

Awareness of egg freezing in Saudi Arabia

Submission date 12/04/2024	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 17/04/2024	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 24/03/2025	Condition category Pregnancy and Childbirth	<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Background and study aims

The number of women who desire fertility at an advanced age is increasing; however, the fertility rate among women has declined over the last two decades. Various assisted reproductive technologies have emerged globally in medical care to assist women of advanced maternal age seeking pregnancy. Oocyte cryopreservation enables women to freeze their eggs at an earlier age for potential future use. This study aims to collect the perspectives of women living in Riyadh, Saudi Arabia regarding egg freezing.

Who can participate?

Women aged 18–47 years who had their eggs frozen at the center between 01/01/2019 and 01/08/2022 for social and medical reasons

What does the study involve?

A self-administered questionnaire was distributed to 100 women attending a private clinic at the Thuriyah Medical Centre in Riyadh, Saudi Arabia, who underwent oocyte cryopreservation for various reasons. Semi-structured interviews were conducted face-to-face or via teleconference among 15 women who expressed interest in participating in the recorded interviews, which lasted between 11 and 25 minutes.

What are the possible benefits and risks of participating?

Not provided at time of registration

Where is the study run from?

Thuraih (Saudi Arabia)

When is the study starting and how long is it expected to run for?

January 2019 to June 2023

Who is funding the study?

King Fahad Medical City (Saudi Arabia)

Who is the main contact?

Dr Fatimah Alzahrani, Dr.fatimah2013@gmail.com

Contact information

Type(s)

Principal Investigator

Contact name

Dr Fatimah Alzahrani

ORCID ID

<https://orcid.org/0009-0009-4107-9927>

Contact details

Riyadh, KSA

Riyadh

Saudi Arabia

-

+966 (0)531263571

dr.fatimah2013@gmail.com

Type(s)

Public, Scientific, Principal Investigator

Contact name

Dr Dania Aljaroudi

Contact details

Riyadh, KSA

Riyadh

Saudi Arabia

-

+966 (0)504435931

daljaroudi@kfmc.med.sa

Additional identifiers

EudraCT/CTIS number

Nil known

IRAS number

ClinicalTrials.gov number

Nil known

Secondary identifying numbers

Nil known

Study information

Scientific Title

Knowledge and attitudes of women toward oocyte freezing at a private medical center in Saudi Arabia: a mixed-methods study

Study objectives

What are the perspectives of women living in Riyadh, Saudi Arabia regarding egg freezing?

Ethics approval required

Ethics approval required

Ethics approval(s)

Approved 02/11/2022, King Fahad Medical City (Riyadh, SA, Riyadh, 11525, Saudi Arabia; +966 (0) 112889999; hsakkijha@kfmc.med.sa), ref: FWA00018774

Study design

Mixed-methods study

Primary study design

Observational

Secondary study design

Mixed methods study

Study setting(s)

Community, Hospital, Internet/virtual

Study type(s)

Other, Quality of life

Participant information sheet

Not available in web format, please use the contact details to request a participant information sheet

Health condition(s) or problem(s) studied

Oocyte freezing

Interventions

This sequentially designed mixed-methods study was conducted at the Al Thuriah Medical Center in Riyadh, Saudi Arabia. The women included in this study were aged 18–47 years and had their oocytes frozen at the center between 01/01/2019 and 01/08/2022 for social and medical reasons. The participants were recruited from 01/12/2022 to 29/06/2023. Patients were contacted using their phone numbers from documents and records to obtain their permission to participate in the study. To acquire insight into the various viewpoints, deliberate sampling was performed to include participants with the greatest variance in age, location, social position, and number of cryopreserved oocytes. The primary researcher contacted the women in person, by phone, or using WhatsApp to determine their interest in the study. Women who refused to participate in the study due to time constraints, emotional issues, religious beliefs, or lack of interest or response, were excluded. Of the 15 women who participated, 10 were approached face-to-face in various locations, four were interviewed in the hospital, and one was interviewed at a coffee shop. Ethical approval for this study was obtained from the Thuriah Institutional Review Board and King Fahad Medical City before the commencement of the study (Protocol No. 22-256E). Each participant was provided information regarding the study, and informed

written consent was obtained from all participants. Confidentiality of patient information was maintained.

Quantitative data processing:

The Freezing Oocyte Questionnaire was initially developed in English and later translated into Arabic. The questionnaire, comprising six questions, was constructed based on previously published research and was translated into Arabic before distribution (Lallemant et al., 2016). The first part recorded the demographic information of the participants, such as age, nationality, area of residence, occupation, and social status. The second part included six multiple-choice questions to assess their knowledge about freezing oocytes, such as indications for egg freezing, techniques used, and potential complications. Parts three, four, and five recorded the medical, social, and ethical reasons associated with egg freezing, respectively. The final section included direct questions about oocyte freezing and its future applications. A univariate analysis was performed to provide an overview of the findings. Data were analyzed using the Statistical Package for Social Sciences (SPSS) software version 21 for Windows (IBM Corp., Armonk, NY, USA).

Qualitative data processing:

Semi-structured interviews were conducted face-to-face or via teleconferencing. The interviews lasted between 11 and 25 min each. The data obtained were analyzed using thematic analysis, which was performed in phases. The first stage of data familiarization involved the transcription of data and the writing of notes on early concepts. In the second stage, the initial codes were produced by employing open codes for important traits across the dataset. The third stage involved creating themes by categorizing the codes into groups based on similarities in meaning. Overarching patterns were also observed. The co-investigators evaluated, reviewed, and refined the themes during the fourth phase.

Intervention Type

Other

Primary outcome measure

1. Patient satisfaction with oocyte freezing measured using the Freezing Oocyte Questionnaire at a single timepoint
2. Patient satisfaction with oocyte freezing measured using patient interviews at a single timepoint

Secondary outcome measures

There are no secondary outcome measures

Overall study start date

01/01/2019

Completion date

29/06/2023

Eligibility

Key inclusion criteria

1. Women aged 18–47 years
2. Had their oocytes frozen at the center between 01/01/2019 and 01/08/2022 for social and medical reasons

Participant type(s)

Patient

Age group

Mixed

Lower age limit

18 Years

Upper age limit

47 Years

Sex

Female

Target number of participants

100

Total final enrolment

100

Key exclusion criteria

Women who refused to participate in the study due to time constraints, emotional issues, religious beliefs, or lack of interest or response

Date of first enrolment

01/12/2022

Date of final enrolment

29/06/2023

Locations**Countries of recruitment**

Saudi Arabia

Study participating centre

Thuriah

Mecca Road

Riyadh

Saudi Arabia

-

Sponsor information

Organisation

Thuriah

Sponsor details

Mecca Road

Riyadh

Saudi Arabia

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+966 (0)11 407 9999

salshehri@thuriah.com.sa

Sponsor type

Hospital/treatment centre

Website

<http://thuriah.com/>

Funder(s)**Funder type**

Government

Funder Name

King Fahad Medical City

Alternative Name(s)

King Fahad Medical City Research Center, KFMC

Funding Body Type

Government organisation

Funding Body Subtype

National government

Location

Saudi Arabia

Results and Publications**Publication and dissemination plan**

Planned publication in a high-impact peer-reviewed journal

Intention to publish date

29/06/2024

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study will be available upon request from Dr Fatimah Alzahrani (Dr.fatimah2013@gmail.com)

IPD sharing plan summary

Available on request

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article		22/03/2025	24/03/2025	Yes	No