



RELIANCE BREAST CANCER



is an acronym for the study:

REaL-life cANCER epidemiology to identify risk factors for
Breast Cancer with particular focus on prevention and care

PRESENTED BY

Mariana Barragan De La Cruz,
Mounir Talbi

Collaborations:

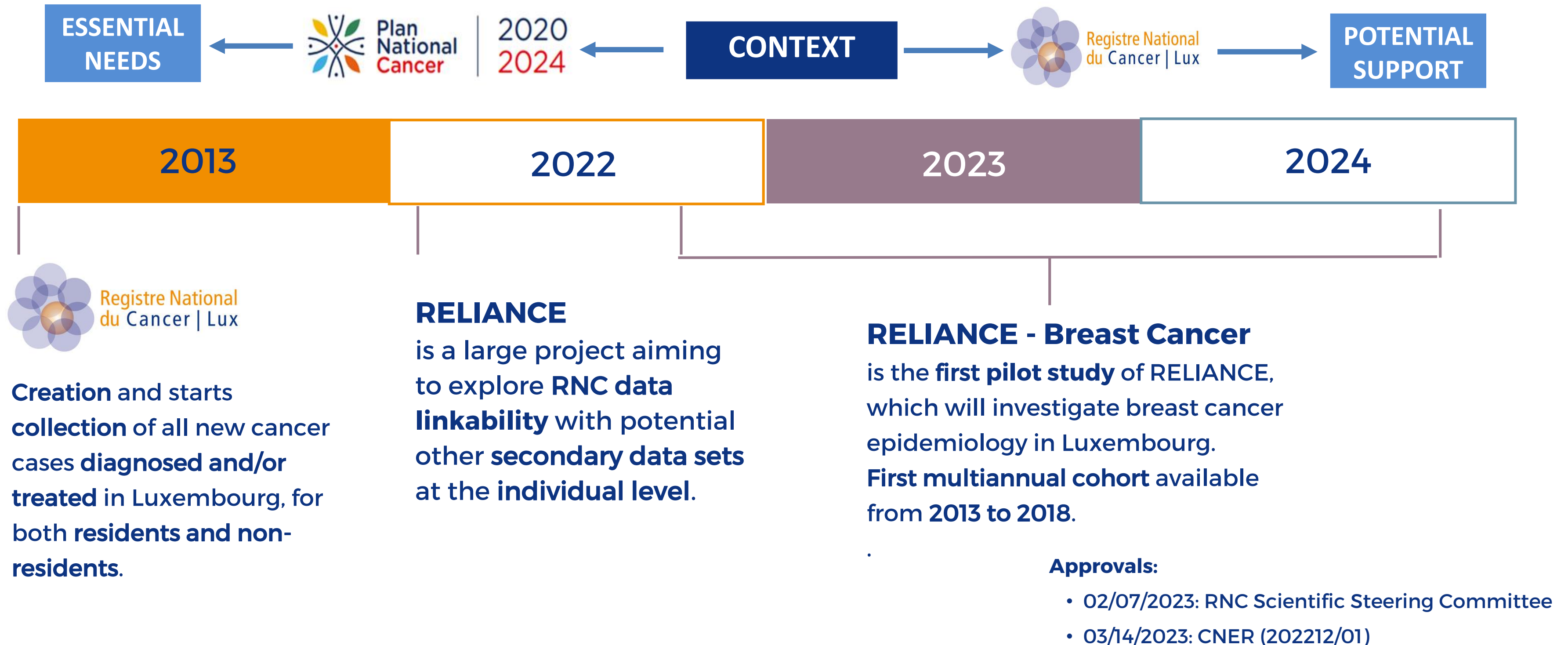


Funded by:



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère de la Santé

BACKGROUND



PRELIMINARY RESULTS



3.400 cases
3.283 individuals

diagnosed or treated with breast cancer in Luxembourg between 2013-2018.



SEX

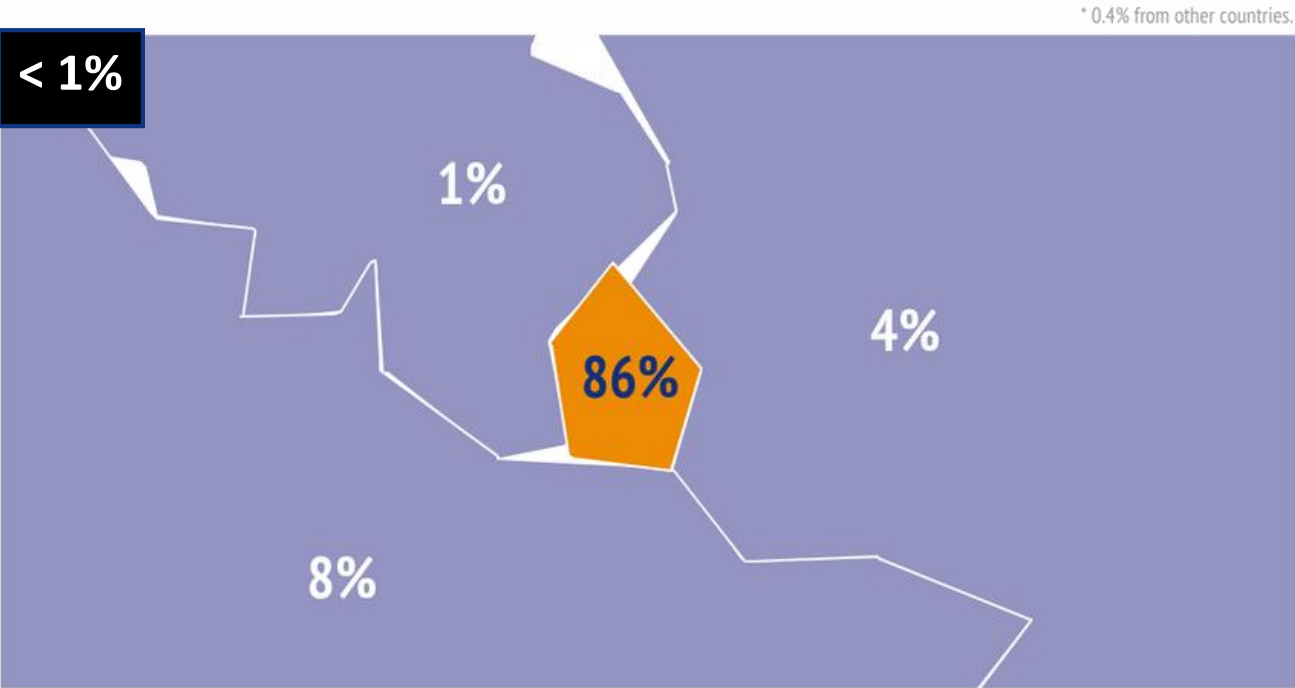
The vast majority of cases were **female**, with males comprising a small minority.

MEAN AGE
60 years

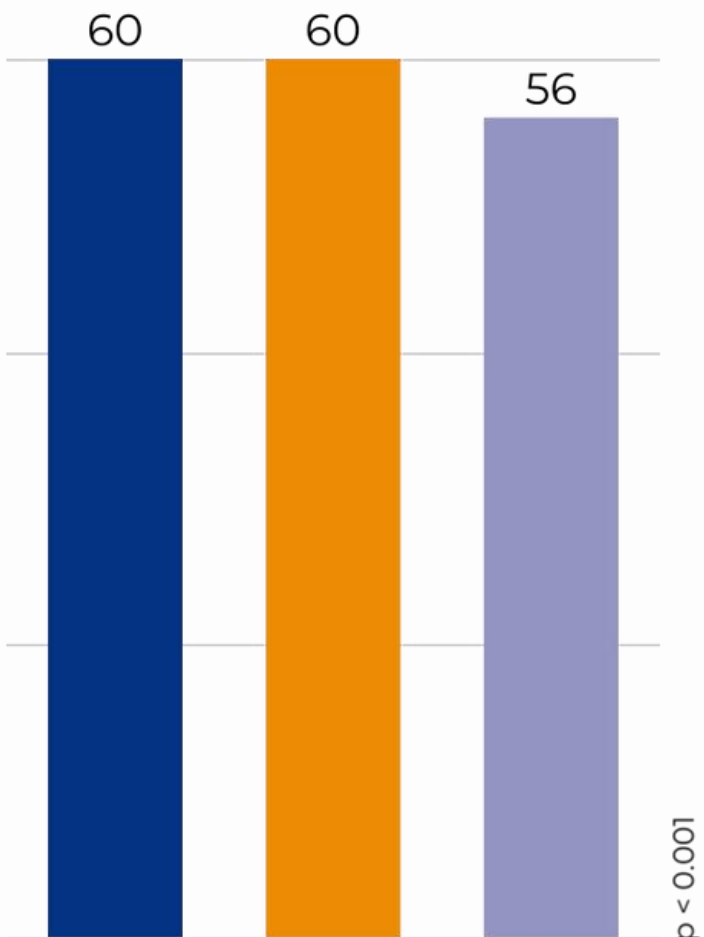
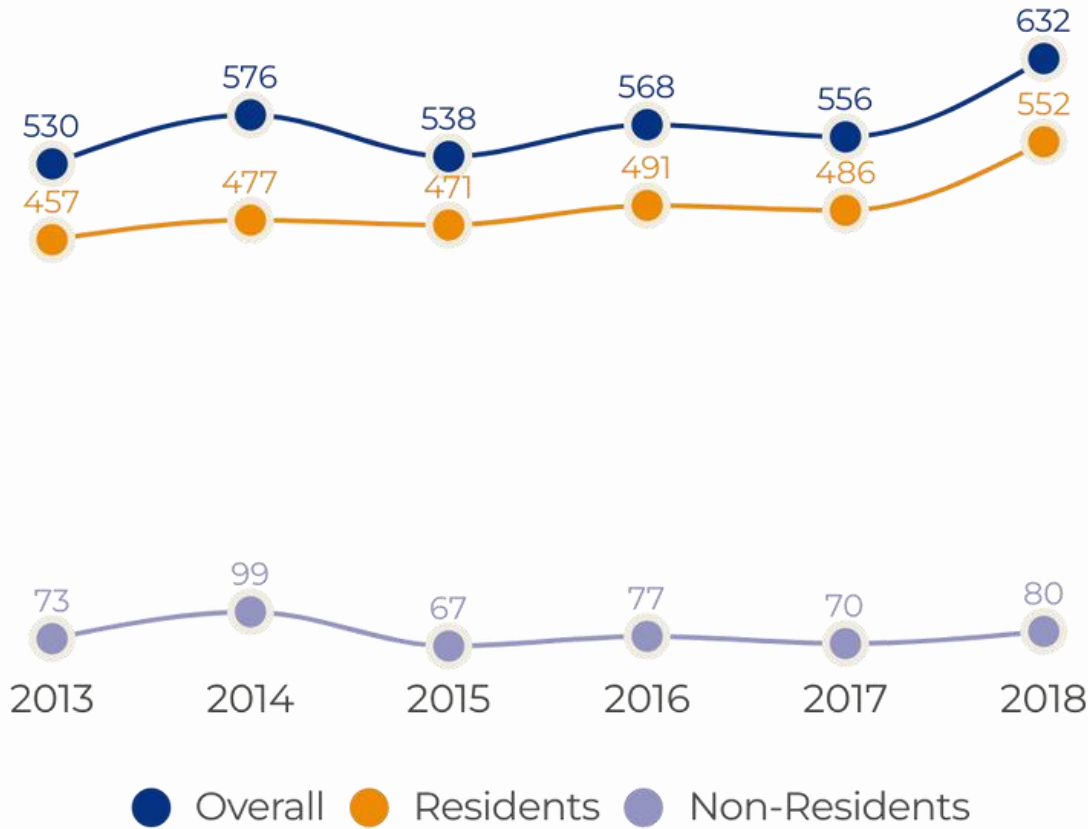
The average age at diagnosis for all cases was 60 years, with a standard deviation of 14 years.

RESIDENTS

The majority of cases were living in Luxembourg at the moment of the diagnosis.



CASES PER YEAR



p < 0.001

Return to work

2/3 patients in
working age range

Scoping Review
Qualitative data

**Physical, Mental & Social side effects
experienced by breast cancer survivors
after treatment.**

Mental & Emotional side effects

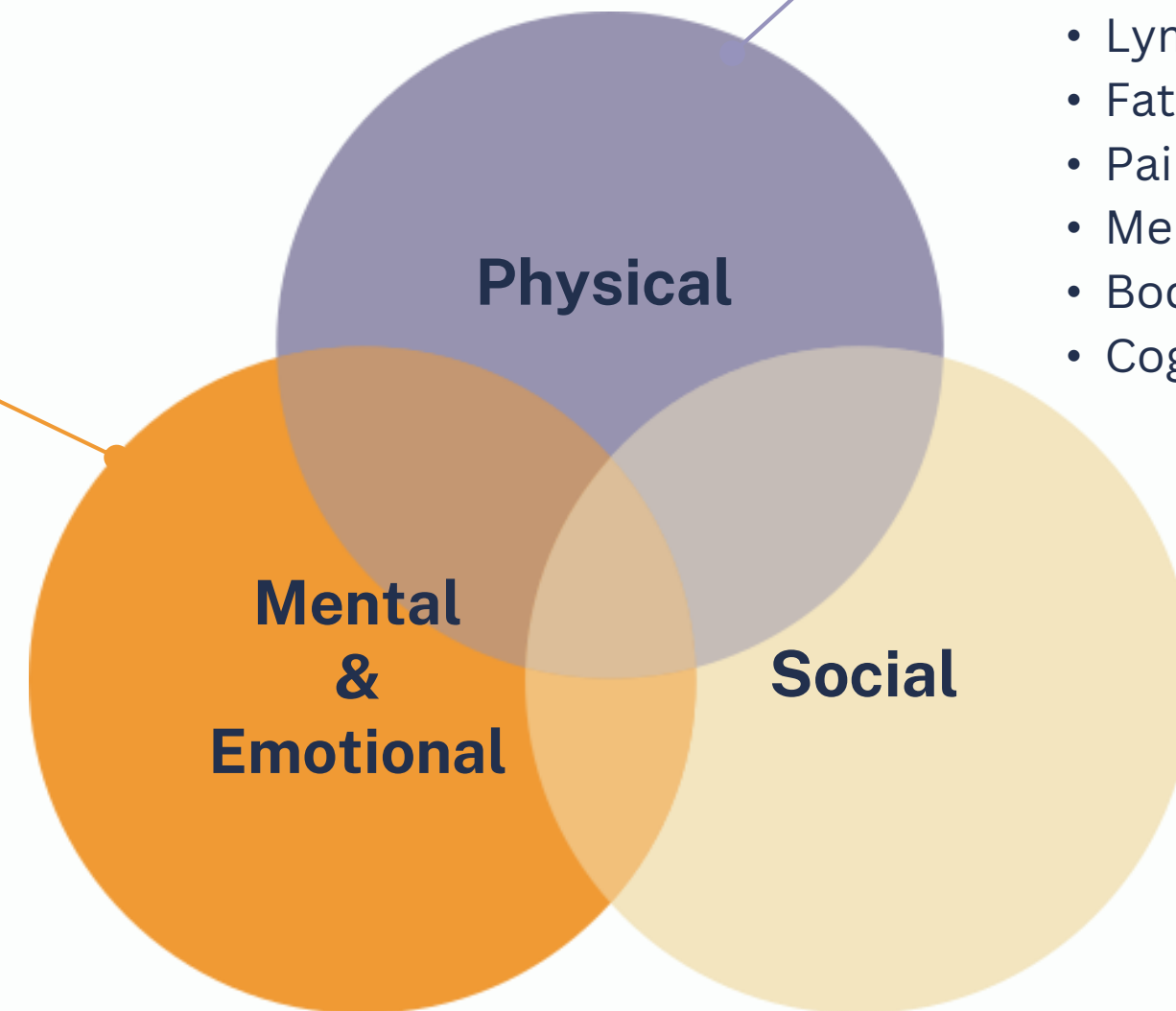
- Anxiety and Depression
- Post-Traumatic Stress Disorder
- Fear of Recurrence
- Body Image and Self-Esteem Issues
- Relationship Strain

Physical side effects

- Surgical Scars
- Lymphedema
- Fatigue
- Pain
- Menopausal Symptoms
- Body Image Changes
- Cognitive Changes

Social side effects

- Social Isolation
- Financial Strain
- **Workplace Challenges**



**Discrimination
Bias
Lack of support**

RELIANCE

Pilot study: PROSPECTIVE data collection to understand the return to work after a breast cancer

AIM:

To evaluate associated risk factors for breast cancer and the barriers and facilitators to return to work after diagnosis.

COLLABORATIONS



Occupational health

Initially the STM had **452 potential participants** to be invited to the RELIANCE - Breast Cancer study



Cancer Registry

Cohort of breast cancer cases from 2013 to 2018.

STEP TWO

Documents of the study



COMPOSITION OF THE QUESTIONNAIRE

1. Sociodemographic information
2. Behavioral measures related to lifestyle
3. Anthropometric measurements
4. Employment information
5. The Work Ability Index before and after breast cancer diagnosis; and
6. Long-term side effects



Invitation letter



Information
document of
the study



Data protection
Notice



Informed consent
form

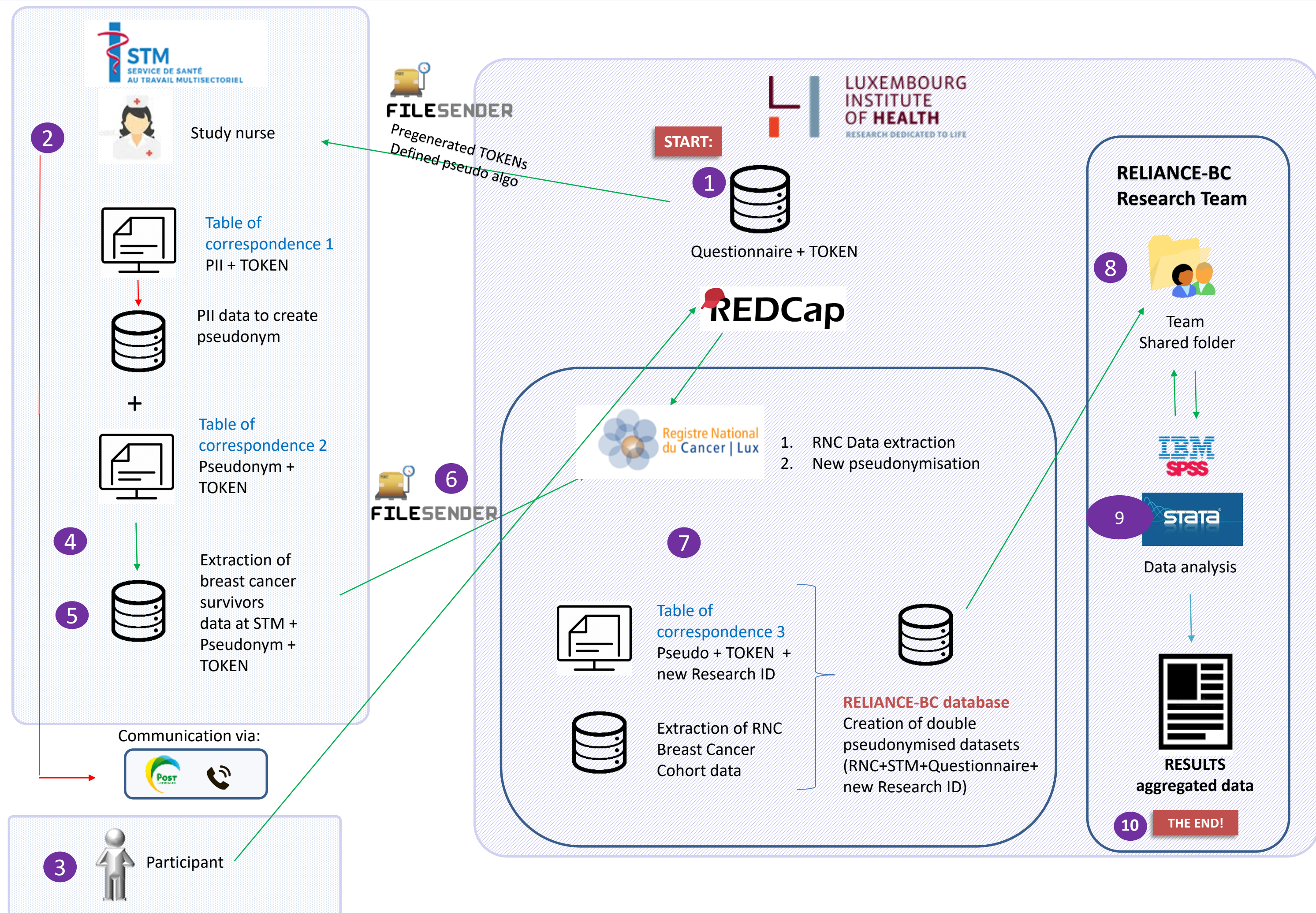


Questionnaire

4 LANGUAGES:

English, French, German and Portuguese.

-  Direct identifying data
 Pseudonymised data
 Aggregated data



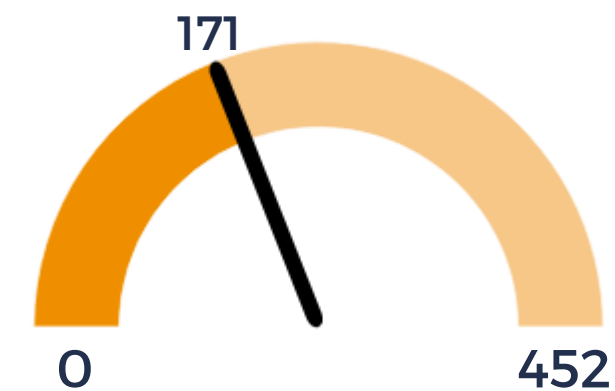
RECRUITMENT & LINKAGE



Invitation letter + QR code

RECRUITMENT

LINKAGE



38% response rate



Registre National
du Cancer | Lux



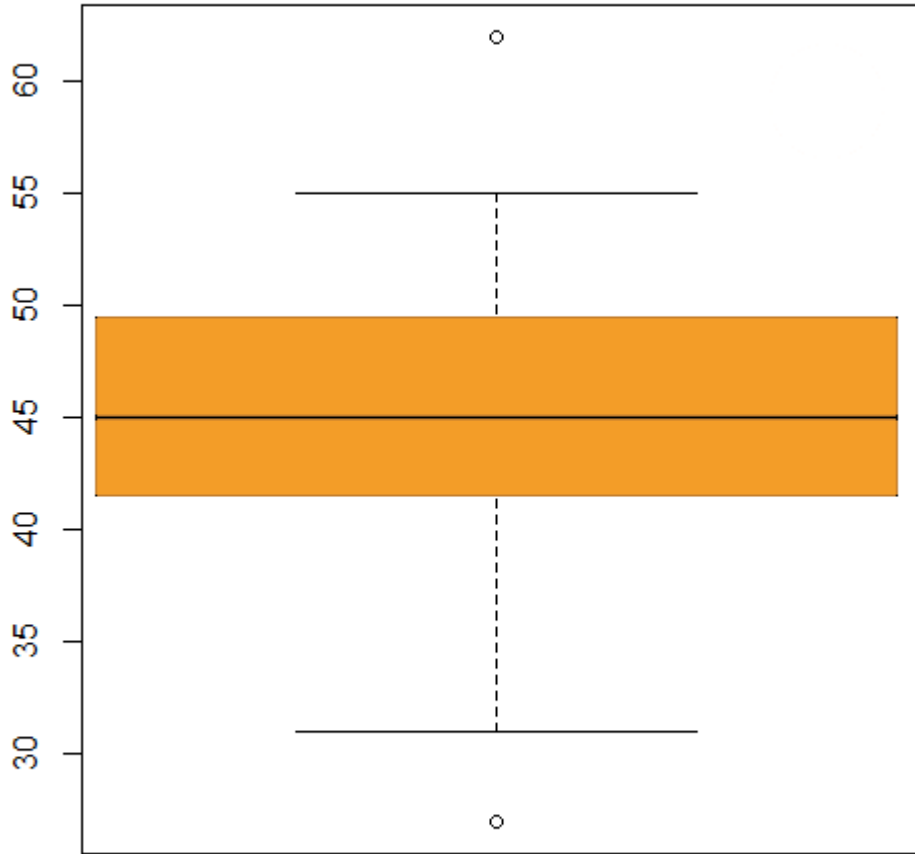
Questionnaire

PARTICIPANT FEATURES

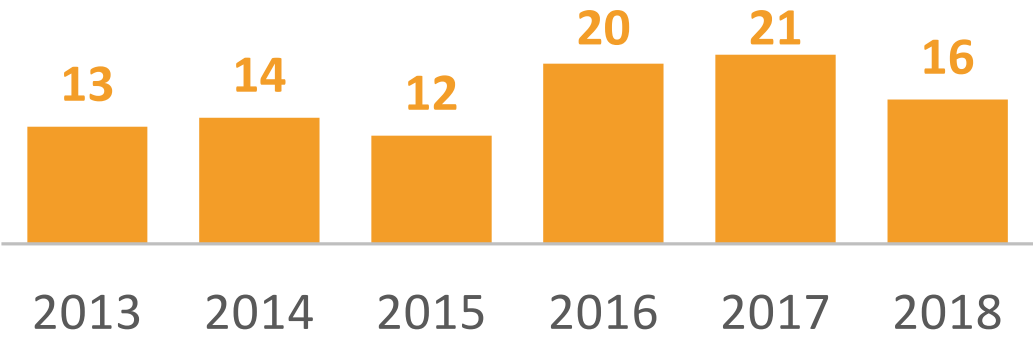
CLINICAL DATA

96 women

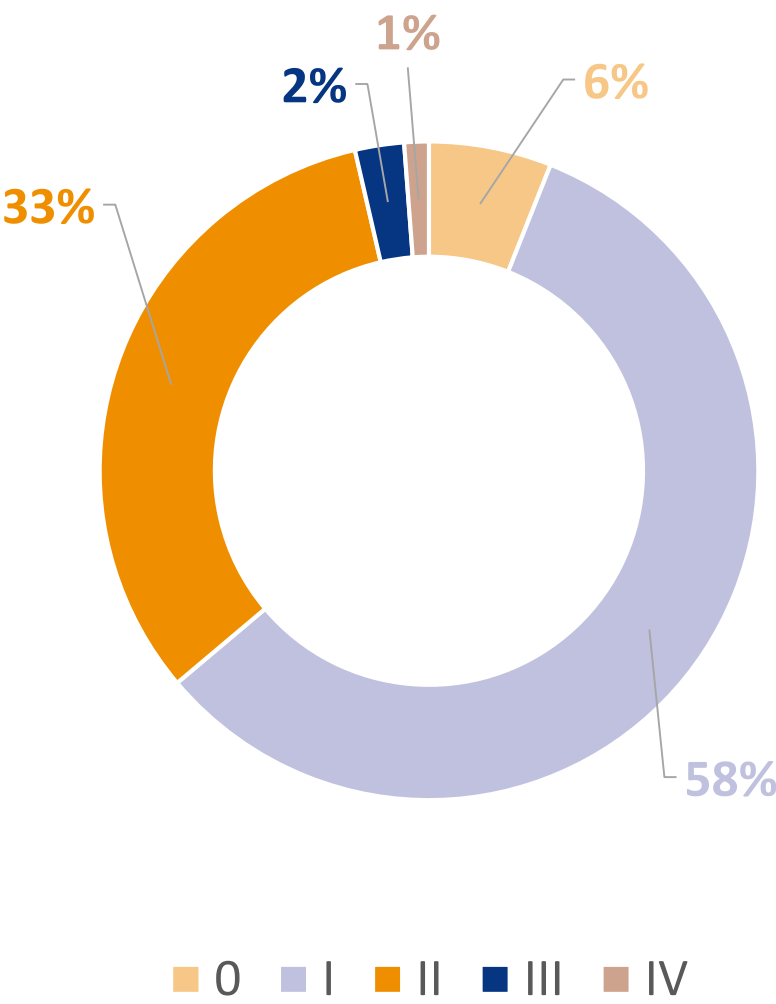
AGE AT DIAGNOSIS



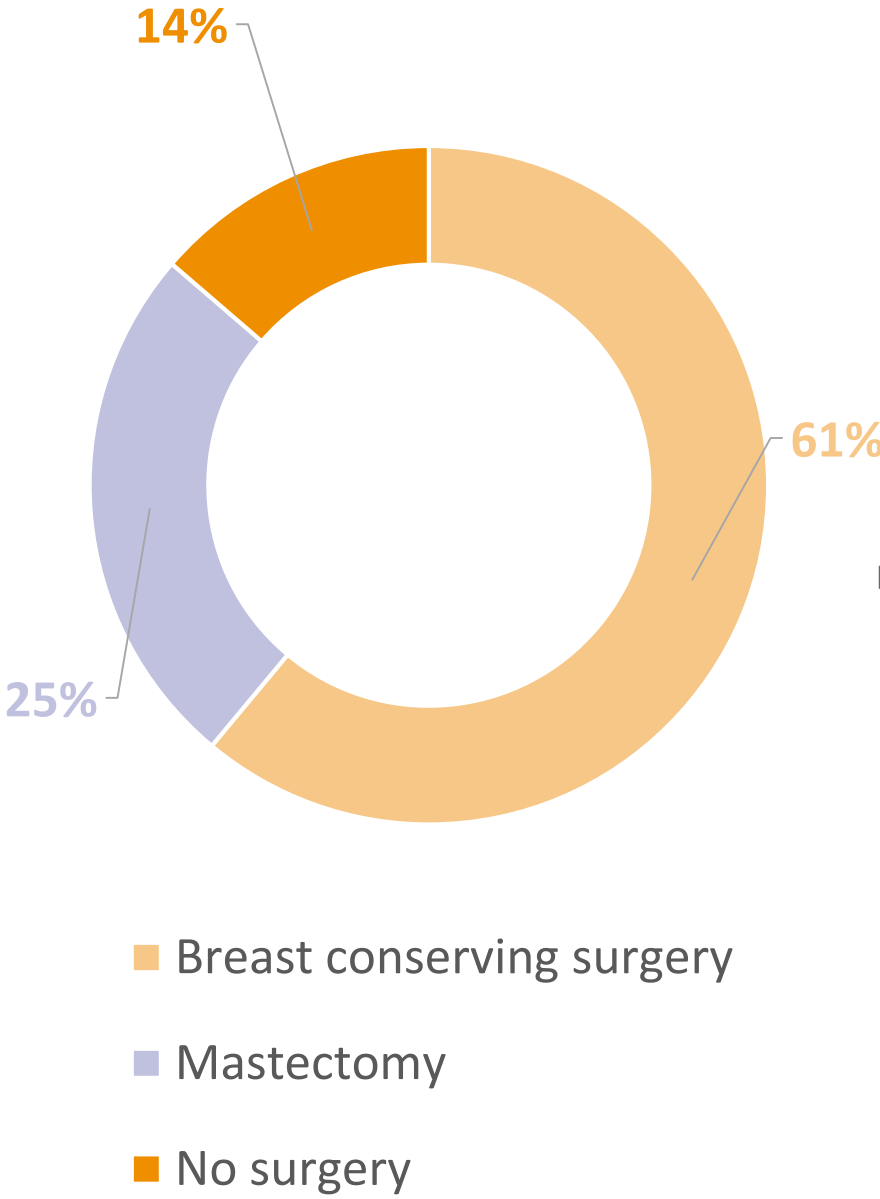
YEAR OF DIAGNOSIS



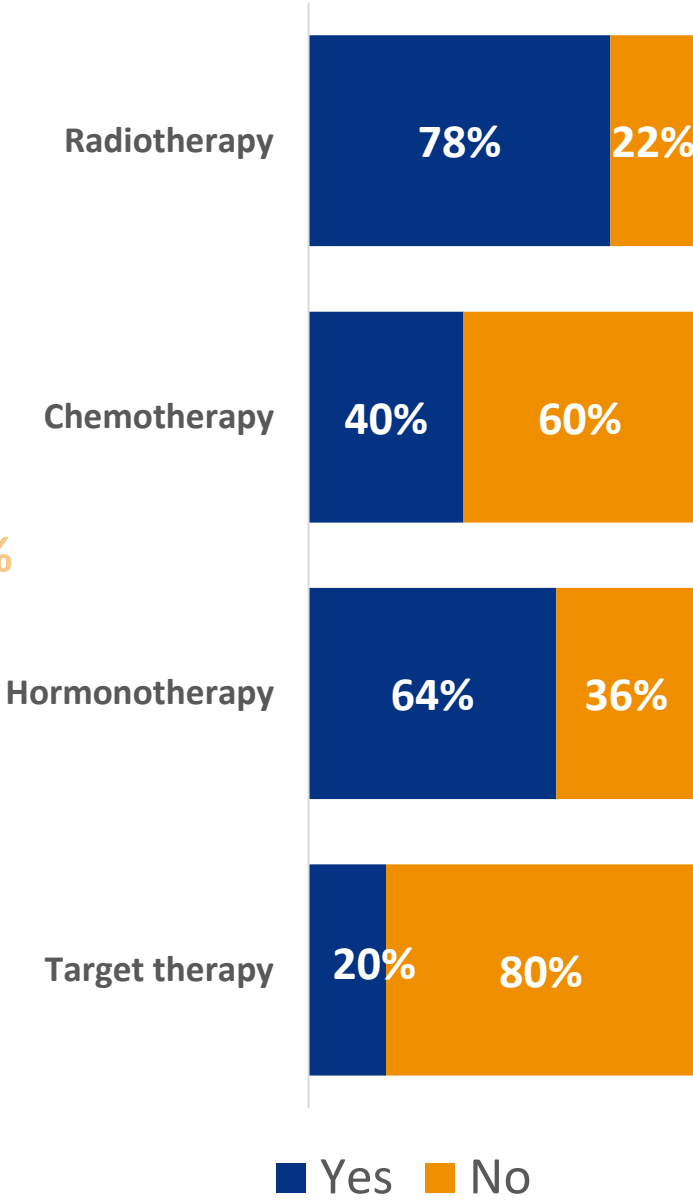
CLINICAL STAGE



TYPE OF SURGERY



TREATMENT

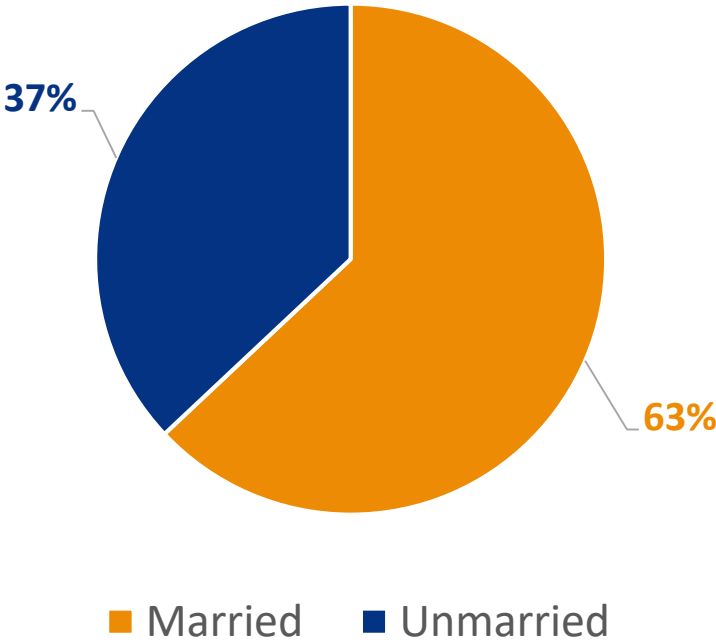


PARTICIPANT FEATURES

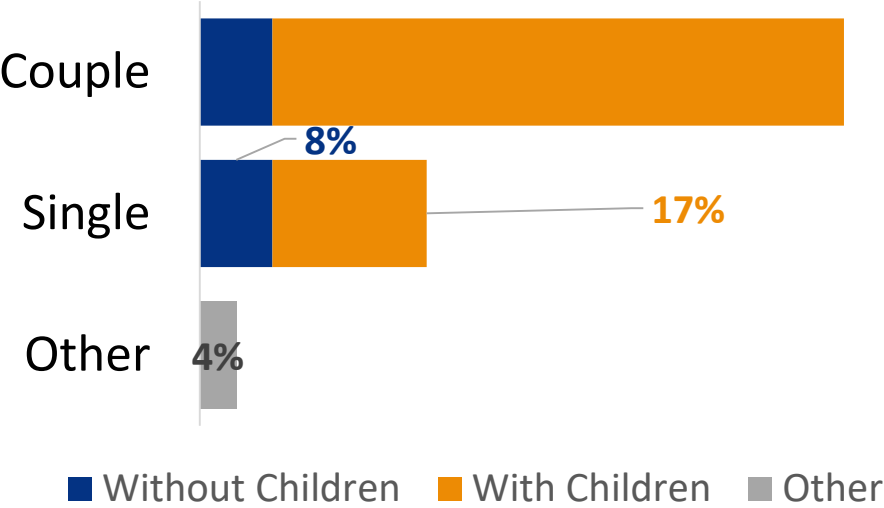
SOCIO-DEMOGRAPHIC DATA

96 women

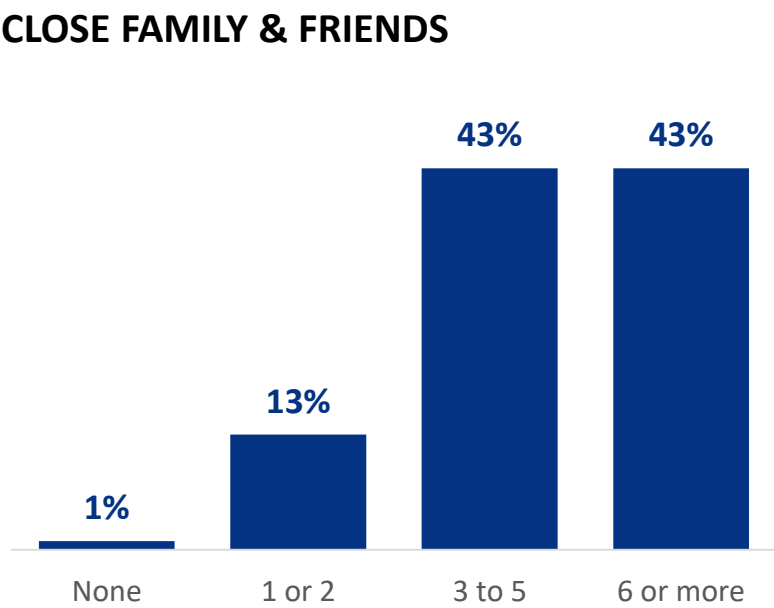
MARITAL STATUS



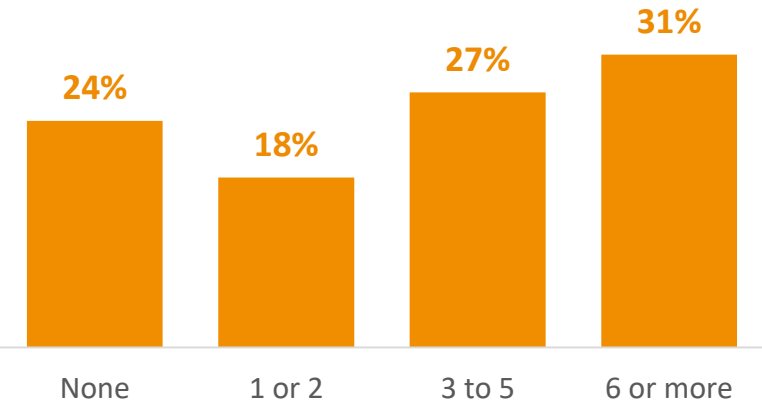
HOUSEHOLD



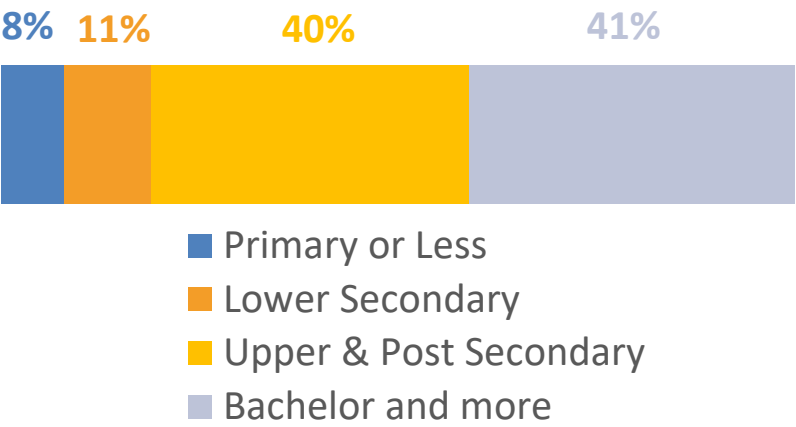
SOCIAL SUPPORT COUNT



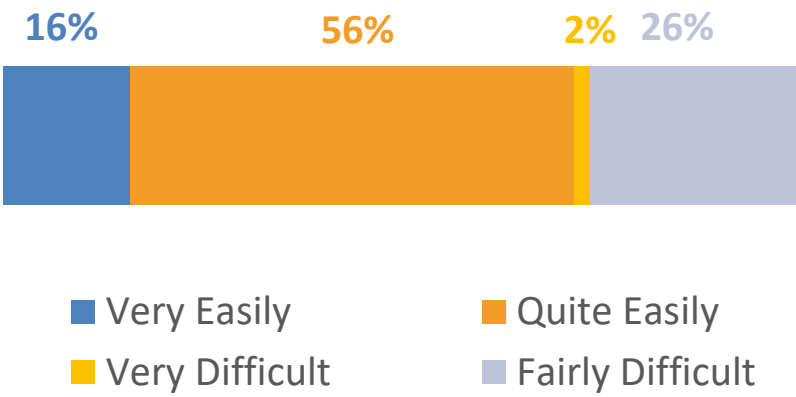
COLLEAGUES



EDUCATION LEVEL



INCOME SUFFICIENCY : SELF-PERCEPTION

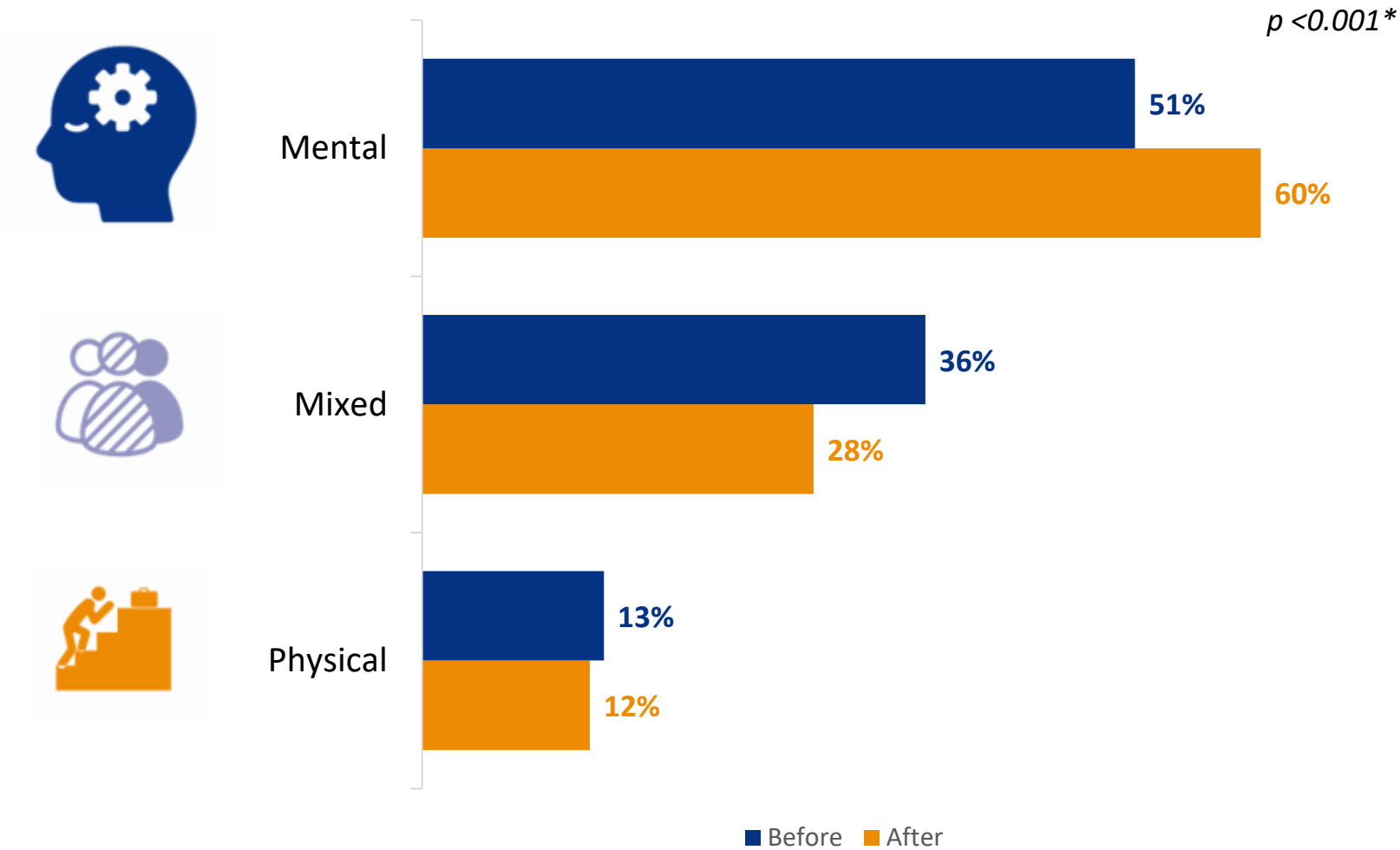


PARTICIPANT FEATURES

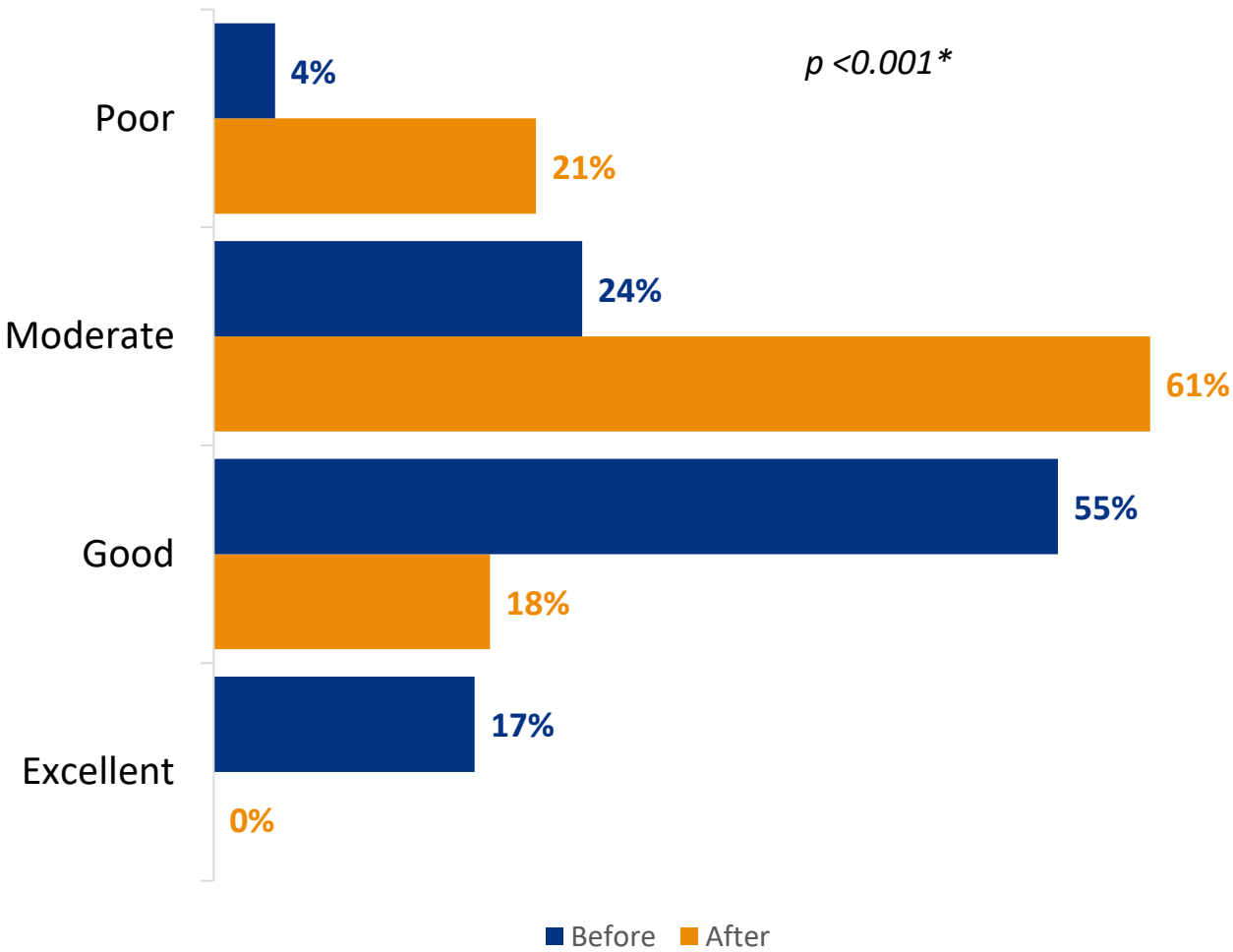
WORK RELATED DATA

96 women

WORK ACTIVITY



WORK ABILITY INDEX

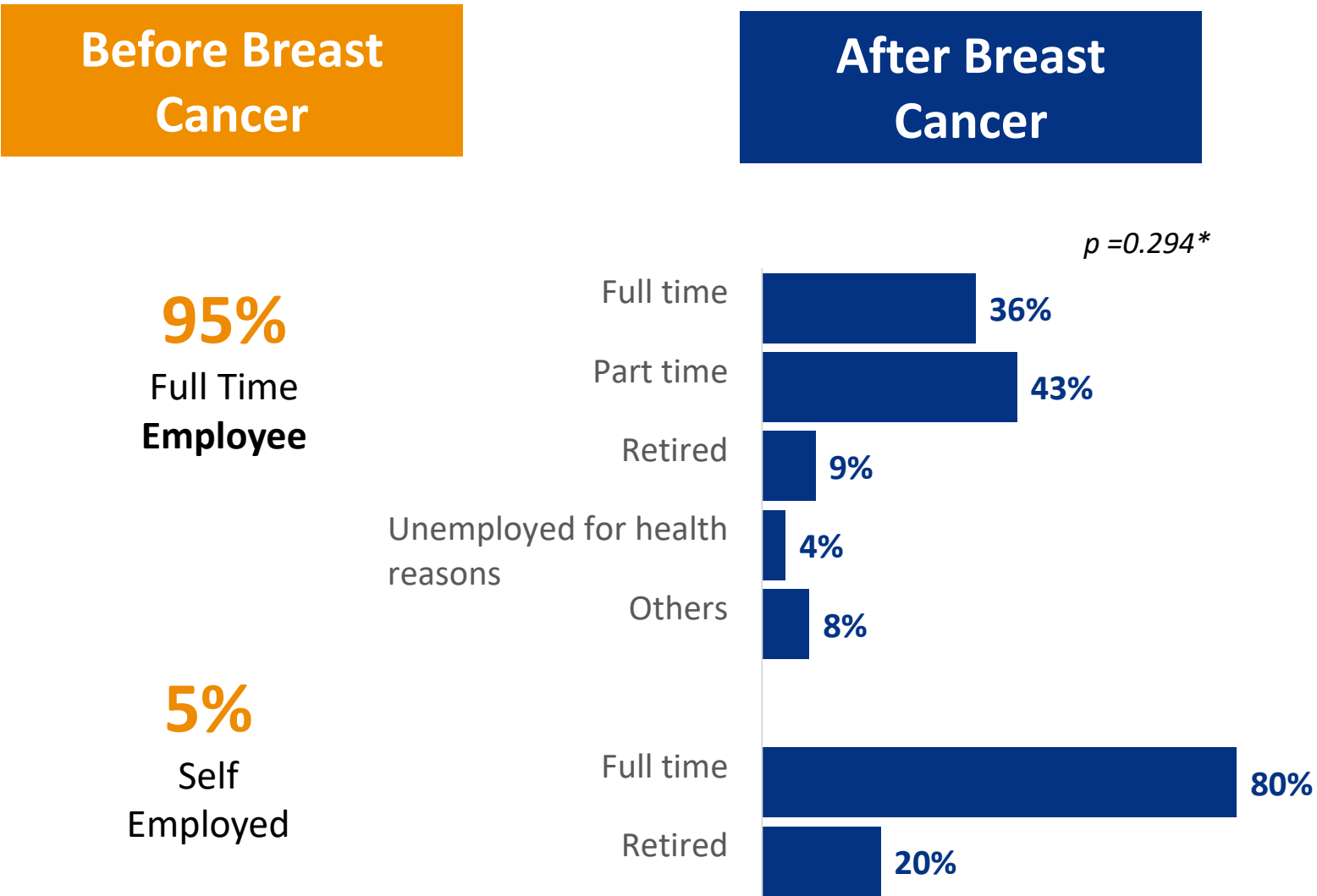


*Fisher's exact test

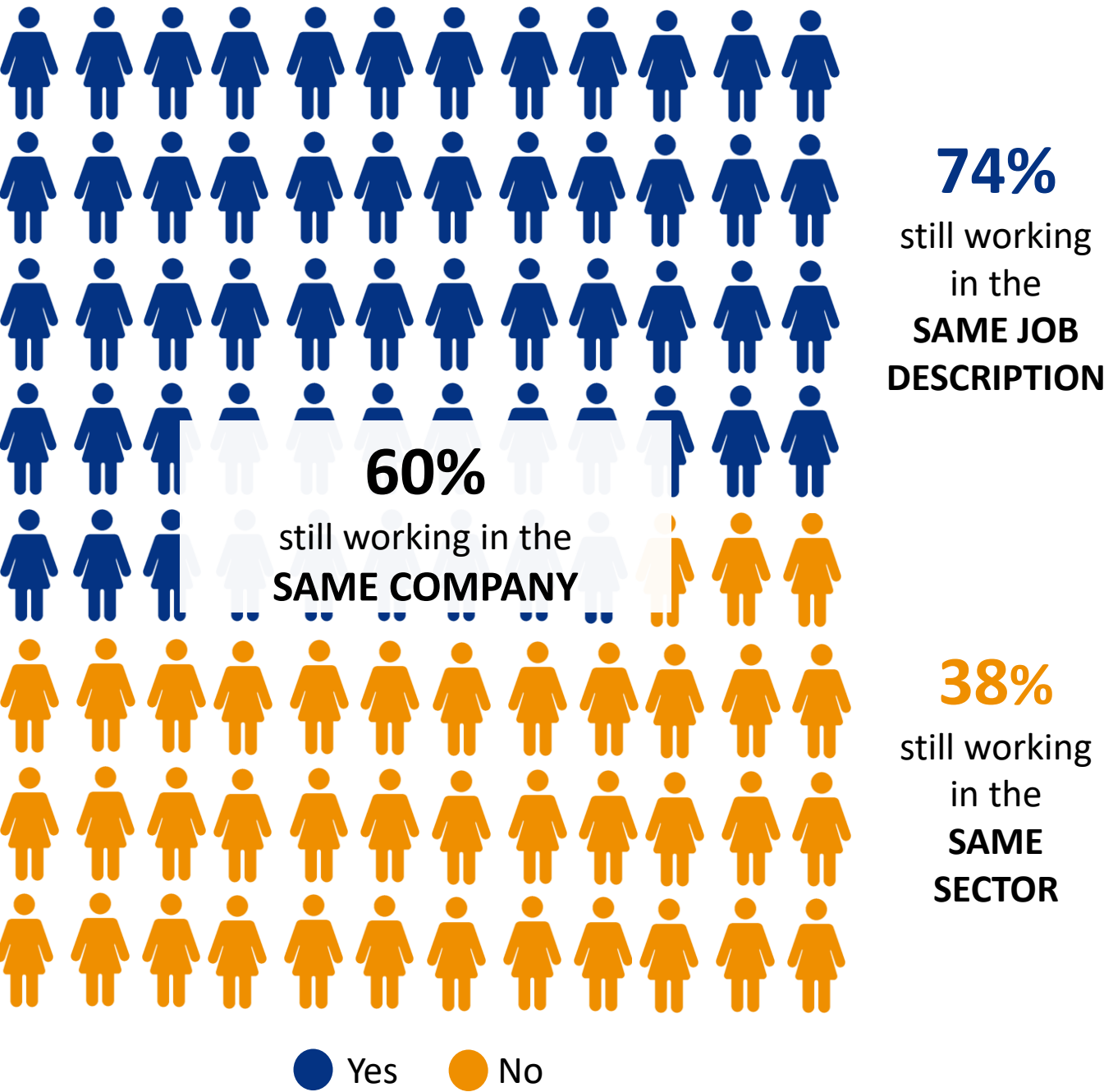
PARTICIPANT FEATURES

WORK RELATED DATA

WORK STATUS



RETURN TO WORK

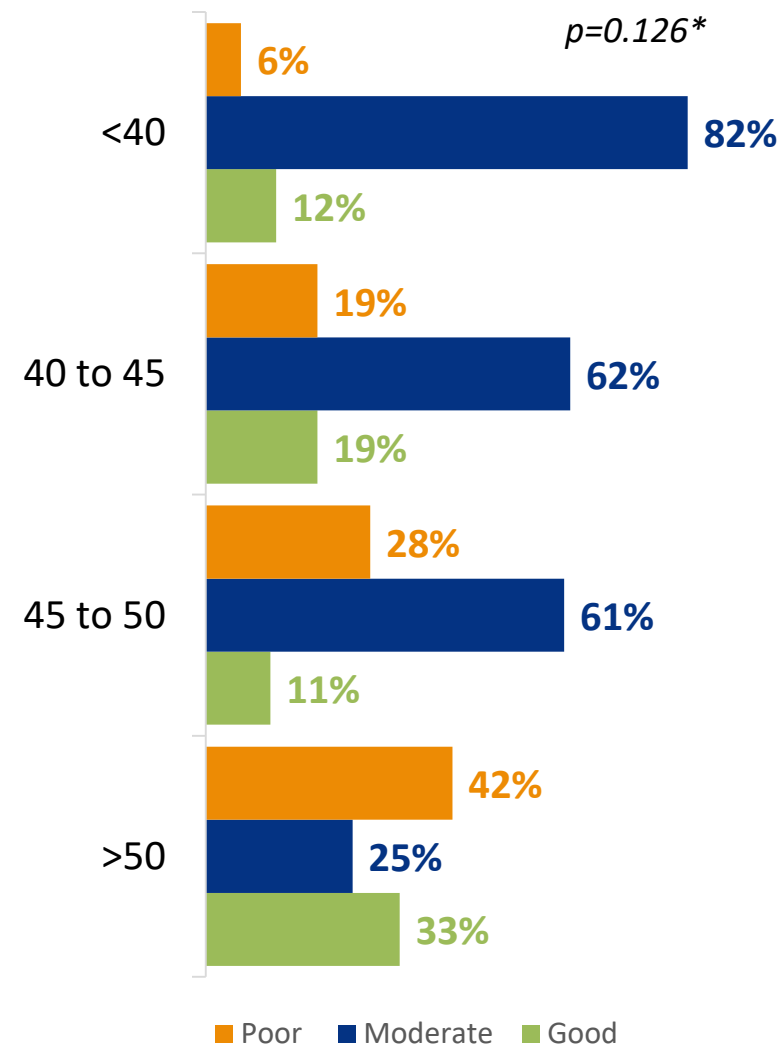


*Fisher's exact test

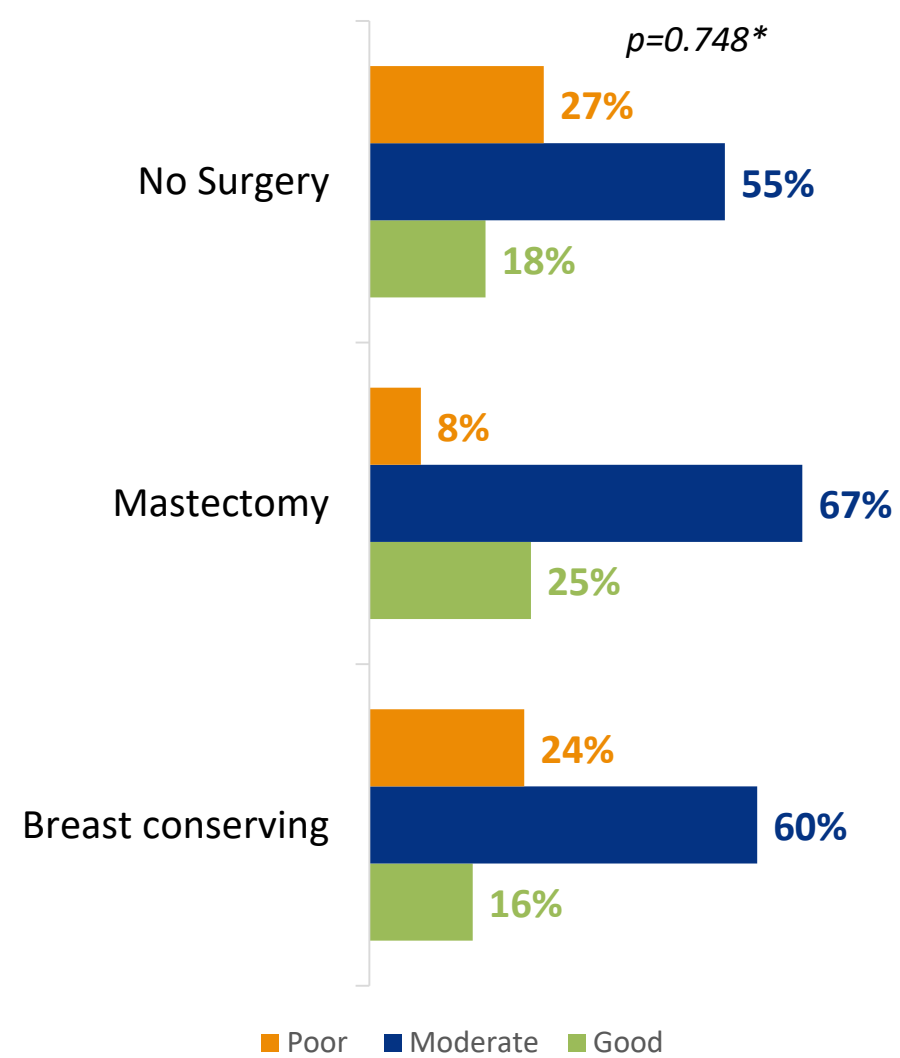
WORK ABILITY INDEX AFTER DIAGNOSIS

72 women

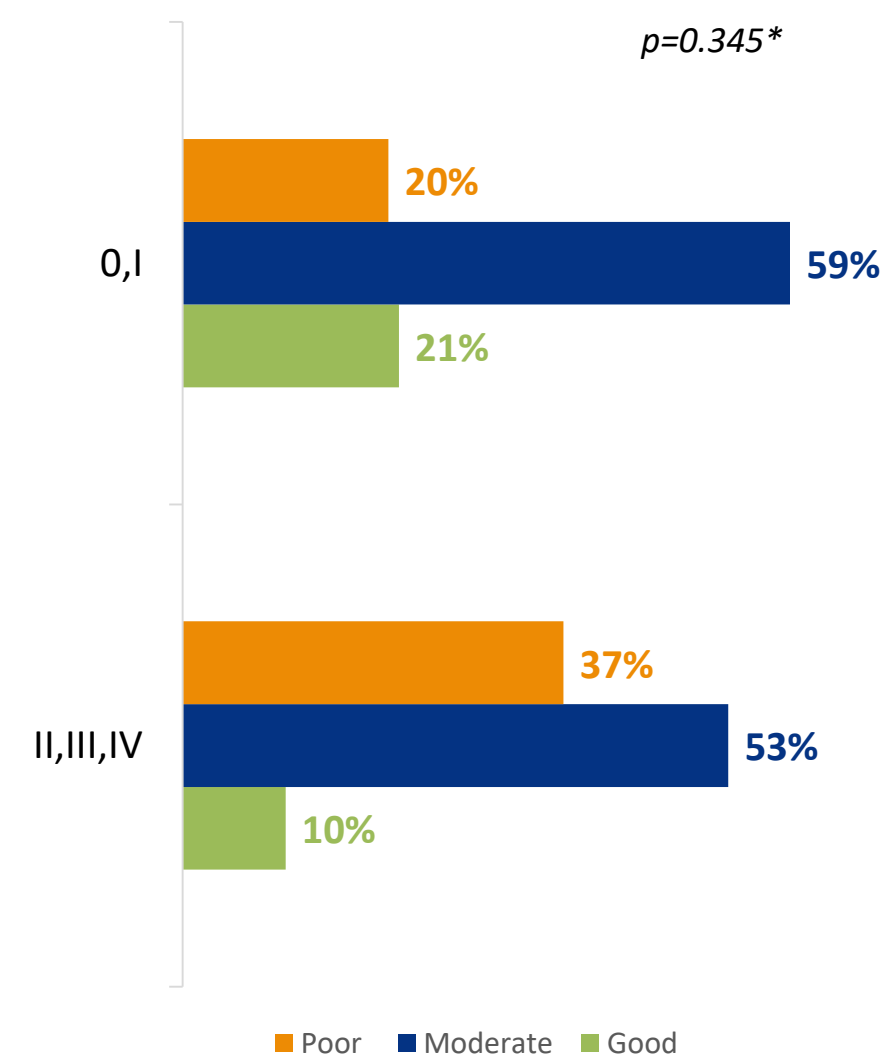
AGE AT DIAGNOSIS



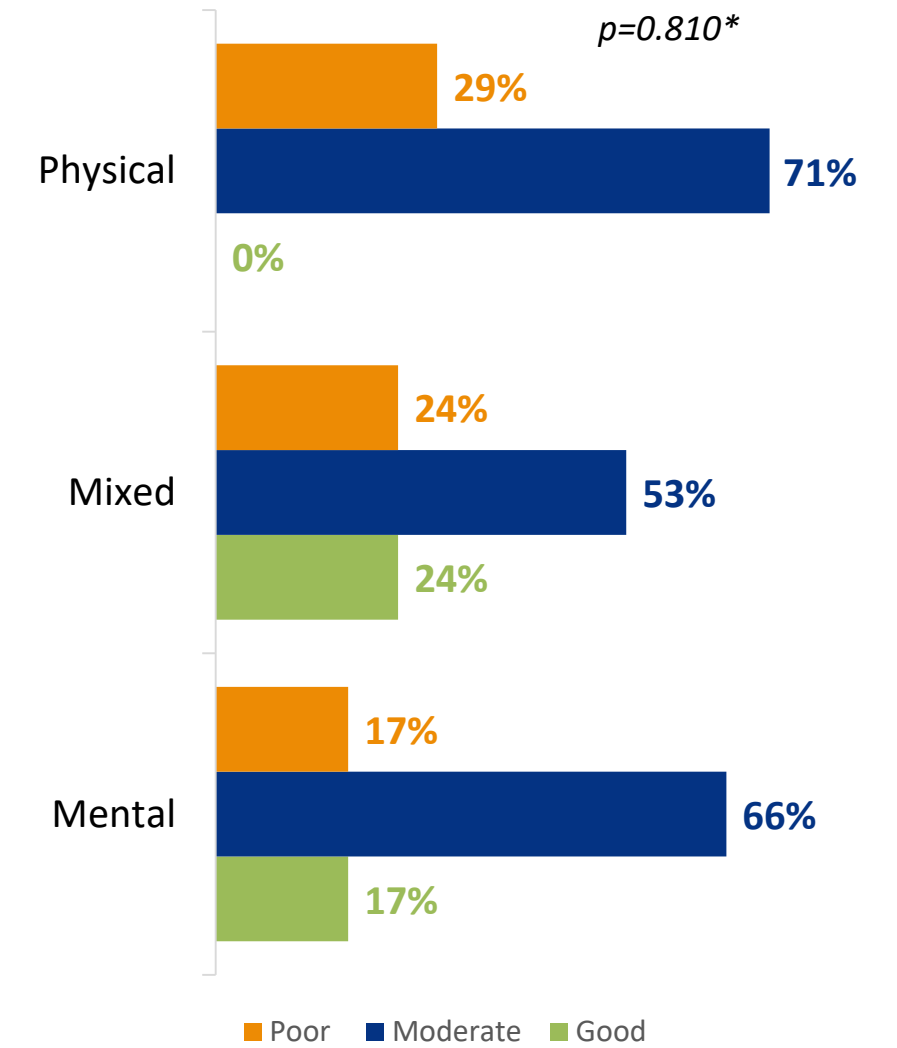
TYPE OF SURGERY



CLINICAL STAGE



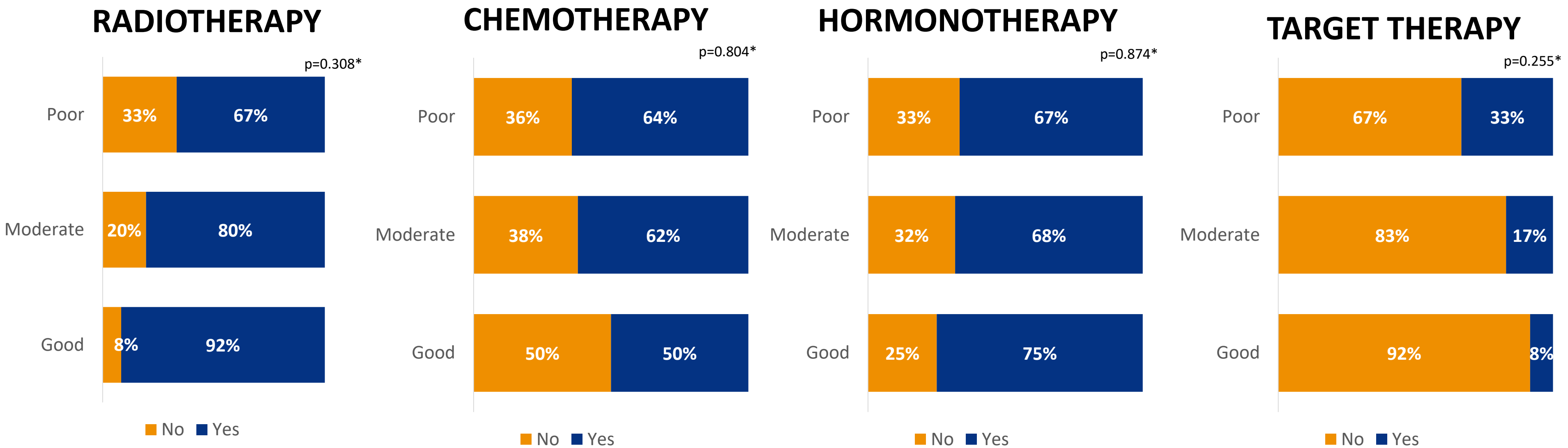
WORK ACTIVITY



*Fisher's exact test

WORK ABILITY INDEX AFTER DIAGNOSIS

72 women



*Fisher's exact test

CONCLUSION

Pilot study:

- RNC cohort on breast cancer patients treated or diagnosed in Luxembourg between 2013-2018.
- Collaboration with **transdisciplinary institutions** for **data linkage** at individual level.

Potential in the future:

- Creation of **secondary dataset** including high-resolution cancer and socioeconomic data.
- Fill in **knowledge gaps**
- Expansion to **other cancer sites** and comparison with **other countries**.



Thank you

Merci

Gracias

Grazie

Obrigado

Mersi



Mounir Talbi

Mariana Barragán De La Cruz

*On behalf of the **RELIANCE - Breast Cancer** study team*

Department of Precision Health (DoPH)

Luxembourg Institute of Health (LIH)

Mounir.Talbi@lih.lu

Mariana.BarraganDeLaCruz@lih.lu

