

Vietnam In Vitro Fertilization Market By Technique (ICSI IVF and Non-ICSI/ Traditional IVF), By Product (IVF Culture Media, ICSI Machine, IVF Incubators, Cryo-system, Others), By Egg Donor (Frozen Non-donor, Fresh Non-donor, Frozen Donor, Fresh Donor), By Infertility (Male and Female), By Embryo (Fresh Embryo and Frozen-thawed Embryo), By Application (Fertility Clinics, Hospitals, Others), By End User (Locals, Medical Tourists, Expats), By Region, By Competition, Forecast & Opportunities, 2019-2029F

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Abstracts

Vietnam In Vitro Fertilization Market was valued at USD 141.40 Million in 2023 and is anticipated to project impressive growth in the forecast period with a CAGR of 7.46% through 2029. The Vietnam In Vitro Fertilization (IVF) market is being driven by several key factors contributing to its growth. Increasing awareness and acceptance of IVF procedures among Vietnamese couples, coupled with rising infertility rates due to factors such as delayed parenthood, lifestyle changes, and environmental influences, are significant drivers. Improvements in healthcare infrastructure and the availability of advanced medical technologies in urban centers further enhance accessibility to IVF treatments across the country. Supportive government policies aimed at promoting reproductive health and family planning services have fostered a conducive environment for the expansion of the IVF market. As societal attitudes towards fertility treatment continue to evolve positively, the demand for IVF services in Vietnam is expected to rise, driving the market's growth trajectory in the coming years.

Key Market Drivers

Rise in Infertility Rate

Infertility in women is mainly caused due to endometriosis, polycystic ovary disease, or obstruction of two uterus linings. Infertile men lack sperm due to testicular dysfunction, retrograde ejaculation, or insemination system obstruction. Sperm production or function can be affected by overexposure to certain environmental elements, including Industrial chemicals. Extended exposure to benzenes, toluene, xylene, herbicides, pesticides, organic solvents, painting materials and lead might contribute to low sperm counts. Drug and alcohol consumption patterns also impact men's sperm quality and count. The egg count goes down with increasing age leading to problems in fertilization and conception in women. The normal aging process also increases the likelihood of miscarriage and giving birth to a child who has a genetic disorder. All the factors mentioned above along with the decreasing fertility rate in Vietnam are expected to increase the demand for in-vitro fertilization, thereby driving the market growth. Over the last three decades, Vietnam has seen a notable decline in its Total Fertility Rates (TFRs), which measure the average number of children born to each woman. Specifically, TFRs have decreased from 3.80 children per woman in 1989 to 2.09 children per woman in 2019. This decline has played a crucial role in reducing the country's overall population growth rate. Despite achieving and maintaining stable fertility rates close to replacement level, regional, local, and demographic disparities persist within Vietnam.

Rise in Medical Tourism

Vietnam is a popular destination for medical tourists seeking in-vitro Fertilization treatment, beauty, or dental care. The costs in Vietnam are reasonable, and the services are excellent. Travel agencies have collaborated with hospitals to plan medical tours, emphasizing the accessibility and high standards of these facilities, which appeal to tourists. According to an article titled, "Depression and associated factors among infertile women at Tu Du hospital, Vietnam: a cross-sectional study", approximately 40,000 couples experiencing infertility seek consultation and treatment at Tu Du Hospital in Vietnam each year.

Vietnam is expanding its fertility tourism industry. Since there are more In-Vitro Fertilization centers, the finest doctors and most recent technology available for offering treatment, along with affordable treatment expenses, among others, medical tourism has significantly increased in the country.

Rising Demand for Artificial Insemination

Due to the rising incidence of diseases, including erectile dysfunction and polycystic ovary syndrome, the risk of infertility is rising in Vietnam. Complications could arise due to significant lifestyle adjustments and the growing preference of working women to conceive later in life. Various things, including stress, alcohol consumption, lifestyle modification, and decreased sperm count and motility, causes infertility problems in men. A persistent rise in the prevalence of infertility in both sexes causes the need for artificial insemination. Artificial insemination techniques like intrauterine insemination (IUI), in vitro Fertilization (in-vitro Fertilization), etc., are the treatments for the infertility issue. Recent innovations, such as ICSI (Intracytoplasmic Sperm Injection), have improved embryo quality even with very low or abnormal sperm counts, increasing success rates. This in turn is expected to create lucrative opportunities for the growth of in-vitro fertilization market in the coming years.

Expansion of Healthcare Infrastructure

The expansion and modernization of healthcare infrastructure in Vietnam, particularly in its urban centers, represent a pivotal factor driving the growth of the IVF market. As the country undergoes rapid economic development, significant investments have been directed towards upgrading medical facilities and enhancing healthcare services. This includes the establishment of specialized fertility clinics equipped with state-of-the-art equipment and facilities dedicated to reproductive health.

These advancements have substantially improved the accessibility and availability of IVF treatments across Vietnam. Urban areas, in particular, have witnessed the proliferation of modern fertility centers staffed by highly skilled healthcare professionals trained in advanced reproductive technologies. The presence of these specialized clinics not only caters to the increasing demand for infertility treatments but also ensures that couples have access to comprehensive and personalized care. The development of robust healthcare infrastructure instills confidence among prospective parents regarding the reliability and quality of IVF services offered within the country. Patients benefit from the assurance of receiving treatment in facilities that adhere to stringent medical standards and protocols, thereby enhancing the overall patient experience and treatment outcomes.

Key Market Challenges

Cost and Affordability

One of the primary challenges for the Vietnam IVF market is the cost associated with fertility treatments. IVF procedures can be expensive, often requiring multiple cycles for success, which places a financial strain on many couples. The high cost of medications, laboratory procedures, and specialist consultations can deter some individuals from pursuing IVF, particularly those with limited financial resources. Addressing the affordability of IVF treatments through governmental subsidies, insurance coverage expansion, or cost-effective treatment options is crucial to making fertility care accessible to a broader segment of the population.

Limited Access to Advanced Technologies

While urban centers in Vietnam have seen significant advancements in healthcare infrastructure, rural areas may still lack access to specialized fertility clinics and advanced IVF technologies. Disparities in healthcare access between urban and rural regions pose a challenge, as individuals living in remote areas may face barriers in accessing timely and comprehensive fertility treatments. Enhancing infrastructure development and expanding telemedicine initiatives could help bridge these gaps, ensuring equitable access to IVF services across different geographical regions of the country.

Key Market Trends

Advancements in Medical Technology

Advances in medical technology, particularly within the realm of In Vitro Fertilization (IVF), have significantly contributed to the growth and evolution of Vietnam's fertility treatment market. These advancements encompass a spectrum of innovations that have enhanced the efficacy, safety, and accessibility of IVF procedures across the country.

One of the most notable advancements is the improvement in success rates of IVF treatments. Innovations in laboratory techniques, including embryo culture systems and cryopreservation methods, have led to higher success rates in achieving successful pregnancies. This has instilled greater confidence among couples facing infertility issues, encouraging more individuals to pursue IVF as a viable option to build their families. The introduction of minimally invasive techniques in IVF procedures has revolutionized fertility care. Techniques such as transvaginal ultrasound-guided egg

retrieval and embryo transfer have minimized discomfort and recovery times for patients, while also reducing the risks associated with invasive surgical procedures. These advancements not only improve patient comfort but also contribute to higher success rates by optimizing the conditions under which embryos are transferred.

Government Support and Policies

Supportive government policies aimed at promoting reproductive health and family planning have provided a favorable regulatory environment for the IVF market in Vietnam. Initiatives focusing on subsidizing fertility treatments, regulating IVF clinics, and advocating for reproductive rights have contributed to the growth of the sector. These policies not only address the healthcare needs of the population but also facilitate affordability and accessibility to IVF services, encouraging more couples to pursue fertility treatments within the country.

Segmental Insights

Technique Insights

Based on the Technique, Intracytoplasmic Sperm Injection (ICSI) IVF has emerged as the dominant technique over Non-ICSI or Traditional IVF methods. ICSI involves the direct injection of a single sperm into an egg to facilitate fertilization, which is particularly beneficial for couples facing male infertility issues such as low sperm count or poor sperm motility. This technique has gained popularity due to its higher success rates compared to traditional IVF methods, especially in cases where conventional fertilization techniques may not achieve successful fertilization.

The dominance of ICSI in the Vietnam IVF market can be attributed to several factors. The prevalence of male infertility factors in couples seeking fertility treatment necessitates the use of ICSI to overcome these challenges effectively. As infertility rates rise and more couples delay childbearing, the demand for advanced reproductive technologies like ICSI has increased, driving its adoption in fertility clinics across the country. Advancements in medical technology and laboratory techniques have improved the efficiency and reliability of ICSI procedures, contributing to its widespread acceptance among healthcare providers and patients. The ability of ICSI to achieve fertilization even with a limited number of viable sperm samples enhances its appeal as a preferred treatment option for couples undergoing IVF. The success of ICSI in achieving higher pregnancy rates has bolstered its position in the market. Clinics offering ICSI IVF often highlight its enhanced efficacy and reliability, attracting more

couples seeking a higher likelihood of successful conception through assisted reproductive technologies.

End User Insights

Based on the End User, medical tourists are increasingly emerging as a significant segment driving growth and diversity. Vietnam's appeal as a medical tourism destination for IVF treatments is growing due to several compelling factors. The country offers competitive pricing compared to Western countries and even neighboring Southeast Asian nations, making it an attractive option for individuals seeking high-quality yet affordable fertility treatments. This cost advantage extends to a range of IVF services, including consultations, procedures, medications, and post-treatment care, appealing to medical tourists looking to optimize their healthcare spending.

Vietnam boasts a rapidly advancing healthcare infrastructure, particularly in urban centers like Ho Chi Minh City and Hanoi, where specialized fertility clinics equipped with state-of-the-art technologies cater to both local and international patients. The presence of internationally trained fertility specialists and healthcare professionals further enhances confidence in the quality and reliability of IVF services offered in the country. Vietnam's strategic geographical location within Southeast Asia facilitates accessibility for medical tourists from nearby countries such as China, South Korea, Japan, and Australia. Ease of travel, coupled with visa facilitation programs for medical purposes, encourages individuals seeking IVF treatments to choose Vietnam as their preferred destination.

Regional Insights

In Vietnam, the dominance of the In Vitro Fertilization (IVF) market varies across different regions, with Southern Vietnam emerging as the leading region for fertility treatments. Cities like Ho Chi Minh City and its surrounding metropolitan area have witnessed significant growth in the number of specialized fertility clinics and IVF centers. This can be attributed to several factors contributing to Southern Vietnam's prominence in the IVF market.

Ho Chi Minh City, as Vietnam's largest city and economic hub, attracts a large population of residents seeking advanced medical care, including fertility treatments. The city's robust healthcare infrastructure, characterized by modern hospitals, well-equipped fertility clinics, and skilled medical professionals trained in the latest reproductive technologies, supports the delivery of comprehensive IVF services. This

infrastructure development ensures that patients have access to state-of-the-art facilities and specialized care throughout their IVF journey.

Southern Vietnam benefits from a higher concentration of affluent and urbanized populations compared to other regions in the country. The demographic profile of Ho Chi Minh City and its surrounding areas includes a significant number of couples pursuing careers and higher education, contributing to delayed parenthood and a rising demand for fertility treatments like IVF. This demographic trend drives the market demand for IVF services, prompting the establishment and expansion of fertility clinics to meet growing patient needs.

Key Market Players

Hong Ngoc IVF Center

Vinmec Central Park International Hospital

Hoan My Thu Duc Hospital

Hanh Phuc International Hospital

Van Hanh General Hospital Company Limited

AN Sinh Hospital

Phuong Chau International Group

Hue Central Hospital

Tu Du Hospital

Hanoi French Hospital

Report Scope:

In this report, the Vietnam In Vitro Fertilization Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Vietnam In Vitro Fertilization Market, By Technique:

ICSI IVF

Non-ICSI/ Traditional IVF

Vietnam In Vitro Fertilization Market, By Product:

IVF Culture Media

ICSI Machine

IVF Incubators

Cryo-system

Others

Vietnam In Vitro Fertilization Market, By Egg Donor:

Frozen Non-donor

Fresh Non-donor

Frozen Donor

Fresh Donor

Vietnam In Vitro Fertilization Market, By Infertility:

Male

Female

Vietnam In Vitro Fertilization Market, By Embryo:

Fresh Embryo

Frozen-thawed Embryo

Vietnam In Vitro Fertilization Market, By Application:

Fertility Clinics

Hospitals

Others

Vietnam In Vitro Fertilization Market, By End User:

Locals

Medical Tourists

Expats

Vietnam In Vitro Fertilization Market, By Region:

South Vietnam

North Vietnam

Central Vietnam

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Vietnam In Vitro Fertilization Market.

Available Customizations:

Vietnam In Vitro Fertilization Market report 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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