WHAT IS INFERTILITY?

Infertility is the inability to achieve and maintain a pregnancy and is considered a major disease of the reproductive system. Infertility affects approximately **1 in 6 couples** worldwide.

In couples experiencing pregnancy delay, male infertility accounts for about 35% and female infertility for about 45% of the cases. The remaining cases are caused by a combination of male and female factor. 10-15% of men and women have genetic changes associated with infertility. Infertility genetic testing can identify these mutations, providing your healthcare provider with invaluable knowledge that will help them choose the best treatment plan for you.

WHY CHOOSE Rodinia?

Rodinia provides your healthcare provider with valuable genetic insight that could improve your chances of achieving pregnancy.



Identifies infertility-causing genetic changes



Provides deep insight that cannot be obtained with non-genetic tests



Guides your doctor to find the best therapy for you, based on the information provided



Uses painless and non-invasive collection method



Delivers time-sensitive and cost-effective genetic information

HOW IS Rodinia ADMINISTERED?



ASK YOUR DOCTOR ABOUT Rodinia



YOUR DOCTOR WILL COLLECT THE SAMPLE USING A BUCCAL SWAB

THE SAMPLE WILL BE SENT TO

THE SAMPLE WILL BE ANALYZED



NIPD Genetics

IN OUR LABORATORIES



RESULTS WILL BE SENT TO YOUR DOCTOR WITHIN 2-4 WEEKS FROM SAMPLE RECEIPT

MORE **QUESTIONS**?

If you have additional questions or concerns, please ask your doctor. You can also contact us:





NIPD Genetics **www.nipd.com** info@nipd.com



Personalized insight for family planning

SAFE | SENSITIVE | RELIABLE

WHAT IS Rodinia?

Rodinia is a new test that screens for genetic changes (mutations) associated with infertility. By identifying the genetic cause of infertility, your healthcare provider will be able to take informed and accurate decisions on the best clinical management for you, which will help increase your chances of conceiving.

Rodinia is suitable for couples or individuals experiencing pregnancy delay, young people with a suspected disorder of sex development and people with family history of infertility.

HOW DOES Rodinia HELP ME?



Identifies the genetic cause for infertility



Enables accurate prognosis



Assists your doctor in deciding the most optimal treatment for you



Increases the chances of successful pregnancy



Informs your doctor on potential complications from treatment, such as ovarian hyperstimulation syndrome



Informs you and your doctor if early interventions are beneficial

WHO IS Rodinia FOR?



Couples or individuals experiencing delay in conceiving

Men with low sperm count, irregular

Individuals with external characteristics

indicating a syndrome associated with

Couples or individuals that will undergo

assisted reproductive technology (ART)

Women with irregular or absent menstruation

sperm form or movement

sex development

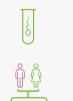
treatment



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HOW CAN INFERTILITY GENETIC **TESTING IMPROVE PROGNOSIS?**

By identifying the genetic cause of infertility, genetic testing can lead to a more personalized clinical management, and assist in establishing the most fitting fertility treatment for each individual or couple.

In men with azoospermia, genetic testing of the Y chromosome is recommended by the American Society for Reproductive Medicine, as it can identify which men have a chance of recovering sperm through testicular sperm extraction*.

In women with primary ovarian insufficiency, genetic testing provides early identification which is invaluable as egg harvesting and cryopreservation at a young age can be performed to preserve fertility.

*Practice Committee of the American Society for Reproductive Medicine. Diagnostic evaluation of the infertile male: a committee opinion (2015)

WHAT DOES Rodinia TEST FOR?

Rodinia offers a female and a male infertility panel which detect numerous genetic mutations associated with infertility. Both panels also test for whole, partial and mosaic* sex chromosome changes which can cause fertility problems.

*Mosaicism refers to the condition of having two or more sets of cells that differ genetically from one another.

FEMALE INFERTILITY PANEL (55 genes)

MALE INFERTILITY PANEL (40 genes)

Includes testing of the X chromosomes, and disorders such as primary ovarian insufficiency, polycystic ovary syndrome, hypogonadotropic hypogonadism and ovarian hyperstimulation syndrome.

Includes testing of X and Y chromosomes, including Y-chromosome microdeletions, and disorders such as hypogonadotropic hypogonadism, like Kallmann syndrome.

ADD-ON PANEL



Haemophilia and Thrombosis panel (22 mutations)

Haemophilia and Thrombosis panel is available upon request and could be beneficial to couples or individuals with more than one miscarriage.

WHAT CAN I DO AFTFR Rodinia?

Doctors use various methods to treat infertility. Based on Rodinia's results, doctors can identify the most beneficial treatment for you taking into consideration potential complications.



Lifestyle changes eg. Maintain a healthy body weight, guit smoking, avoid alcohol



Medication eg. Ovulation induction drugs, hormones



Surgical procedure eg. Testicular sperm extraction



Cryopreservation eg. Oocyte harvesting at a young age to preserve fertility



Assisted reproductive technology eg. In vitro fertilization

Candidates for sperm or oocyte donation

Individuals with family history of infertility