

MaineGeneral
Harold Alfond Center
for Cancer Care



Community Needs Assessment

MaineGeneral Oncology Services

Presented to Cancer Committee

1/31/19

Purpose

- To enable MaineGeneral to continue the ongoing process of identifying cancer related assets, needs and barrier to care for the residents of the greater Kennebec Valley
- Continuous evaluation essential to ensure we are able to address and mitigate barriers to care and ensure high quality oncology care for residents of central Maine

Community Needs Assessment - Methods

- Review of secondary sources
 - 2018 Maine Shared Community Health Needs Assessment
 - 2017 Cancer Report
 - 2016-2020 Maine Cancer Plan
 - MaineGeneral Cancer Registry data
- Review of primary sources
 - Patient needs assessment survey 2018
 - Staff perceptions of patient needs questionnaire 2018
 - Additional studies

Community

Greater Kennebec Valley region including central Maine public health district (Kennebec and Somerset counties) and areas in Waldo, Knox, Franklin, and Lincoln Counties



MaineGeneral Oncology Services

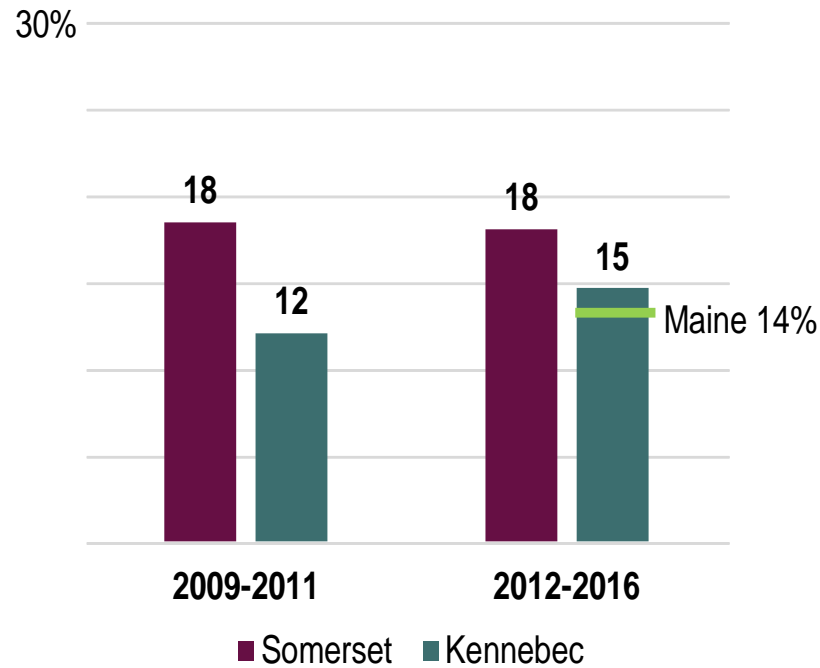
- 4 medical oncologists
- 2 radiation oncologists
- 6 advanced practice providers
- Ancillary services including oncology social workers, oncology dietitian, ACS navigator, financial counselors, genetic counselors and more

Population Statistics of Counties in Maine General Oncology Service Area

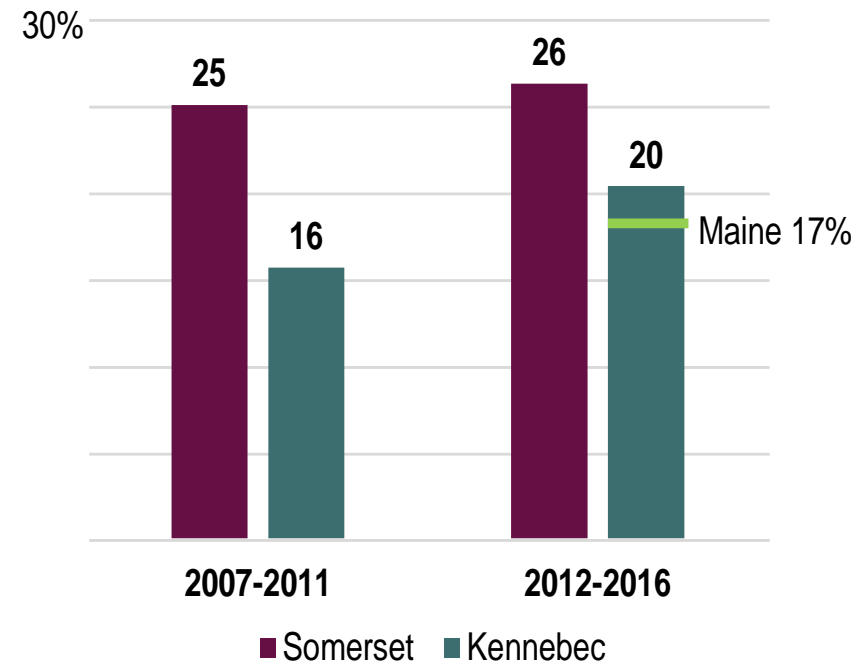
	Kennebec	Somerset	Franklin	Waldo	Knox	Lincoln	Maine	US
Population	120,953	51,363	30,270	39,071	39,717	34,165	1.33 mil	319 mil
Median age (years)	44.2	45.4	45.3	45.4	47.5	50.1	44.2	37.7
Percent 65+ living alone	46.1%	46.7%	-	42.5%	47.1%	41.5%	40.1%	37.7%
Percent White	95.9%	96.8%	96.7%	96.7%	96.5%	97.0%	95.0%	77.4%
Individuals in poverty	14.6%	18.0%	14.1%	16.0%	11.9%	12.1%	13.5 %	15.4 %
Children in poverty	20.3%	26.2%	16.2%	20.2%	15.5%	18.5%	17.2%	21.6%
People living in rural areas	62.8%	80.5%	83.0%	91.3%	67.9%	100.0%	61.3%	19.3%
Median income (dollars)	\$48,570	\$40,484	\$43,007	\$45,480	\$52,239	\$53,515	\$48,453	\$53,046

Social Determinants of Health

**Somerset and Kennebec Counties:
Percent of Individuals Living in Poverty**

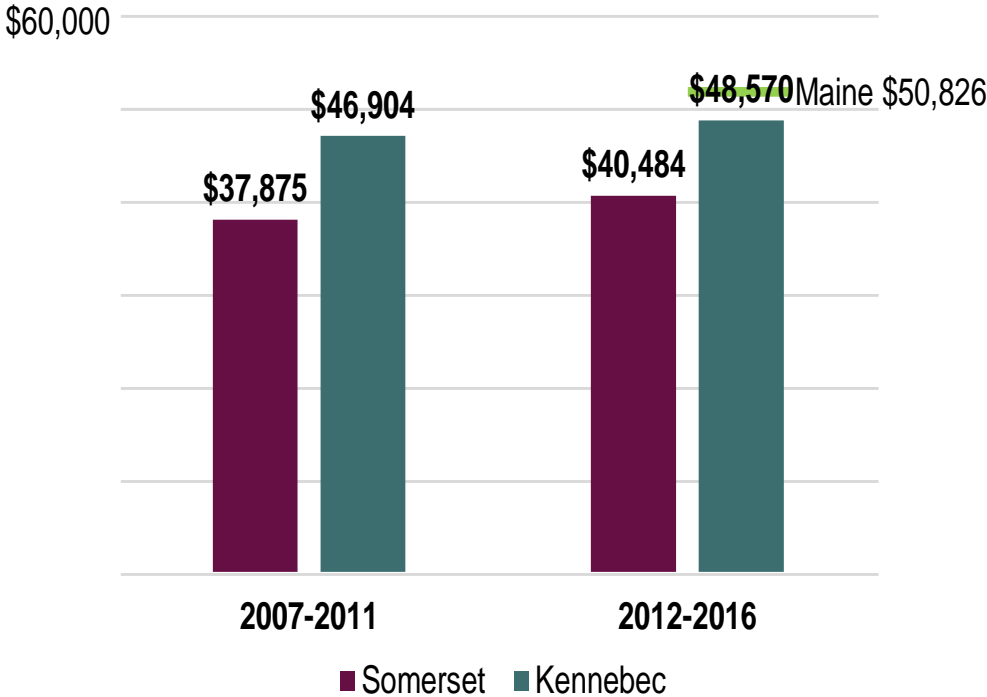


**Somerset and Kennebec Counties:
Percent of Children Living in Poverty**



Social Determinants of Health

Somerset and Kennebec Counties: Median Household Income



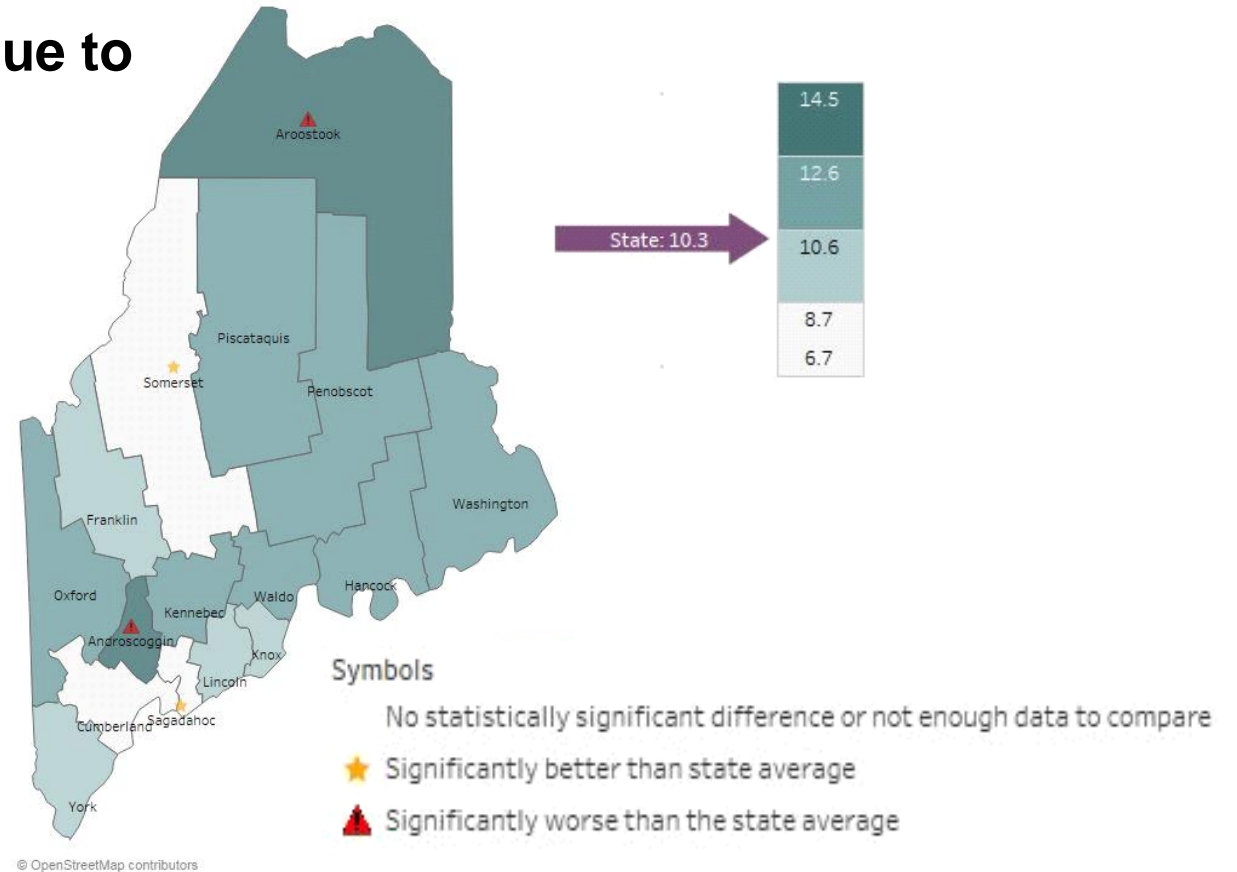
Access to Healthcare

	<i>Kennebec</i>	<i>Somerset</i>	<i>Franklin</i>	<i>Waldo</i>	<i>Knox</i>	<i>Lincoln</i>	<i>Maine</i>	<i>US</i>
<i>Uninsured</i>	8.5%	11.3%	10.9%	11.9%	12.4%	11.4%	9.5%	8.6%
<i>MaineCare (all ages)</i>	33.5%	37.1%	26.7%	28.6%	23.3%	21.6%	25.4%	
<i>PCP</i>	88.5%	87.9%	86.7%	88.2%	87.1%	89.7%	87.6%	79.0%
<i>Primary care visit to any PCP past year</i>	73.6%	75.1%	65.9%	68.4%	64.4%	65.5%	71.8%	
<i>Cost barriers to health care</i>	10.7%	7.6%	9.4%	11.8%	9.2%	9.1%	10.3%	12.0%

US Censurs Bureau, American Community Survey, MaineCare, BFFSS

Health Access and Quality

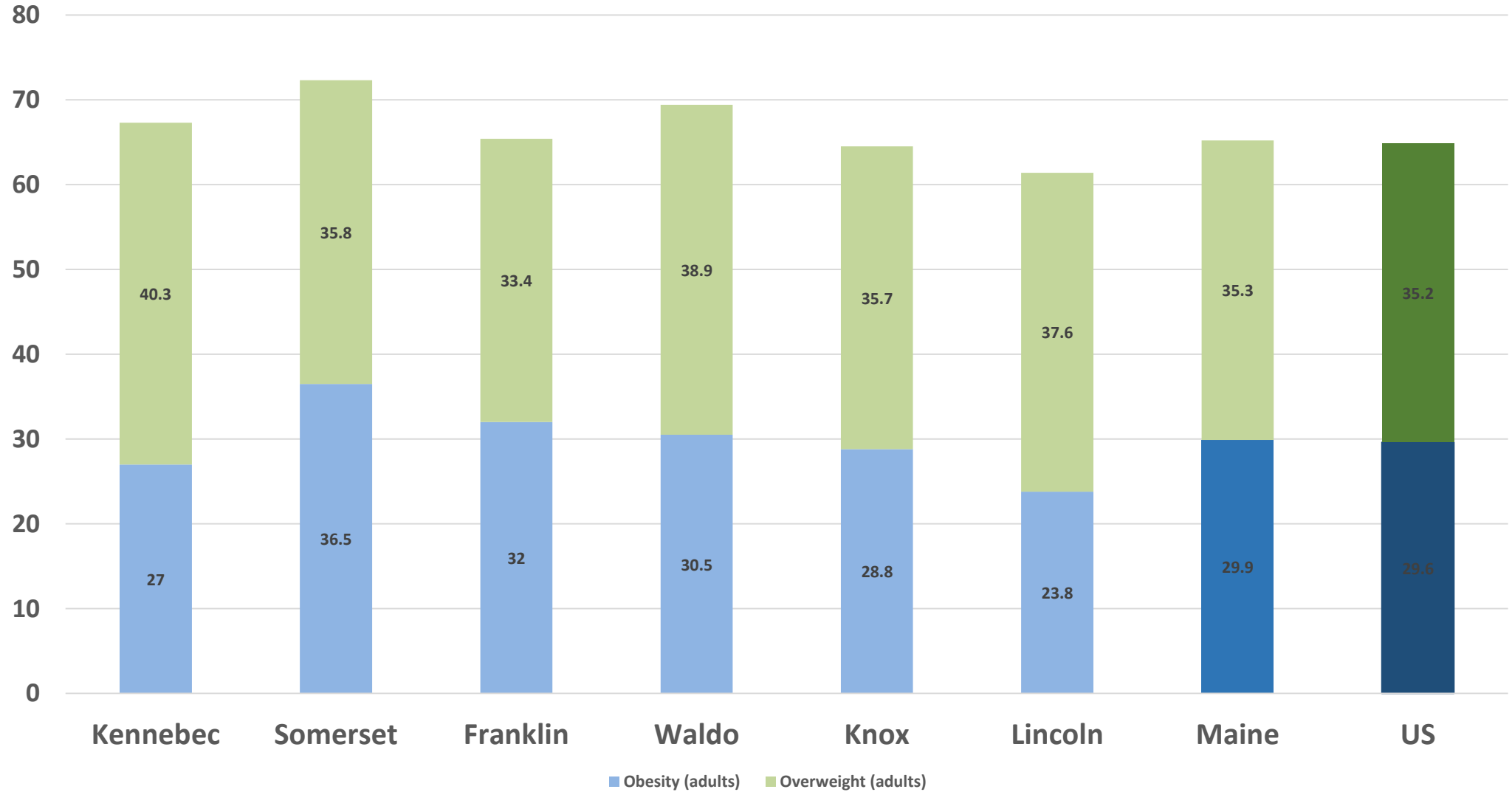
Unable to Obtain Care Due to Cost, 2014-2016



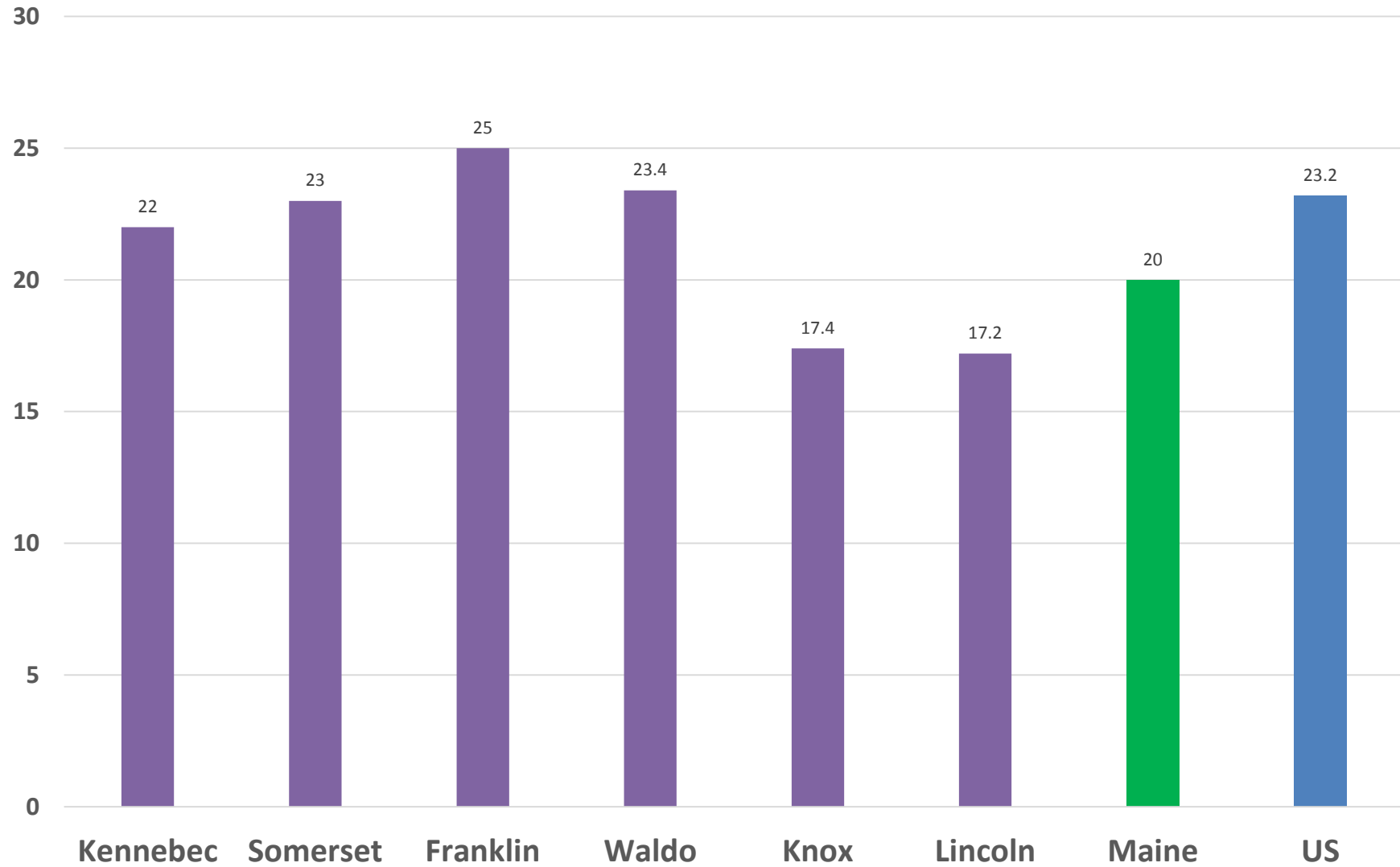
Cancer Risk Factors – Nutrition and Physical Activity

	Kennebec	Somerset	Franklin	Waldo	Knox	Lincoln	Maine	US
Obesity (adults)	27.0	36.5	32.0	30.5	28.8	23.8	29.9	29.6
Obesity (high school)	16.4	18.0	17.7	21.7	14.0	13.5	15.0	
Sedentary Lifestyle	22.0	23.0	25.0	23.4	17.4	17.2	20	23.2
Food Insecurity	14.7	16.2	14.7	15.1	13.4	13.4	15.1	13.4
Overweight (adults)	40.3	35.8	33.4	38.9	35.7	37.6	35.3	35.2
Overweight (high school)	18.0	18.3	20.0	19.8	16.3	17.9	17.5	
Overweight (middle school)	21.2	16.8	18.7	19.9	16.3	14.8	17.0	
Met aerobic physical activity recommendations (adults)	50.9	47.6	47.9	46.7	53.5	55.2	53.9	
Met physical activity recommendations (high school)	22.9	22.7	21.5	22.7	14.6	21.5	20.3	
Fruit consumption < 1 serving/day adults	36.4	39.1	38.8	38.2	27.7	29.5	35.5	39.7
Vegetable consumption < one serving/day	23.2	17.2	24.2	21.6	13.1	16.5	18.3	22.1

% Adults Overweight / Obese



% Reporting Sedentary Lifestyle

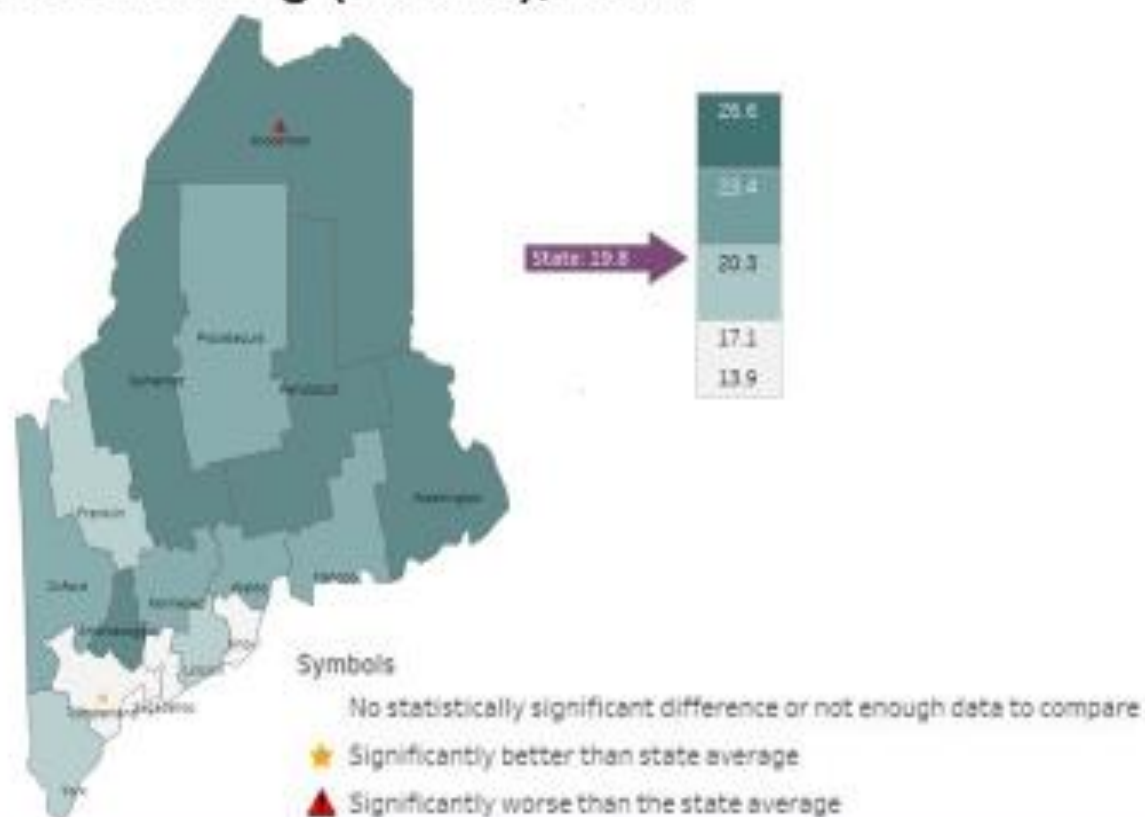


Cancer Risk Factors – Environmental/ Health Behaviors

	Kennebec	Somerset	Franklin	Waldo	Knox	Lincoln	Maine	US
Homes with well tested for arsenic	62.2	53.5	46.3	55.5	52.9	43.0	51.1	
Chronic Heavy Drinking (adults)	7.9	6.2	8.6	6.6	8.9	9.0	7.6	5.9
Current smoking adults	20.3	24.1	18.4	21.5	14.2	19.9	19.8	17.0
Past 30 days smoking high school	8.9	9.8	13.1	13.7	9.5	9.6	8.8	
Environmental tobacco smoke exposure middle school	23.7	33.9	27.9	28.8	24.2	24.8	22.8	
Past 30 e-cigarette use (high school)	16.6	14.5	18.2	16.4	16.7	14.5	15.3	

Health Behaviors- Smoking

Current Smoking (Adults), 2016



Cancer Screening Rates

	Kennebec	Somerset	Franklin	Waldo	Knox	Lincoln	Maine	US
Cervical Cancer Screening up-to-date	86.0	79.4	83.2	84.0	80.3	86.2	83.3	79.8
Breast Cancer Screening up-to-date	84.2	82.3	81.3	73.5	79.1	78.1	81.9	77.3
Colorectal Cancer Screening up-to-date	78.2	69.1	67.7	72.7	69.1	74.5	74.9	67.5

Comorbidities

	Kennebec	Somerset	Franklin	Waldo	Knox	Lincoln	Maine	US
Diabetes	10.2	11.7	9.9	9.5	7.9	8.6	10.0	10.5
Prediabetes	7.1	9.8	6.7	6.1	11.4	6.4	8.0	7.5
Hypertension	35.2	39.2	35.4	34.3	32.5	35.0	33.7	30.9
Depression, lifetime	23.2	21.0	22.7	19.8	20.8	20.0	22.8	17.4
Anxiety, lifetime	20.9	22.6	17.3	16.2	17.0	17.3	20.7	-
Adults currently receiving outpatient mental health treatment	18.9	16.8	15.3	16.1	15.6	14.7	17.6	7.1

Cancer Incidence and Mortality Rates (per 100,000 population)

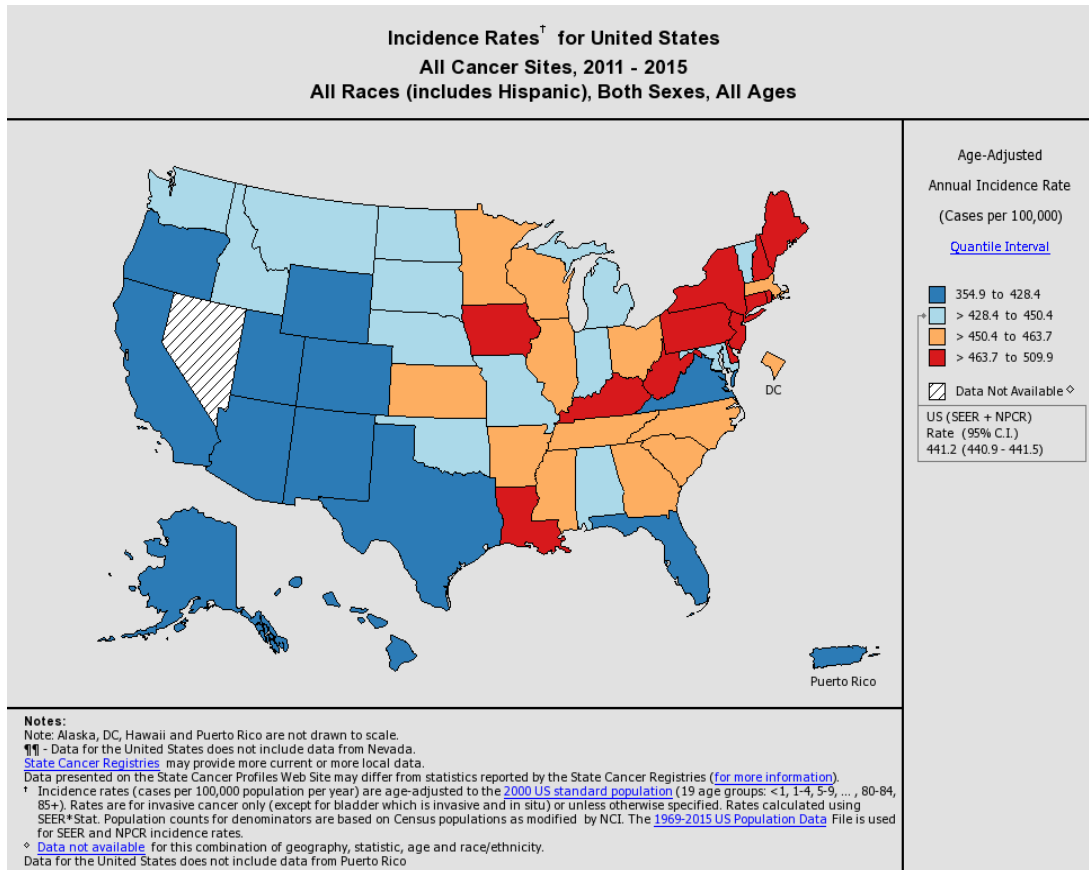
	Kennebec	Somerset	Franklin	Waldo	Knox	Lincoln	Maine	US
All cancer mortality	181.7	192.7	164.0	165.5	166.7	164.4	173.8	163.5
All cancer new cases	467.9	454.6	440.5	482.3	467.7	441.5	473.7	437.1
Lung Cancer Mortality	49.4	59.0	48.1	46.2	44.9	39.2	50.5	40.6
Lung Cancer new cases	72.0	89.8	58.0	77.0	78.1	52.8	74.2	58.6
Tobacco Related cancer mortality (excluding lung)	55.1	58.2	44.2	49.5	50.1	50.2	50.5	52.6
Tobacco related (excluding lung) new cases	136.4	128.4	127.5	128.0	116.0	132.5	134.1	128.3

Cancer Incidence and Mortality Rates (per 100,000 population)

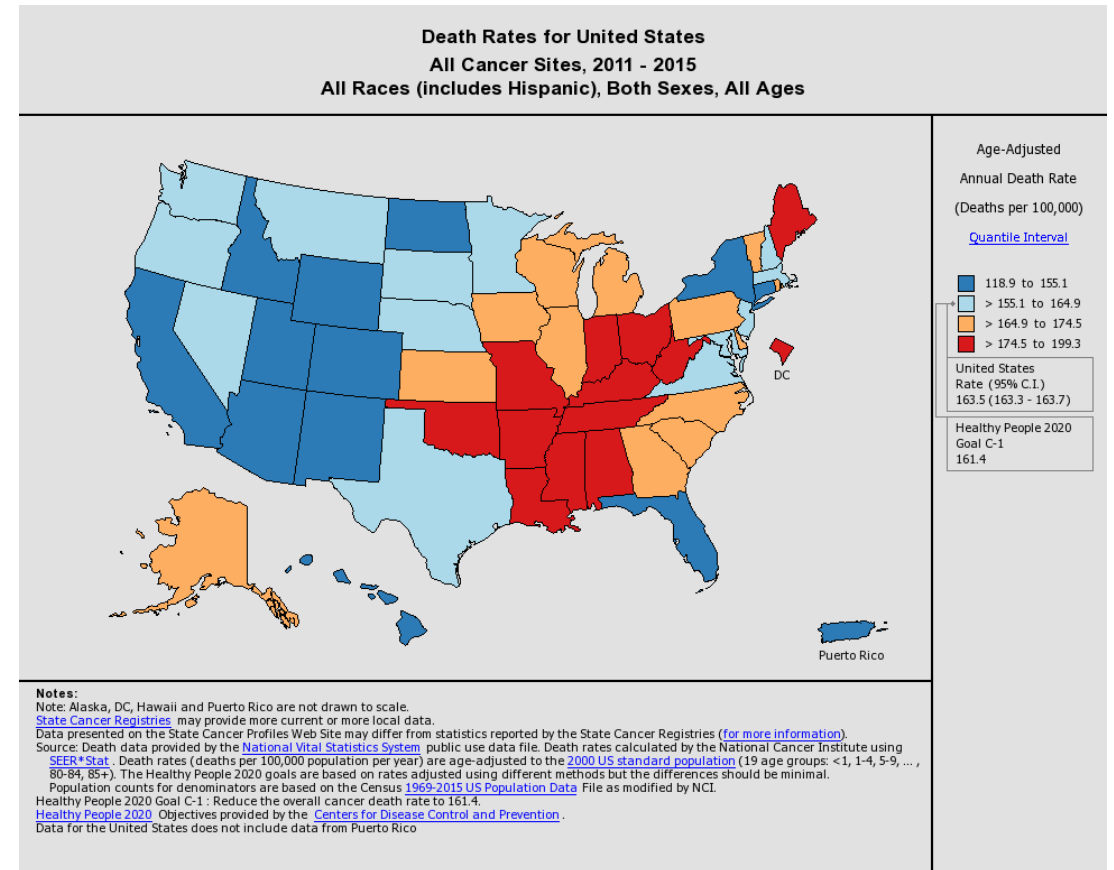
	Kennebec	Somerset	Franklin	Waldo	Knox	Lincoln	Maine	US
Colorectal mortality	14.8	14.4	8.4	14.4	9.7	14.4	13.1	14.0
Colorectal new cases	38.4	34.2	35.0	36.9		42.3	37.4	38.5
Breast cancer mortality, female	18.7	17.0	20.4	15.1	24.0	20.2	18.4	20.3
Breast cancer new cases, female	122.5	98.3	103.0	125.1	146.0	118.0	125.0	123.9
Prostate Cancer Mortality	24.0	19.8	19.2	19.8	21.1	19.2	20.1	18.9
Bladder Cancer Incidence	26.3	30.2	34.5	20.4	19.2	22.4	27.1	19.7
Melanoma new cases	21.4	13.1	22.4	17.6	39.6	30.4	24.5	21.3

Maine CDC Vital Records, Maine Cancer Registry

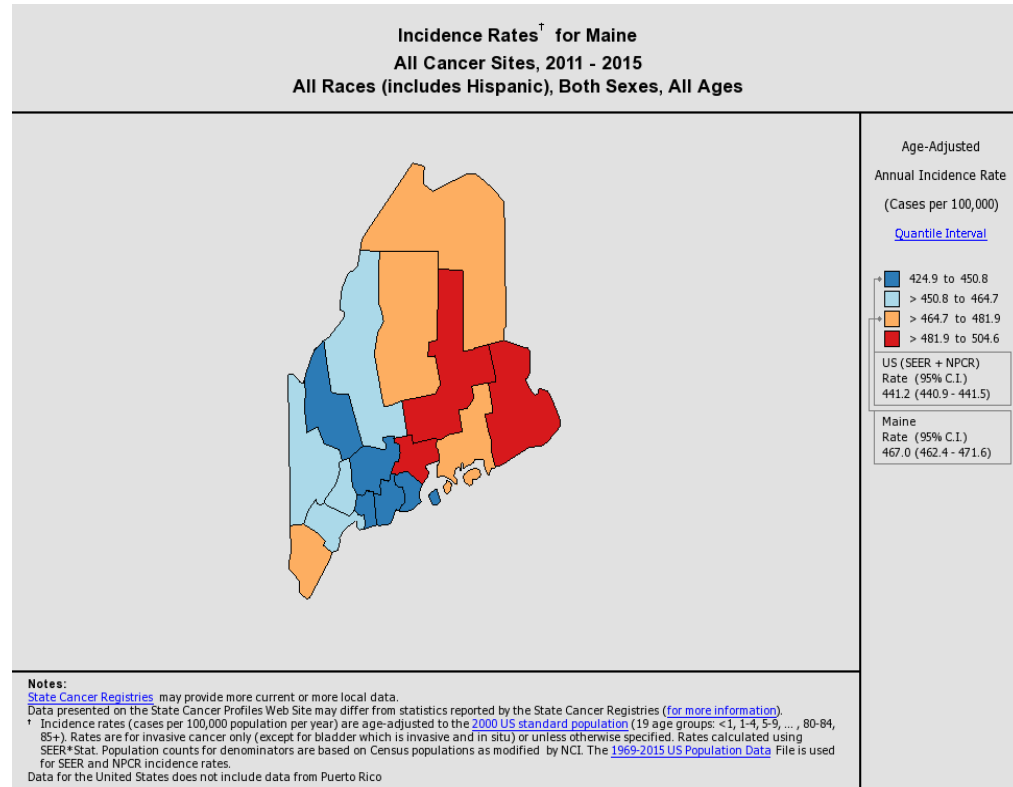
All Cancer Incidence



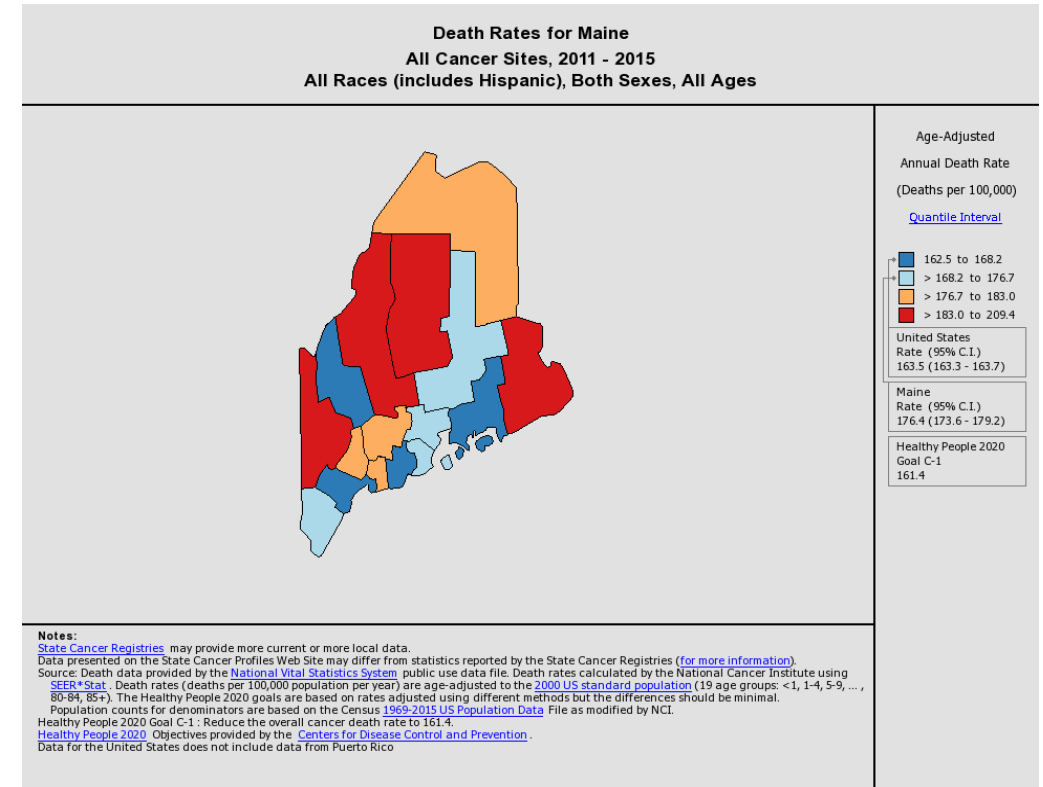
All Cancer Mortality



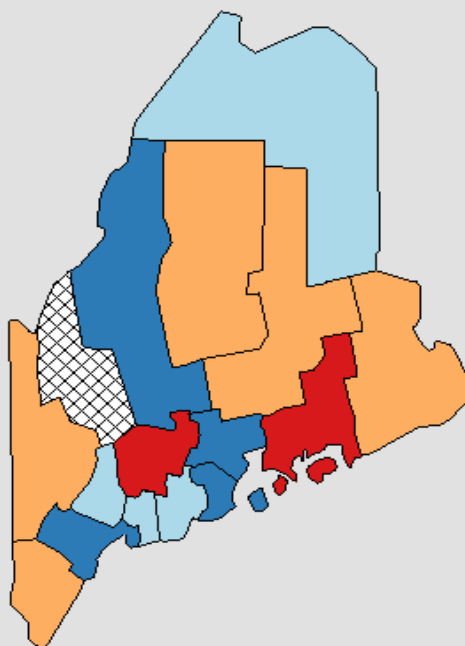
All Cancer Incidence, Maine



All Cancer Mortality, Maine

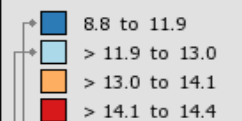


Incidence Rates[†] for Maine
Oral Cavity & Pharynx, 2011 - 2015
All Races (includes Hispanic), Both Sexes, All Ages



Age-Adjusted
Annual Incidence Rate
(Cases per 100,000)

[Quantile Interval](#)



Suppressed * / **

US (SEER + NPCR)
Rate (95% C.I.)
11.6 (11.6 - 11.7)

Maine
Rate (95% C.I.)
12.6 (11.8 - 13.3)

Notes:

[State Cancer Registries](#) may provide more current or more local data.

Data presented on the State Cancer Profiles Web Site may differ from statistics reported by the State Cancer Registries ([for more information](#)).

[†] Incidence rates (cases per 100,000 population per year) are age-adjusted to the [2000 US standard population](#) (19 age groups: <1, 1-4, 5-9, ... , 80-84, 85+). Rates are for invasive cancer only (except for bladder which is invasive and in situ) or unless otherwise specified. Rates calculated using SEER*Stat. Population counts for denominators are based on Census populations as modified by NCI. The [1969-2015 US Population Data](#) File is used for SEER and NPCR incidence rates.

* Data have been [suppressed](#) to ensure confidentiality and stability of rate estimates. Data is currently being suppressed if there are fewer than 16 counts for the time period.

** Data have been [suppressed](#) for states with a population below 50,000 per sex combination for American Indian/Alaska Native or Asian/Pacific Islanders because of concerns regarding the relatively small size of these populations in some states.

Data for the United States does not include data from Puerto Rico

Most Frequent Maine General Analytic Cases by Category

Rank	Cancer	Number	% total
1	Respiratory	260	22%
2	Breast	193	16%
3	Digestive	146	12%
4	Male Genital	143	12%
5	Urinary Bladder	93	8%
6	Female	63	5%
7	Skin	63	5%
8	Lymphoma	44	4%
9	Oral Cavity	41	3%
10	Brain	18	2%

Most Frequent MaineGeneral Analytic Cases by Specific Cancer Type

Rank	Cancer	Number	% total
1	Lung/ Bronchus	252	21%
2	Breast	193	16%
3	Prostate	138	11%
4	Bladder	55	5%
5	Melanoma	54	5%
6	Colon	40	3%
7	Non-Hodgkin's Lymphoma	39	3%
8	Kidney	35	3%
9	Uterine	31	3%
10	Pancreas	30	3%

Most Frequent Maine General Analytic Cancers by Cancer type and % Diagnosed Stage III or IV

Rank	Cancer	Number Cases	% stage III or IV
1	Lung/ Bronchus	252	21%
2	Breast	193	10%
3	Prostate	138	25%
4	Bladder	55	22%
5	Melanoma	54	5%
6	Colon	40	35%
7	Non-Hodgkin's Lymphoma	39	44%
8	Kidney	35	40%
9	Uterine	31	16%
10	Pancreas	30	73%

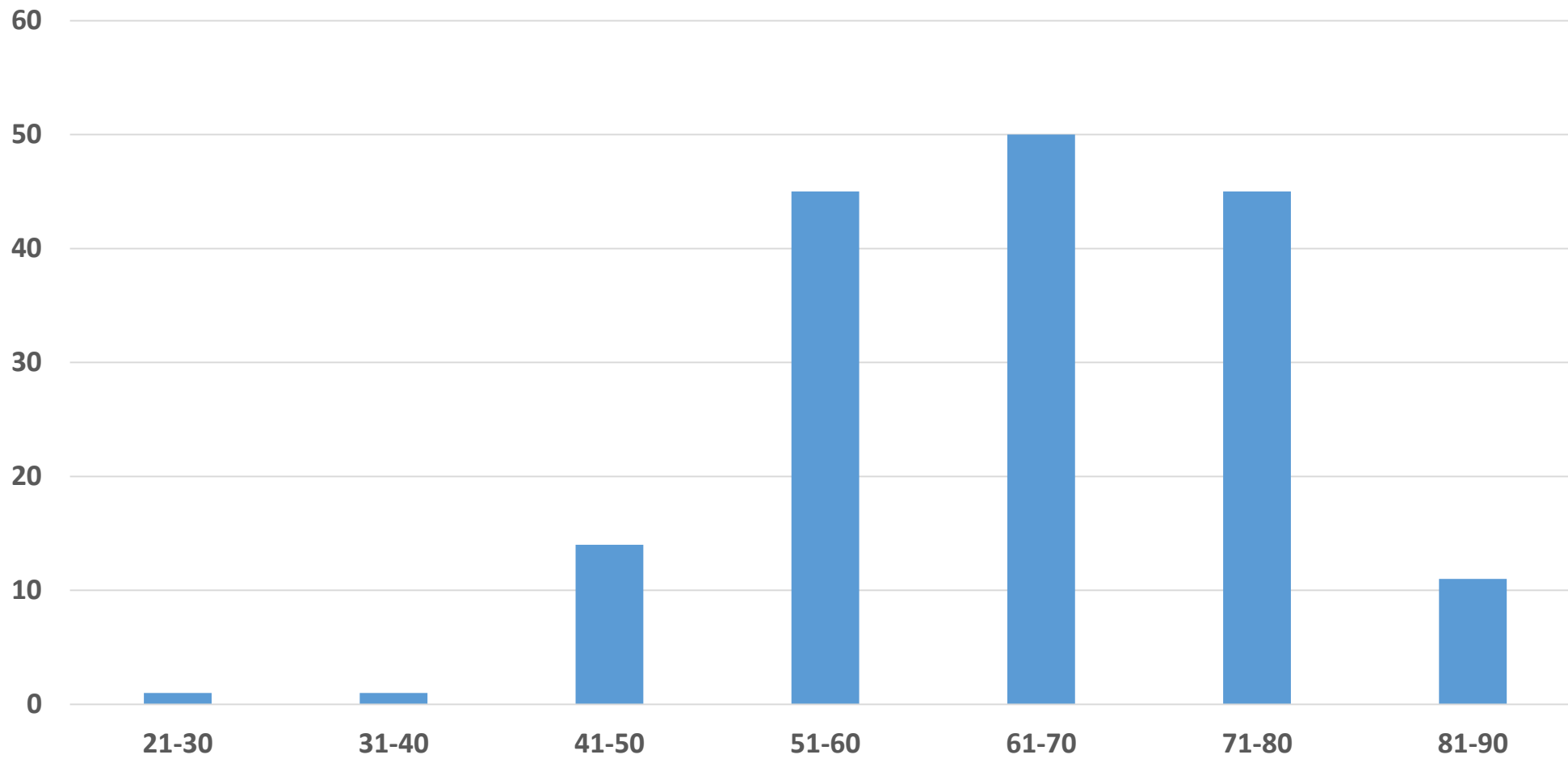
MaineGeneral Analytic Cancers by frequency of diagnosed at Stage III or Stage IV

Cancer	Number Cases	% stage III or IV
Tonsil	9	88%
Pancreatic	30	73%
Tongue	13	69%
Ovarian	8	63%
Esophageal	10	60%
Stomach	20	45%
Non-Hodgkin's Lymphoma	35	44%
Rectal	14	43%
Kidney	35	40%
Prostate	138	35%
Bladder	55	22%

Barriers to Care Data from Patient Perspective

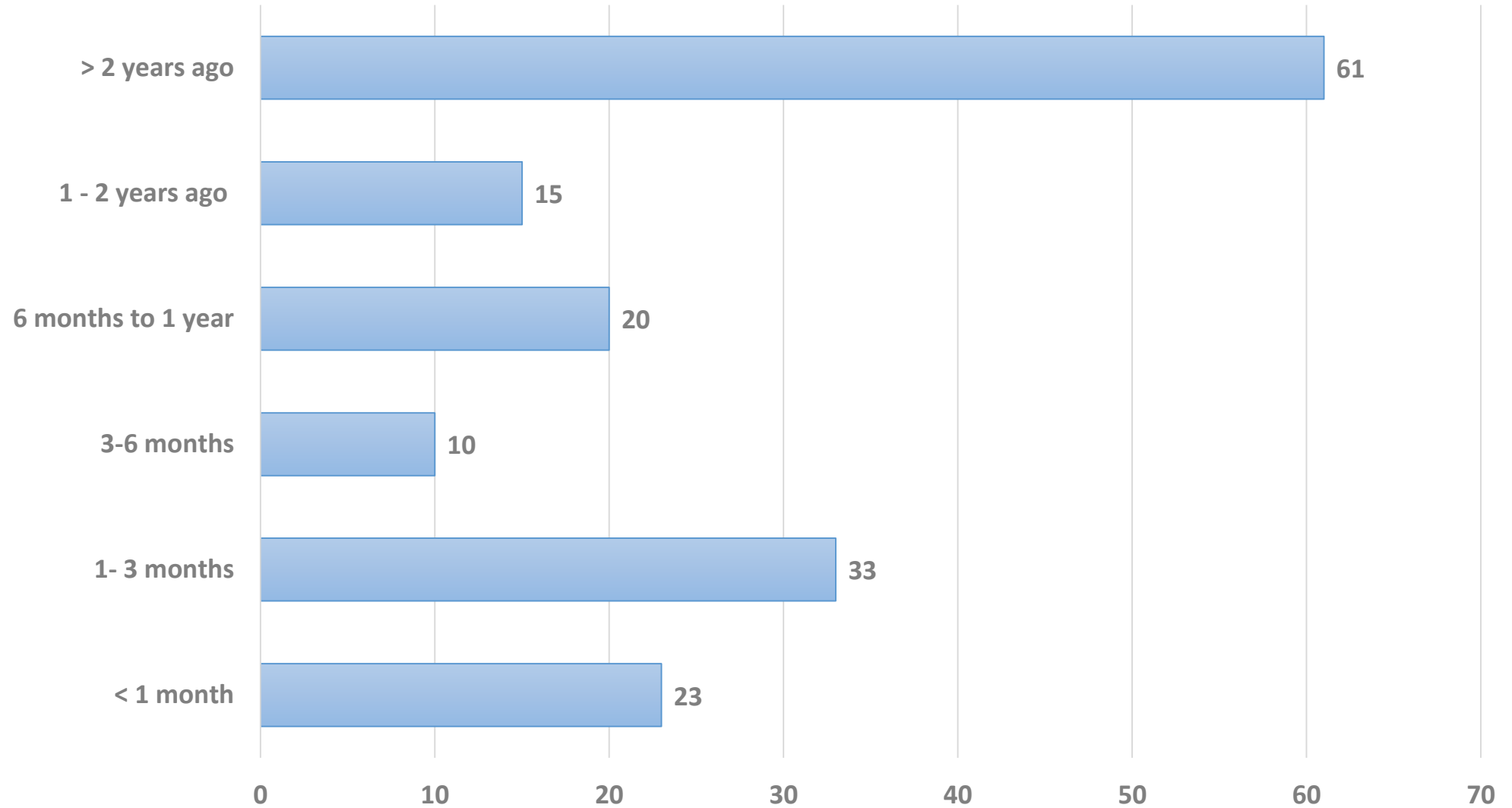
- Patients receiving care at HACCC were surveyed in June, July, August and September 2018 to determine barriers of care from their perspective.
- 186 respondents completed the survey

Age at Diagnosis

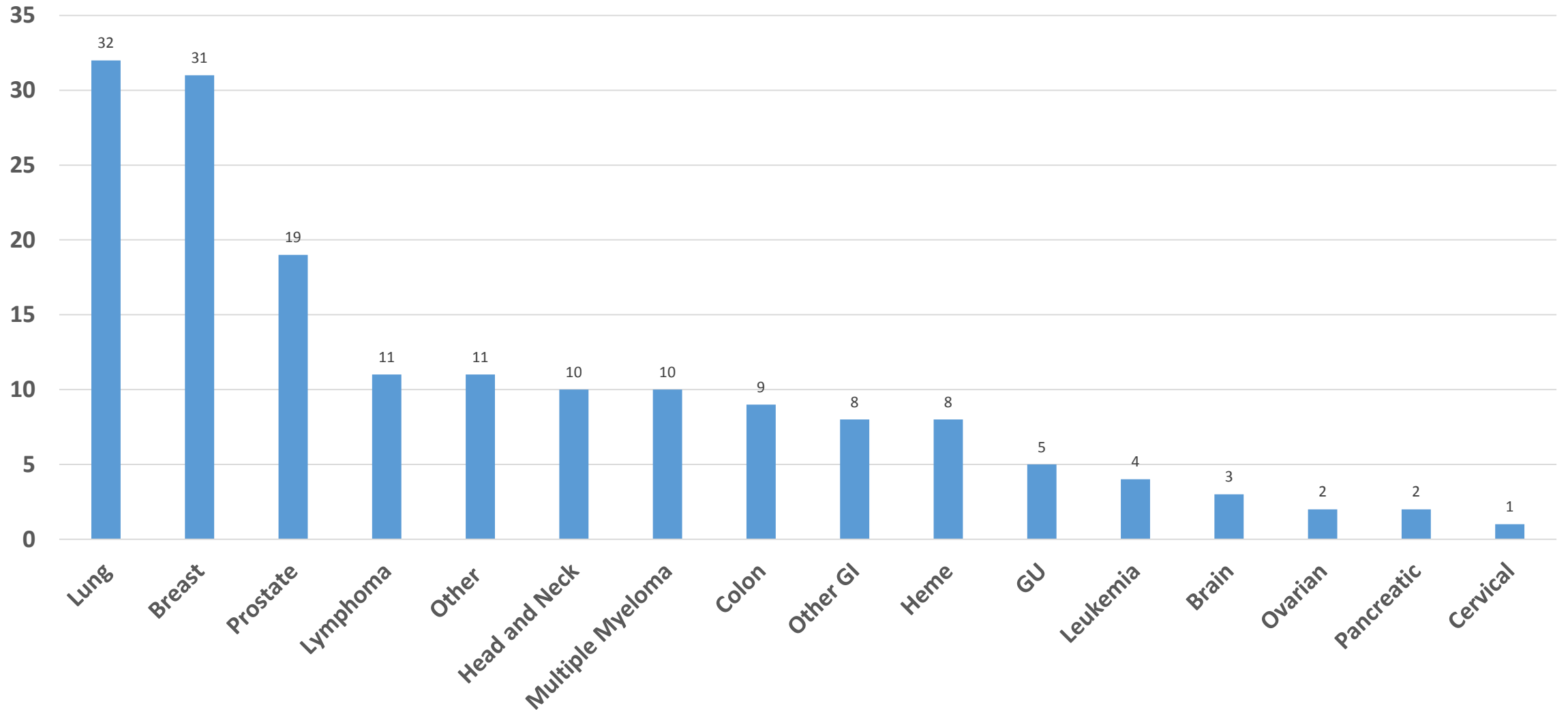


n=157

Length of Time Since Diagnosis

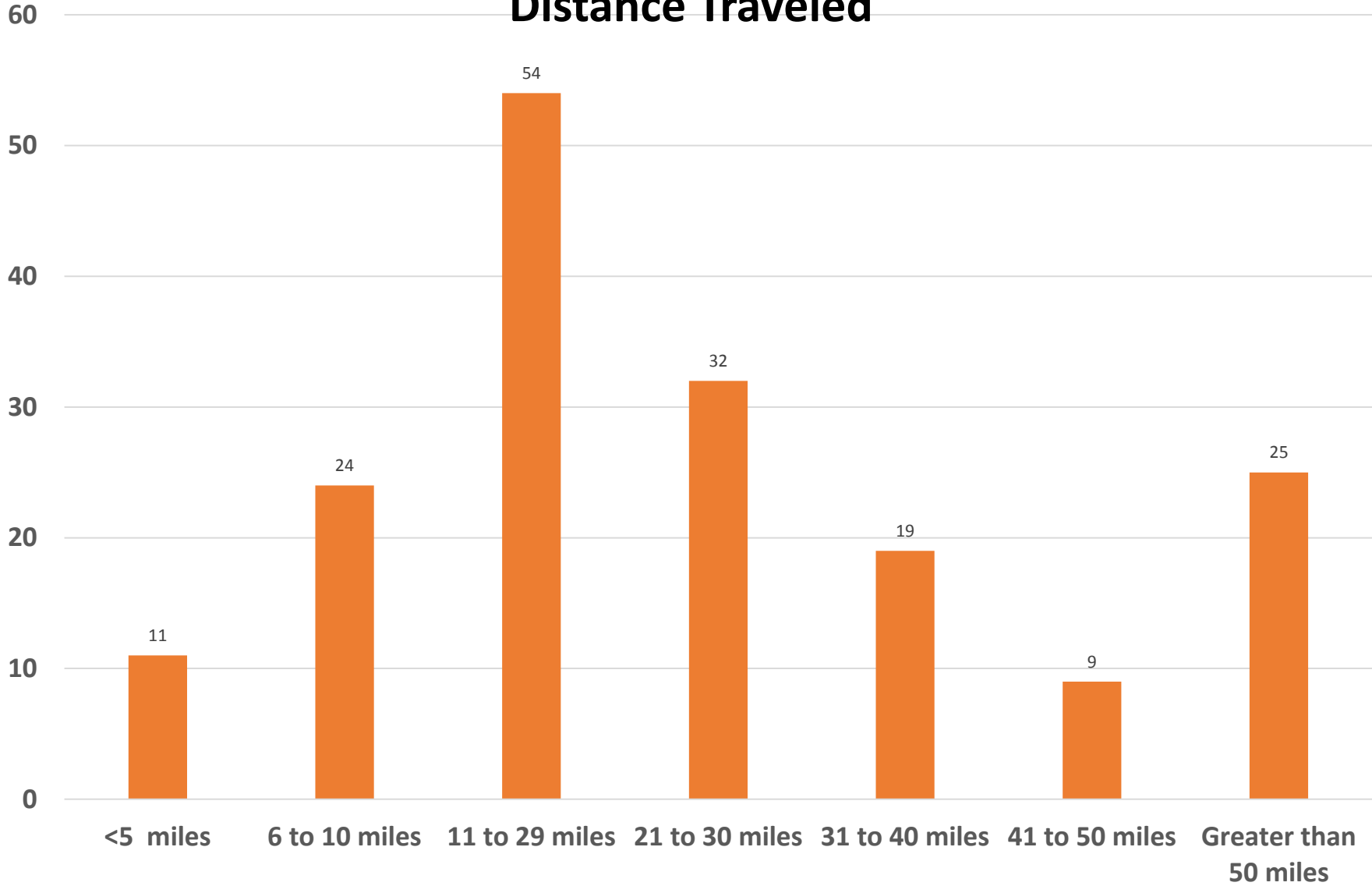


Diagnosis of Respondents



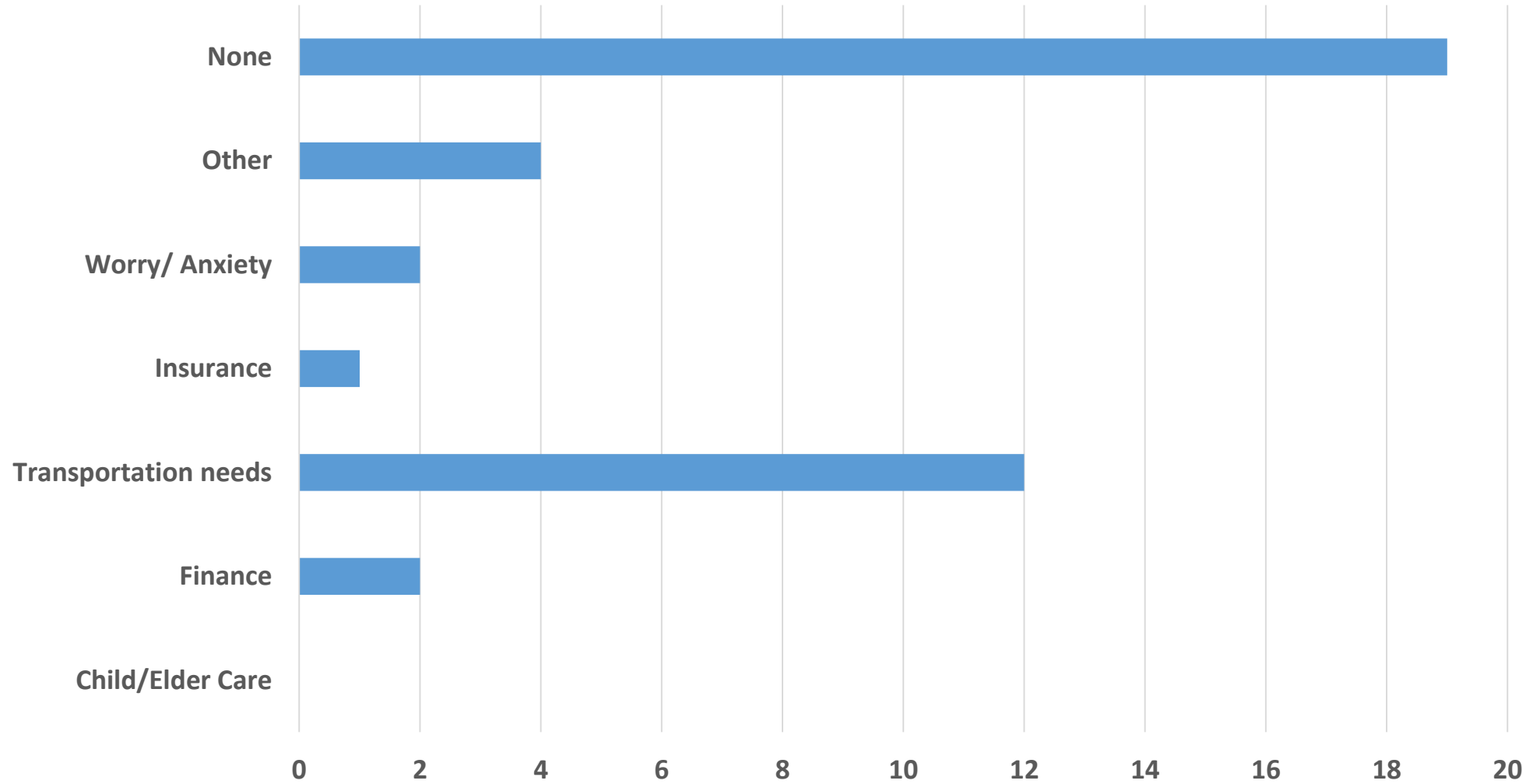
n=166

Distance Traveled

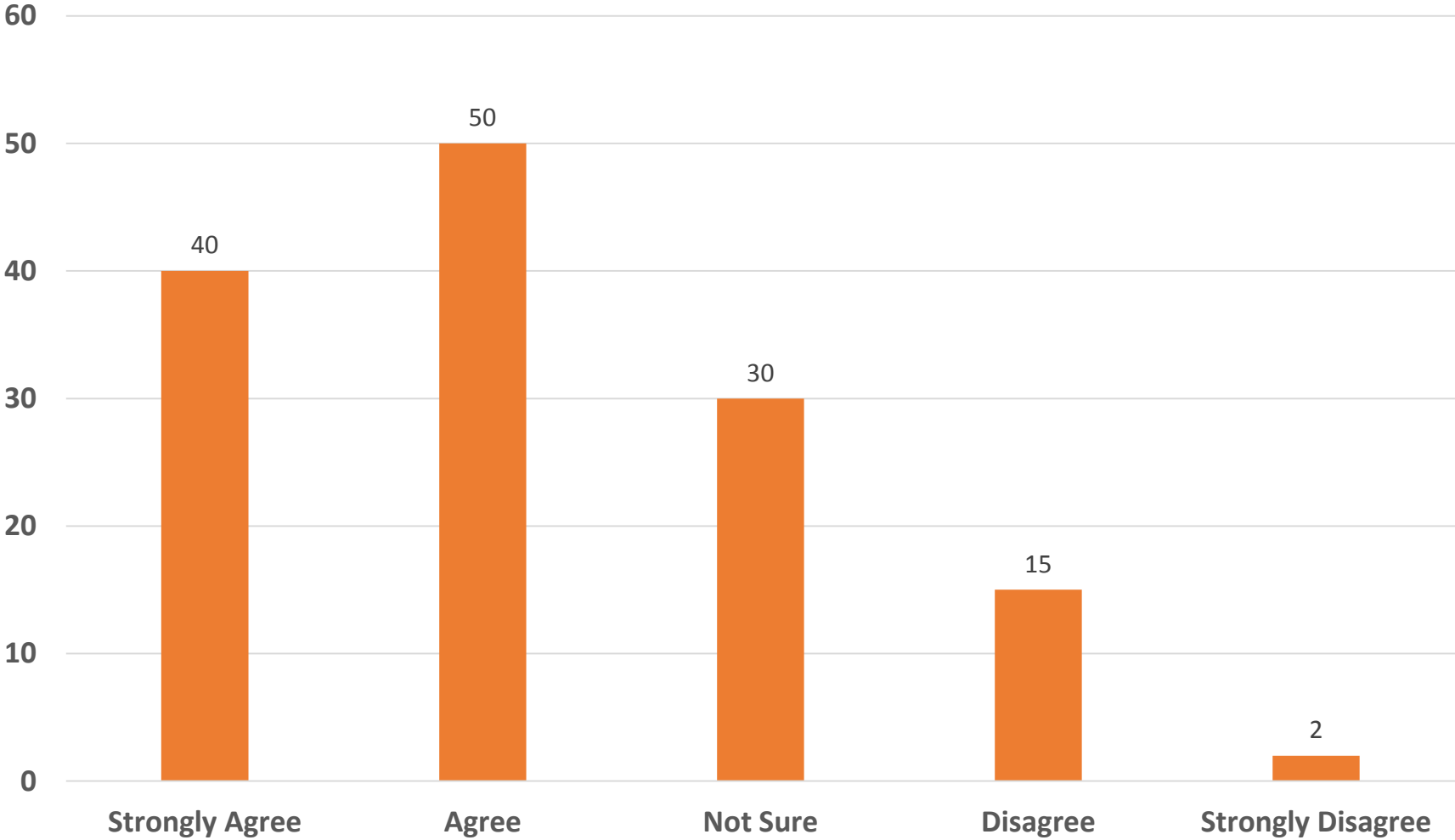


N=174

Barriers to Getting to Appointments

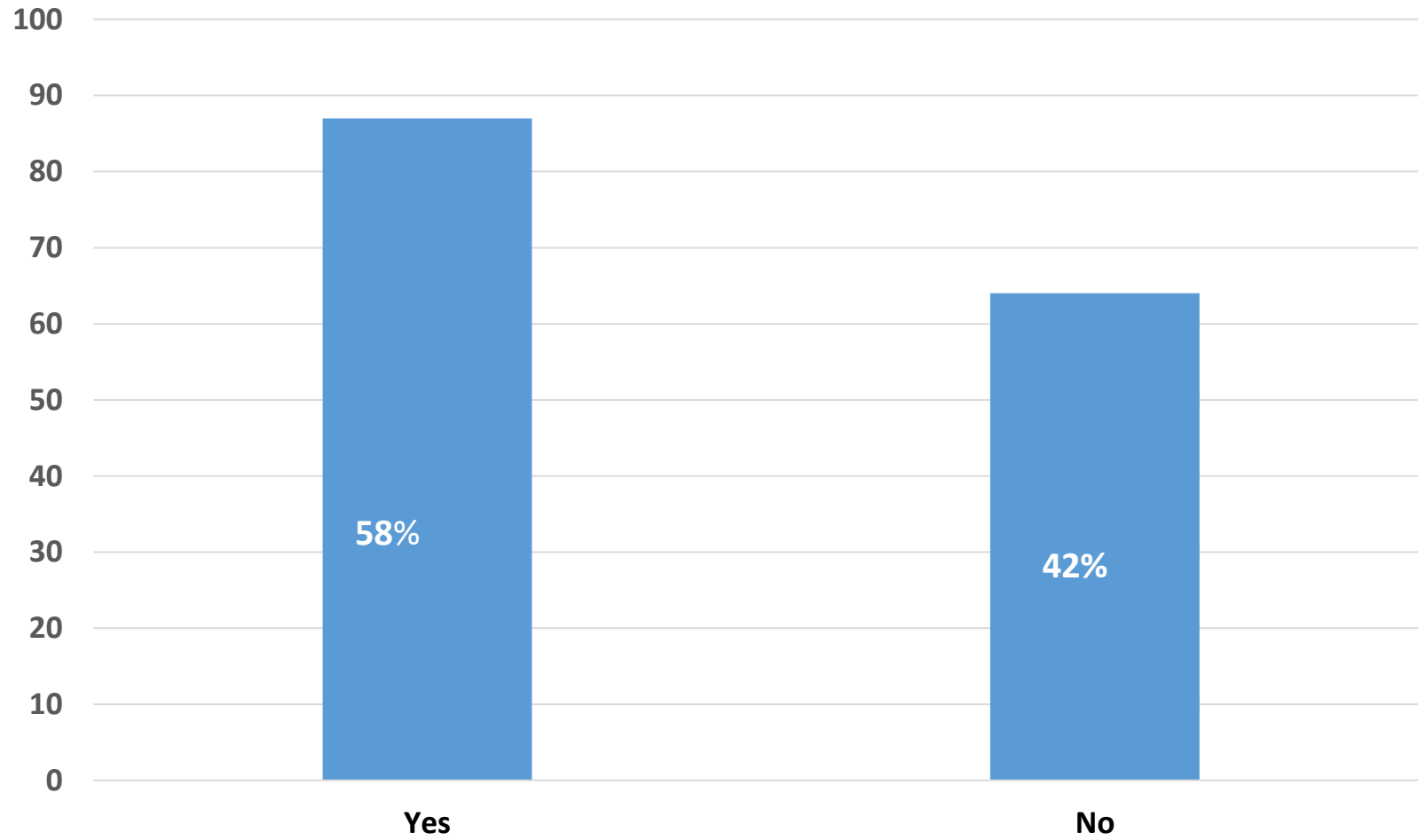


Understand my plan for follow-up care after treatment has ended



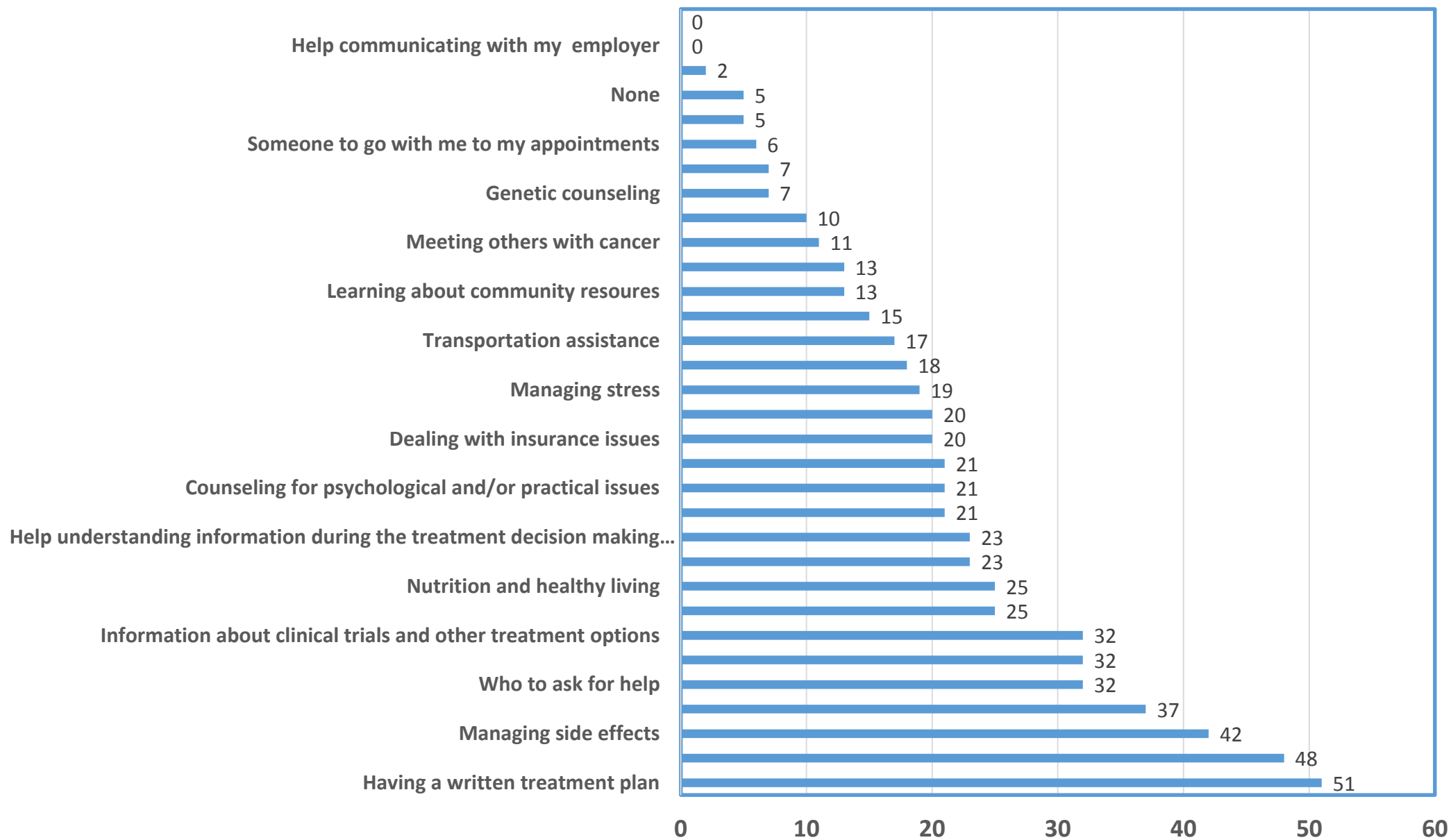
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Familiar with role of Patient Navigator



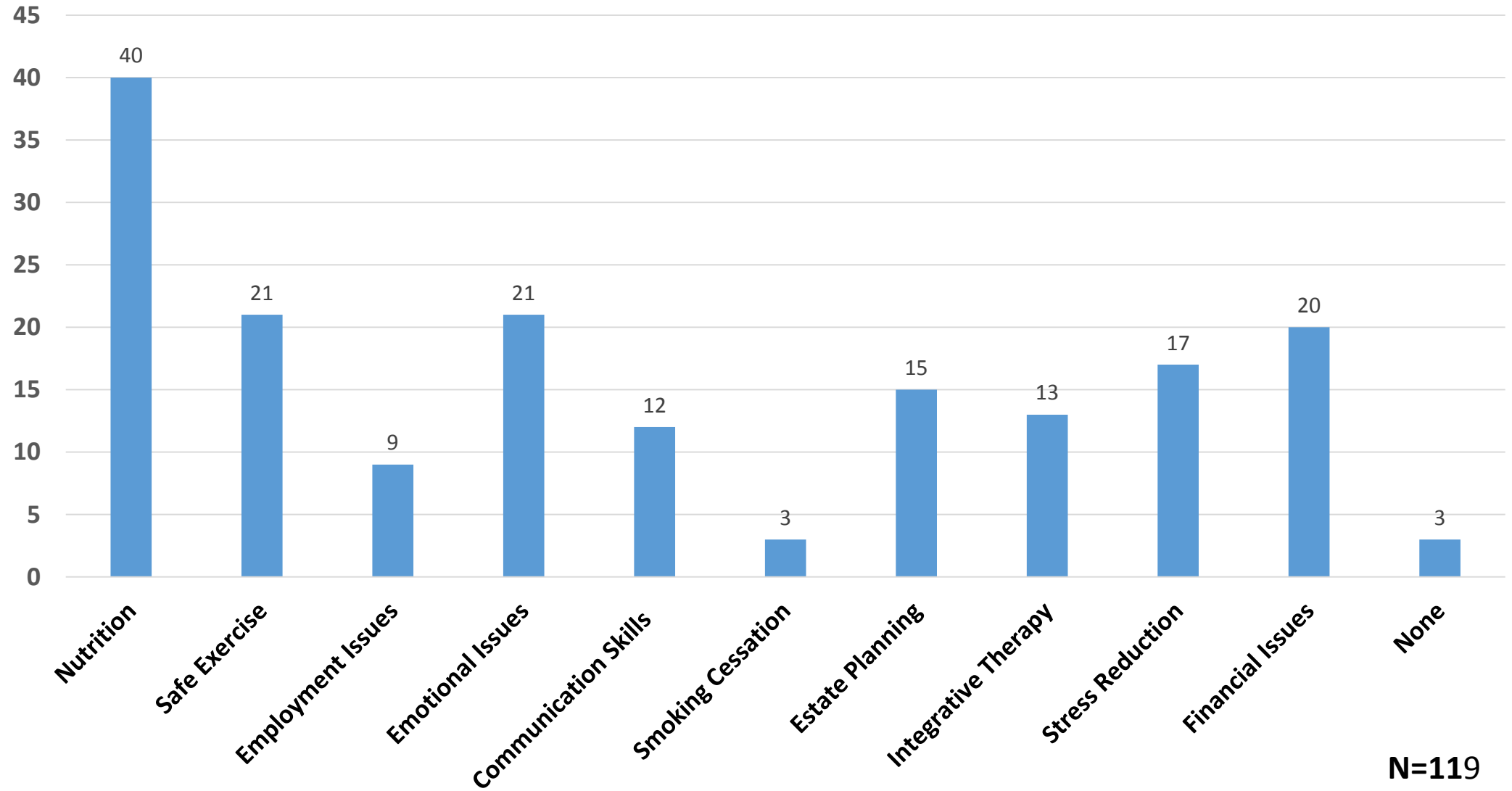
N-151

Services and information that would be most helpful to me

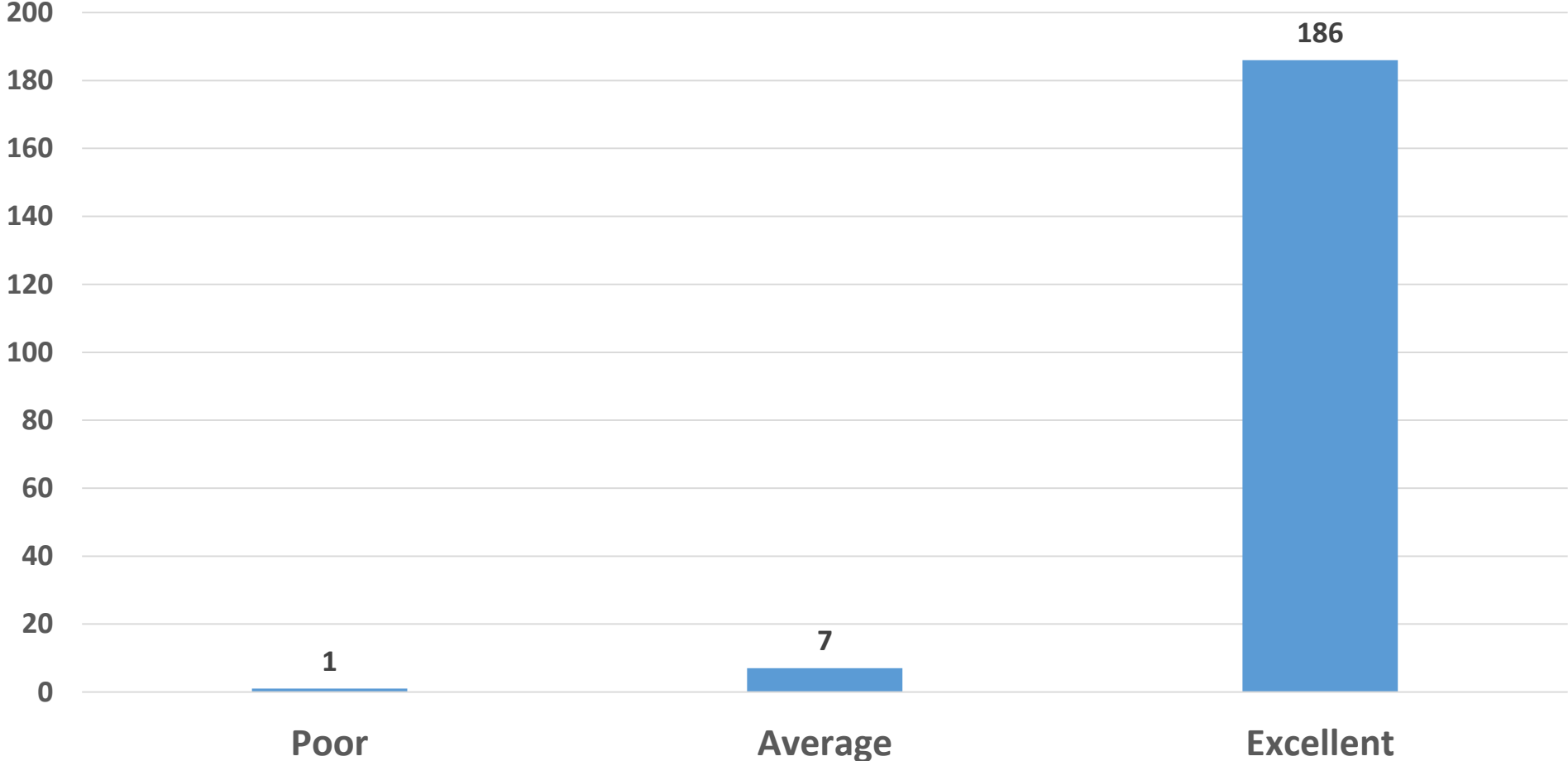


n=119

Topics Would Like to Learn More About



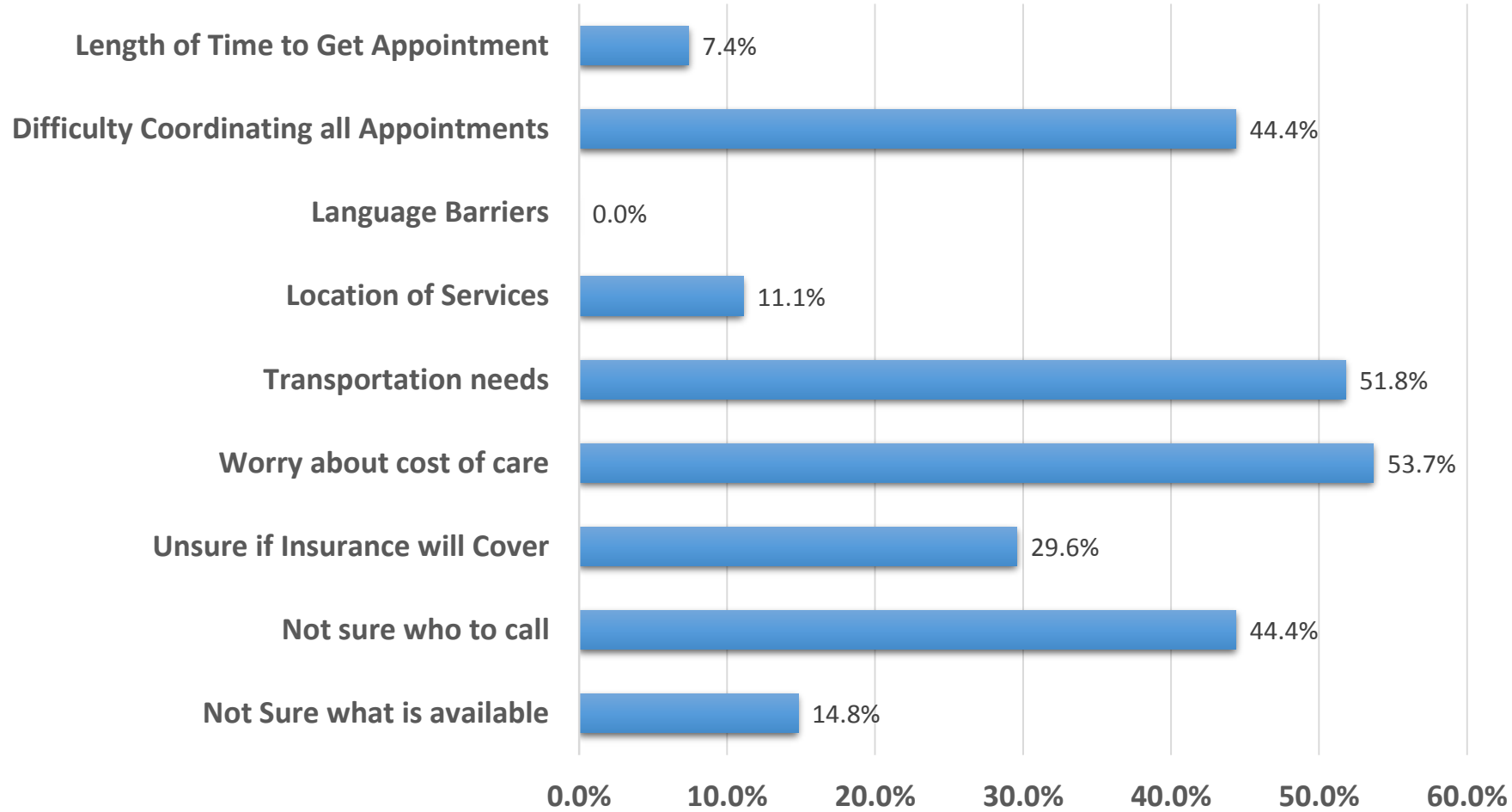
How would you rate the care you received at HACCC?



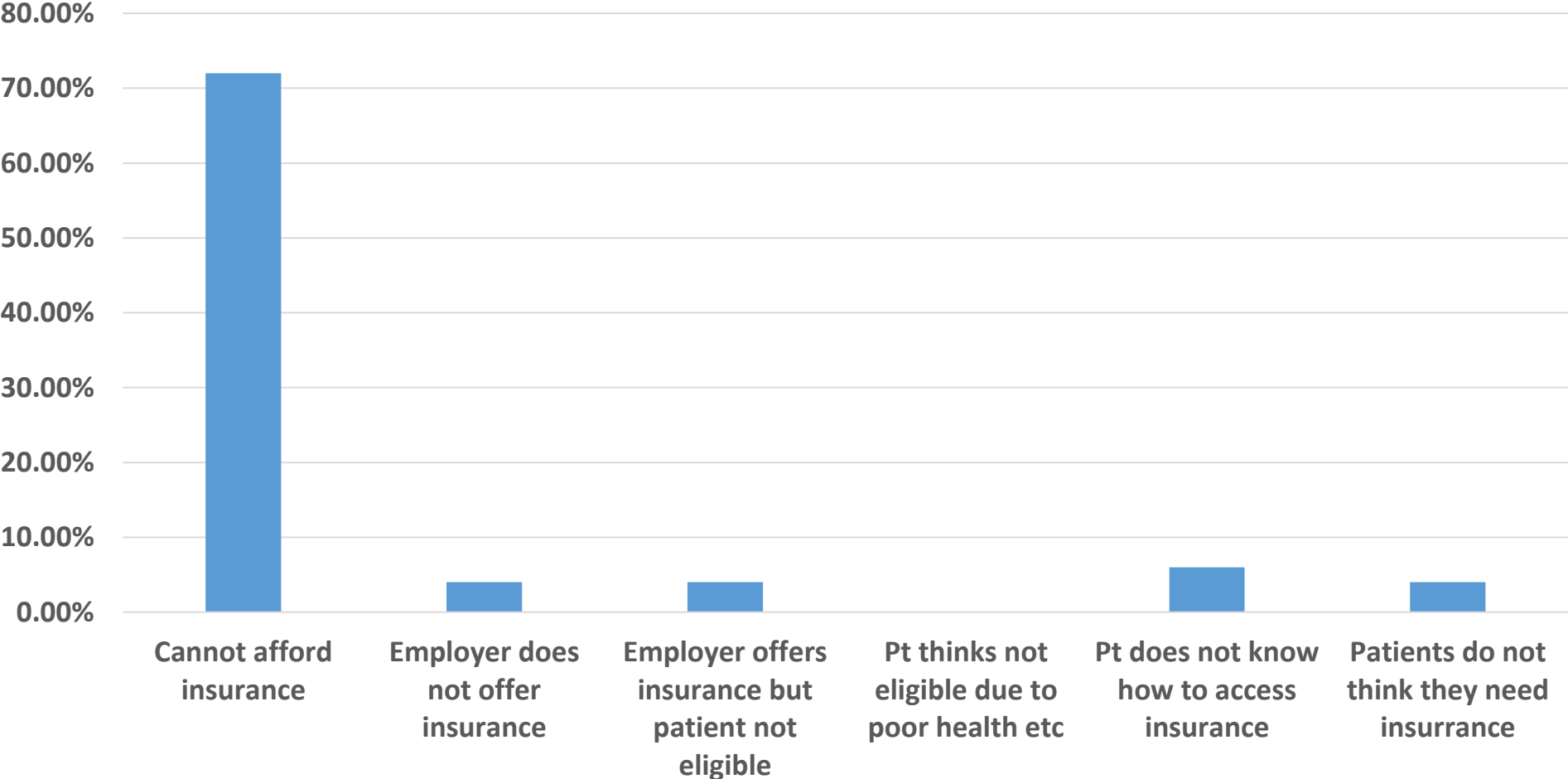
Survey to Oncology Staff – Summer 2018

- Survey conducted by survey monkey to HACCC staff and providers
- 54 surveys completed

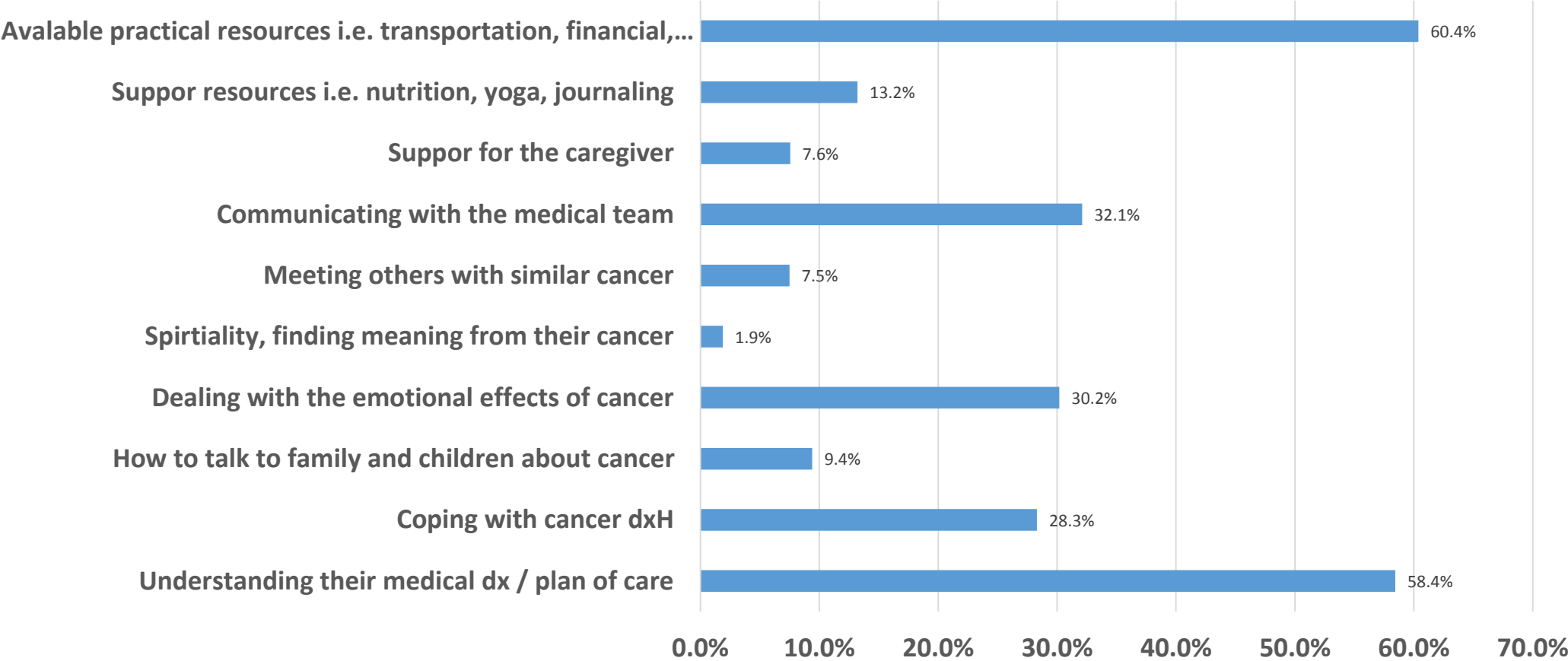
What is biggest obstacle you hear most often from the patients about trying to access cancer care?



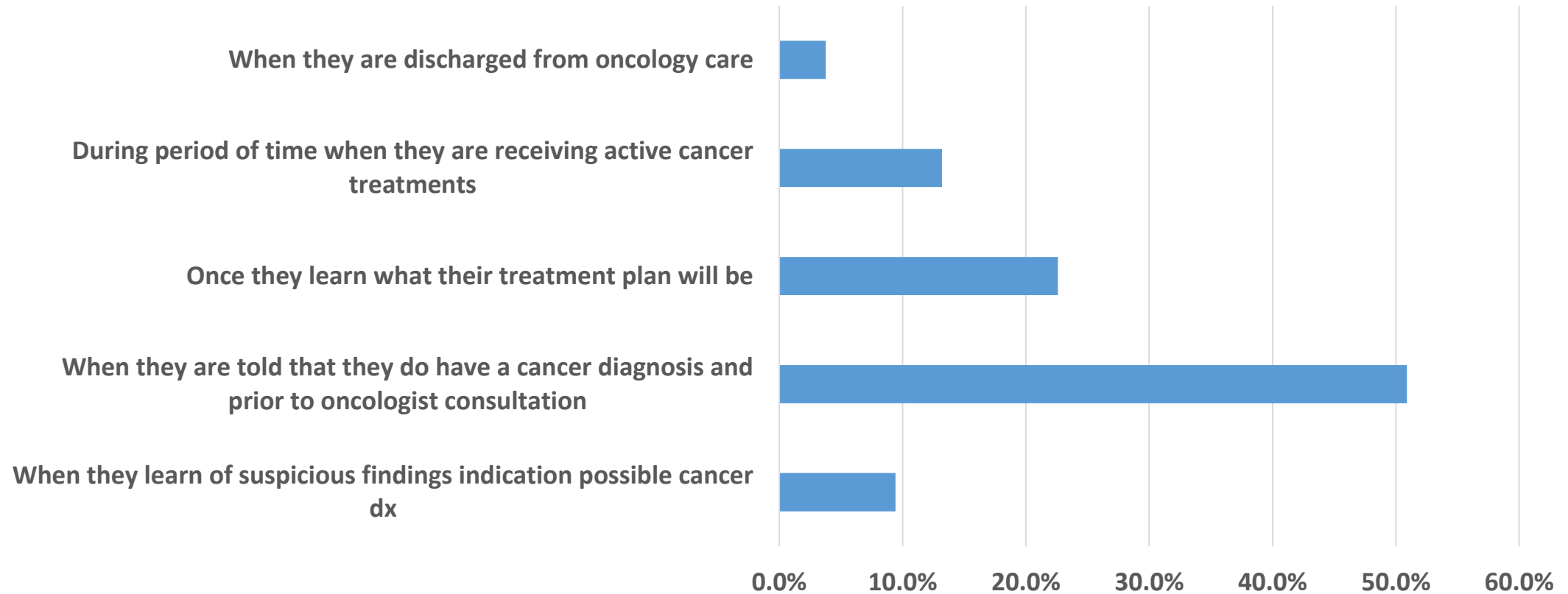
For patients who do not have health insurance, what is the most frequent reason they give for not having?



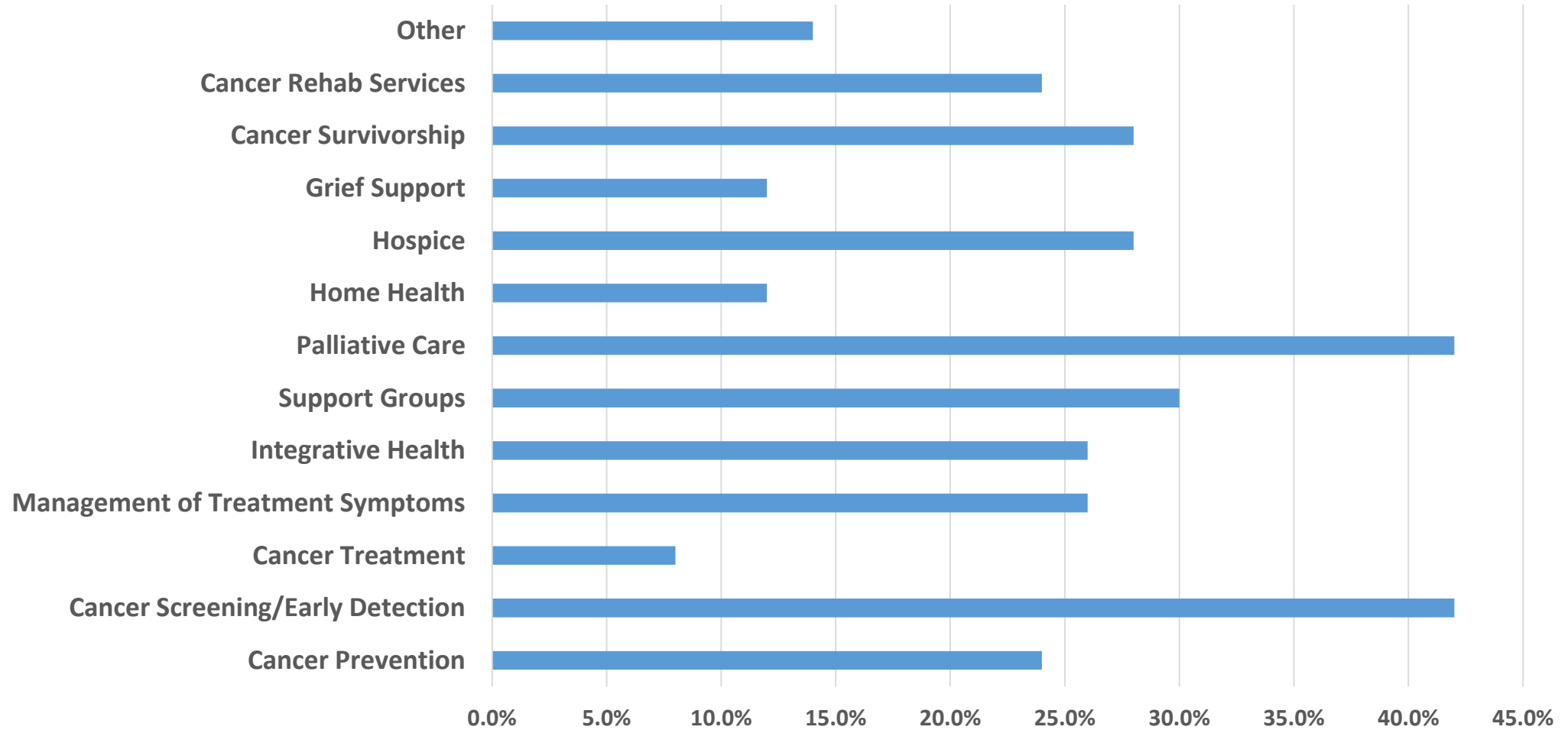
Which of the following topics do your patients frequently express a desire for more information?



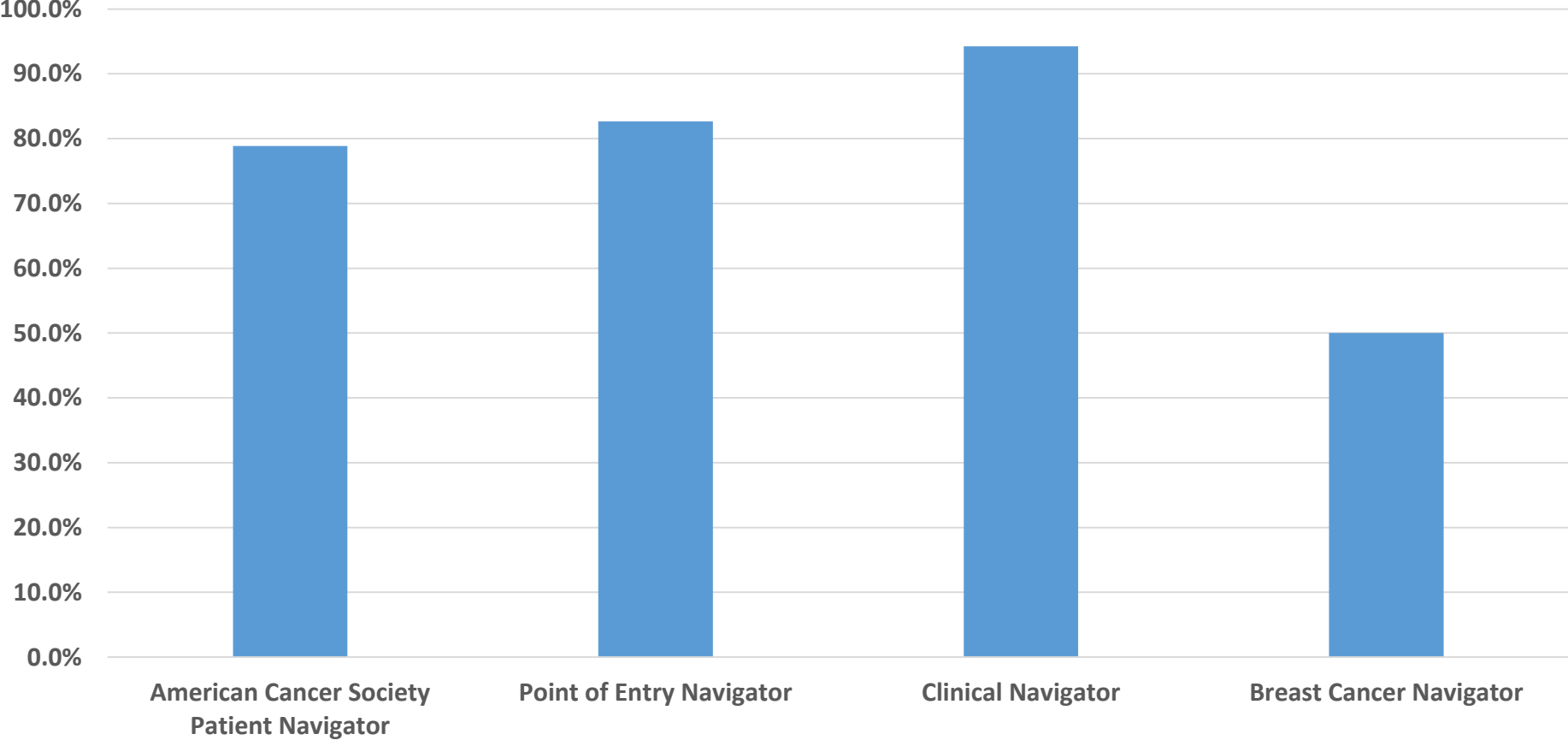
At what point in a patient's cancer journey do you feel they need the most psycho-social support, education, and guidance?



Do you feel patients have difficult accessing any of the following cancer related information or services?



Navigator Roles that staff are familiar with



**How confident do you feel your understanding is of
MaineGeneral's Cancer Care Program? (scale of 1 to 10)**

6.9

Oncology Areas of Opportunity

- Large % 65+ live alone
- Higher than US living in poverty, especially Somerset County
- Higher than average numbers of people on MaineCare, esp. Kennebec and Somerset Counties
- Higher levels of obesity and overweight than Maine and US, especially Somerset, Franklin and Waldo Counties
- Most counties in service area have higher levels of food insecurity than in Maine and US
- Almost $\frac{1}{4}$ adults in Franklin and Kennebec Counties have < 1 veg/day

Oncology Areas of Opportunity

- Franklin County has higher rates of chronic heavy drinking than Maine
- Somerset has higher rates of smoking and exposure to tobacco than Maine
- 18% adults in Kennebec Valley have diabetes or prediabetes
- 19% adults in Kennebec County receive outpatient mental health treatment - higher than state and much higher than US
- Doing well with cancer screening (much better than US)
 - Kennebec higher than state for cervical and colon
 - Somerset lower rates for cervical and colon
 - Franklin lower rates for colorectal

Oncology Areas of Opportunity

- Cancer mortality rates in Kennebec and Somerset are higher than in Maine and US *
- Cancer Incidence rates in Kennebec and Somerset are lower than Maine
- Kennebec County
 - New lung cancer higher US **
 - All cancer mortality higher than US*
 - Bladder Cancer higher than US*
- Somerset County
 - New lung cancer higher than Maine and US **
 - All cancer mortality higher than US*
 - Bladder Cancer higher than US*

Oncology Areas of Opportunity

- Knox County

- Melanoma, new > Maine and US **
- Female, late stage Breast Cancer > Maine

- Franklin County

- Bladder cancer, new > US

Oncology Areas of Opportunity

• Top Cancers MaineGeneral	#	% Stage 3 or 4
1. Lung/ Bronchus	252	21%
2. Breast	193	10%
3. Prostate	138	25%
4. Bladder	55	22%
5. Melanoma	54	5%

Oncology Areas of Opportunity

- Most frequent cancer diagnosed at stage III or IV

1. Tonsil	88%
2. Pancreatic	73%
3. Tongue	64%
4. Ovarian	63%
5. Esophageal	60%

Summary from patient surveys

- Most patients aged 51 – 80
- Most travel 11-29 miles with 20% more than 40 miles
- Most frequent barrier to getting to appointment is transportation
- 34% do not understand follow up plan after treatment
- 42% not familiar with role of navigator
- Services desired include help with understanding treatment plan, managing side effects, and knowing who to ask for help
- Would like to learn more about nutrition, emotional issues, financial issues

Summary from staff surveys

- Pt concerned about cost of care, transportation, coordinating appointments, and knowing who to call
- Pt want more information about practical resources like transportation, heat assistance etc., understanding plan of care and how to communicate with medical team