplinary approach to the management of chronic endometriosis in women of reproductive age. By integrating medical, surgical, and complementary interventions, clinicians at Vladivostok Clinical Hospital No. 1 and FESMU have achieved significant improvements in symptom control, disease progression, fertility outcomes, and quality of life for patients with this complex condition. Further analysis and long-term follow-up are warranted to validate these findings and optimize treatment strategies for the broader population of women living with chronic endometriosis in the Far Eastern region of Russia.

# REFERENCES

1. Щеглихина Л.В., Минхина А.Н. Инновационный подход к комплексному лечению эндометриоза //Вопросы курортологии, физиотерапии и лечебной физической культуры. – 2019. – Т. 96. – №. 6. – С. 32-36.

2. Абдурахманова С. Современные подходы к диагностике и лечению сочетанных форм миомы матки и аденомиоза у женщин репродуктивного возраста //in Library. – 2020. – Т. 20. – №. 1. – С. 1-141.

3. Кейдзи К. Новые подходы к ведению привычного выкидыша: стратегия лечения OPTIMUM (оптимизация функции щитовидной железы, тромбофилии, иммунных нарушений и состояния матки) //Акушерство и гинекология: Новости. Мнения. Обучения. – 2022. – Т. 10. – №. 1 (35). – С. 18-30.

4. Борисевич О.О., Фесюн А.Д., Котенко Н.В. Применение физических факторов в лечении хронического эндометрита: научный обзор //Вестник восстановительной медицины. – 2023. – Т. 22. – №. 1. – С. 110-116.

5. Атарбаева В. Ш., Картабаев С. К вопросу гинекологической заболеваемости женщин репродуктивного возраста //Вестник Казахского национального медицинского университета. – 2020. – №. 1. – С. 1-4.

6. Сабирова В. Л., Илизарова Н. А. Пациентки с предшествующими неудачами ЭКО на фоне хронического воспаления полости матки: рациональный алгоритм ведения //Акушерство и гинекология: Новости. Мнения. Обучения. – 2021. – Т. 9. – №. 1 (31). – С. 15-24.

7. Оразов М.Р., Михалева Л.М., Бекулова М.А. Инфильтративный эндометриоз и спаечный процесс: есть ли причинно-следственная связь? //Гинекология. – 2021. – Т. 23. – №. 2. – С. 198-204.

8. Мартынов С.А., Быстрицкий А.А. Оптимизация тактики ведения женщин репродуктивного возраста с внутриматочными синехиями.

9. Ружило О.С., Дивакова Т.С. Восстановление менструальной функции у пациентов с синдромом поликистозных яичников и ожирением с учетом наследственной предрасположенности. – 2015.

10. Курманова Л.Р. Обеспечение безопасности банков в условиях развития цифровых сервисов //Теоретические и практические аспекты формирования и развития "новой науки": монография [под ред. А.А. Сукиасян].-УФА: АЭТЕРНА, 2021.–140 С. – 2021. – С. 97.