

## GENDER AND ETHNICITY

### Overview

#### Purpose

The purpose of this report is to overview the demographic characteristics of OHSU study subjects. The primary goal of this report is to provide a baseline for the diversity of OHSU clinical research study subjects.

#### Scope

This report looks at OHSU study subject’s gender, ethnicity, race, age, and geographic location of Oregon resident study participants. Results are presented separately for all OHSU study subjects, for participants of cancer studies, and for Oregon residents.

To contextualize study subject diversity, this report provides state level demographics for ethnicity, race and location of Oregon residents.

#### Conclusions

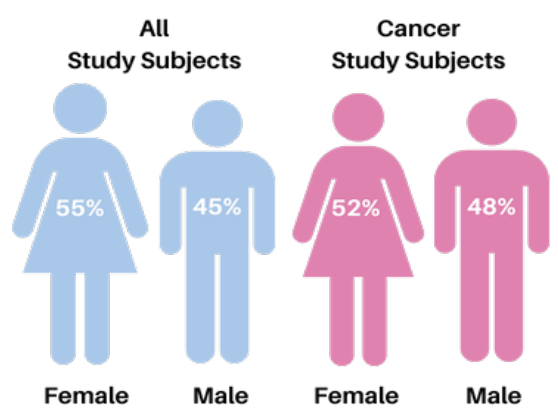
OHSU engages research subjects from all age groups. Cancer subjects, in particular, appear to align with the age-related demographics of the disease. Approximately 16% of OHSU research subjects come from rural areas of Oregon, and an additional 16% come from 33 other states. The race and ethnicity of OHSU research subjects are relatively congruent with race and ethnicity statistics for the state of Oregon.

Overall, OHSU is recruiting a wide range of subjects and has a solid baseline from which to increase diversity. Suggestions for further analysis include looking at recruitment demographics for specific disease or research categories.

	OHSU Study Subjects					
	All Subjects		Cancer Subjects		Oregon Residents	Oregon State
	n	%	n	%	%	%
Unknown	217	3.9%	156	7.5%	1.7%	NA
Not Hispanic or Latino	4,857	86.9%	1762	85%	89.1%	88.3%
Hispanic or Latino	450	8.0%	142	6.8%	8.0%	11.7%
Declined	65	1.2%	20	1.0%	1.2%	NA
Missing	548	NA	40	NA	NA	NA
Total	5,589*	100%	2120	100%	100%	100%

\* Totals and percentages reflect complete cases for the ethnicity field.

#### Age of OHSU Study Participants



### Methods : Data Sources

#### Study Subject Data

OHSU study subject data was obtained from the electronic Clinical Research Information System (i.e. eCRIS). All data was obtained on 10/02/2018.

#### Oregon Demographic Data

Oregon state demographics were obtained from the 2017 U.S. Census population estimates (see <https://www.census.gov/quickfacts/or>).

6137

All OHSU Research Subjects in FY2018

There were **6137** research subjects who were enrolled across **490** clinical trial studies at OHSU, from July 1st 2017 to July 1st 2018 (i.e., FY2018)

CANCER STUDY SUBJECTS

34%

Of all OHSU Study Subjects participate in cancer research studies ( n = 2,120)

FEMALE STUDY SUBJECTS

55%

of all OHSU Study Subjects identify as females (n = 3,355)

HISPANIC OR LATINO

8%

of all OHSU Study Subjects identify as Hispanic or Latino (n = 450)

NON WHITE

16%

of all OHSU study subjects have a non white racial identity (n = 906)

## RACE AND AGE

### Methods : Analysis

#### Comparing Data

Ethnicity and residency statistics were compared to state demographics. These comparisons did not use any statistical tests.

#### Computing Percentages

Each percentage uses the total number of non missing cases in the denominator (i.e. valid percentages)

Percentages of cancer study subjects are reported using the total number of cancer study subjects in the denominator.

#### Suppression Strategy

To protect study subject identity, values were suppressed if the count was less than 10 and the valid percentage was less than 10%.

#### Inclusion Criteria and Filtering

Study subject data is limited to clinical trial studies. Subjects were included if they were enrolled or had a first study visit within FY2018 (i.e. 07/01/2017, 07/01/2018).

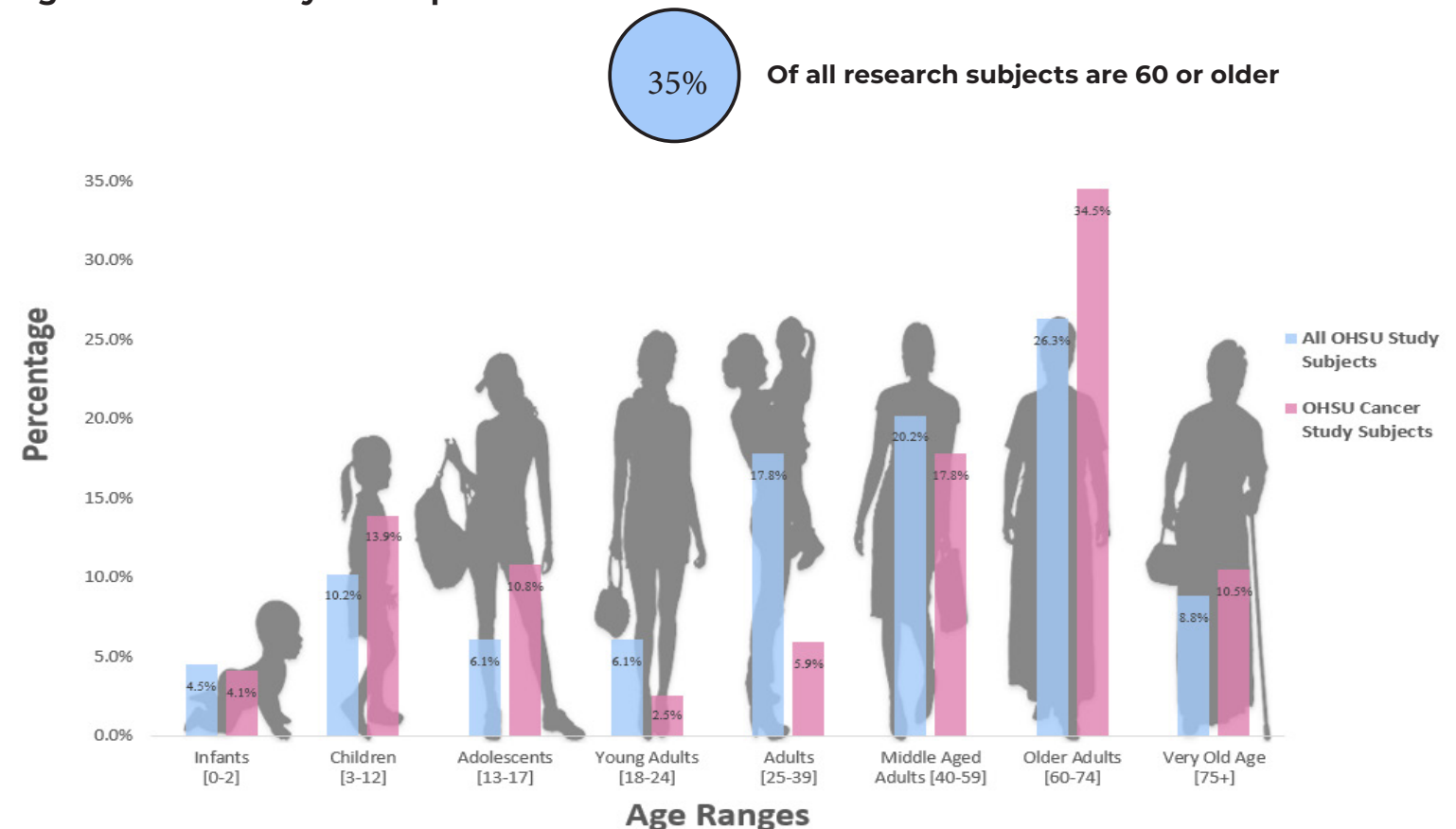
All demographic variables are taken directly from study subject records. Subjects were identified and de duplicated by their participant ID.

#### Race of OHSU Study Subjects

	OHSU Study Subjects						
	All Subjects		Cancer Subjects		Oregon Residents		Oregon State
	n	%	n	%	n	%	%
African American	107	1.9%	29	1.4%	75	2.0%	2.2%
American Indian or Alaska Native	69	1.2%	25	1.2%	41	1.1%	1.8%
Asian	170	3.0%	56	2.7%	119	3.2%	4.7%
Declined	126	2.3%	37	1.7%	88	2.3%	NA
Multiracial	170	3.0%	59	2.8%	117	3.1%	3.8%
Native Hawaiian or Other Pacific Islander	26	0.5%	Suppressed		11	0.3%	0.4%
Unknown	239	4.3%	164	7.8%	78	2.1%	NA
White	4,683	83.8%	1701	82.0%	3,214	85.9%	87.1%
Missing	547	NA	40	NA	71	NA	NA
Totals	5,589	100%	2,080	100%	3,743	100%	100%

\* Totals and percentages reflect complete cases for the ethnicity field.

#### Age of OHSU Study Participants



# OHSU Study Subject Diversity

OFFICE OF RESEARCH IMPACT

Oregon Clinical & Translational Research Institute (OCTRI)

## STUDY SUBJECTS ACROSS OREGON COUNTIES

### Methods : Analysis

#### Distribution of Oregon Study Subjects

Oregon counties were coded using the Rural Urban Continuum Codes (i.e., RUCC). The count of all OHSU study participants were grouped according to county RUC codes. Percentages were calculated by dividing the count of residents for each RUCC code, by the total number of OHSU study subjects.

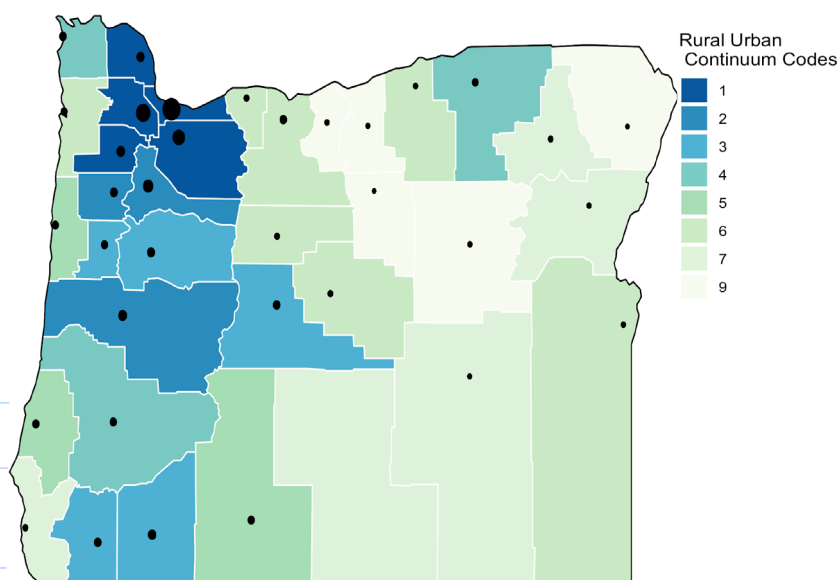
For more information on these codes, please see <https://www.ers.usda.gov/data-products/rural-urban-continuum-codes/>

#### Distribution of Study Participants Across Rural Urban Regions

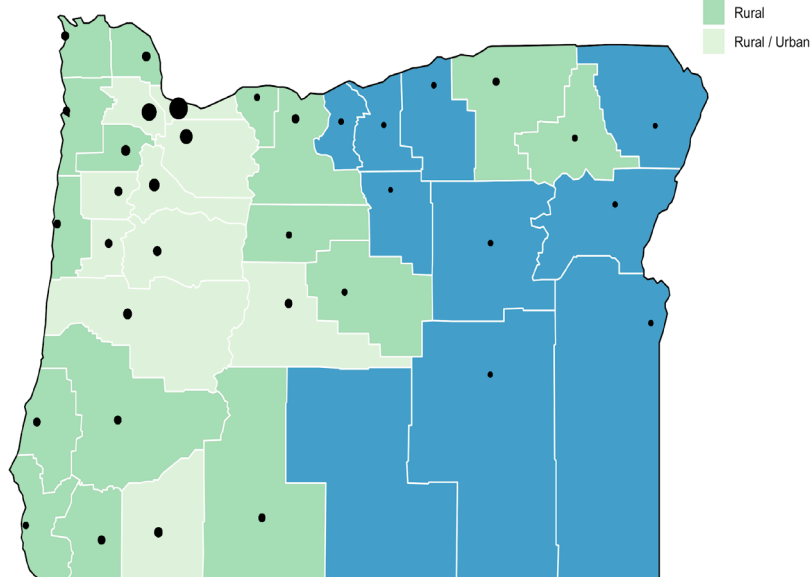
RUC Code	Description	OHSU Study Subjects		Oregon State
		n	%	%
1	Counties in metro areas of 1 million population or more	2,491	67.8%	46.8%○
2	Counties in metropolitan areas of 250,000 to 1 million or more	403	11.0%	19.4%●
3	Counties in metro areas of fewer than 250,000 population	340	9.2%	16.9%●
4	Urban population of 20,000 or more, adjacent to a metro area	144	3.9%	5.8%●
5	Urban population of 20,000 or more, not adjacent to a metro area	131	3.6%	4.6%●
6	Urban population 2,500 to 19,999, adjacent to a metro area	132	3.6%	4.1%●
7	Urban population of 2,500 to 19,999, not adjacent to a metro area	27	0.7%	1.9%●
8	Nonmetro Completely rural or less than 2,500 urban population, adjacent to a metro area	0	0	0
9	Completely rural or less than 2,500 urban population, not adjacent to a metro area	13	0.35%	0.5%●

● Indicates a higher proportion of OHSU study subjects, compared to Oregon State residents.  
○ Indicates a lower proportion of OHSU study subjects, compared to Oregon State residents.

OHSU Study Subjects by RUC Coded Counties



OHSU Study Subjects by ORH Coded Counties



#### Oregon Office of Rural Health Rural / Frontier Codes

The second map is based on ORH urban/rural/frontier service area codes. This data codes counties at the city/service area level and were aggregated into county level codes. Counties which contained urban and rural cities were coded as urban/rural and counties containing only rural or frontier service areas were coded as either rural or frontier, respectively.

For more information on the ORH codes, please see <https://www.ohsu.edu/xd/outreach/oregon-rural-health/about-rural-frontier/service-areas.cfm>

# OHSU Study Subject Diversity

OFFICE OF RESEARCH IMPACT

Oregon Clinical & Translational Research Institute (OCTRI)

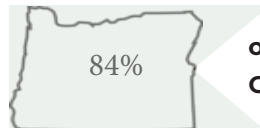
## STUDY SUBJECTS ACROSS OREGON STATE

### Distribution of Study Participants across Oregon Counties

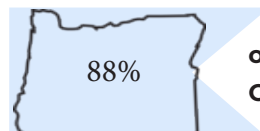
Country Code	County Code	OHSU Study Subjects		Oregon State
		n	%	
Baker	7	Suppressed		0.4% ●
Benton	3	49	1.3%	2.2% ●
Clackamas	1	402	10.9%	9.8% ○
Clatsop	4	62	1.7%	0.9% ○
Columbia	1	83	2.25%	1.3% ○
Coos	5	46	1.25%	1.6% ●
Crook	6	11	0.3%	0.5% ●
Curry	7	14	.4%	0.6% ●
Deschutes	3	59	1.6%	4.1% ●
Douglas	4	48	1.3%	2.8% ●
Gilliam	9	Suppressed		0.1% ●
Grant	9	Suppressed		0.2% ●
Harney	7	Suppressed		0.1% ●
Hood	6	12	.3%	0.6% ●
Jackson	3	97	2.6%	5.3% ●
Jefferson	6	11	.3%	0.6% ●
Josephine	3	56	1.5%	2.2% ●
Klamath	5	42	1.1%	1.7% ●
Lake	7	Suppressed		0.2% ●
Lane	2	112	3.0%	9.2% ○
Lincoln	5	43	1.2%	1.2%
Linn	3	79	2.15%	3.1% ○
Malheur	6	Suppressed		0.8% ●
Marion	2	225	6.11%	8.2% ●
Morrow	6	Suppressed		0.3% ●
Multnomah	1	1233	33.5%	19.0% ○
Polk	2	66	1.8%	2.0% ●
Sherman	9	Suppressed		0.1% ●
Tillamook	6	35	.95%	0.6% ○
Umatilla	4	34	0.9%	0.2% ●
Union	7	Suppressed		0.7% ●
Wallowa	9	Suppressed		0.2% ●
Wasco	6	56	1.52%	.66% ○
Washington	1	658	17.8%	14.0% ●
Wheeler	9	Suppressed		0.04% ●
Yamhill	1	115	3.1%	2.6% ○
Missing		2456		
Total		3681	100%	100%

● Indicates a higher proportion of OHSU study subjects, compared to Oregon State residents.  
○ Indicates a lower proportion of OHSU study subjects, compared to Oregon State residents.

### Oregon Study Subjects



84% of OHSU study subjects are Oregon State residents (n = 3681)



88% of OHSU study subjects live in Oregon's urban counties

### Out of State Study Subjects



12% of OHSU study subjects are Washington residents (n= 535)



33 States are represented by at least 1 OHSU study subject

## Limitations

### Data Availability

This analysis is limited in terms of availability of OHSU study subject data. All information in this report pertains to subjects of clinical trial studies, or studies using clinical services, and does not report on participants of other study types (i.e., observational).

A second limitation of this analysis is that it is limited to the options provided by study subject forms. This limits a direct comparison to US census data, due to a difference in options for diversity variables (i.e., race, ethnicity).

### Acknowledgements

We would like to thank OHSU's center for Diversity and Inclusion for commissioning this report.