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Short Communication

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Infertility: Cause, Diagnosis and Treatment

Chin Fing*

Department of Medical Laboratory Science and Biotechnology, Asia University, Taichung, Taiwan

*Corresponding author: Chin Fing, Department of Medical Laboratory Science Taichung, and Biotechnology, Asia University, Taiwan: E-mail: chin198fing@gmail.com

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Description

Infertility is defined as the inability to conceive after one year of regular unprotected intercourse. It affects approximately 10-15% of couples globally and can have significant emotional and psychological impacts on individuals and relationships [1,2]. Infertility can be caused by a variety of factors, including hormonal imbalances, structural abnormalities, and lifestyle factors.

Causes of infertility

Hormonal imbalances: Hormonal imbalances can interfere with ovulation, the release of an egg from the ovaries [3]. Common hormonal imbalances that can lead to infertility include polycystic ovary syndrome, thyroid disorders, and hyperprolactinemia.

Structural abnormalities: Structural abnormalities in the reproductive system can also lead to infertility. Conditions such as endometriosis, blocked fallopian tubes, and uterine fibroids can interfere with the fertilization process [4,5].

Lifestyle factors: Lifestyle factors such as smoking, alcohol consumption, and obesity can also contribute to infertility. These factors can affect hormone levels, ovulation, and sperm production fallopian tubes have been damaged. These organs transport fertilised eggs from ovaries to the uterus, where the infant grows [6-8]. Scars from pelvic infections, endometriosis, and pelvic operations can harm the tubes. This can make it difficult for sperm to reach an embryo in the tube. In the passage, the egg and sperm come together. The egg is fertilised here before moving down to the uterus to deposit. Hormonal issues may not be pregnant because body isn't undergoing the normal hormonal changes that result in the discharge of an egg from the ovary and the thickening of the uterine lining. Cervical problems some women have a condition that makes it difficult for sperm to travel through the cervical canal [9-11].

Polycystic Ovarian Syndrome (PCOS) creates a hormonal imbalance that interferes with ovulation. PCOS is linked to insulin intolerance and obesity, as well as abnormal hair development on the face and body and acne. It is the most prevalent cause of infertility in women. Dysfunction of the hypothalamus each month, the pituitary gland produces two hormones that stimulate ovulation Follicle-Stimulating Hormone (FSH) and Luteinizing Hormone (LH). Excessive physical or emotional stress, extremely high or extremely

low body weight, or a recent significant weight increase or loss can all disrupt hormone production and interfere with ovulation. The most prevalent symptoms are irregular or missing periods.

Diagnosis: Diagnosing infertility involves a thorough medical history, physical examination, and various tests. These tests may include blood tests to check hormone levels, imaging tests to assess the reproductive organs, and semen analysis to evaluate sperm quality.

Treatment: Treatment options for infertility depend on the underlying cause, the age of the couple, and the duration of infertility. Treatment options may include medications to stimulate ovulation, surgery to correct structural abnormalities, and Assisted Reproductive Technologies (ART) such as Intrauterine Insemination (IUI) or In Vitro Fertilization (IVF).

Conclusion

In conclusion, infertility is a common condition that can have significant emotional and psychological impacts on individuals and relationships the causes, diagnosis, and treatment options for infertility can help individuals and couples to make informed decisions about their reproductive health. By seeking medical assistance and exploring various treatment options, couples can increase their chances of conceiving and starting a family.

References

- Siegal R, Miller KD, Jemal A (2012) Cancer statistics. Ca 1. Cancer J Clin 64(1):9-29.
- 2. Yang CY, Yang JC, Yang PC (2020) Precision management of advanced non-small cell lung cancer. Annu Rev Med 71:117-136.
- Siegal R, Miller KD, Jemal A (2014) Cancer statistics. Ca 3. Cancer J Clin. 64(1):9-29.
- 4 Detterbeck FC, Boffa DJ, Tanoue LT (2009) The new lung cancer staging system. Chest 136(1):260-271.
- Nagasaka M, Gadgeel SM (2018) Role of chemotherapy and 5. targeted therapy in early-stage non-small cell lung cancer. Expert Rev Anticancer Ther 18(1):63-70.
- Strauss GM (2005) Adjuvant chemotherapy of lung cancer: 6. Methodologic issues and therapeutic advances. Hematol Oncol 19(2):263-281.
- Griesinger F, Korol EE, Kayaniyil S, Varol N, Ebner T, et al 7. (2019) Efficacy and safety of first-line carboplatin-versus cisplatin-based chemotherapy for non-small cell lung cancer: A meta-analysis. Lung Cancer 135:196-204.
- Lim SM, Syn NL, Cho BC, Soo RA (2018) Acquired resistance 8. to EGFR targeted therapy in non-small cell lung cancer: Mechanisms and therapeutic strategies. Cancer Treat Rev 65:1-0.
- 9. Gandhi L, Rodríguez-Abreu D, Gadgeel S, Esteban E, Felip E, et al (2018) Pembrolizumab plus chemotherapy in metastatic nonsmall-cell lung cancer. N Engl J Med 378(22):2078-2092.
- 10. West H, McCleod M, Hussein M, Morabito A, Rittmeyer A, et al (2019) Atezolizumab in combination with carboplatin plus nabpaclitaxel chemotherapy compared with chemotherapy alone as first-line treatment for metastatic non-squamous non-small-cell lung cancer (IMpower130): A multicentre, randomised, openlabel, phase 3 trial. Lancet Oncol 20(7):924-937.



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11. Socinski MA, Jotte RM, Cappuzzo F, Orlandi F, Stroyakovskiy D, et al (2018) Atezolizumab for first-line treatment of

metastatic nonsquamous NSCLC. N Engl J Med 378(24): 2288-2301.