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### **Caroline ALLEAUME**

#### Doctorante au sein de l'équipe CANBIOS - UMR 912 - SESSTIM

#### Le retour et le maintien en emploi après un diagnostic de cancer

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First results from the French VICAN Surveys

<u>Caroline ALLEAUME</u>, Anne-Déborah BOUHNIK, Marc-Karim BENDIANE, Dominique REY, Bérengère DAVIN, Valérie SEROR and Patrick PERETTI-WATEL.



Sciences Economiques & Sociales de la Santé & Traitement de l'Information Médicale

Aix\*Marseille

Impact of cancer on gender inequalities at work

INTRODUCTION

- I. RESEARCH QUESTION
- II. MATERIAL AND METHODS
- III. RESULTS

CONCLUSION



YOU SEE, THIS BANNER USED TO BELONG TO MY GRANDMOTHERS'S GRANDMOTHER. AND ONE DAY, IT WILL BE YOURS. THOSE OLD TRADITIONS ARE WONDERFULL...

LECRUART

EQUAL PAY FOR EQUAL WORK!

### INTRODUCTION | Gender inequality at work



## Gender inequality at work

European indicators of gender inequalities at work (proposal):

- Gap between average wages among women and men (INSEE).
- « To pay the same wage for the same work whatever the sex, had not always been the legal standard » (Meurs, 2014).
  - In average, French women earn between 16 and 28% less than men (DADS survey INSEE 2010 and 2012).
  - Sticky floor and Glass ceiling (Guionnet & Neveu, 2005; Marry, 2008).
    - > 34% of manager workers are women, 11% hold top level position (DADS survey INSEE 2010)
  - Reduced job VS Part-time job (Maruani, 2011; Moulin, 2016).
    - > 30% of women VS 5% of men.

# What happens when cancer interferes?





### RESEARCH QUESTION | Intersectionality (K. Crenshaw, 2005)



# Cancer in France

- Each year, 355 000 new individuals are diagnosed with cancer,
  - For more than half, the survival rate is > 50% (INCa, 2010).
  - Nearly half of incident case are in the working age.
- As Long Duration Disease, all cancer-related costs are covered by the French national health insurance fund (from screening to end of treatments).
- « 2 years after diagnosis, employment rate is 10% lower among cancer survivors » (INCa, 2012).

### → Is the negative impact of cancer on employment the same for men and women ?

• Women remained at work longer than men before retiring (INCa, 2012).



### MATERIAL AND METHODS VICAN Surveys



## French VICAN surveys (French Cancer Plan Obj.)

- The first VICAN survey interviewed in 2012 cancer survivors, two years after a diagnosis.
- Among those of this first sample who were still alive in 2015, **1,886 cancer survivors** were interviewed a second time, five years after the diagnosis.
- The survey was restricted to **12 tumour sites** that accounted for 88% of global cancer incidence in France in 2012 (*INCa, 2013*);

Breast, Lung, Colorectal, Upper aerodigestive Tracts, Kidney, Cervix, Endometrial cancer, Non-Hodgkin lymphoma, Melanoma, Thyroid, Bladder, Prostate.

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## Data collection

#### **Medical Survey**

A medical survey was conducted with the physician who initiated cancer treatment to collect detailed information regarding tumor histology (stage, grade, size).

NHS Databases

The national SNIR-AM databases, which includes financial reimbursement data (for physicians' and other health professionals' consultations, and for prescribed drugs) as well as hospital discharge records.

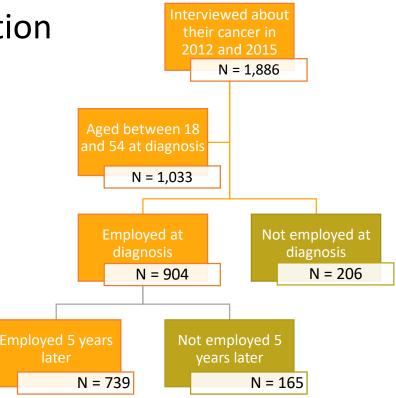
#### **Patient Interview**

The questionnaires dealt with many topics: sociodemographic background and socioeconomic status, circumstances of diagnosis, treatments received and perceived side effects such as fatigue and pain....

The patient questionnaires were administered **2 and 5 years after diagnosis** (in 2012 and 2015 respectively).

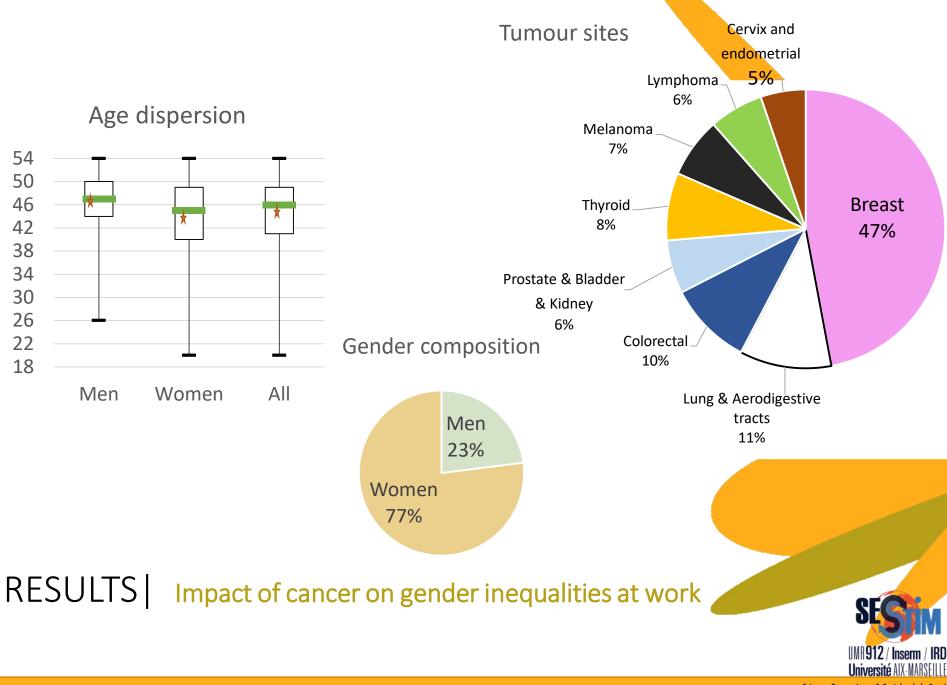
# French VICAN surveys

Study population



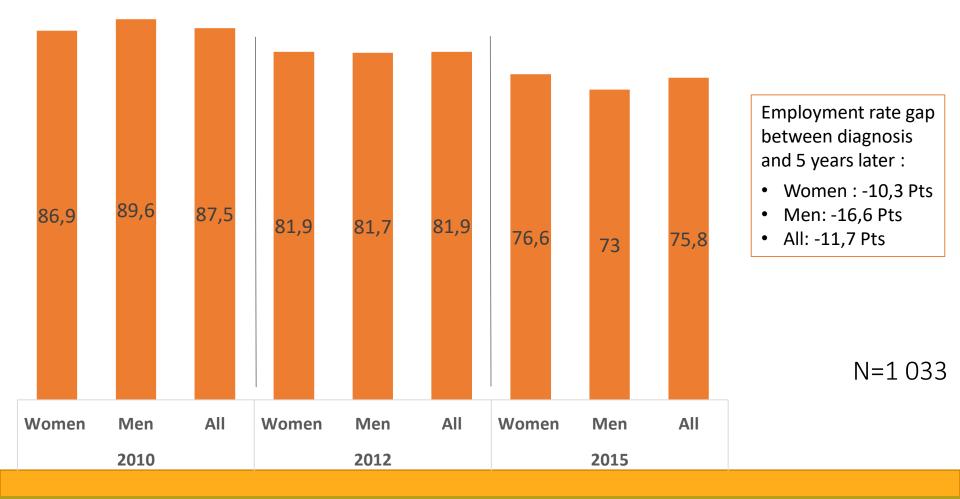
# Methods

- Indicators measured
  - Job retention after cancer
    - To be employed five years after diagnosis (in the same job or not than before).
  - Gap between monthly wages among women and men
    - Wages declared (only 12 missing : < 1%)
  - Sticky floor
    - Evolution of occupation classification between diagnosis and five years later.
    - Part-time job
      - Transition to part time job in 2015 among individuals in full-time job at diagnosis (2010).
- Analysis conducted
  - Description of professional situation at diagnosis, 2 and 5 years later.
  - To analyze independent factors associated with job retention, logistic regressions were used.
  - For individuals who remained employed five years after diagnosis, we used linear regression (with Heckman selection) on wages to analyze the effect of gender in addition of socioeconomic and medical variables.
  - Sensitivity analysis : analysis on unisex tumor sites (n2).



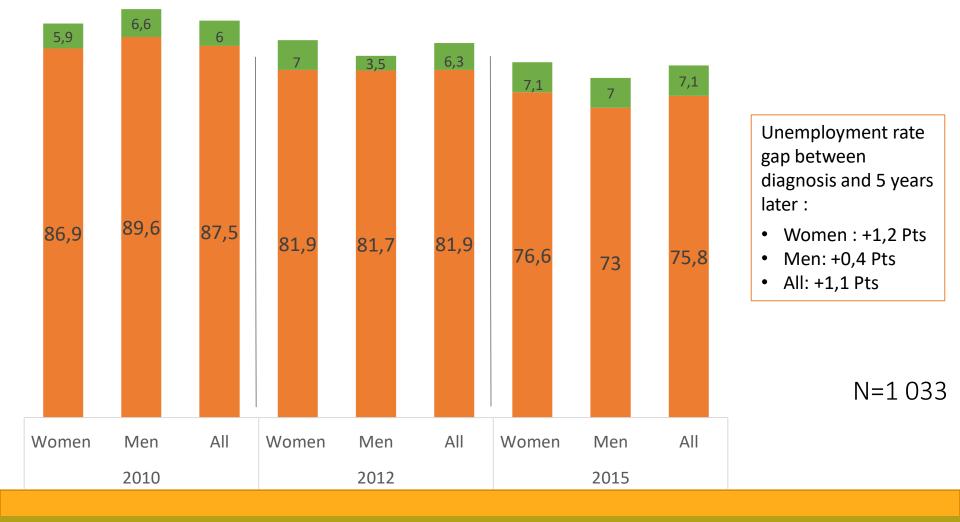
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Employment



Employment

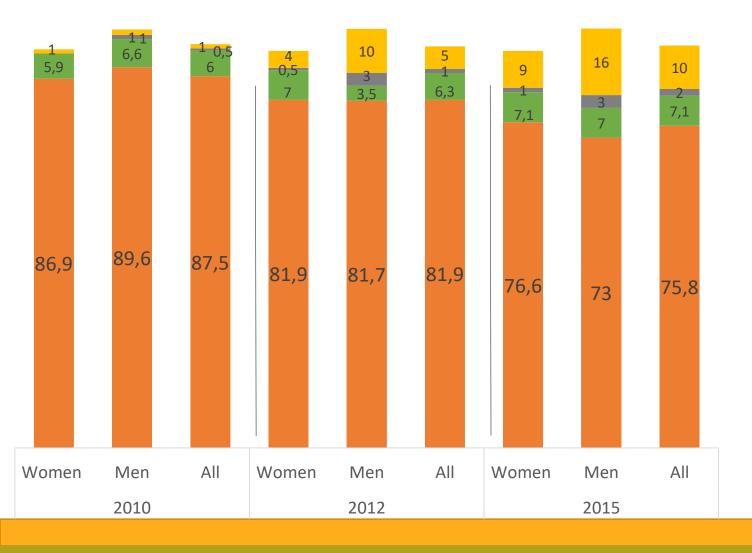
Unemployment





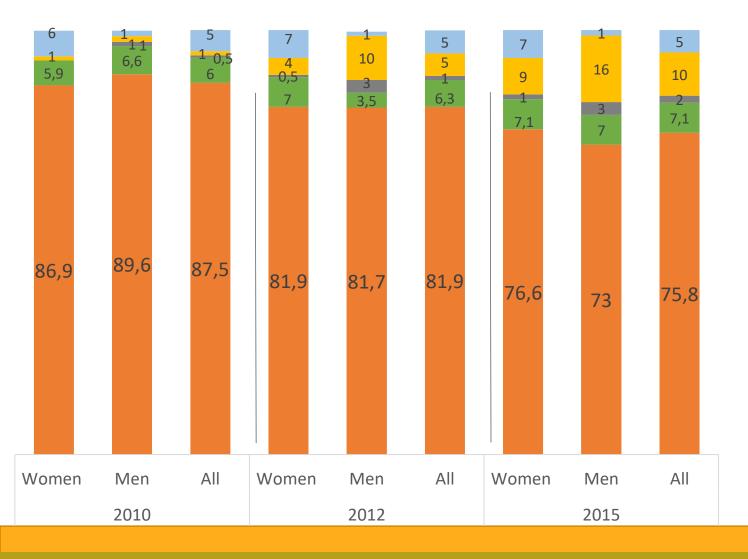
N=1 033

Employment Unemployment Retirement Disability



N=1 033

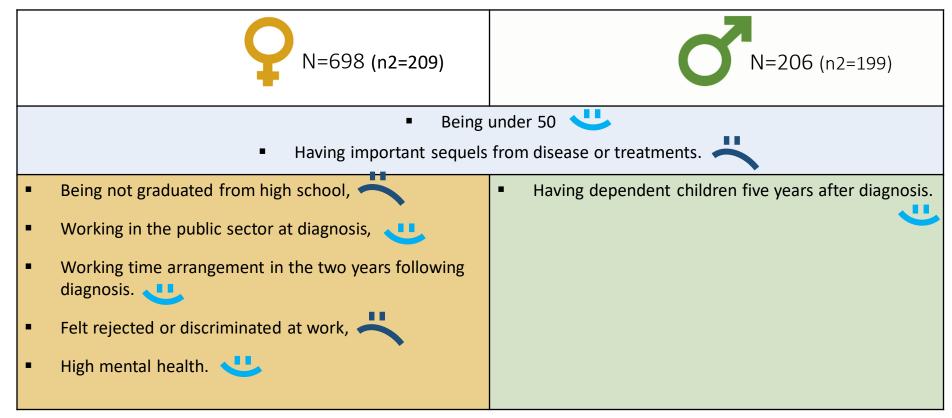
Employment Unemployment Retirement Disability Inactivity



N=1 033

### Factors associated with job retention in 2015

#### • Logistic regression stratified on gender,



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# Synthesis of first results

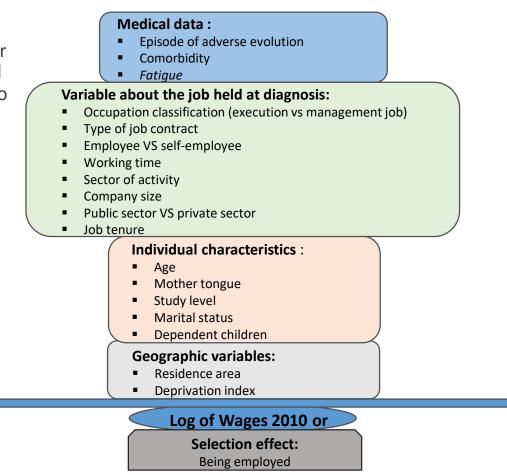
- Men more often quit *or lose* their job for retirement or disability status than women;
- Women more often *quit or* lose their job for **unemployment** situation.
- Factors associated with job retention are different between men and women.

 $\rightarrow$  Cancer does not have the same impact on professional status for men and women.

• From now: Focus on individuals who remained in employment five years after diagnosis (N=739).

### Evolution of wages disparities

Linear regression with adjustment for socioeconomic and medical variables to analyse wages at diagnosis and five years later,

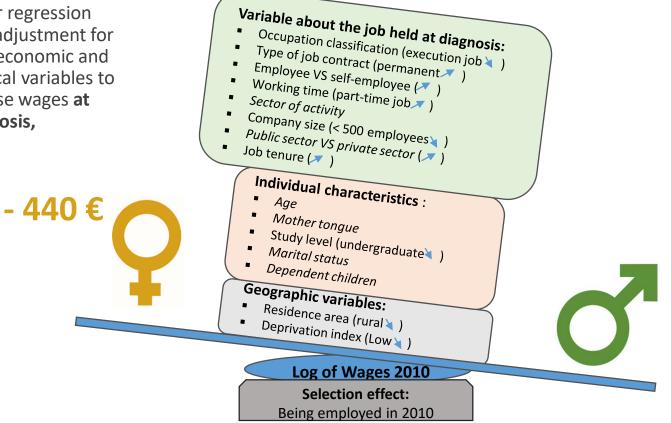


Median monthly wages at diagnosis and five years later for men and women



### Evolution of wages disparities

Linear regression with adjustment for socioeconomic and medical variables to analyse wages at diagnosis,

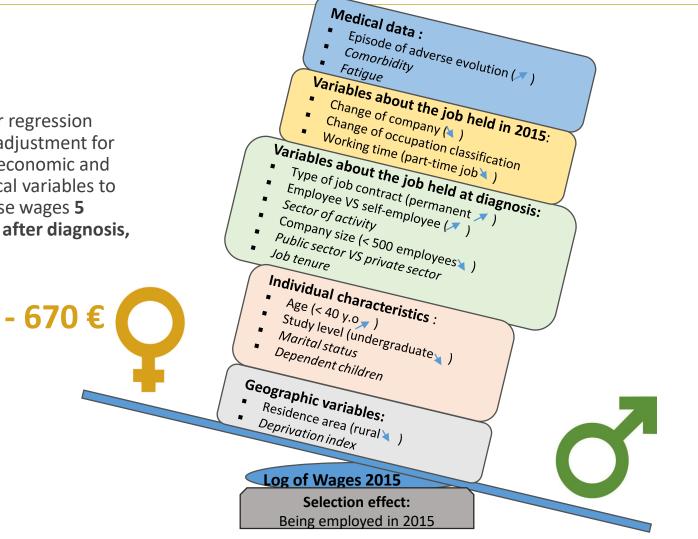


N=739

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### Evolution of wages disparities

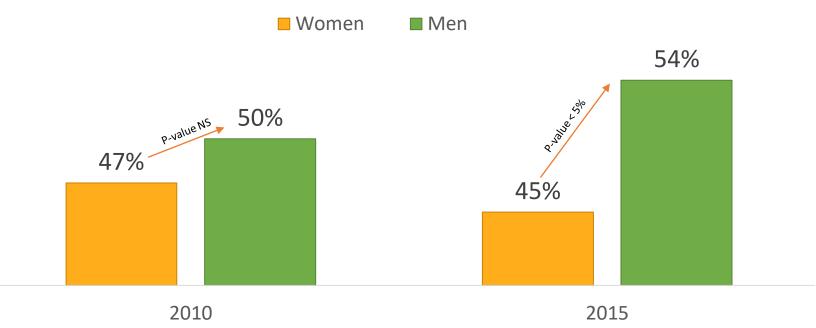
Linear regression with adjustment for socioeconomic and medical variables to analyse wages 5 vears after diagnosis,



N=739

# Evolution of occupation classification

# Evolution of the proportion of management posts between diagnostic and five years later

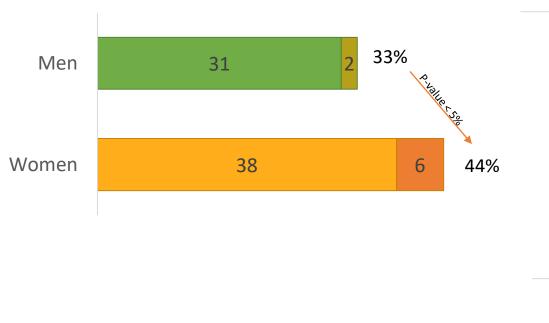


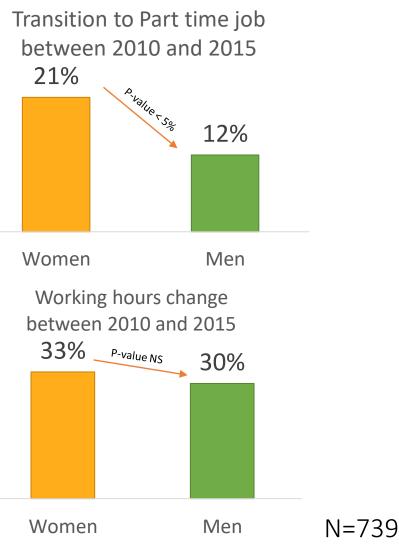
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# Evolution of working time

- Women were more likely to switch to part-time status than men.
- > No gender difference on decrease of working hours

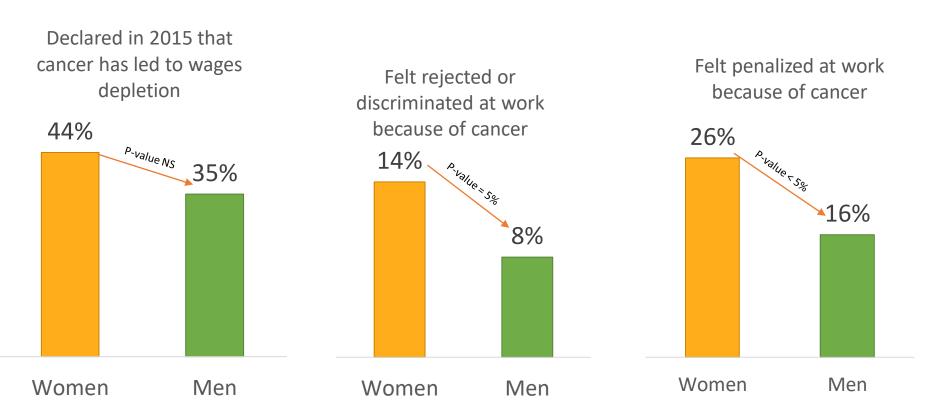
Have had a working time arrangement in the two years following diagnosis





### Perceived impact

➢ Women seems more frequently report a negative impact of cancer on their work than men : wages decrease, discrimination and penalization.



> Those differences were no longer significant when breast cancers were removed.

N=739 (n2=367)

# What happens when cancer interferes?





#### CONCLUSION | Gender inequality on employment in France : when cancer interferes



# CONCLUSION

#### Limits:

- Social desirability bias (declaration on wages) could not be assess here;
- More precise data are needed to assess the "sticky floor" and the "glass ceiling".

#### Negative impact of cancer :

- Increasing gender gaps in employment and wages,
- Perception of negative impact of cancer higher for women.
  - $\rightarrow$  Not true for women without breast cancer : Women are different depending on the tumour site !

#### More research needed :

- Why cancer survivors stopped working : choice or constraint ?
- For those who remained at work; to what extent do they choose to reduce their working time?
- Intersectionality : inequality between women according to the tumour site, specificity of breast cancer?



## Thank you for your attention and Thank you to all the participants !



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# Gender inequality on employment in France : when cancer interferes.

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