GRELL

Mont Saint-Michel, NORMANDY

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Registres des Cancers général de la Manche, général du Calvados, digestif du Calvados et des hémopathies malignes de Basse-Normandie

RELIANCE - Breast Cancer: REaL-life cANCEr epidemiology research - First study using population-based cancer registry data of breast cancer from Luxembourg

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BACKGROUND

- The **RELIANCE** study is a large project aiming to use data from Luxembourg's National Cancer Registry (Registre National du Cancer du Luxembourg - RNC) for cancer epidemiology and prevention research in the Grand Duchy of Luxembourg and increase the data quality and linkability with potential other secondary data sets.
- The **RELIANCE** - **Breast cancer** is the first pilot study of RELIANCE, which will investigate breast cancer epidemiology in Luxembourg, using RNC data and exploring potential methods and international comparisons as well as investigating which health outcomes can be studied with additional primary and secondary datasets. This project was approved by the CNER (Comité National d'Éthique de Recherche).

AIMS

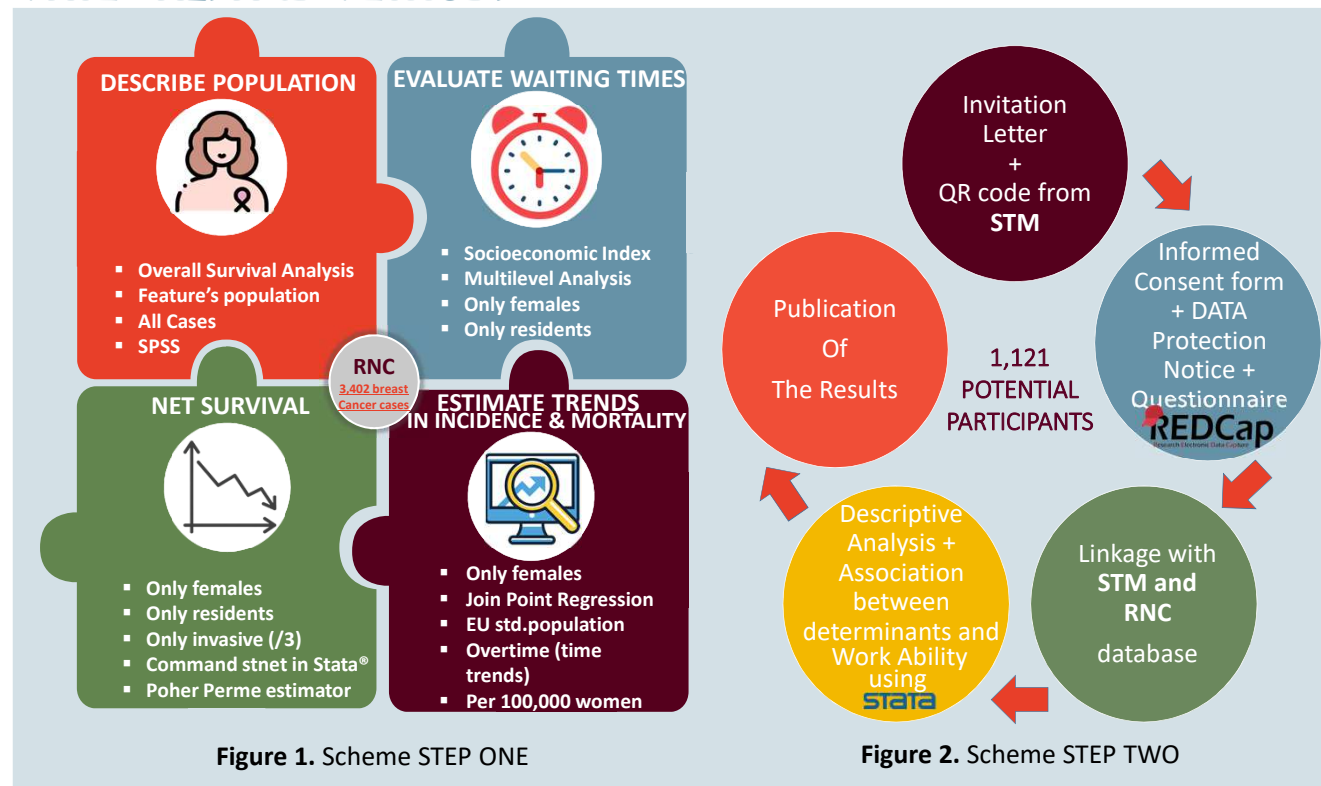**RELIANCE** - **Breast cancer** uses a two-step approach.

STEP ONE is a retrospective analysis using the RNC female breast cancer cohort from 2013-2018 that aims to:
- describe the characteristics of the population;
- evaluate waiting times for diagnosis and treatment;
- estimate trends in incidence and mortality;
- evaluate the survival rates.

STEP TWO is a cross-sectional prospective study based on an online self-administered questionnaire to collect additional data from breast cancer survivors who visited the public occupational health service (Service de santé au travail multisectoriel - STM) that aims to:
- evaluate the return to work after a diagnosis and treatment of breast cancer.

MATERIALS AND METHODS

DESCRIBE POPULATION
- Overall Survival Analysis
- Feature's population
- All Cases
- SPSS

EVALUATE WAITING TIMES
- Socioeconomic Index
- Multilevel Analysis
- Only females
- Only residents

NET SURVIVAL
- Only females
- Only residents
- Only invasive (/3)
- Command stnet in Stata®
- Poher Perme estimator

ESTIMATE TRENDS IN INCIDENCE & MORTALITY
- Only females
- Join Point Regression
- EU std.population
- Overtime (time trends)
- Per 100,000 women

RNC 3,402 breast Cancer cases

Figure 1. Scheme STEP ONE

Invitation Letter + QR code from STM

Informed Consent form + DATA Protection Notice + Questionnaire REDCap

1,121 POTENTIAL PARTICIPANTS

Publication Of The Results

Linkage with STM and RNC database

Descriptive Analysis + Association between determinants and Work Ability using Stata
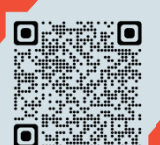
Figure 2. Scheme STEP TWO

CONCLUSION

This study will **generate** the first set of indicators on breast cancer in Luxembourg, while simultaneously **enhancing data quality** and **usability**.
In addition, the study will yield international insights into the applications of population-based cancer registries for small developed countries.

CONTACT INFO

Scan the code to check the study webpage

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