The Pink Ribbon Analysis

For nearly 40 years, countries have recognized October as National Breast Cancer Awareness Month. This is the time we dedicate each year to educating everyone about breast cancer, including metastatic breast cancer (MBC), and the importance of early detection and access to timely, quality care.

Navigation - Hover over each data points on the dashboard for exact values.

Breast Cancer Awareness Month, which is observed in October, aims to raise public awareness of the condition.

The objective is to engage as many individuals as possible in the effort to increase awareness and financial support for life-saving research and supportive services.

Total Death Count	Total Recovery Count	Total Under Treatment Count
598	**186**	**350**
In her lifetime, 1 in 7 women will be diagnosed with breast cancer.	Due to advancements in screening, detection, and treatment, over 3.5 million survivors of breast cancer are alive today.	Over the course of their lives, 1 in 8 American women and 1 in 833 American males will acquire invasive breast cancer.

Patient Status based on surgery (2017-2019)

Patient Status: ALIVE — 46 → 118 → 91
Success rate of surgeries in the year 2018 was 79.27%
Patient Status: DEAD — 12 → 30 → 24

Patient Status count based on the Tumor Type

Histology

Infiltrating Ductal Carcinoma — 47 / 179
Infiltrating Lobular Carcinoma — 16 / 67
Mucinous Carcinoma — 3 / 9

Patient Status: ALIVE
Patient Status: DEAD

Infiltrating Lobular Carcinoma breast cancer might be challenging as ILC cells can develop into lines instead of clumps or masses. According to the dataset, Infiltrating Lobular Carcinoma tumor patients still have a lower mortality rate of 19.27%

Condition of the patient based on Tumor type & Marital Status

Condition Count: 21 — 297

Benign Malignant Cancer	Condition	Married	Single
Benign	Death	123	38
	Recovered	63	21
	Under Treatment	133	58
Malignant	Death	297	139
	Recovered	79	22
	Under Treatment	104	54

Marital Status is an important factor for an oncologist for diagnosis. As per the data, Married patients are at higher risk of Malignant Breast Tumor

Patient Status based on Tumor Type & Tumor Stage

Histology	Tumour Stage	Patient Status	Count
Infiltrating Ductal Carcinoma	I	Alive	39
		Dead	9
	II	Alive	94
		Dead	27
	III	Alive	46
		Dead	11
Infiltrating Lobular Carcinoma	I	Alive	9
		Dead	1
	II	Alive	44
		Dead	8
	III	Alive	14
		Dead	7
Mucinous Carcinoma	I	Alive	3
	II	Alive	6
		Dead	3

Count of Patient Status

Analysis of Tumor based on Age & Gender

FEMALE / MALE
Infiltrating Ductal Carcinoma, Infiltrating Lobular Carcinoma, Mucinous Carcinoma

Gender Analysis for Cancer type versus the condition of the patient

Gender	Benign Malignant Cancer	Condition	Count
Female	Benign	Death	115
		Recovered	64
		Under Treatment	156
	Malignant	Death	309
		Recovered	79
		Under Treatment	114
Male	Benign	Death	46
		Recovered	20
		Under Treatment	35
	Malignant	Death	127
		Recovered	22
		Under Treatment	44

Count of Condition

Breast Cancer is not only limited to females, but males are also prone to this risk. As evident from the data, females with Malignant tumor have higher death rate. Similarly, if compared with female patient data, male patients with Malignant tumor have 41.1% death rate.

Patient lifestyle factors mentioned in the value switcher are vital symptoms for breast cancer detection and treatment. The CANCER TYPE ANALYSIS graph explains the severity of each factor affecting the condition of the patient.

Value Switcher
Alcohol

Death rate in the State
(Rate per 100,000 Population, 2007-2013)

Total Breast Cancer Rate: 17.4 — 31.8

More than 10% of new cases of cancer and about 7% of cancer related fatalities in 2020 were due to breast cancer.

Highest death rate in Pennsylvania

Total Breast Cancer Rate 17.4 to 31.8

(Move the slider for lowest and highest breast cancer range in the state)

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Cancer Type Analysis & Condition of patients based on different factors
(For specific analysis, choose the parameters from dropdown)

Benign Malignant Cancer / Condition

Benign:
Death — No 96, Yes 65
Recovered — No 56
Under Treatment — Yes 87

Malignant:
Death — No 295, Yes 141
Recovered — No 104, No 68
Under Treatment — No 81, Yes 77

Count of Condition

Surgery Type Analysis for Histology and Patient Status

Surgery Type Count: 1 — 49

Patient Status	Surgery type	Infiltrating Ductal Carcinoma	Infiltrating Lobular Carcinoma	Mucinous Carcinoma
Alive	Lumpectomy	42	12	3
	Modified Radical Mastectomy	49	19	4
	Other	49	24	
	Simple Mastectomy	39	12	2
Dead	Lumpectomy	6	1	2
	Modified Radical Mastectomy	13	6	1
	Other	18	7	
	Simple Mastectomy	10	2	

Menopausal Age Analysis for Cancer Type

Benign Malignant Cancer	Condition	Menopausal Age	Count
Benign	Death	Above age 50	3
		Does not start	152
		Under age 50	5
	Recovered	Above age 50	5
		Does not start	76
		Under age 50	3
	Under Treatment	Above age 50	4
		Does not start	175
		Under age 50	11
Malignant	Death	Above age 50	8
		Does not start	410
		Under age 50	18
	Recovered	Above age 50	8
		Does not start	80
		Under age 50	13
	Under Treatment	Above age 50	8
		Does not start	144
		Under age 50	6

Count of Condition

People from around the globe show their support for all those impacted by Breast Cancer every October. About 264,000 women are diagnosed with breast cancer in the US each year, and 42,000 of them die from it. Although uncommon, breast cancer can also affect men. A guy is the victim of breast cancer in about 1 in 100 cases detected in the US.

Breast cancer can affect anyone, regardless of identity or location. Understanding the breast cancer warning signs, your personal risk for developing breast cancer, and what is typical for you may help you react quickly if you see any changes in your breast or underarm tissue.

You can reduce your breast cancer risk by leading a healthy lifestyle. Keep a healthy weight, abstain from drinking as much, and exercise frequently. Regarding your general health and chance of contracting a sickness, everything is important!

These figures serve as a reminder that we still have a significant amount of work to do—more than we can finish in a single month.