

GRELL & ENCR

2025 Scientific Meeting
Porto, Portugal

27-30
MAY



Comunidad
de Madrid



FIIBAP FUNDACIÓN PARA
LA INVESTIGACIÓN E
INNOVACIÓN BIOSANITARIA
DE ATENCIÓN PRIMARIA
Servicio Madrileño de Salud



Instituto
de Salud
Carlos III



Co-funded by the
European Union

PI21/01288

Breast cancer survival by subtype, stage at diagnosis and socioeconomic status among young women in Madrid, Spain

Candela Pino-Rosón (1,2); David Parra-Blázquez (1); Sonia Ávila-Arroyo (1); Clotilde Sevilla-Hernández (1,2); Daniel Moñino (3); Raquel López-González (2); Cristina González-Blázquez (2); Miguel Martín (4); Nuria Aragonés (1,5)

(1) Cancer Surveillance and Registry Unit, General Directorate of Public Health, Madrid Health Department, Spain

(2) Facultad de Medicina, Universidad Autónoma de Madrid, Spain

(3) Primary Care Department, Madrid Health Department, Spain

(4) Instituto de Investigación Sanitaria Gregorio Marañón, Universidad Complutense, Madrid, Spain.

(5) Consortium for Biomedical Research in Epidemiology and Public Health (CIBERESP), Madrid, Spain

This study has been funded by Instituto de Salud Carlos III (ISCIII) through the project "PI21/01288" and co-funded by the European Union



- 1** Introduction
- 2** Material and methods
- 3** Results
- 4** Discussion
- 5** Conclusions



Introduction – Breast cancer

1

Epidemiology

- Among women, BC is the most common cancer worldwide
- 25% of new BC cases are diagnosed in women under 50 years
- Incidence and survival disparities across socioeconomic status

Spain:

Incidence (2025): 149 cases/100,000

5-year Survival (OS | NS): 82% | 87%

Mortality (2023): 6,402 women died
from breast cancer

2

Breast cancer characteristics

- Heterogeneous group of diseases

Etiopathogenic characteristics

Behaviour

Molecular characteristics

Stage at diagnosis

Treatment approaches

3

Aim of this study

Determine 5-years survival estimates of breast cancer diagnosed in young adult women (20-49 years) in 2018 by grade, molecular subtype, stage at diagnosis and socioeconomic deprivation

Material and methods

Data collection

PBCR – Community of Madrid
(Spain)

ENCR & IARC coding
recommendations

Population of study

Primary invasive BC
Women aged 20-49 years
01/01/2018-31/12/2018
Living in CM at least 6 months

Variables

Personal identification
Date of incidence
Topography
Laterality
Morphology
Histological grade
Behaviour
Basis of diagnosis

Molecular subtype
Stage at diagnosis
Socioeconomic deprivation (SDI)
Vital status (31st December 2023)

Data analysis

Descriptive analysis

Incidence rates

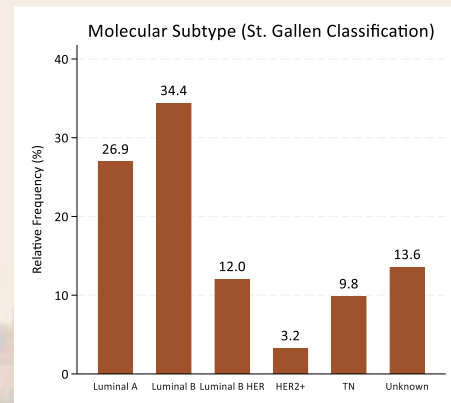
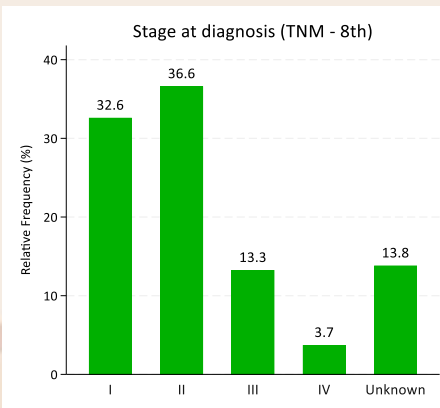
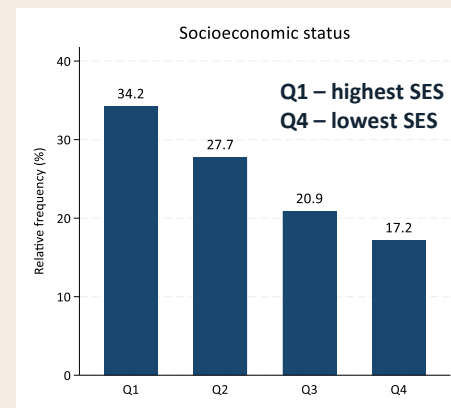
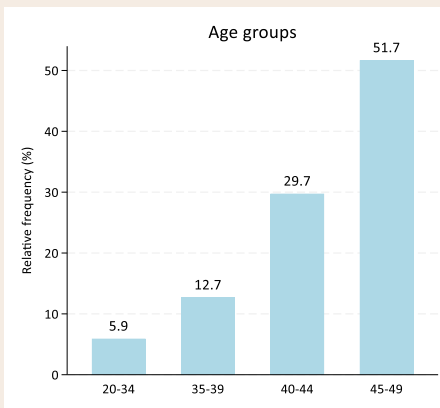
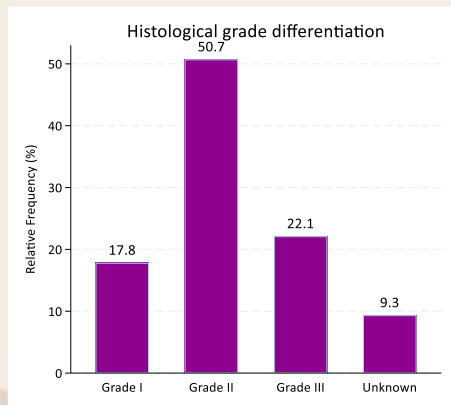
Observed survival estimate – Kaplan
Meier
Net survival estimate – Pohar Perme
estimator

Excess Hazard Ratio - Flexible
parametric models(“stpm2”)

Descriptive analysis

1,049 new cases were included

Results



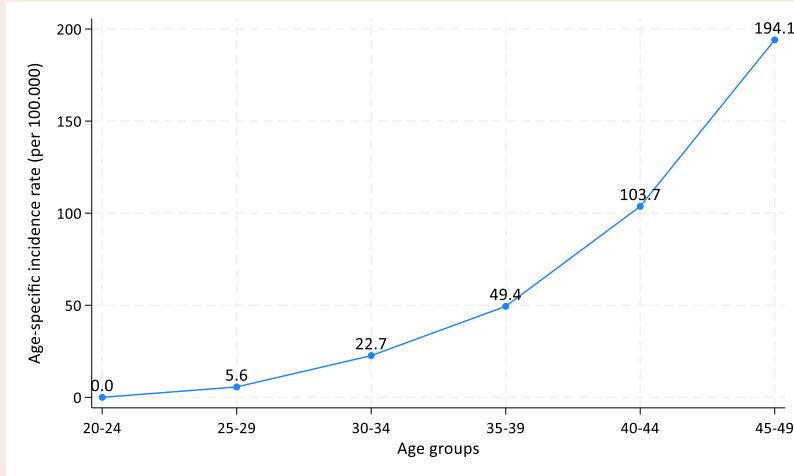
Incidence rates

Results

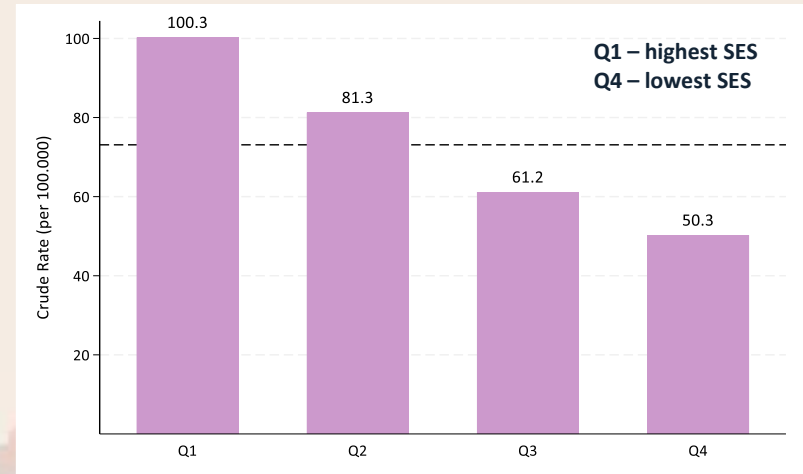
66 new cases per 100,000
women

*Age-adjusted incidence rate
(Europe 2013)

Age-specific incidence rate

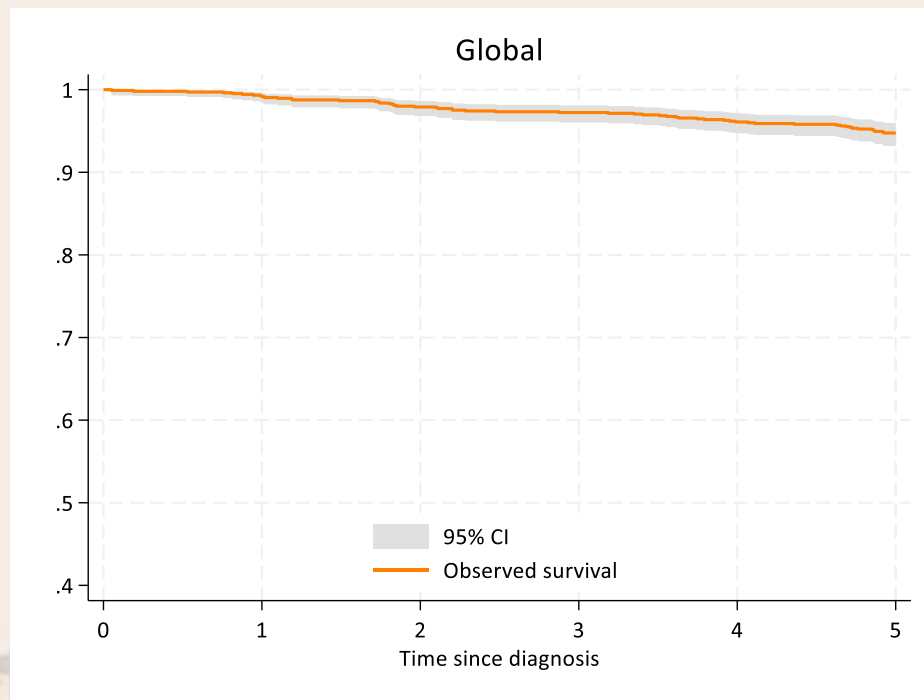


Crude rate by socioeconomic status



Results

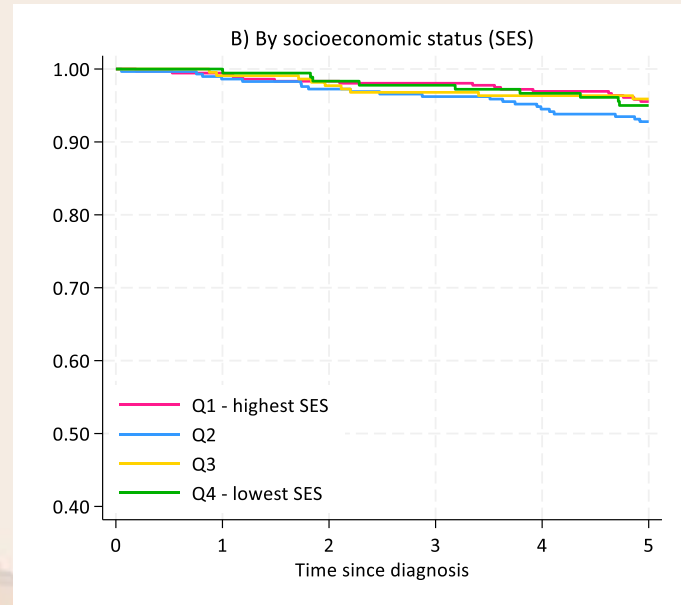
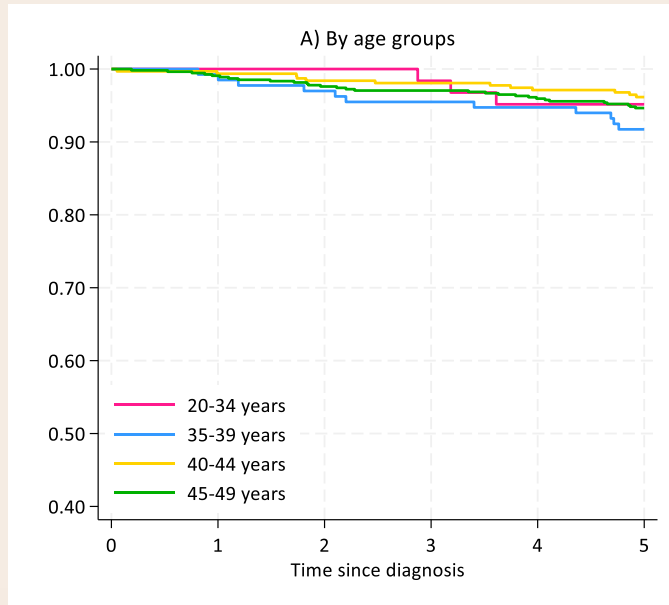
Observed Survival



Results

Observed Survival

By age groups and socioeconomic status

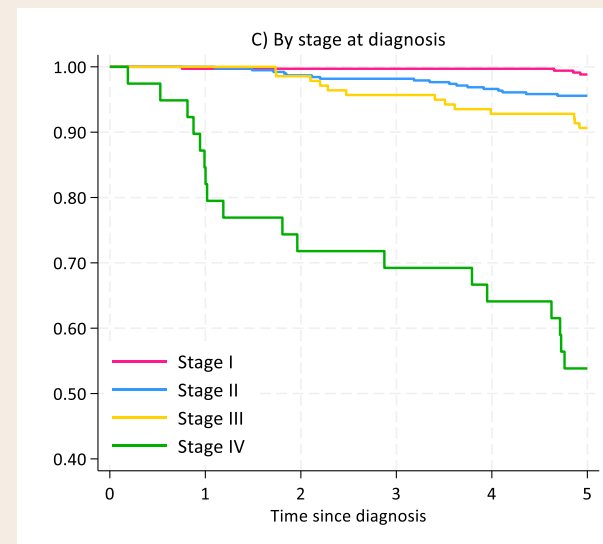
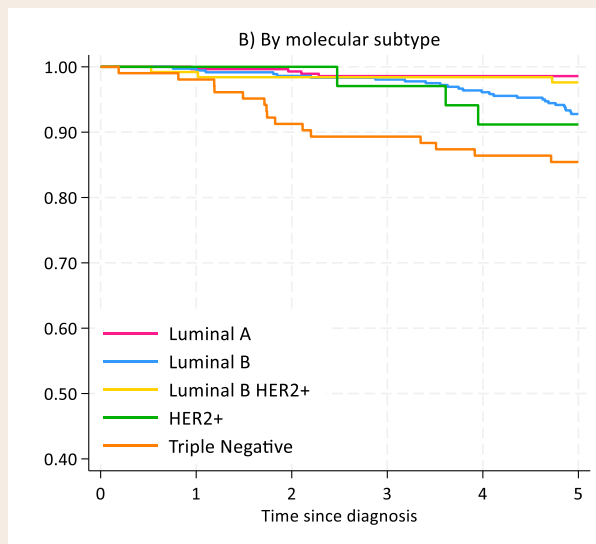
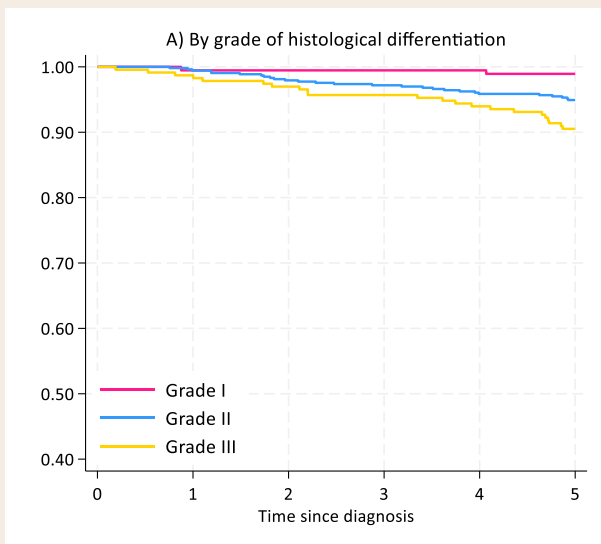


No differences were found by age groups nor socioeconomic status

Results

Observed Survival

By histological grade, molecular subtype and stage at diagnosis



Results

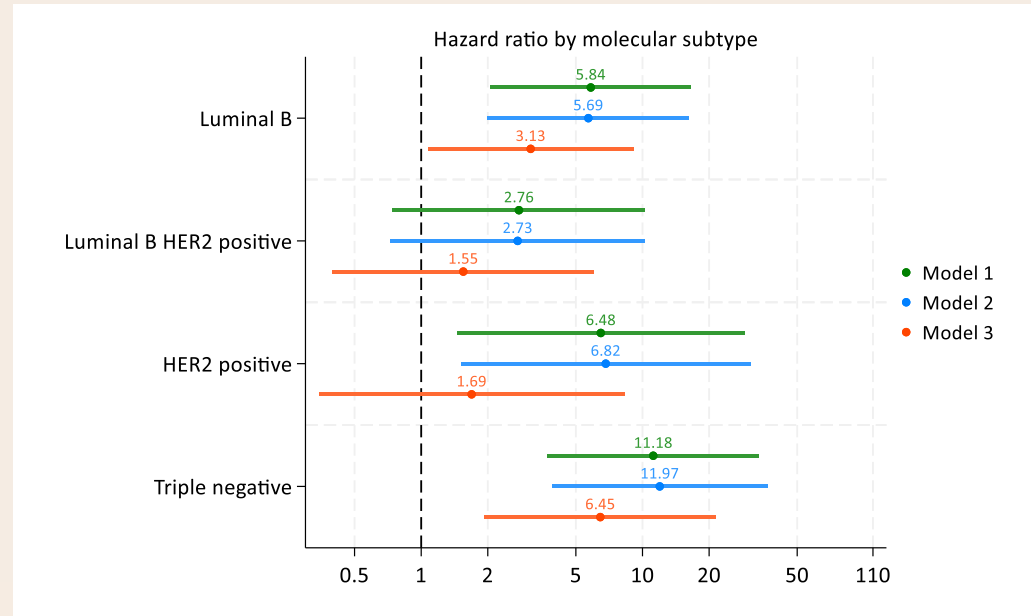
Excess Hazard Ratio

(ref) Luminal A molecular subtype

Model 1: Crude hazard ratios

Model 2: Adjusted by sociodemographic characteristics

Model 3: Adjusted by sociodemographic and tumour characteristics



Discussion

- Our results emphasize the effect of age and socioeconomic status on **cancer risk**, and support the association of grade of histological differentiation, molecular subtype and stage at diagnosis on **prognosis**.
- In contrast with other type of tumours, high socioeconomic status women showed **the highest incidence rate** of BC.
- The survival for BC in the studied women were remarkably high, reaching around **95% of survival** at 5-ys.
- Poorly differentiated tumours, triple-negative and stage IV at diagnosis showed the **lowest survival**.

Conclusions

- This study provides in-depth information on BC incidence and survival rates in young adult women in the Community of Madrid.
- BC incidence and survival rates, broken down by age and tumour characteristics, are essential indicators for clinicians when establishing a patient's **prognosis** and to inform **treatment decisions**.
- PBCR are able to implement systematic and standardised procedures that ensure **accurate epidemiological surveillance**.
- Exploring social disparities in cancer brings such a valuable information that must be taken into account for **future measures and cancer control plans**.



Thank you for your attendance

Candela Pino Rosón

Cancer Surveillance and Registry Unit, General Directorate of Public Health, Madrid
Health Department, Spain