

Management of breast cancer in France

4th International Congress of Breast Disease Centers

February 5, 2014

Pr Agnès Buzyn
French National Cancer Institute

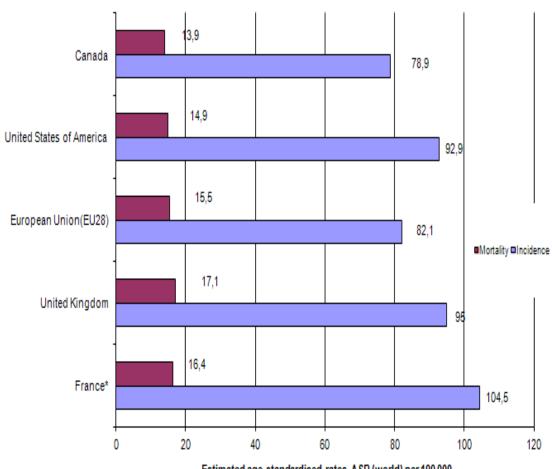


Worldwide situation

 Incidence: France is amongst European countries with the highest rate of breast cancer such as Belgium, Denmark, UK...

 Mortality: a slight variation is observed between European countries

Age standardised rates (world population) incidence and mortality from breast cancer in the world



Estimated age-standardised rates ASR (world) per 100 000

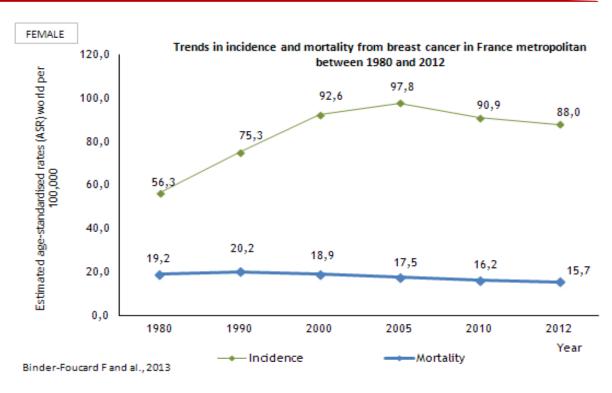
Globocan 2012; * projected rates from 2011



Incidence and mortality in France

Incidence in 2012

- ✓ ≈ 48 800 estimated cases
- ✓ ASR (world) : 88 per 100 000 women
- ✓ Median age at Dg: 63 years old
- ✓ The most frequent cancer in women, ≈ 32% of all female cancers
- ✓ 50% cases occurred in women 50-74 years old



Mortality in 2012

- ≈ 11 900 estimated deaths
- ASR (world): 15,7 per 100 000 women
- Median age at death: 73 years old
- First cause of mortality cancer in women
- 70% of deaths occurred in women > 65 years

Breast cancer survival and prevalence

Trend in incidence and mortality

- Strong increase in incidence rates between 1980 and 2000,
- Decrease since 2005
- Stability of mortality rates until 1995
- Decrease of mortality rates since 2012

5 and 10-year net survival of cancer patients diagnosed in 1989-2004

- 86% at 5-years and improving with time
- 76% at 10-years (83% for women 45-54 years old vs 65% for women ≥ 75 years)

Total prevalence

≈ 650 000 women with breast cancer (present or past) and still alive in 2008



EUROCARE-5

- Survival in 29 European countries for patients (> 15 yr) with cancer diagnosed between 2000 and 2007:
- In most countries, except eastern Europe (73.7%), 5-yr relative survival is close to European mean (81.8%)
- 5-yr relative survival varies from 66.7% (Lithuania) to 87.2% (Iceland); UK and Ireland (79.2%)
- France is one of the countries with the highest **5-yr relative survival rate (86.1%)** such as Iceland (87.2%) and Sweden (86.0%)



The French breast cancer screening program

- Organized by the public authorities
- Generalized since 2004
- Use of Digital Mammography authorised since 2008

Modalities

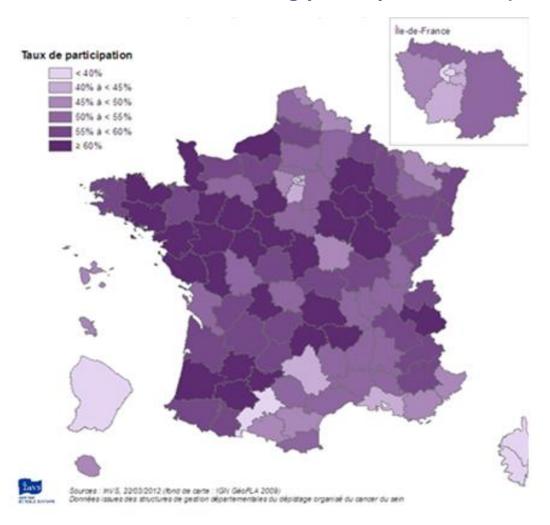
- Target age group: 50-74 years old (size: 9 million women)
- Invitation every 2 years
- Screening test: clinical exam + 2-views mammography (free of charge)
- 2nd reading centralized for negative mammography

Coexistence of organized screening and opportunistic screening



Breast cancer screening: participation rates to the french breast cancer screening program

• Breast cancer screening participation rate (2012): 53% (2,4 million women)

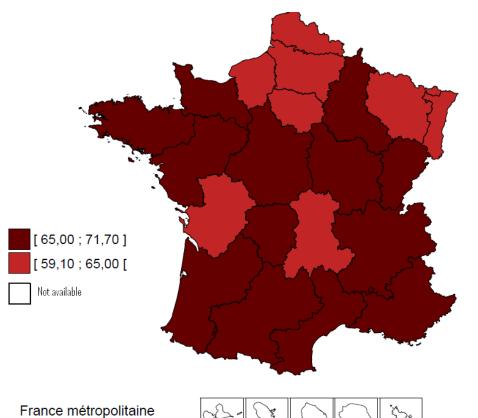


Heterogeneity in départemental participation rates : 27 % to 67 %



Organized screening and opportunistic screening – estimated coverage (50-74 years old)

- Exploitation of Senolog, a national database for organized and opportunistic mammography screening
- National estimated coverage of organized and opportunistic screening 65 %



Homogeneity in regional rates (organized and opportunistic screening):

The regions with the lowest organized participation rates have the highest level of opportunistic screening.



Balanced and accessible information about breast cancer screening

Promote informed choice in cancer screening :

- Recommendations on ethical issues by an independent board
- Benchmark of communications developed in countries with organized screening program
- Qualitative study to investigate women knowledge of benefits and harms and questions about screening



- Development of a complete and clear information with the collaboration of a stakeholders working group
- Three levels of information: the leaflet with the invitation letter / a 20 pages document / the web site
- Annual radio campaign



High quality healthcare promotion : Guidelines for clinical practices

- Guidelines/expertise production and implementation to set standards for high quality clinical practices
 - Targeting topics where "loss of chance" risks are identified
 - Involving French learned societies
 - With a **reliable methodology**: based on the best evidence, transparent, rigorous in its development process and independent

Breast cancer:

- **Earlier stages at diagnosis** (screening expansion policy, diagnosis techniques performances improvement..)
- And better knowledge/level of evidence to promote less aggressive approaches



Make sure treatment delivery is adapted to cancer's stage and aggressivity as one major stake



High quality healthcare promotion : Guidelines for General practioners

Clinical practice guidelines for General practitioners :

In order to ensure optimal patient referral and coordination between hospital and primary care teams

Guides on 25 locations of cancers, including breast cancer, with highlights on the role of GPs in:

- Diagnosis strategy and initial referral of patients ,
- Care strategy and side effects management in coordination with specialists,
- Shared follow-up between specialists and GPs,
- Quality of life management.

An evaluation of the needs of GPs (survey on 400 professionals)

- 2/3 are looking for information at least once a month for one of their patients;
- their needs: diagnosis of cancer (74%), care strategy and side (95%), ongoing follow-up (74%), screening (74%), practical information (referral, social aspects).



Developing patients information :

- "Cancer info" is an information platform (helpline, brochures collection and an internet session on the Institute's website) for patients and close relatives which provides valuable, reference and up-to-date medical and social information on cancers and life with cancer. It is meant to be:
 - a communication tool to serve patients-professionals relations;
 - a reference point in a large offer of information.
- The French National League Against Cancer (LNCC) is our privileged partner, along with a panel of associations involved in patients information.







high quality and security healthcare : scheme for authorisations of cancer treatment

Authorizations for cancer treatment :

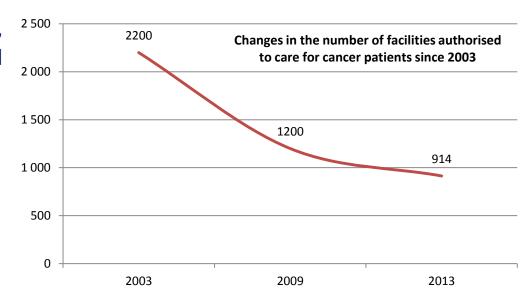
to guarantee a minimum level of quality and safety of care, consistent for all patients.

- cross-disciplinary measures for quality,
- specific accreditation criteria
- minimum activity threshold for 3 medical specialties (chemotherapy, radiotherapy and surgery).
- At the end of the first 5 years, authorizations issued by the Regional Health Agency to healthcare institutions:

- Radiotherapy: 171

- Chemotherapy: 503

breast surgery*: 430



^{*} Minimum threshold = 30 ops/year (one missing region)



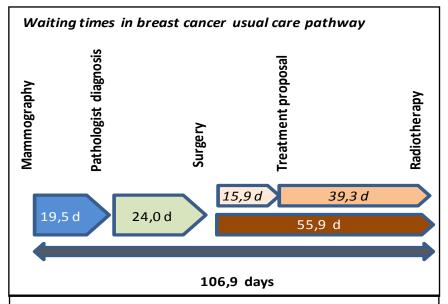
Measuring waiting times in breast cancer care Study in several French regions in 2011 *

To determine the most representative waiting times in breast cancer care in several regions of France



To analyze the influence of individual, medical or health care system factors on those waiting times





- Age, circumstance of diagnosis, tumor stage, category of care center had an influence
- Important differences between regions that could be explained by organizational factors or individual factors (social vulnerability, category of employment,...)

Waiting time is one indicator of quality of cancer care and could reveal inequalities in cancer care access.

^{*:} Waiting times for cancer care in four most frequent cancers in several French regions in 2011 and 2012, Bull Cancer, December 2013



Targeted intraoperative radiotherapy (IORT) call for applications initiated in 2011

Context:

- Progressive increase of advanced mode of high-precision radiotherapy
- Patient cares: development of a more refined and personalized approach, new treatment protocols with a reduced number of fractions (SHARE, TARGIT, ELIOT, etc.)

Objectives:

regarding intermediate positive results of international trials on IORT, INCa intended to run an economical assessment in order to anticipate prerequisites to national deployment

- Run the medico-economic assessment of IORT versus fractionated external beam radiotherapy (standard treatment)
- Define, implement and validate organisational procedures, radiation protection conditions, treatment protocols, etc.



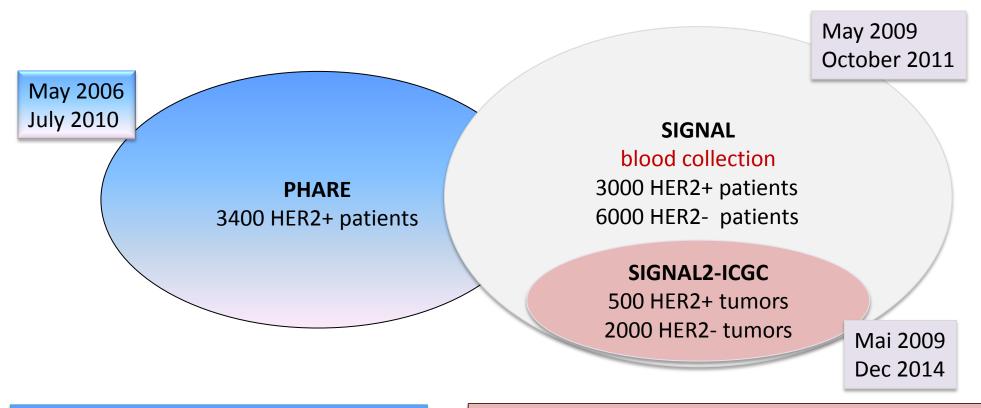
Targeted intraoperative radiotherapy (IORT) call for applications initiated in 2011

Rational : IORT advantages

- One-off radiation treatment at the time of surgery versus standard treatment (25 to 33 fractions)
- Better consideration for patients with limited access to radiotherapy (clinical dilemma for patients suitable for breast conserving surgery but unable to attend daily for up to 6 weeks for postoperative radiotherapy, that will face mastectomy)
- Optimized accuracy for surgical banks irradiation
- No additional ambulance required
- Assessment (in progress):
- 2M€ budget, prospective randomized assessment, 203 menopausal women aged 55 and older with invasive ductal carcinoma enrolled so far in 8 centers. Final conclusions expected for February 2014.



INCa-sponsored BC research program



- PHARE : Clinical trial comparing 6 mo vs 12 mo of trastuzumab
- 10 years follow-up

- SIGNAL : genetics study → SNP predictive for toxicity/relapse
- 5 years follow-up
- Epidemiological data & blood collection
- SIGNAL2-ICGC : somatic mutations catalog
- All above & tumor collection



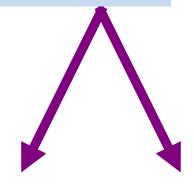
PHARE trial design





Activated: 30/05/2006

Randomization 3384 patients



- 4 patients excluded from analysis
 - 1 Informed consent not signed
 - 1 Randomized twice
 - 2 HER2 negative after FISH testing

Trastuzumab 6 months 1690 patients

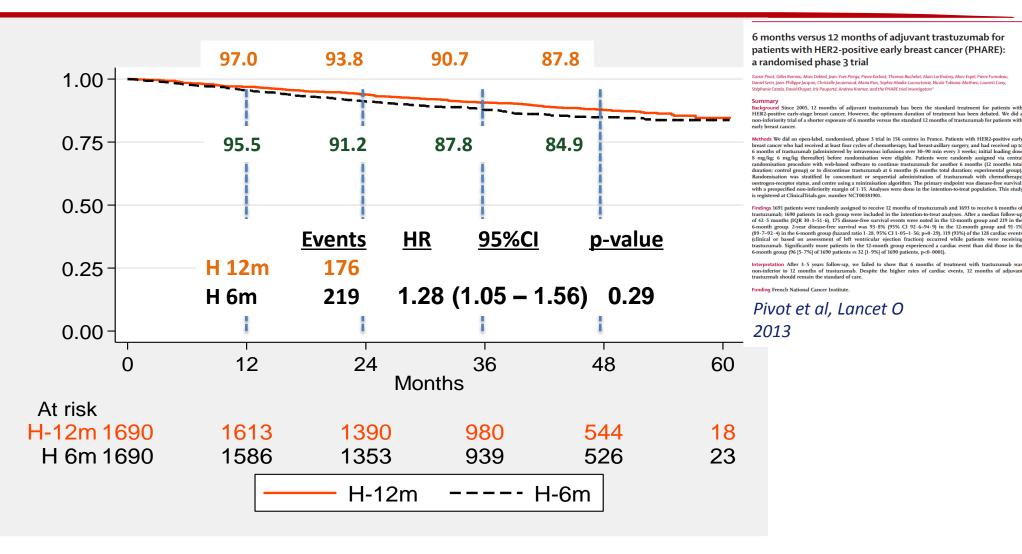
Trastuzumab 12 months 1690 patients

Closed: 09/07/2010 Database locked: 31/07/2012

- 156 investigation sites
- 350 investigators
- 100 study nurses

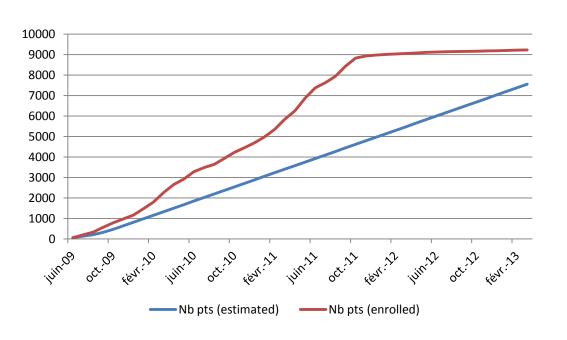


PHARE trial results (DFS)



> non-inferiority was not demonstrated; subgroup analysis to be published in 2014

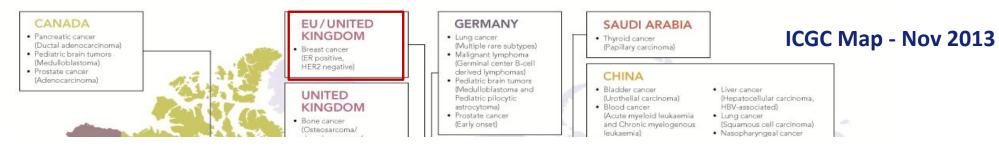




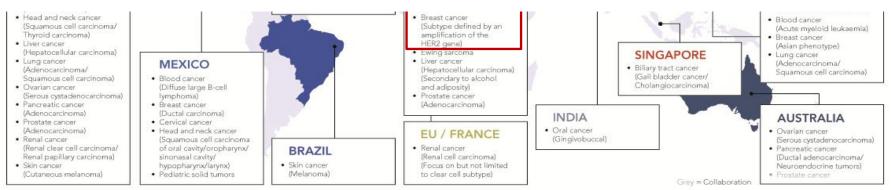
- 112 investigation sites
- > 9300 patients data & blood samples
- Genotyping started
- → First results in 2014







- 12 French centers participate: common procedures and biobank
- 700 BC samples in the common biobank
- 200 BC samples in the sequencing pipeline
- 50 HER2+ samples analysed → first results in 2014







	Nb projects	Funding (M€)
Education	9	0,71
PhDs	3	0,28
Post-PhDs	3	0,26
Translationnal Research for MDs	3	0,17
Clinical Research	54	21,59
Early phase trials network	1	0,6
Hospital Clinical Research Projects	48	16,86
Medico-Economics	5	4,13
Translationnal Research Projects	19	3,69
Patients' Care	15	3,1
Oncogenetics	7	1,3
Other	8	1,8
Basic Research	10	5,81
Projects	8	3,21
Networks	2	2,6
Human & Social Sciences	28	4,9
Epidemiology	17	2,99
Human Sciences	11	1,91
Patients' advocacy	7	0,15
Total	142	39,95

For clinical research:

- 11% of funded projects
- 14% of total funding







Integrated Actions Research Program Early Breast Cancer (2014)

- Early stage breast cancer: program launched in 2014
- **Improvement of the knowledge** of the natural course of the disease so as to reduce overdiagnosis and overtreatment
- Risk levels and screening: multidisciplinary approaches
- **De-escalation**: Biological, medical, socio-psychological and medico-economic evaluation of de-escalation of treatment using a unified multidisciplinary approach
- Life after cancer treatment: sociological, psychological, medical and economic aspects
 - → 42 projects submitted
 - → 18 retained for further evaluation
 - → Final results in June 2014





- INCa strategy is a global approach
 - Prevention
 - Screening
 - Good clinical practice (authorization of centers/ recommendations)
 - Patients information (transparency on overdiagnosis, overtreatment, radiation risks)
 - Clinical research (chemotherapy, radiotherapy)
 - Translational research
 - Fundamental research
 - Integrated research programme including social science
- To continue to increase the survival rate of women with breast cancer in France, to improve quality of life and decrease sequelaes

