

One-Stop Clinic for Breast Cancer

Accelerating access to diagnosis & treatment



Disclosures

Presenter has the following disclosure:

Employed by GE Healthcare

Objectives

To discuss access as a critical component of addressing disparities in women's health, as illustrated by the example of the "One-Stop Clinic for Breast Cancer"

Delays in diagnosis and treatment

The **low survival rates** in developing countries are explained by **scarcity of early detection programs**, resulting in a high proportion of women presenting with **late-stage disease at diagnosis**, along with the **lack of adequate diagnosis** and treatment facilities.¹

Breast Cancer: Basic and Clinical Research

[Monica M. Rivera-Franco](#) and [Eucario Leon-Rodriguez](#) **Breast Cancer**

Journal of Breast Cancer. 2018; 12: 1178223417752677

Breast Cancer stages and survival rates at diagnosis



BREAST CANCER STAGES

1

Stage 0 and 1:

If the cancer is detected at this time, chances of survival are between 95 and 100 per cent

2

Stage 2:

The cancer is still in the earlier stages, but there is evidence that the cancer has begun to grow or spread

3

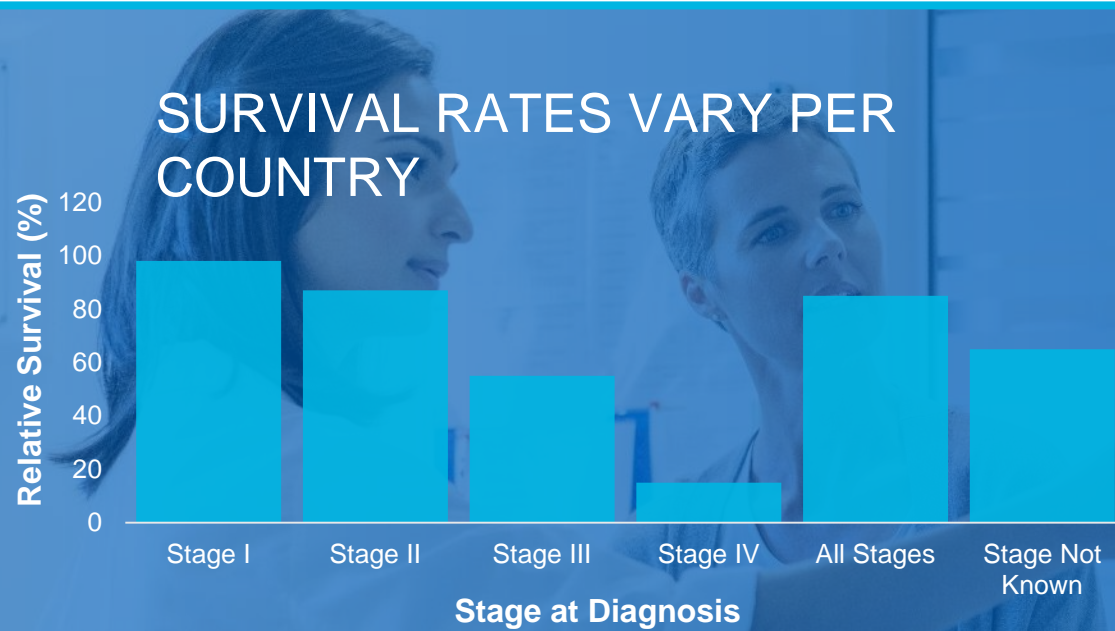
Stage 3:

The cancer is considered advanced with evidence of it invading surrounding tissues near the breast

4

Stage 4:

This stage indicates that cancer has spread beyond the breast to other areas of the body



Breast Cancer (C50), Five-Year Relative Survival by Stage, Women (Aged 15-99 Years), Former Anglia Cancer Network, 2002-2006

According to the current report, the risk that a woman will be diagnosed with breast cancer during the next 10 years, starting at the following ages, is as follows:

- Age 30 0.44 percent (or 1 in 227)
- Age 40 1.47 percent (or 1 in 68)
- Age 50 2.38 percent (or 1 in 42)
- Age 60 3.56 percent (or 1 in 28)
- Age 70 3.82 percent (or 1 in 26)

National Cancer Institute : SEER database, 2007-2009
USA

Gustave Roussy



The premier European Cancer Centre – Villejuif France.
Centre for patient care, research and teaching, and patients
with all types of cancer.

The first dedicated One Stop Clinic for Breast Cancer in
France

3500

Employees

545

Doctors

1400

Nursing
Staff

450

Researcher
s

One Stop Clinic for Breast Cancer

© 2019 General Electric Company - All rights reserved

One Stop Clinic for Breast Cancer



Diagnostic Breast Cancer Clinic for women with signs or symptoms of Breast Cancer.

Designed by Dr. S. Delaloge and team in 2004 to receive women from the French screening program.

Organized and efficient care pathway that fosters same day diagnosis

19,000 women have been treated at the clinic since 2004

Collaboration

- GE Healthcare sponsored the data mining of the breast clinic in 2012
- The analysis confirmed the clinic diagnosed 75% of patients the same day
- **Oxford Analytica** confirmed Gustave Roussy's findings
- One Stop Clinic breast study published in **European Journal of Cancer** 2016

HIGHLY ACCURATE DIAGNOSES

97%
sensitivity

99.7%
Specificity

REDUCED UNNECESSARY BIOPSIES AND SURGERIES

Biopsies avoided
in **10%**

Of all patients who
underwent Contrast
Enhanced Spectral
Mammography
(CESM)**

1. The challenge of rapid diagnosis in oncology: Diagnostic accuracy and cost analysis of a large-scale one-stop breast clinic European Journal of Cancer 66 (2016) 131e137

One Stop Clinic for Breast Cancer

CLINIC OBJECTIVES

- Improve quality of diagnoses
- Reduce time intervals to render diagnoses
- Lower costs of the complete procedures
- Improve patients' satisfaction
- Improve pain management
- Reduce patients' anxiety
- Improve patients' information for recalls

Patients' Care Pathway

Appointment

Suspect lesion/No diagnosis



Welcome/Consultation

Clinical examination + explanation of
diagnosis pathway



Diagnosis Examination

Mammography/Ultrasound/FNA/Biopsy



Diagnosis + Choice of Treatment

Multidisciplinary Consultation



Disclosure of diagnosis +
Presentation of treatment plan

Clinical Triage of Patients

- Patients referred to breast center for suspect lesions (BI-RADS 3,4,5)
- All patients with solid tumors receive FNA to rule out benign lesions and detect malignancy
- Microcalcifications are biopsied with sterotaxy and those patients receive a diagnosis on another day during the week
- Malignant patients have core biopsies at lumpectomy or surgery

MULTIDISCIPLINARY TEAM MEMBERS



3 Radiologists
1 Breast Surgeon
1 Oncologist
1 Cytologist
1 coordination nurse

1 pathology technician
1,2 nurse
1,5 imaging technician
1 person to welcome patients
3 medical assistants

Published Results

CLINICAL AND ECONOMIC OUTCOMES

- 75% of patients have their results on the same day¹
- 96% of FNA patients were able to leave with a diagnosis the same day
- Sensitivity 97,2% and specificity: 99,7% ¹
- Biopsies avoided in 10% of all patients who underwent a CESM¹
- Up to 50% reduced total cost per patient for benign cases and by 33% of costs for malignant cases¹

- **Patients very satisfied with the one-day diagnosis¹**

1. The challenge of rapid diagnosis in oncology: Diagnostic accuracy and cost analysis of a large-scale one-stop breast clinic European Journal of Cancer 66 (2016) 1316-1327



One Stop Clinic for Breast Cancer

IDENTIFICATION OF PILOT SITES

Gustave Roussy and GE Healthcare developed a partnership

Set up pilot clinics in countries that would benefit the most from diagnosis in the same day.

GE evaluated pilot sites:

- Colombia
- Mexico
- Algeria
- Kenya
- USA
- China

MEDELLIN

- Screening population of 123,000 women
- Serve 62% of screening population
- Projected 5000 patients with BIRADS 4 and 5

1. The challenge of rapid diagnosis in oncology: Diagnostic accuracy and cost analysis of a large-scale one-stop breast clinic European Journal of Cancer 66 (2016) 131e137

One Stop Clinic for Breast Cancer

© 2019 General Electric Company - All rights reserved

One Stop Clinic adapted to Medellin, Colombia

Share

GE AND
SURA

Feb 2016

Assessment of the sites and carepathways with Multidisciplinary Team

Project teams at

- Dinamica
- Gustave Roussy
- GE Healthcare

Co-Create

GUSTAVE
ROUSSY

Mar 2017

Gustave Roussy visit Medellin to meet the team and assess clinics.



Pivot

SURA

Jun 2017

Visit of multidisciplinary team from Medellin to meet Gustave Roussy team.

Training on organizational and clinical algorithms.

Implement

SURA

2018-2019

One Stop Clinic opens at the INCODOL hospital

Multidisciplinary team

- 4 Days a week
- 17pts per day
- 4 defined care pathways
- 4 clinics

Sura – Tiempo Para Ti

« Time For You »

4 CAREPATHWAYS

Asymptomatic

FU
BIRADS
3

FU BIRADS
4&5

Surveillance

- **Patients** 15 per day
- **Staff** Nurse – radiologist – pathologist, mastologist – healthcare personnel
- **Education** GPs training via webex
Telemarketing to patients
Dedicated web site
- **Cost** 7-30\$ HMO subsidizes 80% of the co-pay

101,972 Patients in the Program

4694 diagnostic patients

4247 negative Findings

447 positive Findings



Results from **EPS Sura**, Medellín, Colombia

Pre Program Country Data:

Average time between suspicious lesions and diagnosis :

65 days

High-Risk Diagnostic site
(BIRAD 4B, 4C, 5)

2 days

Low-Risk Diagnostic site
(BIRAD 4A)

5 days

PROGRAM BY THE NUMBERS

Total Women 101,972	Total Men 26
Screening 78,217	Diagnosis 4694
Positive 447 / 9.5%	Negative 4247 / 90.4%
In Situ 99 / 22%	Surveillance 4915 / 4.8%



Learnings & Next Steps

- Assessment of the pilot sites. **Follow the patient journey**
- Clinical pathways are **reasonable and achievable**
- Training needs - **make everyone feel comfortable**
- Stakeholder buy in and lock down with contracts
- **Small and skilled** project team
- Run the project like a business
- Financial support and governance
- **Be ready to pivot** if you face barriers
- **Embrace diplomacy and empathy**

Designing a One Stop Clinic for the United States

GE Healthcare's Oncology Solutions



**FOSTERING BEST PRACTICES
BETWEEN INSTITUTIONS TO IMPROVE
ACCESS TO DIAGNOSIS AND
TREATMENT**

How to earn CE credit

If you would like to earn continuing education credit for this activity, please visit:

<http://amsus.cds.pesgce.com>

Hurry, CE Certificates will only be available for 30 Days after this event!

