

Document Title	Guideline for Patient's Eligibility Criteria for IVF Treatment in Governmental Fertility IVF Center
Document Type	Guideline
Directorate/Institution	Governmental Fertility center, Directorate General of Khoula Hospital
Targeted Group	All doctors and referral units in the Sultanate of Oman, who intend to refer couples to the governmental IVF Center
Document Authors	Authors' names next page
Document Reviewer	Reviewers' names next page
Release Date	January 2024
Review Frequency	3 – 5 years

Validated by		Approved by	
Name	Dr Qamra Al Sariri	Name	Dr. Rashid Al-Alawi
Designation	DG of QAC	Designation	Director General
Signature		Signature	
Date	January 8, 2024	Date	January 17, 2024



- **Document Authors names:**

1. Dr Rahma Al Ghabshi, Senior Consultant head of Head of Obstetrics and Gynecology Department and IVF Center.
2. Dr Malar Karuppiah Thanikasalam, Consultant
3. Dr Naama Al Mamari, Consultant
4. Dr Nasrin Jalilian, Consultant
5. Dr Maryam Al Shabibi, Consultant

- **Reviewer's names:**

1. Dr .Abdullah Al Salti ,Assistant Director General Medical Service
2. Mrs. Shurooq Al Ruqaishi- Special Nurse ,Immediate critical care supervisor, leader of Quality Nursing Task Group
3. Mrs. Malika Al-Hinai, Senior Nurse, Supervisor of Maternity Department
4. Mrs. Maryam Al Shammakhi, Sr. General Nurse A. ED Clinical Coordinator, In - charge of Nursing Document Control
5. Mrs. Huda Alabri, Special Nurse, Head of Service Impartments Department.
6. Mrs. .Khaloud Al-Zadjali ,Sr General Nurse A, Directorate Of Quality Management &Patient Safety
7. Mrs. Huda Al-Harathi , Head of Patient Safety and Risk Management

Contents Table:

Acronyms	4
Definitions	5
Introduction:	6
Scope	6
Purpose	6
Guideline	7
Responsibilities	9
Document History and Version Control	10
Appendix1: The Investigation should be done for Female	11
Appendix2: The Investigation should be done for Male	12

Acronyms:

AFC	Antral follicle count
AMH	Anti-mullerian hormone
ART	Assisted Reproductive Technology
DM	Diabetes mellitus
FSH	Follicle-stimulating hormone
HTN	Hypertension
IUI	Intrauterine insemination
IVF	In-vitro fertilization

1. Definitions:

1. **Infertility** is failure to conceive after one year (or longer) of unprotected coitus.
2. **IVF (In-vitro Fertilization):** is the fertilization of an ovum outside the body in a laboratory, the fertilised egg called embryo is then returned to the woman's uterus to grow and develop.
3. **IUI – (Intrauterine Insemination):** Intrauterine Insemination involves the instillation of processed sperm, into the woman's uterus close to fallopian tubes via the cervix using a fine cannula in order to increase the chances of conceiving.
4. **Azoospermia** is the complete absence of spermatozoa in the ejaculate
5. **Oligoasthenozoospermia:** Sperm concentration <16 million /ml of ejaculate and /or Total motility <42%
6. **Severe Oligozoospermia** Sperm concentration < 5 million/ml of ejaculate

Guideline for Patient's Eligibility Criteria for IVF Treatment in Governmental Fertility IVF Center

Chapter One:

2. Introduction:

Assisted Reproductive Technology (ART) encompasses all techniques that attempt to obtain a pregnancy by manipulating the sperm and/or oocyte outside the body and transferring the gamete or embryo into the uterus or cryopreservation of the gametes /embryos. A governmental IVF center is being started at Khoula Hospital to provide IVF and gamete cryopreservation services to couples and patients.

3. Purpose:

The purpose for this guideline to:

- 3.1 Develop eligibility criteria for inclusion in the IVF program /cryopreservation of gametes.
- 3.2 Offer services only to couples/patients who require treatment.
- 3.3 Utilizing the governmental resources effectively and targeting the most beneficial population

4. Scope:

This guideline applies to all Doctors and referral units in The Sultanate, who intend to refer couples to the governmental IVF center at DGKH

Chapter 2:

5. Guideline:

This guideline for Directorate General of Khoula Hospital to ensure that all referrals will be accepted in the IVF centers from the following healthcare institutes:

- 5.1 Obstetrics and Gynecology Departments in government secondary and tertiary hospitals
- 5.2 Combined Endocrine Reproductive Clinic (Wattayah Polyclinic and Royal Hospital)
- 5.3 Urology clinics treating male infertility.
- 5.4 Endocrinology clinics treating female/male infertility.

5.5 Oncology units – for gamete/embryo cryopreservation

5.6 Indications for referral to IVF clinic:

5.6.1 Failure of conventional fertility treatment with controlled ovarian stimulation and IUI after:

- a. 3 IUI cycles when female age >35 years
- b. 6 IUI cycles – when female age <35 years)
- c. Bilateral tubal blockage

5.6.2. Male factor for example (Azoospermia, severe oligozoospermia, oligo asthenozoospermia, etc...)

5.7 Eligibility criteria for IVF treatment:

5.7.1 Female Age - less or equal to 42 years (on the day of registration in the IVF clinic)

- a. BMI less than 35
- b. No healthy living child from the ongoing marriage
- c. Controlled medical disorders if any (e.g., Diabetes mellitus, Hypertension)
- d. No contraindications for fertility treatment or pregnancy (e.g., some cardiac disorders)

5.7.2 Expectation criteria:

- a. Female Age** between 43y to 44y
 - i. All the above criteria
 - ii. Only if normal ovarian reserve (AMH, FSH, AFC)
 - iii. After evaluation by IVF consultants

5.7.3 Females aged above 44 years will not be accepted for any fertility treatment in the governmental fertility /IVF center due to success rate.

5.7.4 Prior appointment the following investigation should be done within 6 months
(See **appendix 1, 2**)

5.8. Referral for Fertility preservation:

5.8.1 after evaluation by IVF consultant taking in consideration the above criteria for the female patient.

5.9 Eligibility criteria for Fertility preservation treatment:

5.9.1 Clear risk on future fertility from suggested treatment by the treating specialist.

5.9.2 Married females or males (no healthy living child from the ongoing marriage).

5.9.3 Unmarried females or male (no healthy living child from previous marriages).

5.9.4 No contraindications for fertility treatment and eventual pregnancy by ongoing medical condition

5.10 No fertility preservation for other medical indication such as unmarried female above 35 years in governmental fertility IVF center.

5.11 All patients (females or males) will be re-evaluated by the IVF consultants prior to starting the IVF treatment.

6. Responsibility:

6.1 Hospital Directors and Heads of clinics shall:

6.1.1 Circulate the guideline to all healthcare professionals (Doctors / Nurses / Paramedics)

6.1.2 Ensure that all healthcare professionals are completely aware and understand the guideline.

6.2 Healthcare Professionals shall:

6.2.1 Know and understand the guideline.

6.2.2. Follow the guideline strictly.

6.2.3 Contact the IVF central at Directorate General Khoula Hospital for advice if any issue needs to be clarified.

7. Document history and version control table:

Version	Description	Review Date
1	Initial release	2026

Appendix1: The Investigation should be done for Female

Investigation	Value	Date
CBC	HB: PLT:	
ABO+RH group		
TSH		
Free T4		
HBAIC		
SEROLOGY (HIV,HepB,HepC,Syphilis)		
SICKLING		
PROLACTIN(cycle day 2-5)		
FSH (cycle day 2-5)		
LH(cycle day 2-5)		
RFT		
Coagulation Profile		
PAP SMEAR(if not taken in last 3 years)		
AMH(after d/w consult)		
Others		
ECG (if >40 years)		

Appendix2: The Investigation should be done for Male:

Investigation	Value	Date
Semen Analysis		
SEROLOGY (HIV,HepB,HepC,Syphilis)		
Others		
ECG (if >40 years)		