

## Eligibility Criteria

The original CTS population that enrolled at baseline & customary exclusions for analyses	Informed consent: for all CTS research, or just breast cancer research?	Did participants live in California or outside California at baseline?	Baseline population for analyses of all cancer and hospitalization endpoints	Exclude participants who were cancer survivors at baseline?	Analysis censoring date
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Total CTS Population

**133,473**

A grand total of 133,479 women completed the baseline survey in 1995-1996 and became original members of the California Teachers Study (CTS) .

Earlier CTS projects and publications described an initial population of 133,479. However, in recent years, two participants asked that their data be removed from all CTS analyses.

**Thus, today the CTS includes 133,477 women who consented to be included in CTS research.**

**Within that population of 133,477 women, the CTS makes a number of additional exclusions.**

One participant died one month before her completed baseline questionnaire was received by the CTS. That participant is excluded.

Two participants completed one of the follow-up questionnaires before they completed the preceding questionnaires. Those 2 participants are excluded.

One participant had missing values for many of the sections. This participant is excluded.

**After these exclusions, the eligible population for CTS analyses is 133,473 women.**

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### Breast cancer research only

Consent status	
Grand Total	<b>133,473</b>
Participant consented to breast cancer research only	22
Participant consented to all CTS research	133,451

When participants joined the CTS, they were given the option to have their CTS data used for research on breast cancer only, or for all CTS research on all topics.

Twenty-two participants indicated they only wanted their CTS data used for breast cancer research.

When a CTS project does not include breast cancer, we exclude these 22 participants from that project.

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### In CA at baseline

California resident at baseline	
Grand Total	<b>133,451</b>
Participant lived outside California at baseline	8,847
California resident at baseline	124,604

For cancer and hospitalization endpoints, the CTS relies on linkage with data from the State of California.

The California Cancer Registry (CCR) provides data on cancer endpoints.

The Office of Statewide Health Planning and Development (OSHDP) provides data on hospitalization endpoints.

Because both of those data sources only include California residents, those linkages are considered complete only for the CTS participants who reside in California. The CCR and OSHDP data would not capture endpoints that occurred among CTS participants who lived outside of California at baseline. Therefore, we exclude participants who lived outside of California at baseline.

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**124,604**

Analyses that rely on the California Cancer Registry for cancer endpoints or the California Office of Statewide Health Planning and Development for hospitalization endpoints can use this population of 124,604 as the number of CTS participants who were eligible for follow-up at baseline.

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Analyses of cancer can also exclude participants who had cancer at or before baseline.

There are two ways to identify CTS participants who had cancer at baseline:

- 1. Linkage with the California Cancer Registry identified 8,074 participants who had a record of a cancer diagnosis before the date they completed the CTS baseline questionnaire.
- 2. The CTS baseline questionnaire asked all participants to self-report whether they had ever been diagnosed with cancer; 5,586 said yes that did not also have a CCR record before baseline.

Cancer survivor at baseline (toggle the arrows below to view options)

CCR cancer at baseline?

Baseline cancer status

Grand Total	124,604
Yes	8,074
No	116,530

The eligible analytic population after excluding participants with CCR-based cancers at baseline is 116,530.

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## Analysis Censoring Date

Year of Analysis censoring date	
1995	32
1996	1,189
1997	1,687
1998	1,672
1999	1,670
2000	1,754
2001	1,959
2002	1,760
2003	1,966
2004	2,140
2005	2,486
2006	2,226
2007	1,897
2008	1,828
2009	2,006
2010	2,486
2011	1,946
2012	2,300
2013	2,397
2014	1,805
2015	87,398
Grand Total	124,604

For participants that are deceased or have moved out of California, the analysis censoring date is the earlier date between their date of move out of California and their date of death. For participants who are alive and have not moved out of California, their analysis censoring date is 12/31/2015, the last linkage date for mortality.

## Welcome to the StandardData\_MasterWorkbook!

This workbook is designed to help you explore **CTS baseline questionnaire data** and **cancer endpoints**.

The workbook includes several dashboards and worksheets that contain data visualizations of relevant variables.

The dashboards and worksheets are labeled by topic: "Background," Reproductive History," and so on.

**Check out the first dashboard, which allows you to select baseline variables and view a crosstab!**

You can view these dashboards and worksheets, build on them, or make new dashboards and worksheets.

You can toggle through them using the ◀ ▶ symbols at the bottom right corner.

If you decide you want to make any changes, please be sure to first save a copy of this workbook to your Documents or project folder by adding your initials after "MasterWorkbook" in the file name.

For example, instead of "StandardData\_MasterWorkbook", save the file as StandardData\_MasterWorkbook\_ES.

To make your own worksheets, right-click on a worksheet, rename the duplicate sheet, and make all the changes you want.

To change the visualizations, click on the "Show Me" option on the upper-right corner.

To interact with a particular worksheet within a dashboard, first click on the dashboard; then click on the upper-right icon for "Go to Sheet" (the 2nd from the top); and then interact with the data in the worksheet that launches after you've clicked "Go to Sheet".

"Dimensions" are variables. You can drag any of these dimensions into the "Rows" or "Columns" to see frequencies of the specific variables you are interested in.

Please refer to the data dictionary for detailed descriptions of the variables and their values.

Questions or suggestions? All feedback is welcome. Please send your thoughts to Emma, Nadia, or Jim. Like what you see, or want to learn more about these data? Contact Emma and Nadia, who did the heavy lifting to create this StandardData\_MasterWorkbook.

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Use the dropdowns below to select two variables from the baseline questionnaire to create a crosstab.

Select the first variable:

Diabetes At Baseline

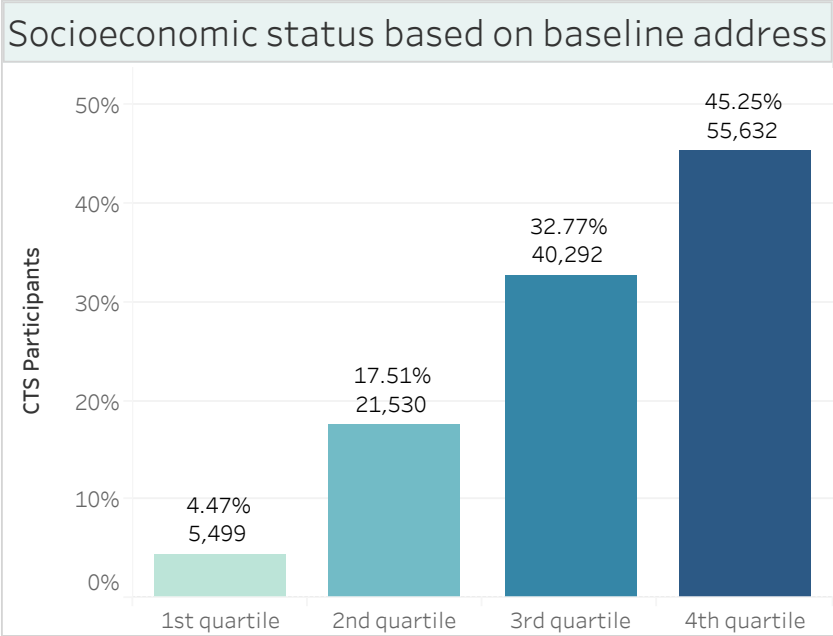
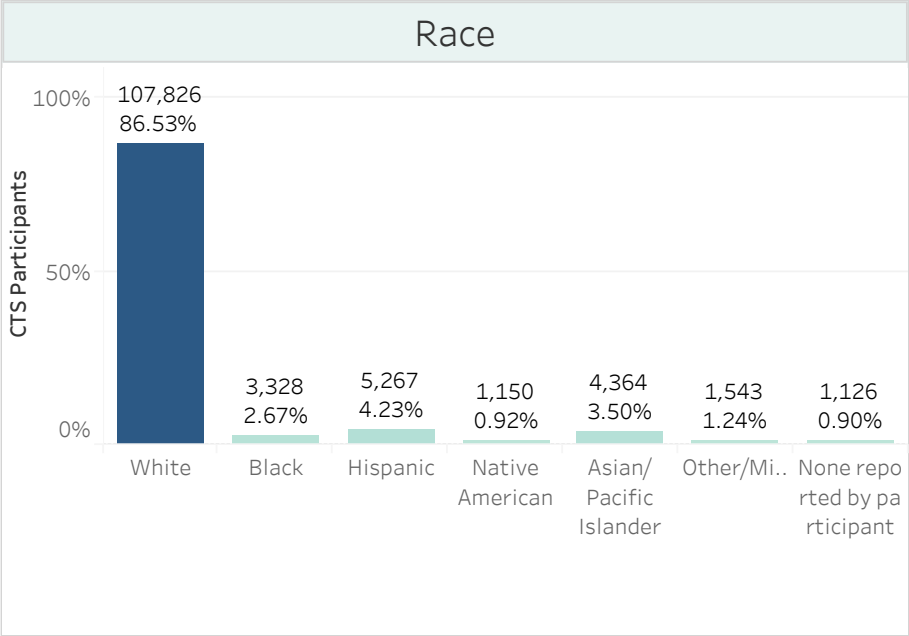
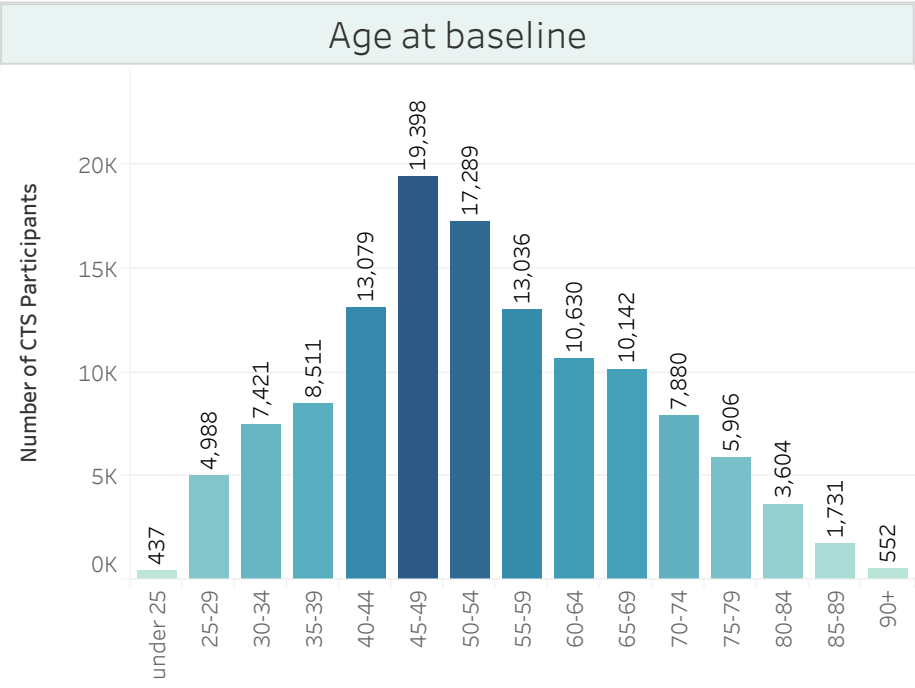
Select the second variable:

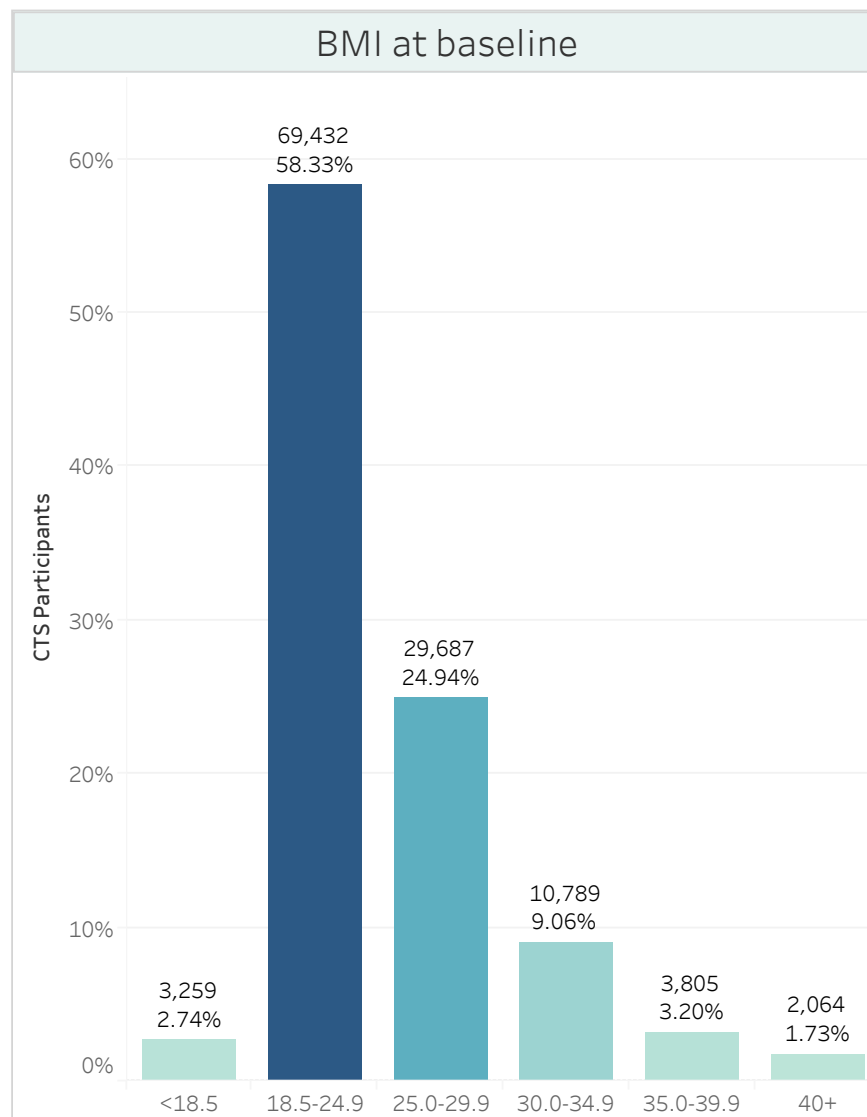
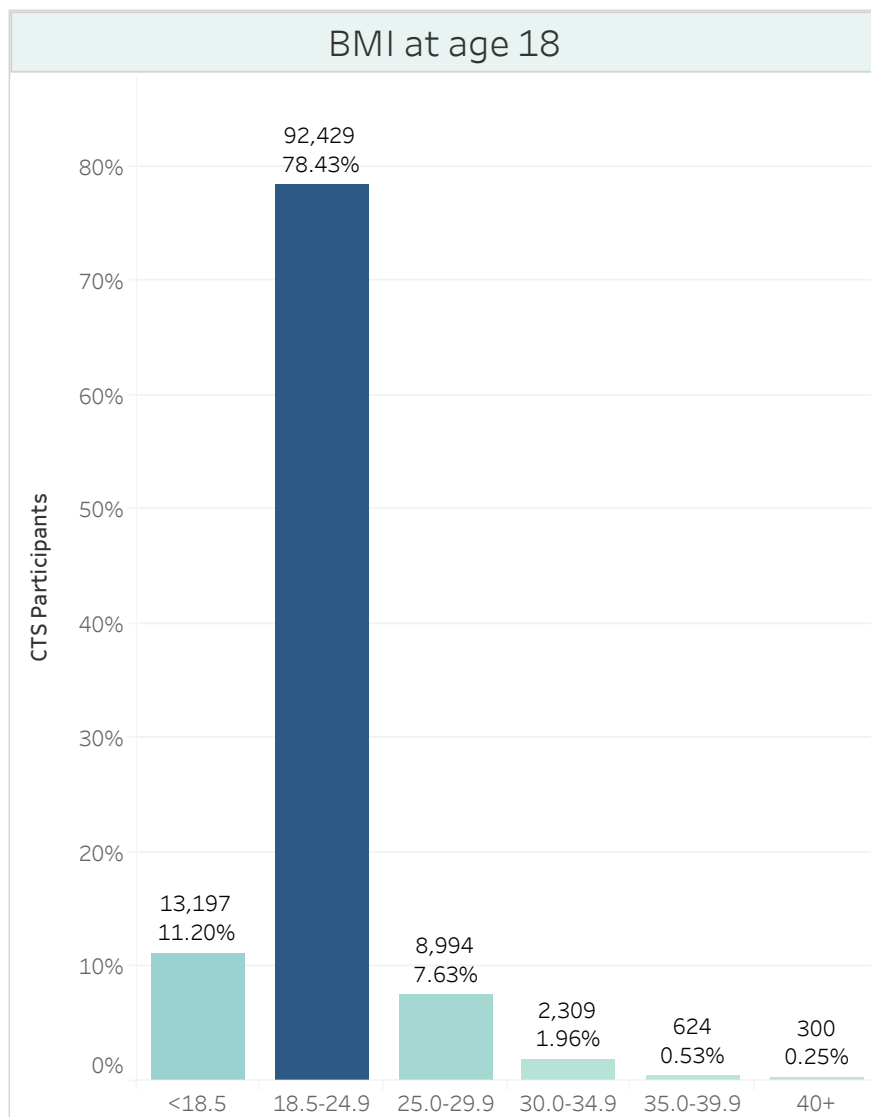
Bmi At Baseline

		Variable 1		Number of Participants 46  68,424
Variable 2	No	Yes	Grand Total	
Null	5,321	247	5,568	
<18.5	3,213	46	3,259	
18.5-24.9	68,424	1,008	69,432	
25.0-29.9	28,717	970	29,687	
30.0-34.9	10,080	709	10,789	
35.0-39.9	3,451	354	3,805	
40+	1,825	239	2,064	
Grand Total	121,031	3,573	124,604	



Age at baseline		
Age At Baseline	Number of participants	Percent of participants
under 25	437	0.35%
25-29	4,988	4.00%
30-34	7,421	5.96%
35-39	8,511	6.83%
40-44	13,079	10.50%
45-49	19,398	15.57%
50-54	17,289	13.88%
55-59	13,036	10.46%
60-64	10,630	8.53%
65-69	10,142	8.14%
70-74	7,880	6.32%
75-79	5,906	4.74%
80-84	3,604	2.89%
85-89	1,731	1.39%
90+	552	0.44%
Grand Total	124,604	100.00%

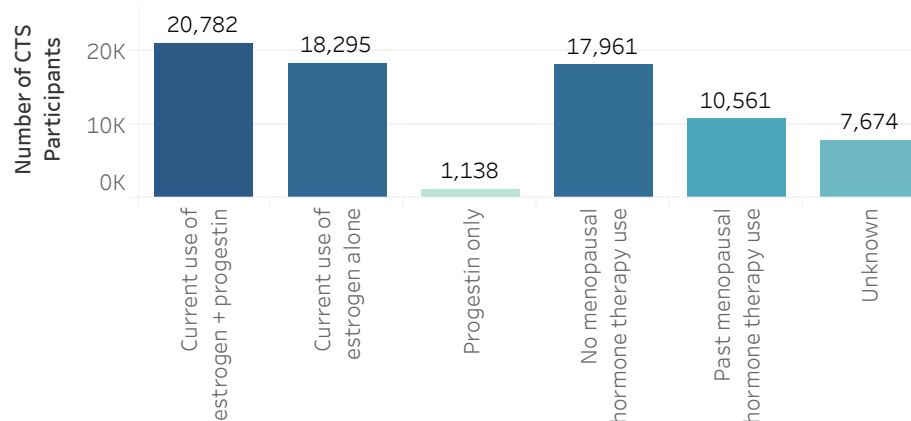




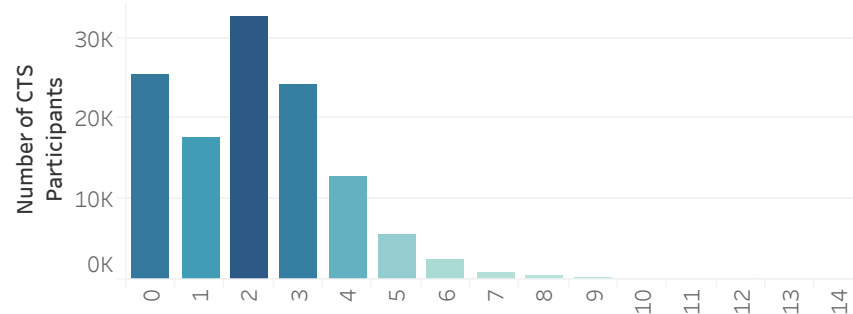
## Menopausal status at baseline

Premenopausal	48,193
Peri-menopausal	2,519
Postmenopausal due to medication/chemo/radiation	1,489
Postmenopausal due to other reason	4,006
Postmenopausal unknown type of menopause	1,763
Postmenopausal: bilateral oophorectomy	10,427
Postmenopausal: hysterectomy at age 56+	156
Postmenopausal: hysterectomy at age <56 but aged 56+ at baseline	8,063
Postmenopausal: natural menopause	37,242
Unknown menopausal status	10,746
<b>Grand Total</b>	<b>124,604</b>

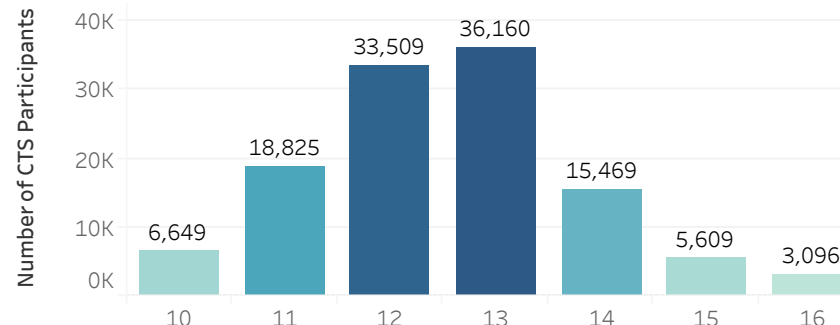
## Hormone therapy use



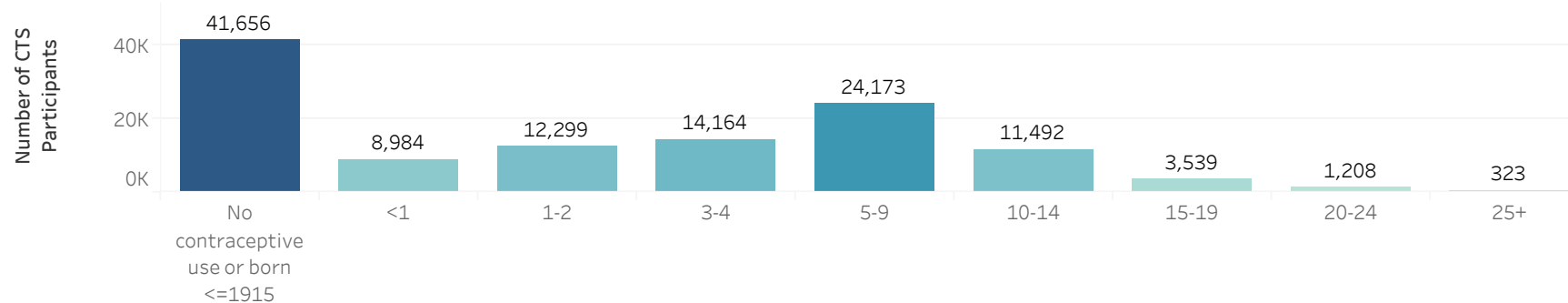
## Number of pregnancies at baseline



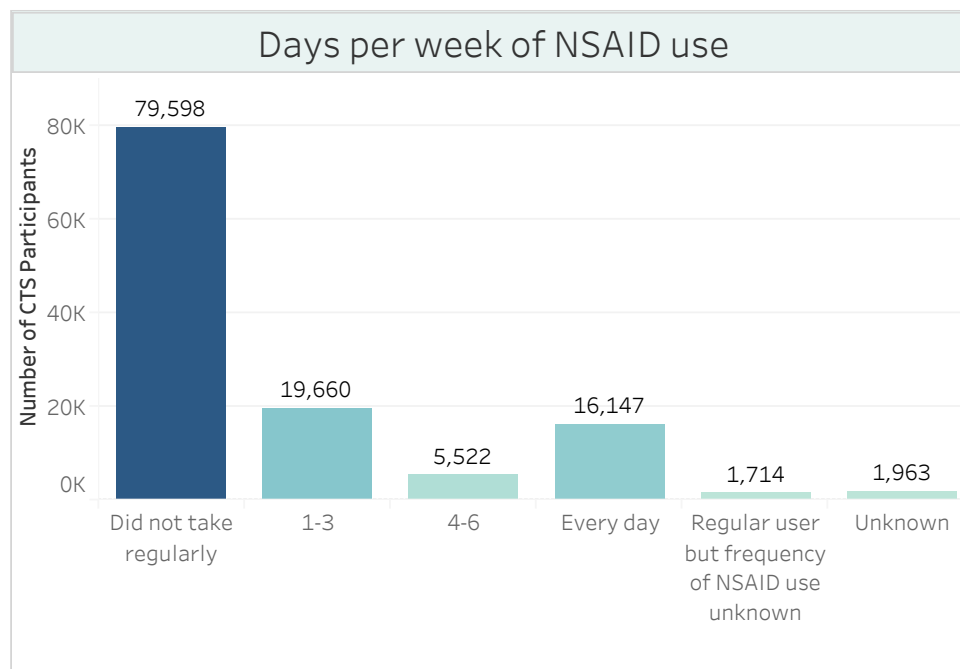
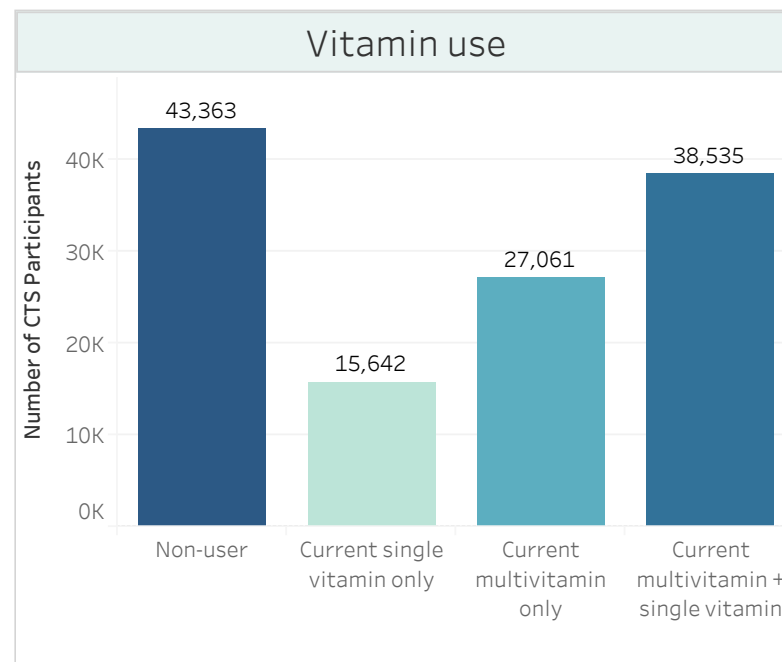
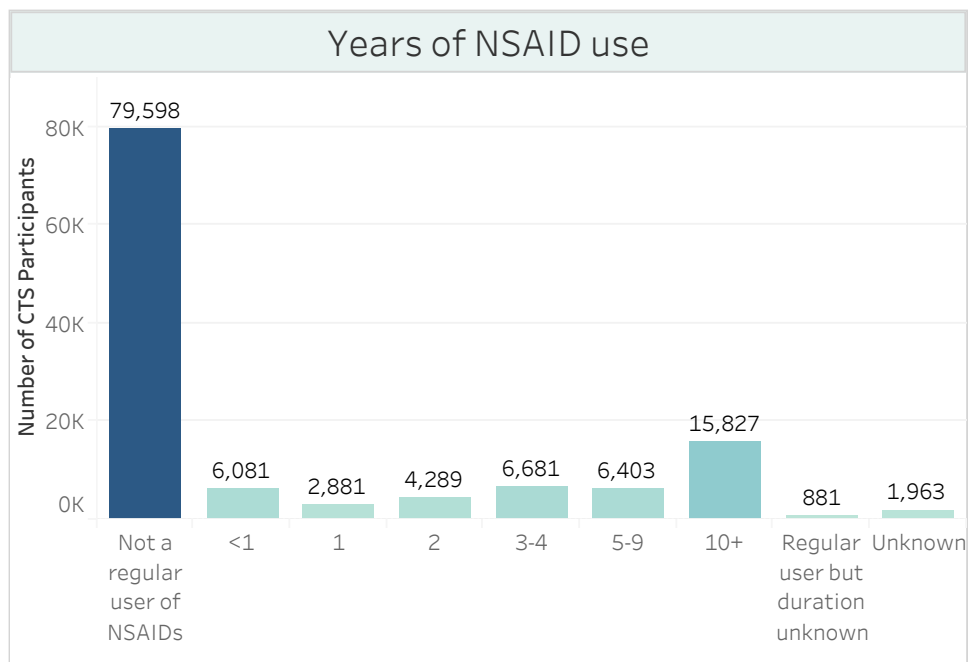
## Age at menarche

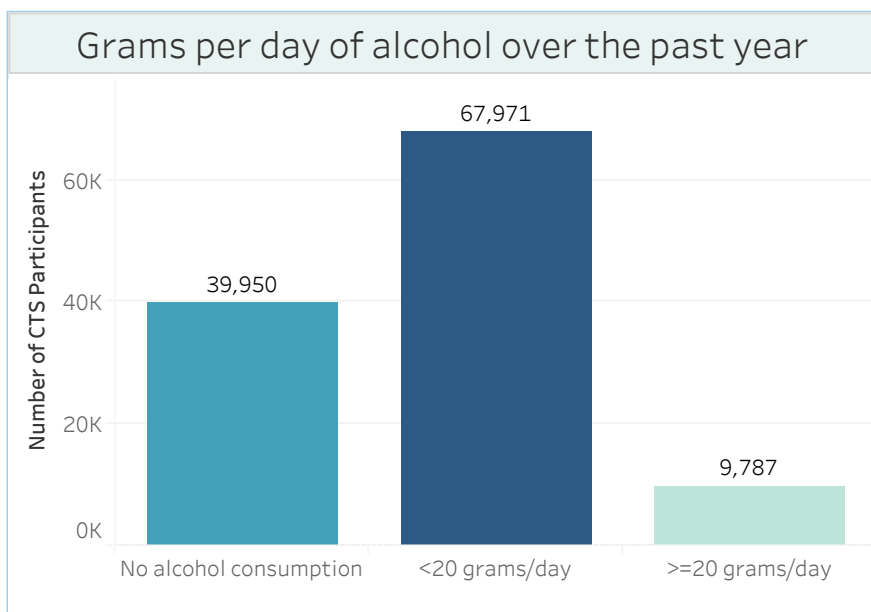
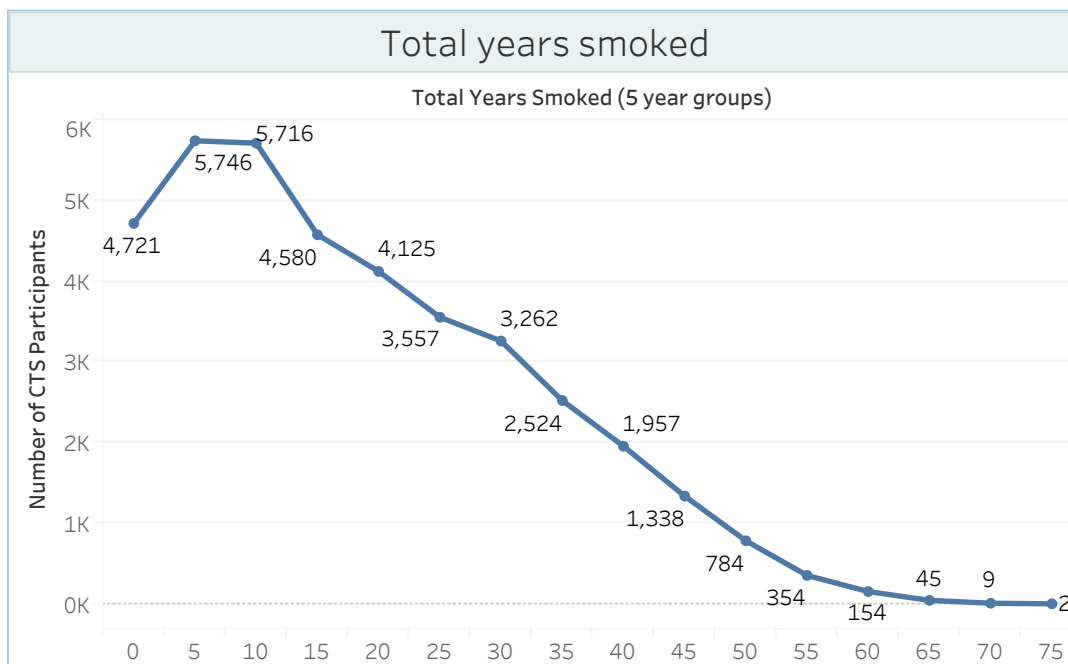
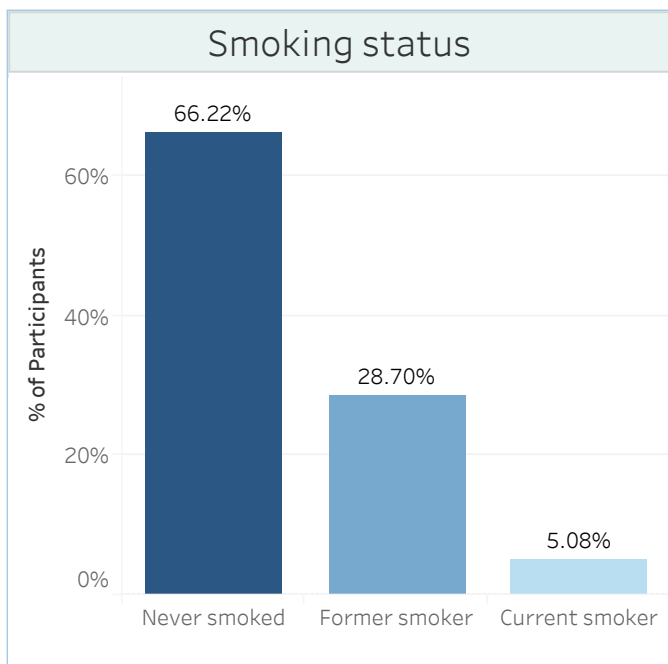


## Years taking oral contraceptives



Tubal ligation x oophorectomy x hysterectomy																
Hysterectomy At Baseline	Null					Never had tubal ligation					Yes, had tubal ligation					Grand Total
	Both Ovaries Removed	One Ovary Removed	Never	Null	Unknown	Both Ovaries Removed	One Ovary Removed	Never	Null	Unknown	Both Ovaries Removed	One Ovary Removed	Never	Null	Unknown	
Yes, had hysterectomy	118	23	231	162	28	12,544	2,719	9,000	227	931	1,831	336	1,238	26	62	29,476
Never had hysterectomy	2	7	857	183	1	219	2,197	76,118	150	84	20	442	12,016	28	21	92,345
Null	9	2	116	151	2	244	101	1,750	31	19	24	15	292	24	2	2,782
Unknown												1				1
Grand Total	129	32	1,204	496	31	13,007	5,017	86,868	408	1,034	1,875	794	13,546	78	85	124,604

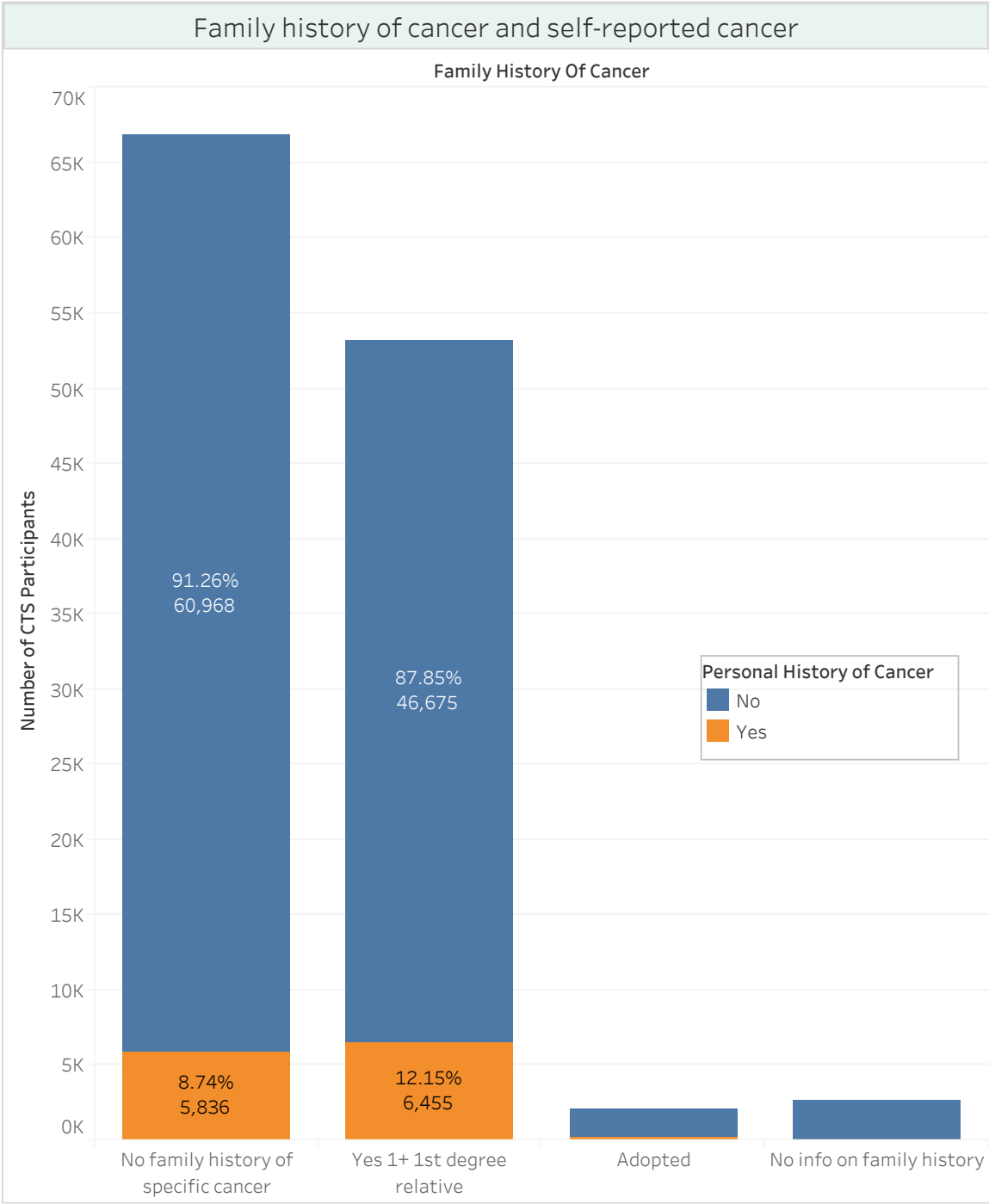


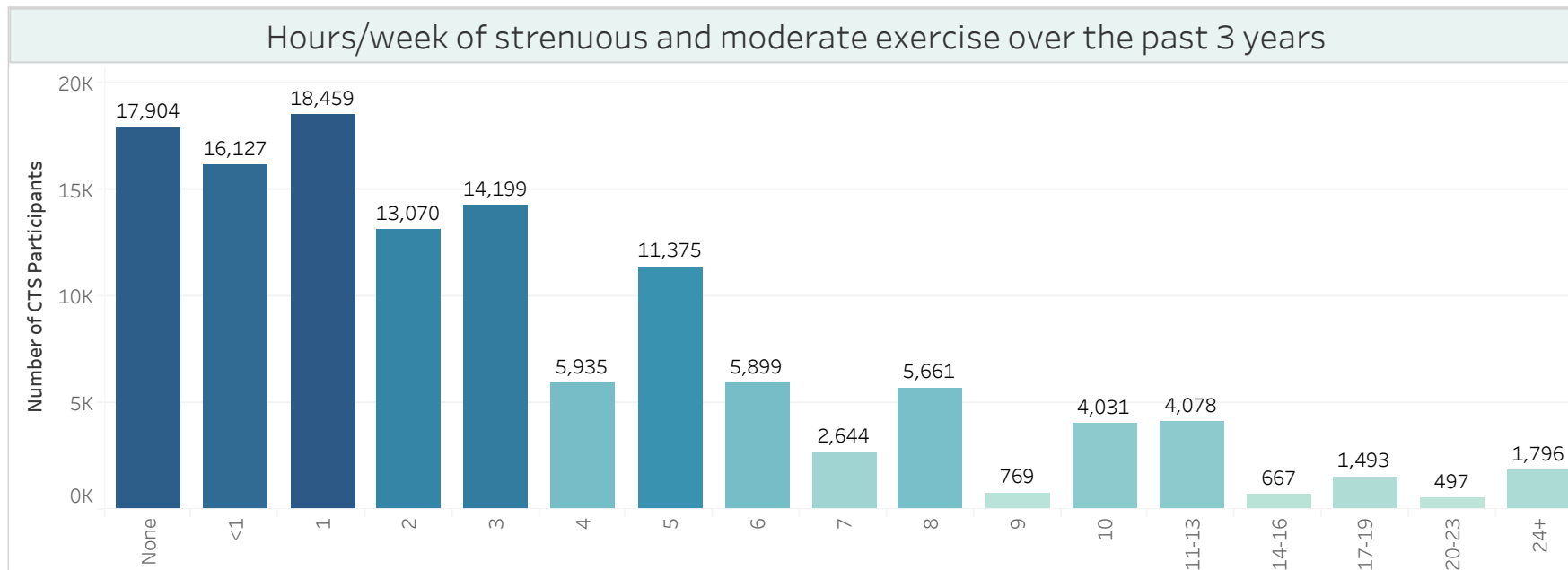
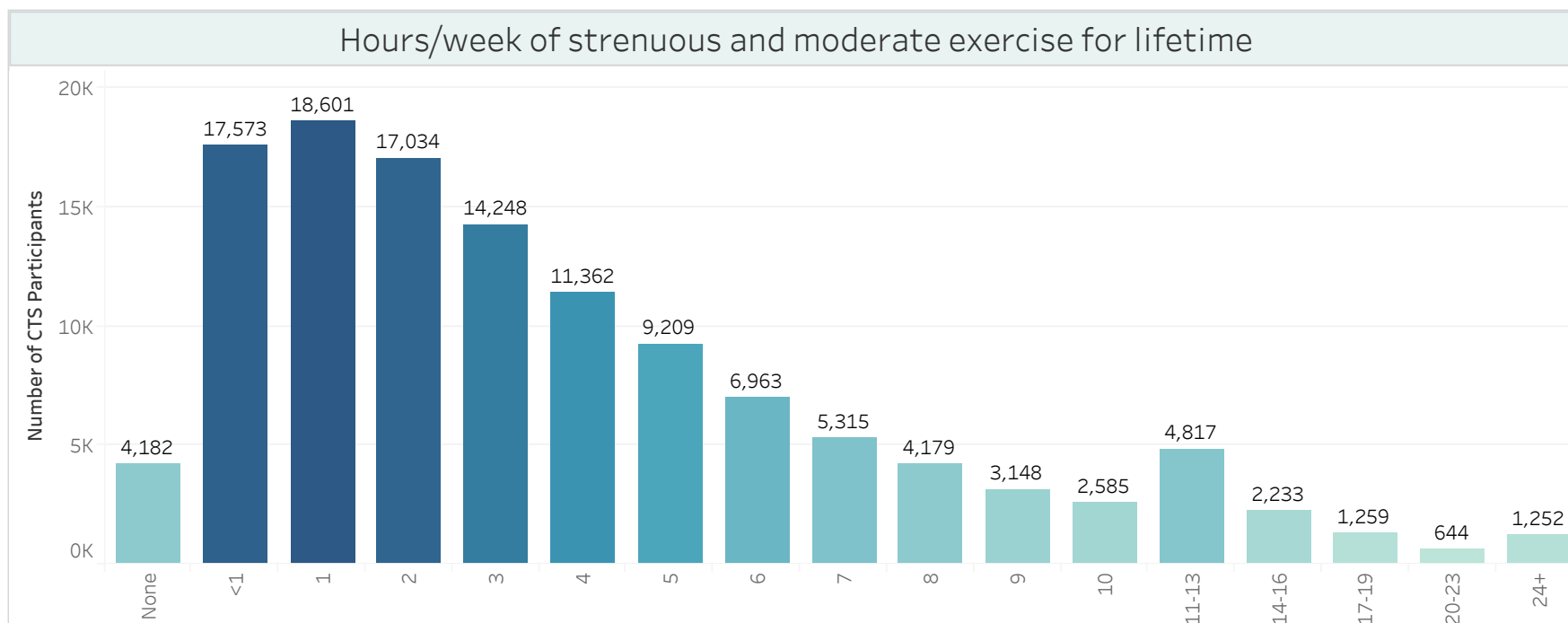


Personal history of cardiovascular disease at baseline	
Yes	3,047
No	121,557
Grand Total	124,604

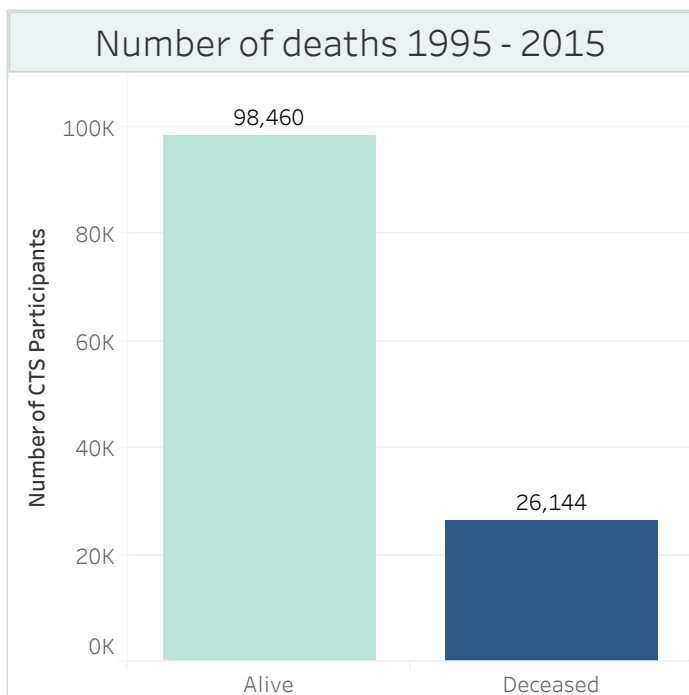
Personal history of diabetes at baseline	
Yes	3,573
No	121,031
Grand Total	124,604

Personal history of high blood pressure at baseline	
Yes	21,609
No	102,995
Grand Total	124,604

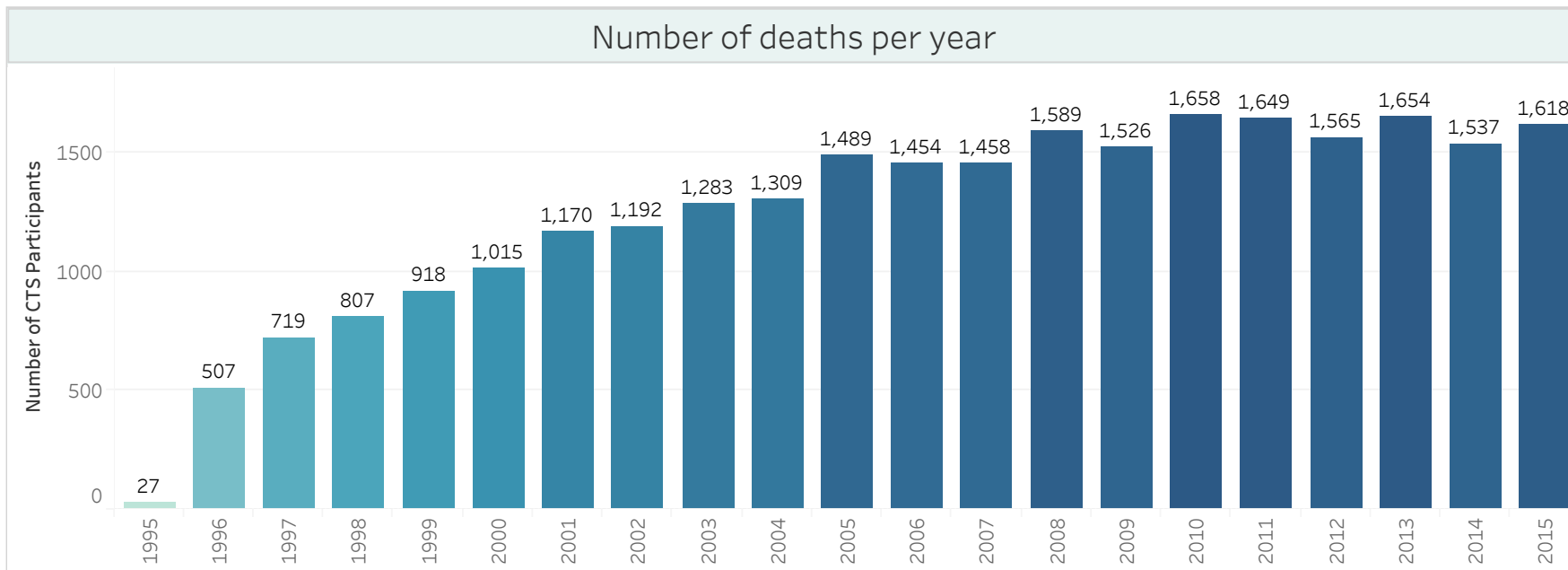






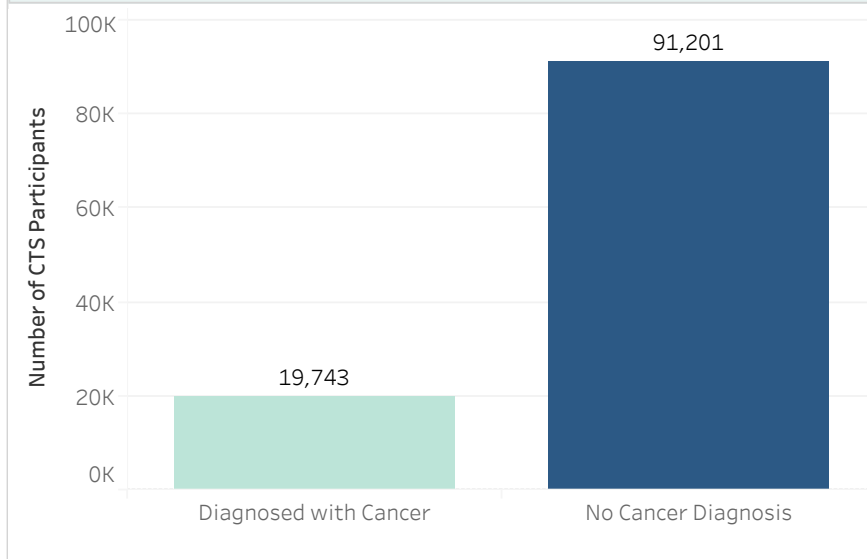


26,144 deaths have occurred within the CTS population between the start of the study in 1995 and the most recent mortality data linkage (12/31/2015).\*\*



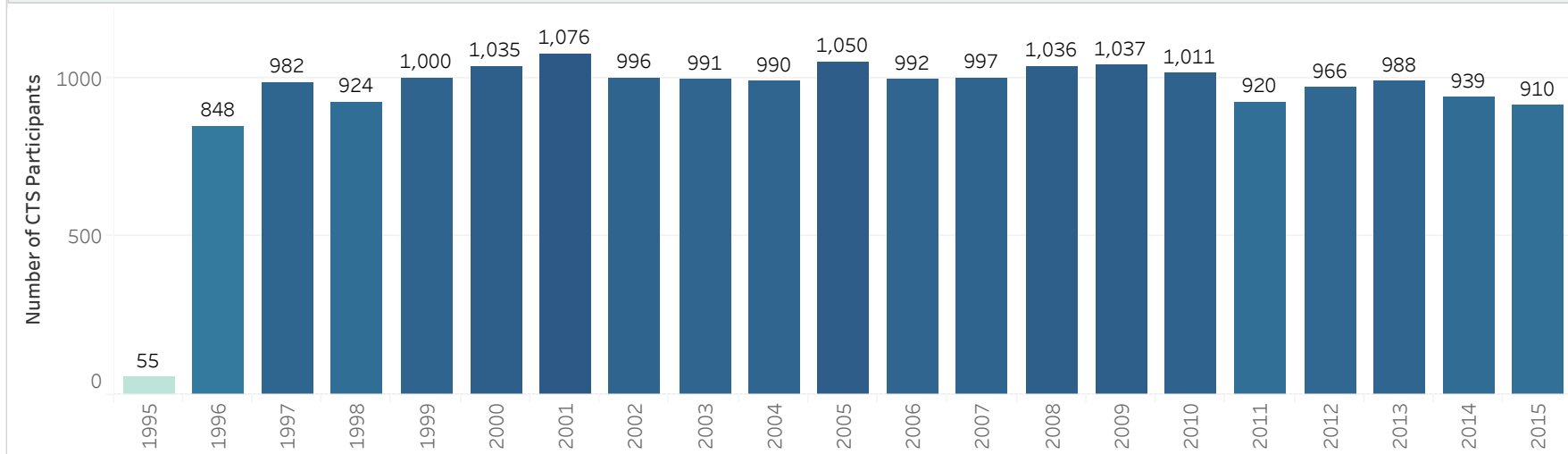
\*\*The sources for mortality data are the National Death Index (NDI), Death Master File (DMF) and relative report.

### Number of cancer diagnoses 1995 - 2015



19,743 CTS participants were diagnosed with their first cancer between the years of 1995 and 2015.

### Number of cancer diagnoses per year



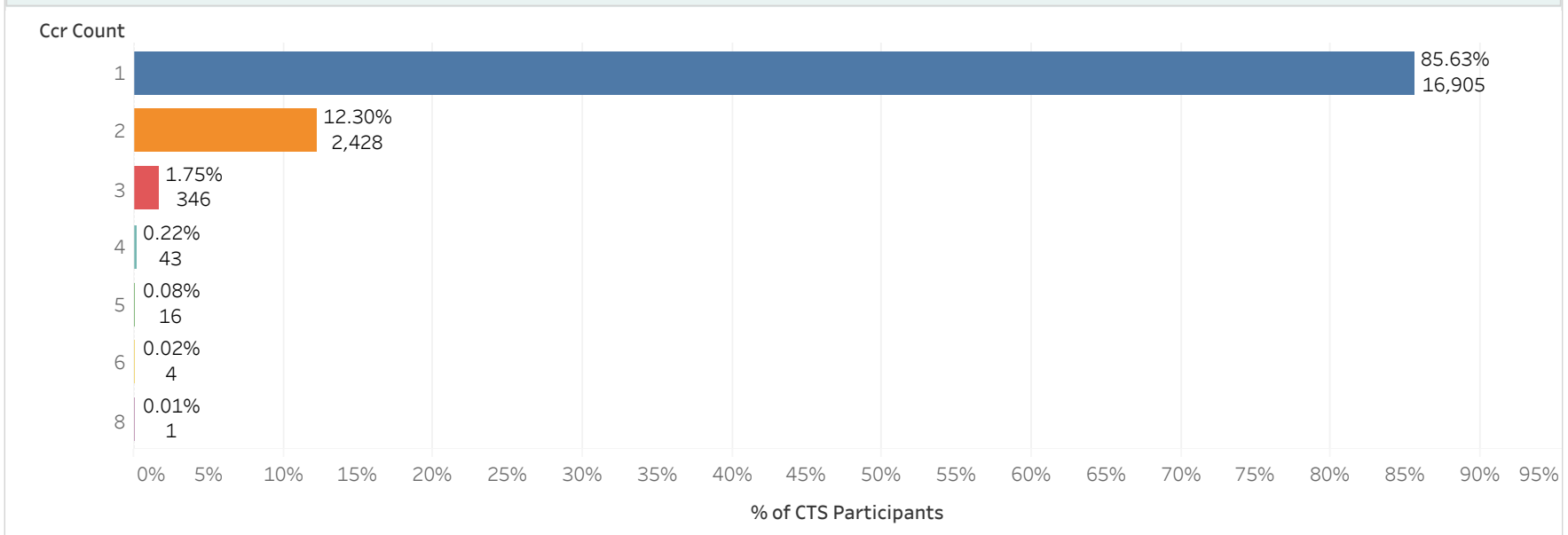
\*\*Participants with prevalent cancer at or before baseline have been excluded.

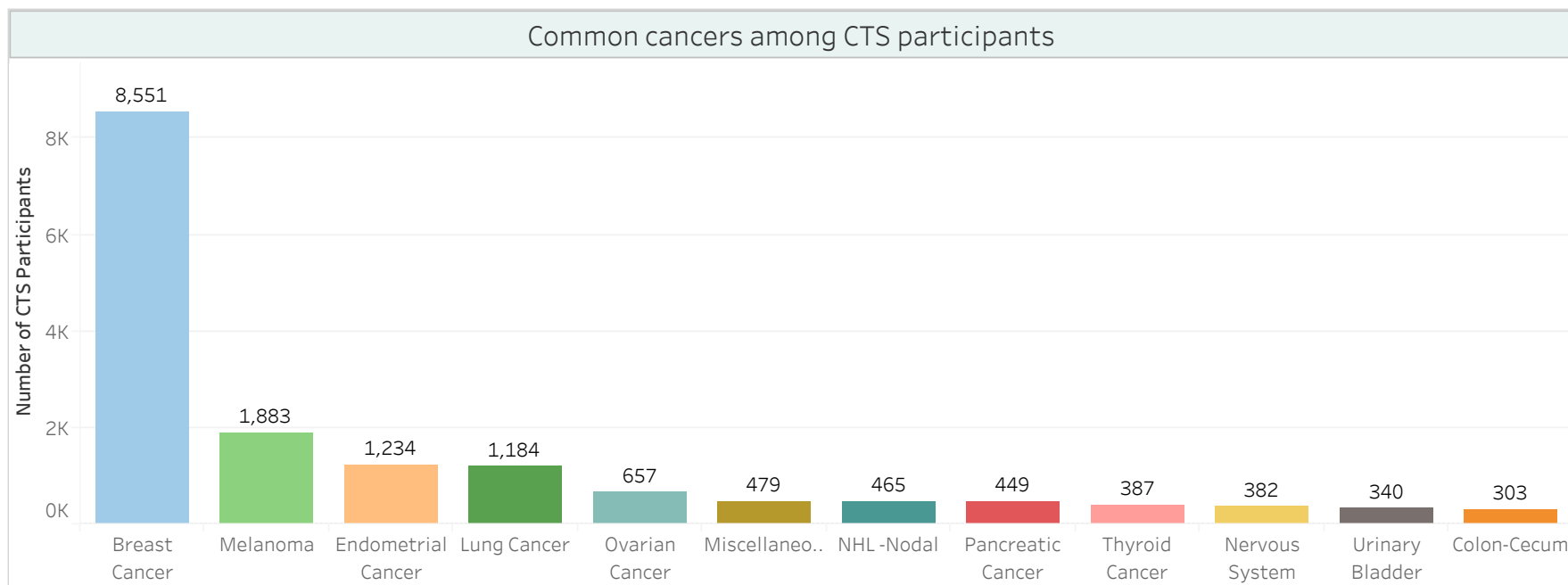
## Number of cancers per participant

Ccr Count	Number of participants	% of CTS Participants
1	16,905	85.63%
2	2,428	12.30%
3	346	1.75%
4	43	0.22%
5	16	0.08%
6	4	0.02%
8	1	0.01%
Grand Total	19,743	100.00%

Most CTS participants (85.20%) who were diagnosed with their first cancer between 1995 and 2015 were diagnosed with only one cancer. The maximum number of cancer diagnoses for any one participant in this time period was 8.

## Number of cancers per participant





Percentage of common cancers by type - first cancer	
Breast Cancer	50.98%
Melanoma	12.14%
Endometrial Cancer	8.21%
Lung Cancer	6.94%
Ovarian Cancer	3.94%
Miscellaneous	2.96%
NHL -Nodal	2.89%
Pancreatic Cancer	2.73%
Nervous System	2.50%
Thyroid Cancer	2.49%
Urinary Bladder	2.22%
Colon-Cecum	1.99%
Grand Total	100.00%

Percentage of common cancers by type - all cancers	
Breast Cancer	52.42%
Melanoma	11.54%
Endometrial Cancer	7.56%
Lung Cancer	7.26%
Ovarian Cancer	4.03%
Miscellaneous	2.94%
NHL -Nodal	2.85%
Pancreatic Cancer	2.75%
Thyroid Cancer	2.37%
Nervous System	2.34%
Urinary Bladder	2.08%
Colon-Cecum	1.86%
Grand Total	100.00%

\*\*Participants with cancer at or before baseline were excluded.

## Years from 1st Cancer Diagnosis Date to Date of Death

1st Cancer Site (Click Arrow to Select)  
Breast (26000)

