

**Saudi Arabia In-Vitro Fertilization (IVF) Market By Technique (ICSI IVF v/s Non-ICSI/Traditional IVF), By Reagent (Embryo Culture Media, Cryopreservation Media, Sperm Processing Media, Ovum Processing Media), By Instrument (Imaging Systems, Incubators, Cryo-systems, Sperm Separation Systems, Ovum Aspiration Pumps, Micromanipulator Systems, Others), By Infertility (Female v/s Male), By Embryo (Frozen-Thawed Embryo v/s Fresh Embryo), By Application (Fertility Clinics, Hospitals, Others), By End-User (Locals, Expats, Medical Tourists), By Region, Competition, Forecast & Opportunities, 2018-2028F**

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**Report description:**

Saudi Arabia In-Vitro Fertilization (IVF) market is expected to boost at a significant growth rate during the forecast period 2024-2028, owing to the rise in medical conditions, which is associated with infertility in men and women both. Additionally, change in lifestyle has contributed to the rise in the prevalence of gynecological disorders such as polycystic ovarian syndrome (PCOS) and endometriosis which has significantly increased the demand for In-Vitro Fertilization (IVF) among couples. This has, in turn, led to an increase in the number of couples visiting various fertility clinics and hospitals to avail of different types of fertility treatments. Women visiting the outpatient and inpatient departments of Maternity and Children Hospital, Arar, Kingdom of Saudi Arabia, were the subjects of a cross-sectional hospital-based study conducted between December 1, 2018, and March 31, 2019, in the Kingdom of Saudi Arabia. The prevalence of infertility among women using the outpatient and inpatient services at the

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Maternity and Children Hospital was 65.3% overall, with 19.8% of cases being primary and 80.2% being secondary. Following polycystic ovary in 21.8%, tubal adhesions or obstruction in 6.7%, endometriosis in 3.2%, and uterine fibroid in 3.0% were the documented causes of infertility. The stated form of management included husband treatment in 0.2% of cases, herbal therapies in 7.8%, IVF in 5.0%, and medications for ovulation induction in 14.7%. The conclusion of the study stated that infertility was the leading cause of cases seen in the outpatient and/or inpatient departments at the Maternity and Children Hospital of Arar in Saudi Arabia.

Polycystic ovarian disease was the second most common cause of infertility. Age, menstruation, obstetric history, smoking, alcohol use, and body mass index (BMI) are all significant risk factors that lead to infertility. Infertility can occur by a variety of conditions, including endometriosis, fibroid, polycystic ovary syndrome, and reproductive tract infections.

In many women all over the world, polycystic ovarian syndrome (PCOS) is the most common disease in women, a hormonal condition that manifests as insulin resistance, hair growth, irregular menstruation, and, in some cases, infertility. The patient's health and quality of life are both greatly impacted by endometriosis, which can also result in infertility.

Some disease, if not treated on time, leads to complications in pregnancy and, in some cases, infertility, due to which the couple opts for IVF to overcome infertility, thus rising cases of diseases which are associated with infertility in females is expected to create opportunities for the growth of Saudi Arabia In-Vitro Fertilization (IVF) in the upcoming years.

#### Preimplantation Genetic Diagnosis (IVF-PGD)

Due to consanguineous marriages, genetic abnormalities are frequent in Saudi Arabia, and the use of next-generation sequencing has led to the discovery of more genetic variants. The high-frequency rate can be attributed to the region's high consanguinity rate, which accounts for 56 percent of marriages in Saudi Arabia and the Middle East. Reproductive medicine's future is expanded by couples who are able to conceive healthy children despite known genetic defects. Preimplantation genetic diagnosis (PGD) testing is the procedure of taking a cellular biopsy sample from a developing human oocyte or embryo obtained through an IVF cycle, analyzing the genetic makeup of this sample, and then using this knowledge to select the best embryos for uterine transfer in future. An increasingly helpful addition to IVF operations is PGD. Reproductive medicine has entered a new phase with the potential to give pregnant couples who are known carriers of genetic disorders the chance to give birth to healthy children. PGD's goal is to provide couples the ability to select which embryos will be implanted into the mother. PGD has been improved due to developments in molecular biology and in vitro fertilization (IVF) methods. In many nations, PGD is a recognized and practical substitute for conventional prenatal diagnosis in families with inherited diseases.

The benefit of using preimplantation genetic diagnosis to detect genetic abnormalities in fetus is expected to augment the market of Saudi Arabia In-Vitro Fertilization (IVF) in the forecast years.

#### Cost-effectiveness of In-Vitro Fertilization (IVF) Market

Assisted reproductive technology (ART) treatment costs vary dramatically between countries, having an impact on both clinical practice and affordability.

In Saudi Arabia, certain state institutions offer IVF therapy; the government fully subsidizes ART services for citizens who match the eligibility requirements of primary or secondary infertility with only one child and females aged under 43. Most of the IVF services in Saudi Arabia are provided in private clinics and hospitals and are usually not covered as a part of insurance, thus requiring a demand for cost-effectiveness and efficiency for further process of IVF among the patients.

Due to its cost-effectiveness, the country has a continuous flow of tourists as well and thus has a thriving fertility tourism.

#### Market Segmentation

Saudi Arabia In-Vitro Fertilization (IVF) market is segmented into technique, reagent, instruments, infertility, embryo, application, end-user, regional distribution, and company. Based on the Technique, the market is segmented into ICSI IVF and Non-ICSI/Traditional IVF. Based on the Reagent, the market is segmented into Embryo Culture Media, Cryopreservation Media, Sperm Processing Media, and Ovum Processing Media. Based on the Instruments, the market is segmented into Imaging Systems, Sperm Separation Systems, Ovum Aspiration Pumps, Incubators, Micromanipulator Systems, Cryo-systems, and Others. Based on

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Infertility, the market is segmented into females and Males. Based on the Embryo, the market is segmented into Frozen-Thawed Embryos and Fresh Embryo. Based on the Application, the market is segmented into Fertility Clinics, Hospitals, and Others. Based on the End-user, the market is segmented into Locals, Expats, and Medical Tourists.

#### Market Players

Some of the major players operating in the Saudi Arabia In-Vitro Fertilization (IVF) market are Dr. Sulaiman Alhabib Medical Group, HealthPlus Fertility & Women's Health Center, Dr. Samir Abbas Medical Centers, Dr. Khalid Idriss Hospital, KCUH - Assisted Conception Unit, King Faisal Specialist Hospital, Saad Hospital IVF Center, Al Manaa General Hospital IVF Unit, Thuriah Medical Center, Bnoon Medical Center, and others.

#### Report Scope:

In this report, Saudi Arabia In-Vitro Fertilization (IVF) market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

- Saudi Arabia In-Vitro Fertilization (IVF) Market, By Technique:

o ICSI IVF

o Non-ICSI/ Traditional IVF

- Saudi Arabia In-Vitro Fertilization (IVF) Market, By Reagent:

o Embryo Culture Media

o Cryopreservation Media,

o Sperm Processing Media

o Ovum Processing Media

- Saudi Arabia In-Vitro Fertilization (IVF) Market, By Instruments:

o Imaging Systems

o Sperm Separation Systems

o Ovum Aspiration Pumps

o Incubators

o Micromanipulator Systems

o Cryo-systems

o Others

- Saudi Arabia In-Vitro Fertilization (IVF) Market, By Infertility:

o Female

o Male

- Saudi Arabia In-Vitro Fertilization (IVF) Market, By Embryo:

o Frozen-thawed Embryo

o Fresh Embryo

- Saudi Arabia In-Vitro Fertilization (IVF) Market, By Application:

o Fertility Clinics

o Hospitals

o Others

- Saudi Arabia In-Vitro Fertilization (IVF) Market, By End User:

o Locals, Expats

o Medical Tourists

o Hospitals

- Saudi Arabia In-Vitro Fertilization (IVF) Market, By Region:

o Western

o Central

o Eastern

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o Rest of Saudi Arabia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Saudi Arabia In-Vitro Fertilization (IVF) market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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