

# A breast disease unit in a university general hospital

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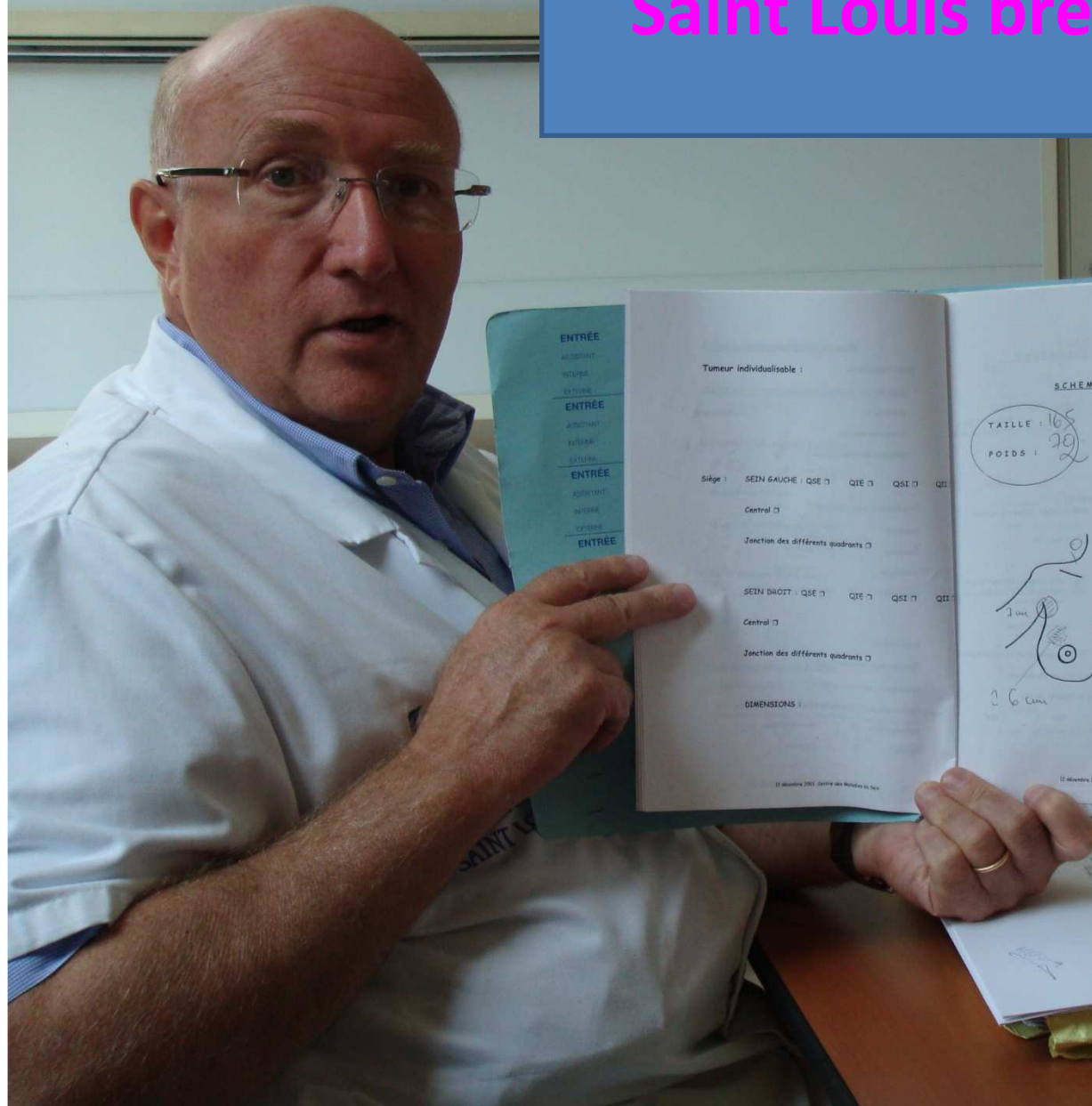
# Epidemiologic data



- 1.100.000 new cases / year in the world
- In France, 53 000 new cases of breast cancer /year
  - 45 000 infiltrative breast cancer
  - 8 000 in situ carcinoma



# Saint Louis breast disease unit



ENTRÉE  
ASSISTANT  
INTERNE  
EXTERNAL  
ENTRÉE  
ASSISTANT  
INTERNE  
EXTERNAL  
ENTRÉE  
ASSISTANT  
INTERNE  
EXTERNAL  
ENTRÉE

Tumeur individualisable :

SIEGE : SEIN GAUCHE : QSE  QIE  QSI  QEI   
Central   
Junction des différents quadrants

SEIN DROIT : QSE  QIE  QSI  QEI   
Central   
Junction des différents quadrants

DIMENSIONS :

SCHEMA DETAILLE

TAILLE : 16x  
POIDS : 2g

1 cm  
2 cm

11

# Epidemiologic data in Breast disease unit Saint Louis hospital



- 12626 clinics /year
- 850 new breast cancers/year
- 4499 chemotherapy sessions/ year



# Mission of the (a) breast disease unit



- **To take care of all breast diseases +++**
  - Breast pain
  - Benign lesions
  - High risk lesions
  - Breast cancer from in situ carcinoma to metastases....

# Saint louis breast disease unit

- **Structure of the unit**

- **Medical and paramedical staff: MULTIDISCIPLINARITY ++**

- Oncologists
- Gynecologists
- Radiation therapists
- Surgeons
- Pathologists

**Senologists**

- Psychologists
- Educators
- Nurses
- Physician therapists
- Dietiticians

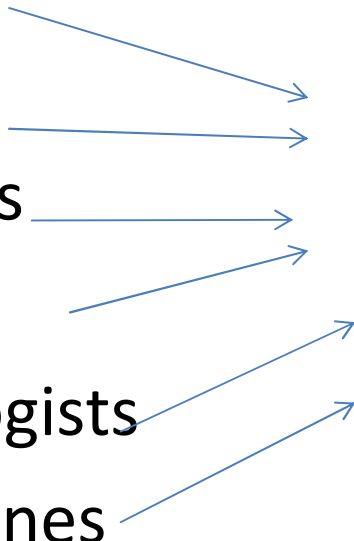
**But this is (or should be)  
the case of all breast  
disease unit**

**dedicated to  
breast diseases**

**What is the specificity of a breast disease unit located in a general university hospital?**

# Other medical specialities connecting with the breast disease unit

- Hematologists
- Immunologists
- Endocrinologists
- Dermatologists
- Gastro enterologists
- Internal medecines





# Original diseases in the breast with regard to specialities

- Lymphocytic mastopathy (in diabetics patients ..can simulate a cancer)



- Inflammatory mastitis

- Hematologic lesions of the breast (lymphoma, leukemia..)



- Intramammary metastases of other malignancies
- Paraneoplastic lesions revealing breast cancers generally metastatic breast cancers

# Inflammatory mastopathy

- A bad known disease.....
- The skin of the breast is red, inflammatory not a « peau d'orange », no lymph nodes
- Diagnosis to be eliminated:
  - The inflammatory breast cancer +++ (mammograms, ultrasound, biopsy)
- Surgery MUST NOT be done +++ as well as antibiotics
- A traumatism in the life of the patient is often, always....found.....

# A better understanding and management of complications of cancer treatments... (1)

## MULDISCIPLINARITY

- Renal complications: proteinuria, high blood pressure (bevasuzimab) ...
- Digestive complications (diarrhea mucositis....)
- Cardiologic complications (anthracyclins, herceptin....)
- Gynecologists and specialists of reproductive medicine

# A better understanding and management of complications of cancer treatments... (2)

## Dermatologic complications (targeted therapy)

- **Cutaneous toxicity with tyrosine kinase inhibitors**



- **Cutaneous toxicity with capecitabine**

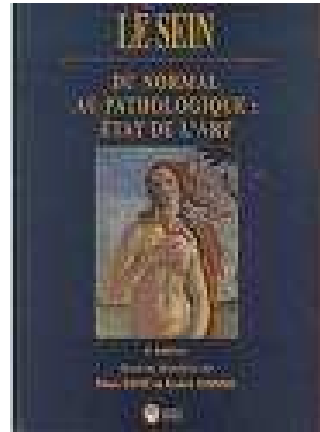


FIGURE 2. Hand-foot skin toxicity is seen on the foot.  
Patient was given capecitabine 1250 mg bid for 14 days. A skin reaction  
developed on the foot.



- **Cutaneous toxicity with Docetaxel**





# Education, one of the mission of a breast disease unit in a university hospital



**Research**

# Breast teaching

- A university formation focused on **breast** from theoretical teaching
  - Normal breast .....to
  - Benign lesions..... to
  - Malignant tumors
- with a stage in our breast disease unit, oral and written exam and thesis
- Attending during 12 days by
  - Medical Students, Oncologists, Surgeons
  - Gynecologists
  - Radiologists
  - Radiotherapists

# Clinical research, accademic research

- Data base of 5000 patients non palpable lesions reviewed by a staff of senologists radiologists (1)
- Research on fertility after chemotherapy in young women (OBAMA protocol), prospective data on the value of AMH as a fertility predictor
- Dose dense in locally advanced and inflammatory breast cancers and high lymph nodes involvement  $> 4$  (SIM protocol) (2, 3)
- Infiltrative recurrences in situ carcinoma (data base of 500 in situ)
- Pet scan role in response of neoadjuvant chemo (4)

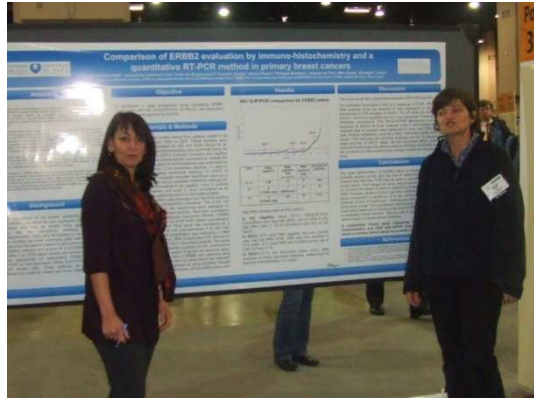


(1) Anne sophie Hamy et al: SABCS, 2009, in press

(2) Caroline Cuvier SABC 2010,

(3) Sylvie Giacchetti SABC 2010, (4) Groheux D, Giacchetti S, Eur J Nucl Med Mol Imaging. 2010





# Translational research

Could and must be done ...and is feasible in a breast disease unit in a general hospital

# A tumor bank since 20 years...

- Since 1990, a tumor bank is built which allowed retrospective clinical studies with translational studies

Role of P53 in breast cancer was determined from frozen tissue of locally advanced and inflammatory breast cancers.

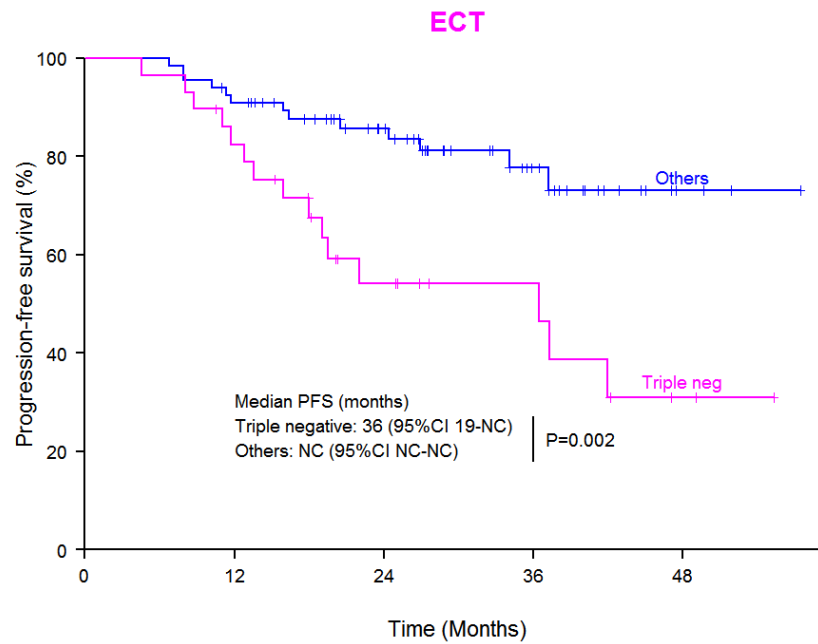
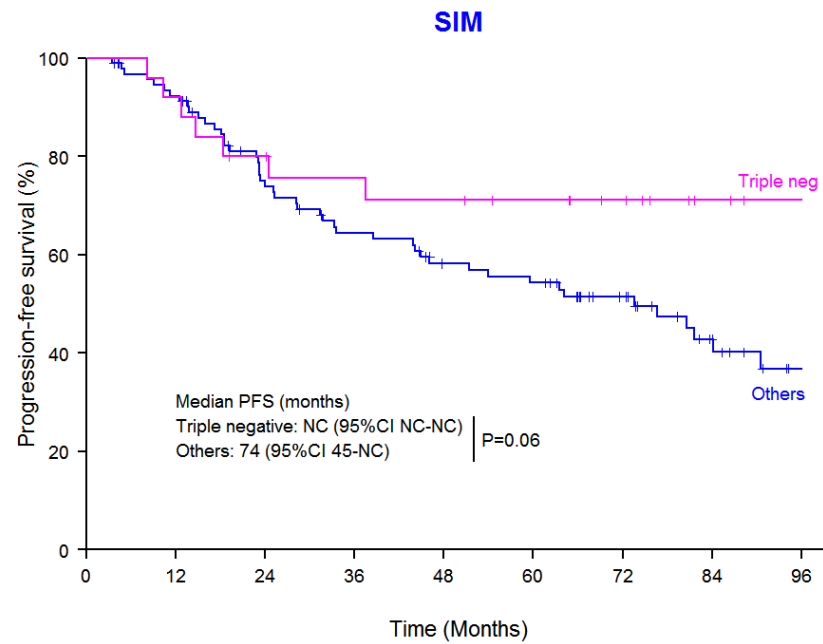
We showed that p53 is a key predictive factor for response to dose dense chemotherapy (1) ++

## Dose dense chemotherapy in locally advanced and inflammatory cancers

- We looked at two preoperative chemotherapy that we used in our institution during two periods of time. One is a dose dense regimen the other one is a taxane containing regimen

	<b>1990-2003</b>	<b>2003-2010</b>
Patients number	<b>194</b>	<b>202</b>
Treatment	<p style="text-align: center;"><b>SIM Regimen</b></p> <ul style="list-style-type: none"> <li>- Cyclophosphamide : 1.2g/m<sup>2</sup> d1</li> <li>- Epirubicin 75mg/m<sup>2</sup>d1</li> <li>- q2w, 6 cycles</li> </ul>	<p style="text-align: center;"><b>ECT regimen</b></p> <ul style="list-style-type: none"> <li>- Cyclophosphamide 750mg/m<sup>2</sup> d1</li> <li>- Epirubicin 75mg/m<sup>2</sup> d1, 4c</li> <li>-Followed by 4c of docetaxel 100mg/m<sup>2</sup></li> <li>-Q3w, 8 cycles</li> </ul>

# Disease free survival in triple negative tumors



*S. Giacchetti et al SABC 2008, 2010; in press*

**Identification of a new molecular  
subgroup of breast cancer: Molecular  
apocrine carcinoma**

Overexpression of androgen receptor gene

# Conclusion

- Breast disease units in a general university hospital
  - Is a valid structure, with different missions
    - Taking care of ...breast diseases.
    - Teaching
    - Research

**But there are difficulties...**

**Breast an unknown organ..**

**Breast to be considered as an organ apart in full.....is a difficult understanding for others doctors**

**Yet or because**

**Breast is an organ of**

**Life**

**And thus could no be an organ of disease.....**

Merci.....for your attention.



A typical french breast disease unit