



C.A.R.E

## Login to C.A.R.E

A prediction tool for breast cancer patients

As Doctor

As Nurse

As Admin

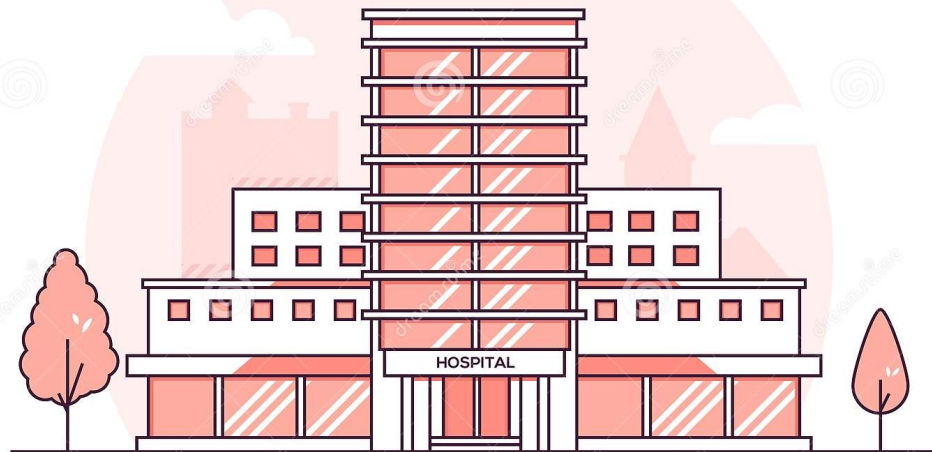


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19 December 2019, 8:30 AM



Dr. Lim Ah Beng

Logout



Overview



Predict



## Welcome, Dr. Lim Ah Beng

Before we begin, please enter the  
current patient's ID:

Go



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Cost



Survival



Jean Tan

Gender Female

Current Age 30

Age Diagnosed 30

Language English

Diagnosis Stage 1A  
Triple-Negative

Affected Breast Left

Allergies None

General

Dashboard

## PERSONAL DETAILS

Last name  
Viscaal

First name  
Viscaal

Salutation  
—

Birthdate  
03/03/1995

Address  
83 Mile Drive, Los Angeles, CA

Phone number  
289-367-2697

Email  
kuhn\_kaleb@king.info

### Patient Info

Full name: Jean Tan

DOB: 15 March 1989 (30)

Gender: Female

Date Diagnosed: 11 November 2018 (30 days)

Next Appointment Date: 2 January 2020

Current Medical Conditions: None

Last Breast Screening: 11 December 2019



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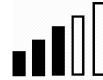
Miss Jean Tan

Gender	Female
Current Age	30
Age Diagnosed	30
Language	English
Diagnosis	Stage 1A Triple-Negative
Affected Breast	Left
Allergies	None

General

Dashboard

Stage



Progress



Biopsy

Treatment



Not started

Top Treatment Options (By Age, Gender, Stage)



1. Chemotherapy
2. Hormonal Therapy
3. Mastectomy

Recommended Next Step:



Surgery



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## C.A.R.E Survival Prediction Calculator

Age Diagnosed



30

Post Menopausal?



Yes

No

ER status



Positive

Negative

Unknown

PR status



HER2 status



Main Tumor Size  
(mm)



Tumour Stage



Node Stage



Metastasis Stage



Submit

Reset



*Treatment options and results will appear here when you have filled in all the information needed above.*

buttons

b

b



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Dr. Lim Ah Beng



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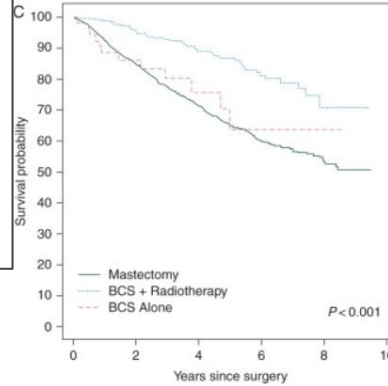
## Treatment Options

Hormone Therapy	<input type="checkbox"/> No <input type="checkbox"/> Yes
Hormone (endocrine) therapy Available when ER-status is positive	
Chemotherapy	<input type="checkbox"/> None <input type="checkbox"/> 2nd gen <input type="checkbox"/> 3rd gen
Trastuzumab (eg. Herceptin)	<input type="checkbox"/> No <input type="checkbox"/> Yes
Available with chemotherapy when HER2 status is positive	
Bisphosphonates	<input type="checkbox"/> No <input type="checkbox"/> Yes
Available for post-menopausal women	

## Kaplan-Meier

Overall  
Survival

Patient  
Summary



Based on the Kaplan-Meier Survival Chart, Patient Ms. Jean Tan has a **90%** survivability rate for the next    years if she does **surgery only**.



Help



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Dr. Lim Ah Beng



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Overview



Predict



Cost

Survival

## Treatment Options

Hormone  
Therapy



No Yes

Hormone (endocrine) therapy  
Available when ER-status is positive

Chemotherapy



None 2nd gen 3rd gen

Trastuzumab  
(eg. Herceptin)



No Yes

Available with chemotherapy when HER2 status is positive

Bisphosphonates



No Yes

Available for post-menopausal women

Kaplan-Meier

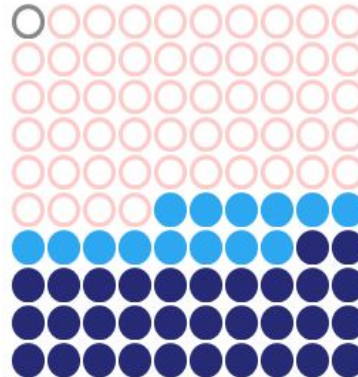
Overall  
Survival

Patient  
Summary



1 out of 8 women had an  
**increase of at least 5%**  
in survivability rate after  
doing **Chemotherapy**

In a sample of 100 women,



- 1 deaths due to other causes
- 53 breast cancer related deaths
- 14 extra survivors due to hormone therapy
- 32 survivors with surgery alone



Help



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19 December 2019, 12:30 PM



Mr. John Lee



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Overview



Predict



Cost

Survival



Help



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## C.A.R.E Cost Prediction Calculator

Select Treatment Options:

Hormone  
Therapy



No Yes

Hormone (endocrine) therapy  
Available when ER-status is positive

Chemotherapy



None 2nd gen 3rd gen

Trastuzumab  
(eg. Herceptin)



No Yes

Available with chemotherapy when HER2 status is positive

Bisphosphonates



No Yes

Available for post-menopausal women

Surgery  
Type

Lumpectomy  
Mastectomy  
None

TNM Stage

Preferred  
Ward

Monthly  
Household  
Income

Submit

Reset





Overview



Predict 

Cost

Survival

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Mr. John Lee

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### Treatment(s) Selected:

Surgery (Lumpectomy)  
Chemotherapy  
Hormonal Therapy

Treatment	Average Cost in <div>51015</div> yrs
Lumpectomy	SGD1,200
Chemotherapy	SGD5,234
Hormonal Therapy	SGD5,001
Hospital Stay (Ward B)	SGD800
<b>Total</b>	

Recommendation based on finances:

Treatment	Cost Now
Lumpectomy	SGD1,200
<b>Total</b>	SGD1,200



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Cost

Survival

1 IN 14 WOMEN WILL DEVELOP  
**BREAST CANCER**  
BEFORE THE AGE OF 75<sup>1</sup>



Breast Cancer is the most common cancer among women in Singapore. Each year, about 1,930 women are newly diagnosed with Breast Cancer, and about 420 die from the disease<sup>2</sup>. The chances of surviving Breast Cancer increase with early detection.



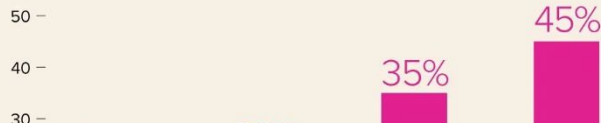
36%

of female breast cancer patients reported losing their job or being unable to continue working in 2017.



Percentage of women

who reported spending less on food due to financial difficulty following treatment for early stage breast cancer:



Avg Cost of Treatment over the years

Predicted Costs of Breast Cancer Treatments (1,2,5,10 Yrs)



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Summary



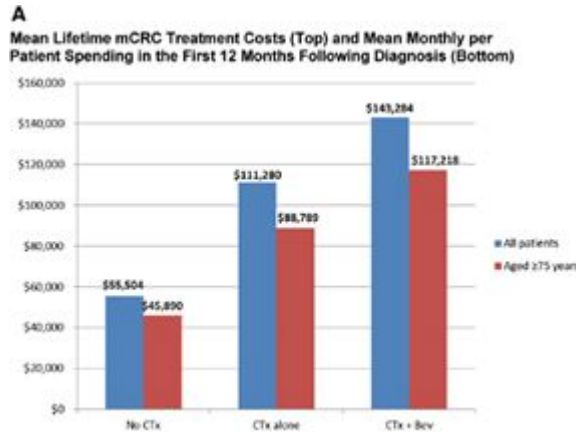
Predict ▼

Population Distribution of Breast Cancer

Mean/Median/Mode Age of getting diagnosed with Breast Cancer

Breast Cancer is the leading cause of death in women

Prediction Model Accuracy, Precision, R...



FILTERS LIKE  
TABLEAU



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C.A.R.E

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Charts:

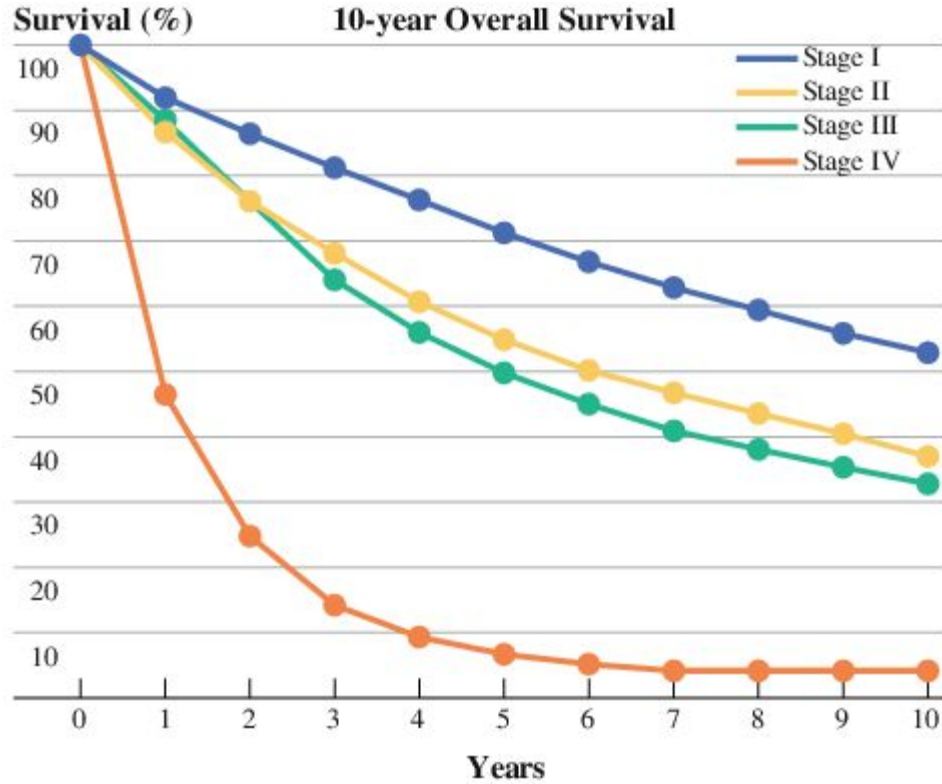
Kaplan Meier Estimate

Bar Chart - 5 yrs, 10 yrs estimate

Avg total cost if undergo surgery/chemo/radio

Avg component cost

Hide and show path options



Median age (range)	67 (14–107)
Female sex	18,278 (43%)
Race	
White	35,332 (82%)
African American	3,350 (8%)
Native American/Alaskan	281 (< 1%)
Asian/Pacific Islander	3,673 (9%)
Other/unknown	194 (< 1%)
Stage	
I	17,922 (42%)
II	9,309 (22%)
III	9,073 (21%)
IV	6,526 (15%)