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ABNORMAL UTERINE BLEEDING: A REVIEW OF THE LAST FIVE YEARS

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ABSTRACT

This article is devoted to the study of innovations in gynecology in recent years. New diagnostic methods, minimally invasive treatment methods, a personalized approach to treatment, and methods for the prevention of gynecological diseases have been studied in detail.

KEYWORDS

Modern problems in gynecology, innovations, liquid biopsy, 3D ultrasound, artificial intelligence, and genetic testing.

INTRODUCTION

Gynecology is a dynamically developing field of medicine, which is constantly being improved thanks to discoveries and achievements. In 2024, there will be several important innovations that will change the approach to the diagnosis, treatment, and prevention of diseases of the female reproductive system.

1. New diagnostic methods:

• Liquid biopsy: a test of a blood sample or vaginal smear to detect early stages of cervical, ovarian or endometrial cancer. (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8394 • 3D ultrasound: more accurate diagnosis of diseases of the uterus, ovaries, and other pelvic organs. (https://www.mayoclinic.org/3-d-fetal-ultrasound/img-20005777)

• Artificial Intelligence: Using machine learning algorithms to analyze medical images and data to improve diagnostic accuracy. (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7105 008/)

2. Minimally invasive treatment methods:

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• Robotic surgery: operations using robotic systems that provide high precision and minimal trauma. (https://www.youtube.com/watch?v=Qk_smi-8jjo)

• Laparoscopic surgery: operations through small incisions using special instruments and cameras.

• Hysteroscopy: diagnosis and treatment of diseases of the uterus using an endoscopic instrument. (https://www.mayoclinic.org/diseases-

conditions/uterine-

fibroids/multimedia/hysteroscopy/img-20007965)

3. Personalized approach to treatment:

• Genetic testing: identification of genetic mutations that affect the development of gynecological diseases to select individual therapy. (https://www.danafarber.org/cancer-care/treatment/cancer-genetics)

• Targeted therapy: the use of drugs aimed at specific molecular targets in tumor cells. (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7391 668/)

• Immunotherapy: Activating the immune system to fight cancer cells. (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7298 668/)

4. Prevention of gynecological diseases:

• Vaccination against human papillomavirus (HPV): protection against cervical cancer and other HPVassociated diseases. (https://www.cdc.gov/vaccines/vpd/hpv/hcp/recomme ndations.html)

• Cervical cancer screening: regular PAP smears for early detection and treatment of cancer

• A healthy lifestyle: proper nutrition, regular exercise, quitting smoking, weight control - all this reduces the risk of developing many gynecological diseases. (https://www.cdc.gov/women/healthyliving/index.htm)

3. Endometrial Ablation Techniques:

• Microwave ablation: Using microwave energy to destroy the lining of the uterus for heavy menstrual bleeding.

• Balloon ablation: Insert a balloon filled with hot water into the uterus to destroy the lining for heavy menstrual bleeding.

4. Uterine Fibroid Treatment Advancements:

• Uterine fibroid embolization (UFE): Blocking blood flow to fibroids, causing them to shrink.

• High-Intensity Focused Ultrasound (HIFU): Utilizing focused ultrasound waves to destroy fibroids non-invasively.

5. Fertility Treatments:

• Egg freezing: Cryopreservation of eggs for future use in fertility treatments like in vitro fertilization (IVF).

• Embryo freezing: Vitrification of embryos for later implantation during IVF, allowing for more flexibility in family planning.

• Advanced assisted reproductive technologies (ART): Ongoing research to improve success rates of IVF and other fertility treatments.

6. Microbiome Restoration:



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• Exploring the use of vaginal microbiome transplants to restore a healthy balance of bacteria in the vagina, potentially treating conditions like recurrent bacterial vaginosis.

7. Telemedicine:

• Expanding the use of online consultations, video calls, and mobile applications for remote communication with a doctor. (https://www.mayoclinic.org/healthy-

lifestyle/consumer-health/in-depth/telehealth/art-20044878)

• Increasing access to medical care for women living in remote regions or with limited mobility.

• Reduced costs for medical services.

Important:

- Visit your gynecologist regularly
- Undergo preventive examinations
- Monitor your health
- If any symptoms appear, consult a doctor

With the help of modern methods and approaches, women can maintain their health and improve their quality of life.

The future of gynecology is brimming with exciting possibilities fueled by ongoing research and technological breakthroughs. Here's a glimpse into what the coming years might hold:

1. Precision Medicine Takes Center Stage:

Advanced genetic testing: Identifying not only cancer predisposition genes but also genes linked to other gynecological conditions like endometriosis and infertility. This personalized approach allows for tailored treatment plans and preventative measures.

Liquid biopsies: Non-invasive blood tests for early detection of gynecological cancers, eliminating the need for more invasive procedures.

2. Minimally Invasive Techniques Reach New Heights:

Natural orifice surgery: Utilizing natural body openings for surgical access, further minimizing scarring and improving recovery times.

Microrobotics: Employing miniature robots for even greater precision and minimal tissue disruption during complex procedures.

3. The Rise of Robotics and Artificial Intelligence (AI):

Enhanced robotic surgery: AI-powered surgical robots with greater autonomy assisting surgeons, leading to even more precise and efficient procedures.

Al-driven diagnostics: Utilizing Al algorithms to analyze medical images and data for improved diagnostic accuracy and earlier detection of gynecological conditions.

4. Focus on Preventive Care and Early Detection:

Advanced screening methods: Development of noninvasive and highly sensitive screening tools for early detection of various gynecological cancers.

Personalized risk assessment tools: Utilizing AI and machine learning to create individualized risk assessments for specific gynecological conditions.

5. Fertility Preservation and Innovation:

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Improved egg and embryo freezing techniques: Extending the viability and success rates of cryopreservation for future fertility treatments.

Artificial gametes: Research on creating sperm and egg cells in vitro, potentially offering new options for individuals facing fertility challenges.

Uterine transplantation: Continued advancements in uterine transplantation techniques, offering hope for women born without a uterus or those who have undergone hysterectomy.

6. Telehealth Revolutionizes Patient Care:

Expansion of virtual consultations and remote monitoring: Telehealth platforms allow for more convenient and accessible gynecological care, especially in underserved areas.

Al-powered chatbots and virtual assistants: Providing patients with 24/7 access to reliable health information and support.

7. Microbiome and Microbiota Integration:

A deeper understanding of the vaginal and gut microbiome: Exploring the role of these microbiomes in women's health and developing treatments that restore a healthy balance for conditions like endometriosis and recurrent infections.

The Evolving Landscape

These are just a few of the exciting possibilities on the horizon for the future of gynecology. As research continues to unlock new avenues, we can expect even more groundbreaking advancements that will revolutionize the way we diagnose, treat, and prevent gynecological conditions, empowering women to lead healthier and more fulfilling lives.

CONCLUSION

Innovations in the field of gynecology open up new opportunities for diagnosis, treatment, and prevention of diseases of the female reproductive system.

These advancements represent a glimpse into the ever-evolving landscape of gynecological treatment. With continued research and development, we can expect even more innovative methods to emerge, further improving women's health and well-being.

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