ANALYSIS OF
Cancer
in Oklahoma's SoonerCare Program

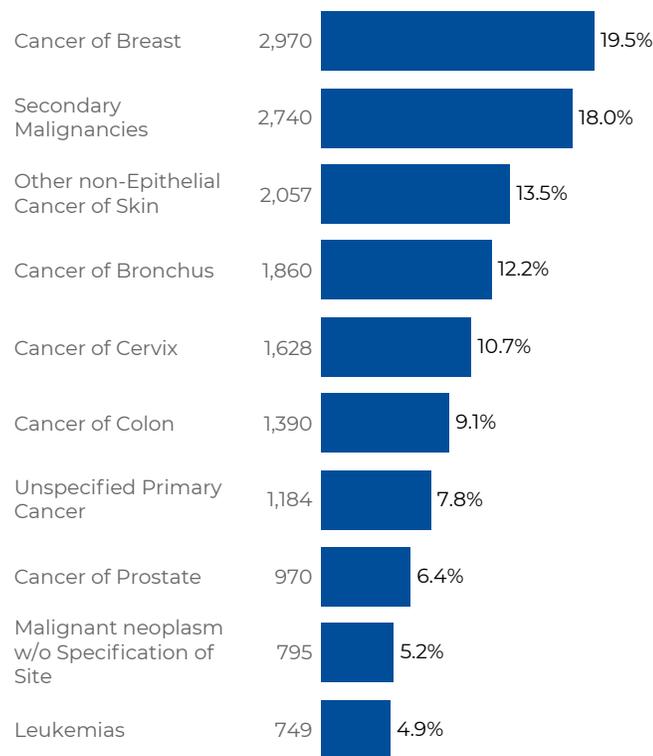**OKLAHOMA** Health Care Authority

SoonerCare Members

The number of SoonerCare members diagnosed with cancer remained relatively the same from SFY2018 (15,197 members) to SFY2019 (15,259 members). The prevalence rate of cancer among SoonerCare members was 1.5%.

Among the 33 different types of cancer, defined by the *International Classification of Diseases, 10th Revision*, the most common type of cancer was breast cancer, followed by secondary malignancies, other non-epithelium cancer of skin, and cancer of bronchus. Approximately one in five members with cancer (19.5%) were diagnosed with breast cancer.

Cancer Prevalence Rates
SFY2010 - SFY2019

Top 10 Most Frequent Cancer Diagnoses
Showing top 10 cancer diagnoses by number of members; Members may be diagnosed with more than one cancer type.

Diagnosis	Members	Percent
Cancer of Breast	2,970	19.5%
Secondary Malignancies	2,740	18.0%
Other non-Epithelial Cancer of Skin	2,057	13.5%
Cancer of Bronchus	1,860	12.2%
Cancer of Cervix	1,628	10.7%
Cancer of Colon	1,390	9.1%
Unspecified Primary Cancer	1,184	7.8%
Cancer of Prostate	970	6.4%
Malignant neoplasm w/o Specification of Site	795	5.2%
Leukemias	749	4.9%

78.1%
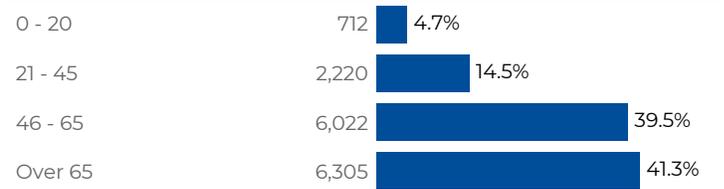of all members with cancer had one or more of the top ten most frequent cancer types

In SFY2019 there were
15,259
members with cancer, **or 1.5% of all SoonerCare members**

Members with Cancer by Age Group SFY2019

Age Group	Members	Percent
0 - 20	712	4.7%
21 - 45	2,220	14.5%
46 - 65	6,022	39.5%
Over 65	6,305	41.3%

Members with Cancer by Eligibility Type SFY2019

Eligibility Type	Members	Percent
Dual Eligible	8,745	57.3%
Non-Dual Eligible	6,514	42.7%
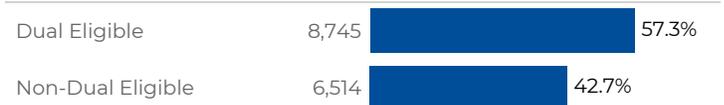
Members with Cancer by Delivery System SFY2019

Delivery System	Members	Percent
SoonerCare Traditional	10,613	69.6%
SoonerCare Choice	4,376	28.7%
Insure Oklahoma	177	1.2%
SoonerPlan	83	0.5%
Other	10	0.1%

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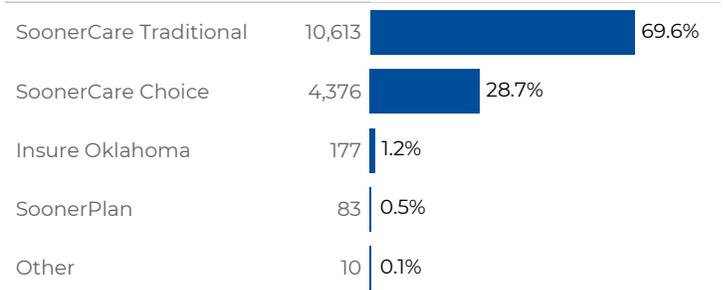
Secondary malignancies, **malignant neoplasm** and **leukemias** were among the most prevalent types of cancer and had the highest reimbursement rates in SFY2019.

The total reimbursement for members with a **secondary malignancy** made up **29.1%** of the total reimbursements for members with cancer.

Cancer Prevalence Rate, Total Reimbursement, and Reimbursement per Member - Top 10 for Each Measure

	Prevalence Rate	Total Reimbursement	Reimbursement per Member
Cancer of Breast	0.30%	$55.1M	$18.6K
Secondary Malignancies	0.27%	$81.0M	$29.6K
Other non-Epithelial Cancer of Skin	0.21%	$30.7M	$14.9K
Cancer of Bronchus	0.19%	$40.8M	$22.0K
Cancer of Cervix	0.16%	$25.0M	$15.3K
Cancer of Colon	0.14%	$27.6M	$19.9K
Unspecified Primary Cancer	0.12%	$29.3M	$24.8K
Cancer of Prostate	0.10%	$14.3M	$14.8K
Malignant neoplasm w/o Specification of Site	0.08%	$21.9M	$27.6K
Leukemias	0.08%	$21.8M	$29.2K
Non-Hodgkin's Lymphoma	0.07%	$17.3M	$24.3K
Cancer of Kidney/Renal Pelvis	0.07%	$14.2M	$20.0K
Cancer of Head and Neck	0.07%	$13.3M	$18.8K
Cancer of Rectum and Anus	0.06%	$12.5M	$19.7K
Cancer of Brain/Nervous System	0.06%	$16.9M	$30.2K
Cancer of Uterus	0.05%	$8.9M	$18.1K
Melanomas of Skin	0.04%	$9.3M	$21.0K
Cancer of Liver/Intrahepatic	0.04%	$11.6M	$26.8K
Cancer of Ovary	0.04%	$8.9M	$21.2K
Cancer of Bladder	0.04%	$6.3M	$15.4K
Cancer of Thyroid	0.04%	$6.0M	$15.0K
Cancer of Bone	0.04%	$11.1M	$29.0K
Cancer of Other GI Organs	0.03%	$8.3M	$27.3K
Cancer of Other Female Genital Organs	0.03%	$3.7M	$14.4K
Cancer of Esophagus	0.02%	$4.0M	$19.7K
Multiple Myeloma	0.02%	$4.9M	$24.4K
Cancer of Pancreas	0.02%	$4.2M	$23.1K
Cancer of Stomach	0.02%	$3.8M	$22.3K
Hodgkin's Disease	0.02%	$3.6M	$23.9K
Cancer of Testis	0.01%	$1.9M	$21.3K
Cancer of Other Respiratory	0.01%	$2.0M	$25.6K
Cancer of Other Urinary Organs	0.01%	$1.4M	$24.6K
Cancer of Other Male Genital Organs	0.00%	$0.7M	$25.5K

Prevalence Rate axis: 0.1% 0.2% 0.3% 0.4%
Total Reimbursement axis: $0M $50M $100M
Reimbursement per Member axis: $10K $20K $30K $40K

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Prevalence Rates

Prevalence
- ☐ 0-0.749%
- ☐ 0.75-1.49%
- ☐ 1.50-2.249
- ☐ 2.25-2.99
- ☐ 3.00% or Greater
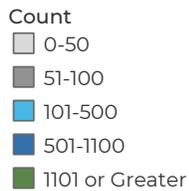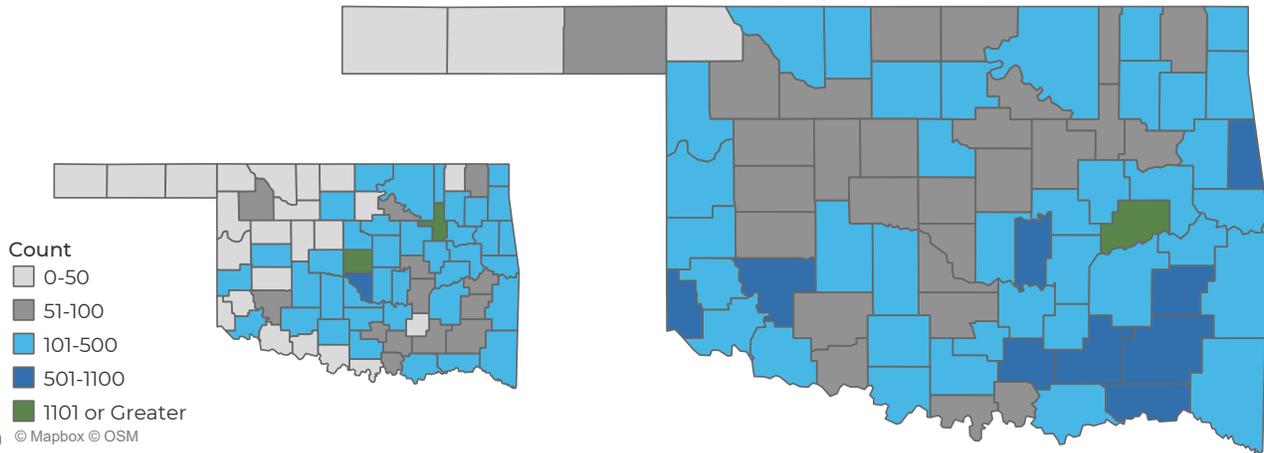
McIntosh county (3.0%) had the highest prevalence of cancer. Counties in eastern Oklahoma had higher prevalence rates of cancer than western counties.
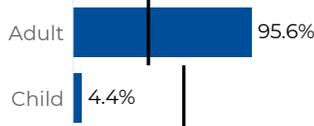
Count
- ☐ 0-50
- ☐ 51-100
- ☐ 101-500
- ☐ 501-1100
- ☐ 1101 or Greater

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SoonerCare Members with Cancer

In SFY2019, cancer was more prevalent among adults, females, and Caucasians than would be expected based on the demographic composition of all SoonerCare members. *See details below. The black line represents the percent of total SoonerCare members.*

Demographics

95.6%
were adults
14,590 members

Adult	95.6%
Child	4.4%

66.4%
were female
10,138 members

Femal..	66.4%
Male	33.6%
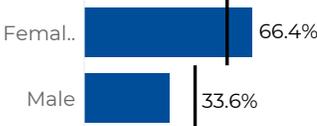
75.7%
were Caucasian
11,558 members

Caucasian	75.7%
Black or African Americ..	11.3%
American Indian	6.1%
Two or More Races	4.3%
Declined to Answer	1.2%
Asian or Pacific Islander	1.4%
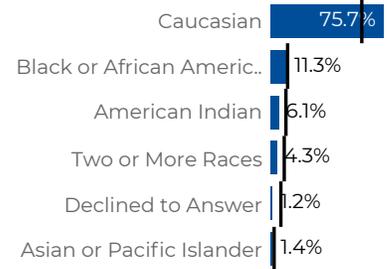
Prevalence Rates Among SoonerCare Members

3.6%
of all adult members had cancer

Adult	3.6%
Child	0.1%
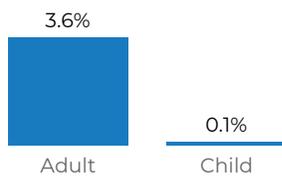
1.8%
of all female members had cancer

Female	1.8%
Male	1.2%
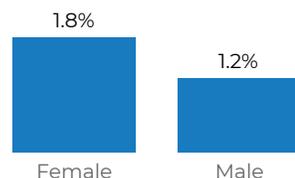
1.9%
of all Caucasian members had cancer

Caucasian	1.9%
Black or African American	1.5%
Asian or Pacific Islander	1.0%
American Indian	0.9%
Two or More Races	0.8%
Declined to Answer	0.3%
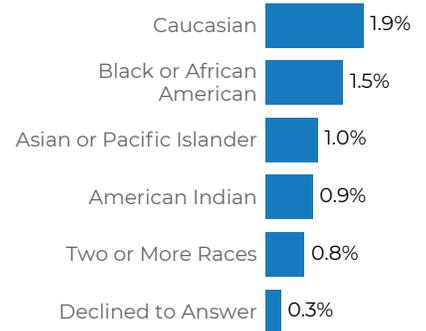
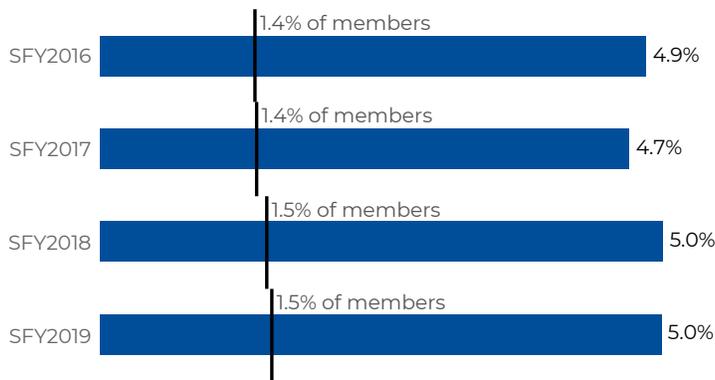**OKLAHOMA**
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Reimbursement Cost

While only 1.5% of SoonerCare members had cancer in SFY2019, the total reimbursement associated with their services made up 5.0% of all SoonerCare reimbursements paid in SFY2019. The cost of providing care to members with cancer is disproportionately higher than the prevalence of cancer among SoonerCare members. The total reimbursement for members with cancer increased by 4.7% from $266,529,384 in SFY2018 to $279,007,061 in SFY2019.

The average reimbursement for child members with cancer ($29,117) was 63.7% higher than the average reimbursement for adult members with cancer ($17,788).
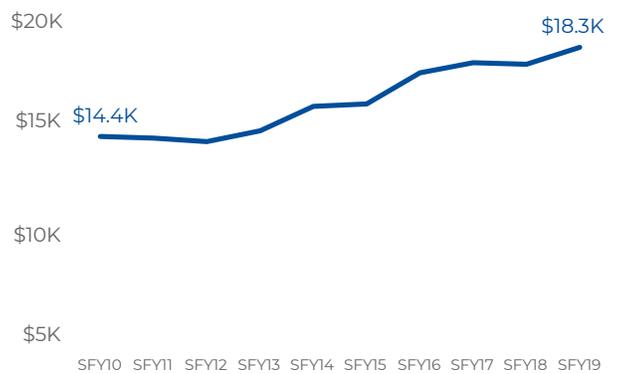
Annual Reimbursement for Members with Cancer
SFY2010 - SFY2019

$253.3M ... $279.0M

SoonerCare Members with Cancer: Percent of Total Reimbursement Compared to Percent of SoonerCare Enrollment

	% of members	% of Total Reimbursement
SFY2016	1.4% of members	4.9%
SFY2017	1.4% of members	4.7%
SFY2018	1.5% of members	5.0%
SFY2019	1.5% of members	5.0%

Average Reimbursement per Member with Cancer
SFY2010 - SFY2019

$14.4K ... $18.3K

$279,007,061
Total reimbursement for members with cancer

$18,285
Average reimbursement for members with cancer

	Total Reimbursement	% of Total Reimbursement	Reimbursement per Member
Dual Eligible	$98,403,996	35.3%	$11,253
Non-Dual Eligible	$180,603,065	64.7%	$27,725
Adult	$259,527,844	93.0%	$17,788
Child	$19,479,217	7.0%	$29,117
Female	$176,789,551	63.4%	$17,438
Male	$102,217,510	36.6%	$19,960