

## Breast Cancer Surgery in Pennsylvania

October 2018

This research brief looks at patients age 18 and older who underwent breast cancer surgery in a Pennsylvania general acute care hospital or ambulatory surgery center from calendar years 2008 to 2017, with emphasis on the most recent year of data, 2017.

Breast cancer surgeries are defined as a record with a breast cancer diagnosis and a procedure for either full removal of the breast tissue, mastectomy, or partial removal of the breast tissue, lumpectomy.

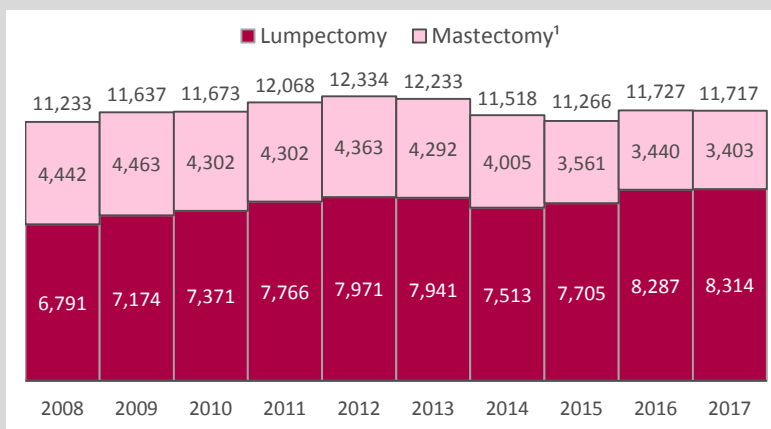


The total number of breast cancer surgeries performed in Pennsylvania has stayed relatively consistent from 11,233 in 2008 to 11,717 in 2017.

In 2017, 71.0% of the breast cancer surgeries were lumpectomies, compared to 60.5% in 2008.

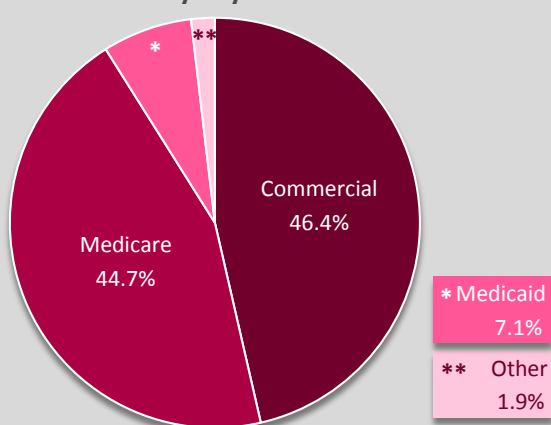
*<sup>1</sup>Includes a small number of breast cancer surgery cases (ranging from 31-55 cases each year) in which both lumpectomy and mastectomy were performed.*

Number of Breast Cancer Surgeries, 2008-2017



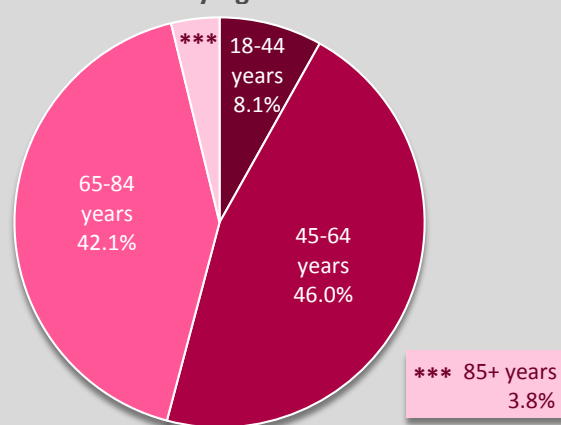
- There were **11,717** breast cancer surgeries in Pennsylvania in 2017.
- 93.7% of the patients (10,973) were Pennsylvania residents.
- 99.2% of the patients were female (11,627), and 0.8% (90) were male.
- 97.8% of all lumpectomy surgeries (8,129 out of 8,314) and 48.6% of all mastectomy surgeries (1,655 out of 3,403) were performed in an outpatient setting.

By Payer

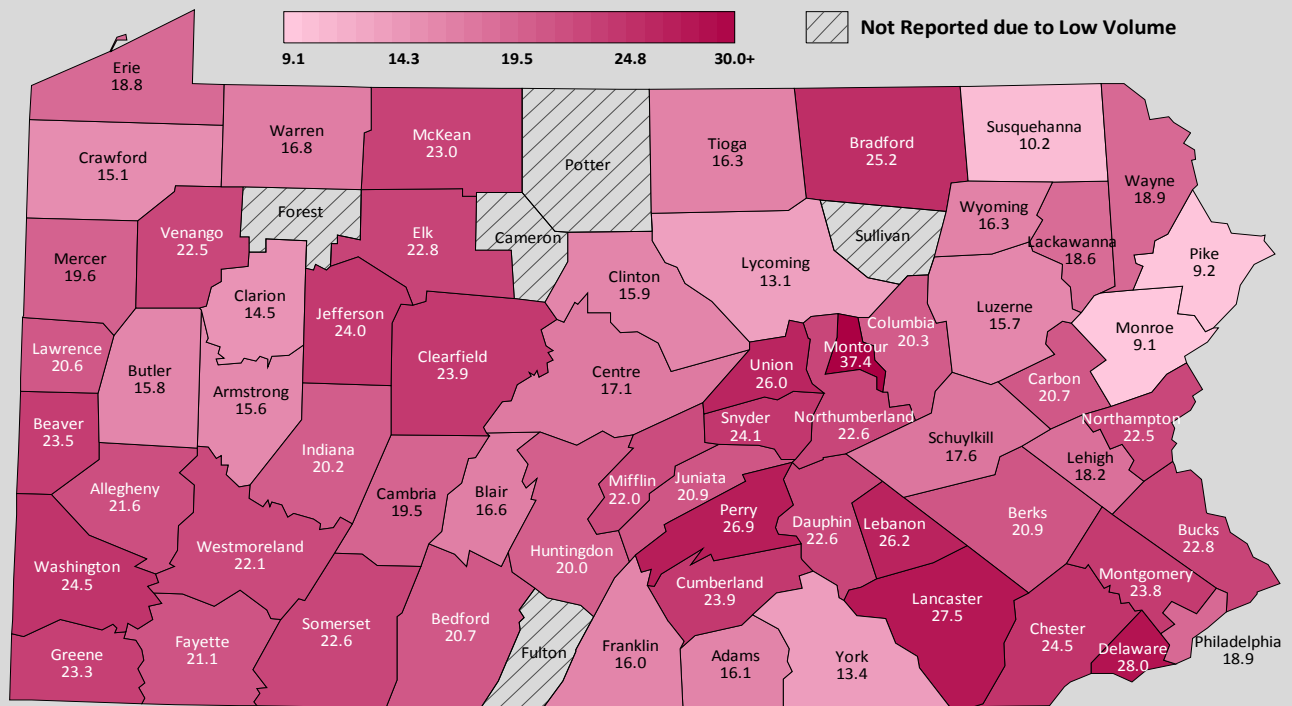


Breast Cancer Surgeries, 2017

By Age



## Breast Cancer Surgery Rates per 10,000 Female County Residents, 2017



Statewide, there were 20.8 breast cancer surgeries performed per 10,000 female residents in 2017.

- **By Age.** The rates for female residents aged 18-44 years, 45-64 years, 65-84 years and 85 years or older were 4.1, 27.9, 43.1, and 19.3, respectively.
- **By Poverty.** The rates were 13.7 for female residents living in high poverty areas (where 40% or more of the population lives in poverty) and 23.6 for female residents living in low poverty areas (where less than 10% of the population lives in poverty).
- **By Race/Ethnicity.** The rates for black (non-Hispanic), white (non-Hispanic), and Hispanic female residents were 19.8, 22.3, and 7.3, respectively.

**Rate Calculations:** Rates above included female residents age 18 and older and were calculated using PHC4 data and US Census Bureau data. Higher rates for some counties might be dependent on larger numbers of residents with high risk characteristics (e.g., age). County rates were not adjusted for these population differences so that important effects of these patient characteristics were not masked by such adjustment. Rates by poverty were based on Census 2016 estimates of poverty and population at the zip code level. The remainder of the rates above relied on Census 2017 population estimates at the county or state level.

### About PHC4

Created by the PA General Assembly in 1986, the PA Health Care Cost Containment Council (PHC4) is an independent state agency charged with collecting, analyzing and reporting information that can be used to improve the quality and restrain the cost of health care in the state. PHC4 is governed by a 25-member board of directors, representing business, labor, consumers, health care providers, insurers and state government.

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## Breast Cancer Surgery Rates per 10,000 Female County Residents, 2017

County Name	Number of Breast Cancer Surgeries	Rate per 10,000 Female Residents
<b>Statewide</b>	<b>10,887</b>	<b>20.8</b>
Adams	67	16.1
Allegheny	1,119	21.6
Armstrong	42	15.6
Beaver	164	23.5
Bedford	41	20.7
Berks	347	20.9
Blair	84	16.6
Bradford	61	25.2
Bucks	588	22.8
Butler	120	15.8
Cambria	107	19.5
Cameron	NR	NR
Carbon	54	20.7
Centre	107	17.1
Chester	502	24.5
Clarion	23	14.5
Clearfield	74	23.9
Clinton	25	15.9
Columbia	56	20.3
Crawford	53	15.1
Cumberland	241	23.9
Dauphin	253	22.6
Delaware	648	28.0
Elk	28	22.8
Erie	206	18.8
Fayette	114	21.1
Forest	NR	NR
Franklin	99	16.0
Fulton	NR	NR
Greene	33	23.3
Huntingdon	34	20.0
Indiana	69	20.2
Jefferson	42	24.0

County Name	Number of Breast Cancer Surgeries	Rate per 10,000 Female Residents
Juniata	20	20.9
Lackawanna	163	18.6
Lancaster	588	27.5
Lawrence	75	20.6
Lebanon	146	26.2
Lehigh	267	18.2
Luzerne	204	15.7
Lycoming	61	13.1
McKean	37	23.0
Mercer	90	19.6
Mifflin	41	22.0
Monroe	62	9.1
Montgomery	801	23.8
Montour	29	37.4
Northampton	279	22.5
Northumberland	84	22.6
Perry	49	26.9
Philadelphia	1,249	18.9
Pike	21	9.2
Potter	NR	NR
Schuylkill	99	17.6
Snyder	39	24.1
Somerset	66	22.6
Sullivan	NR	NR
Susquehanna	17	10.2
Tioga	27	16.3
Union	42	26.0
Venango	48	22.5
Warren	27	16.8
Washington	210	24.5
Wayne	38	18.9
Westmoreland	329	22.1
Wyoming	18	16.3
York	239	13.4

NR: Not reported. Fewer than 10 breast cancer surgeries in 2017.