

# Comparison of two surgical techniques (Grisotti vs Wise pattern) for breast-conserving surgery in central breast cancer

<b>Submission date</b> 20/05/2025	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
<b>Registration date</b> 28/05/2025	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 28/05/2025	<b>Condition category</b> Cancer	<input type="checkbox"/> Individual participant data <input checked="" type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

This study looks at two different types of breast-conserving surgery used to treat women with breast cancer located near the nipple. These techniques aim to remove the cancer while preserving the appearance of the breast. The study compares the outcomes of the Grisotti technique and the Wise pattern technique to find out which provides better cancer clearance and cosmetic results.

### Who can participate?

Women aged 35 to 75 years with centrally located, early-stage breast cancer who are suitable for breast-conserving surgery and have not had previous breast surgery or radiotherapy.

### What does the study involve?

Participants were randomly assigned to receive either the Grisotti technique or the Wise pattern surgery. The results were assessed by examining whether the cancer was fully removed, if there were any complications, and how patients and surgeons rated the appearance of the breast after surgery.

### What are the possible benefits and risks of participating?

All patients received standard breast cancer treatment. There may be improved understanding of which technique leads to better outcomes. Risks include standard surgical complications such as infection, seroma, or wound issues.

### Where is the study run from?

Kasr Al-Ainy Teaching Hospital, Faculty of Medicine, Cairo University (Egypt)

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

March 2023 to November 2024

### Who is funding the study?

Investigator initiated and funded

Who is the main contact?

Dr Ahmed Shafik Jr, ahmed.shafik@ngu.edu.eg, shafikahmed@me.com

## Contact information

### Type(s)

Public, Scientific, Principal Investigator

### Contact name

Dr Ahmed Shafik

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## Additional identifiers

### EudraCT/CTIS number

Nil known

### IRAS number

### ClinicalTrials.gov number

Nil known

### Secondary identifying numbers

Cairo University REC Approval Code: MD-266-2023

## Study information

### Scientific Title

Comparative outcomes of the Grisotti technique and its modifications in breast-conserving surgery: aesthetic and oncological implications

### Acronym

COG-Wise

### Study objectives

The Wise pattern technique provides superior aesthetic outcomes compared to the Grisotti technique in centrally located breast cancer, without compromising oncological safety.

**Ethics approval required**

Ethics approval required

**Ethics approval(s)**

Approved 10/09/2023, Research Ethics Committee, Faculty of Medicine, Cairo University (Kasr Al Ainy Street, Cairo, 11562, Egypt; +20 (0)223651351; dean@kasralainy.edu.eg), ref: MD-266-2023

**Study design**

Prospective single-center randomized controlled trial

**Primary study design**

Interventional

**Secondary study design**

Randomised controlled trial

**Study setting(s)**

Hospital

**Study type(s)**

Quality of life, Treatment

**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**

Centrally located breast cancer (early-stage, operable)

**Interventions**

Participants were randomised in a 1:1 ratio using sealed opaque envelopes. The randomisation process was managed by a person independent of patient enrollment, surgical procedures, and outcome assessments.

Patients were randomly allocated to undergo one of two breast-conserving surgical techniques:

1. Grisotti flap technique
2. Wise pattern therapeutic reduction

Both procedures aimed to achieve clear oncological margins with acceptable aesthetic outcomes. Both patient- and surgeon-reported outcomes were assessed over a 12-month follow-up.

**Intervention Type**

Procedure/Surgery

**Primary outcome measure**

Margin status (tumor-free vs involved), assessed by pathology examination immediately post-surgery

**Secondary outcome measures**

1. Patient satisfaction measured using a 5-point Likert scale questionnaire at 3 and 12 months postoperatively
2. Surgeon-assessed aesthetic outcomes using a visual analog scale (VAS, 0–10) at 12 months postoperatively
3. Postoperative complications (seroma, infection, wound dehiscence) recorded clinically within 30 postoperative days
4. Tumor size and distance from the nipple-areola complex as documented in the pathology report at surgery

**Overall study start date**

15/03/2023

**Completion date**

15/11/2024

## Eligibility

**Key inclusion criteria**

1. Female patients aged 35–75 years
2. Histologically confirmed centrally located breast cancer (T1–T2)
3. Tumor located within 2 cm of the nipple-areola complex
4. Suitable for breast-conserving surgery
5. Provided written informed consent

**Participant type(s)**

Patient

**Age group**

Adult

**Lower age limit**

35 Years

**Upper age limit**

75 Years

**Sex**

Female

**Target number of participants**

40

**Total final enrolment**

40

**Key exclusion criteria**

1. Non-central tumors (outside central quadrant)
2. Inflammatory breast cancer (T4d)
3. Metastatic disease
4. Multicentric tumors

- 5. Breast size smaller than cup size C
- 6. Prior breast surgery or irradiation

**Date of first enrolment**

15/10/2023

**Date of final enrolment**

15/09/2024

## Locations

**Countries of recruitment**

Egypt

**Study participating centre**

**Kasr Al-Ainy Teaching Hospital**

Faculty of Medicine

Cairo University

Kasr Al-Ainy Street

Cairo

Egypt

11562

## Sponsor information

**Organisation**

Cairo University

**Sponsor details**

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**Sponsor type**

University/education

**Website**

<http://med.cu.edu.eg/>

**ROR**

<https://ror.org/03q21mh05>

# Funder(s)

Funder type  
Other

Funder Name  
Investigator initiated and funded

## Results and Publications

Publication and dissemination plan  
The results of this study will be submitted for peer-reviewed publication in an international surgical journal. Findings may also be presented at academic conferences focused on breast cancer surgery and oncoplastic techniques.

Intention to publish date  
17/05/2025

Individual participant data (IPD) sharing plan  
The datasets generated and/or analysed during the current study will be available upon reasonable request from the corresponding author Dr Ahmed Shafik Jr (ahmed.shafik@ngu.edu.eg, shafikahmed@me.com). Data shared will be de-identified and limited to variables relevant to the reported outcomes.

Only aggregate data will be published in the manuscript. Individual-level data (e.g., patient satisfaction scores, surgeon ratings, complications) may be shared in an anonymized format upon request and subject to ethics approval.

Consent was obtained from participants for the use of their data in research, but not for open publication of raw data. Therefore, data will not be posted in a public repository but may be shared for academic collaboration, following institutional data-sharing protocols.

The data will be available from the time of publication and for up to 5 years. Requests will be considered on a case-by-case basis and must include a short data use proposal. No personally identifiable information will be released.

IPD sharing plan summary  
Available on request

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Protocol file</a>			28/05/2025	No	No