

**Sister Study Head and Neck Cancer Outcomes (any behavior)<sup>1</sup> and Characteristics: Data Release 10.1<sup>2</sup>**

	<b>N</b>	<b>% of cohort</b>
<b>Total Cases<sup>3</sup></b>	<b>119</b>	<b>0.2</b>
<b>Timing, Behavior, and Site</b>	<b>N</b>	<b>% of cases</b>
Baseline	23	19.3
Invasive	21	17.6
Lip	1	0.8
Tongue	1	0.8
Mouth <sup>4</sup>	2	1.7
Major salivary gland (including parotid)	7	5.9
Tonsil	1	0.8
Nasal cavity	1	0.8
Larynx	3	2.5
Unknown <sup>5</sup>	5	4.2
<i>In situ</i>	2	1.7
Floor of mouth	1	0.8
Larynx	1	0.8
Unknown timing	1	0.8
<i>In situ</i> – Larynx	1	0.8
Incident	95	79.8
Invasive	91	76.5
Lip	4	3.4
Tongue	23	19.3
Gum	2	1.7
Palate	5	4.2
Mouth <sup>4</sup>	7	5.9
Major salivary gland (including parotid)	22	18.5
Tonsil	9	7.6
Oropharynx	1	0.8
Nasopharynx	3	2.5
Nasal cavity	2	1.7
Accessory sinuses	3	2.5
Larynx	4	3.4
Unknown <sup>5</sup>	6	5.0
<i>In situ</i>	4	3.4
Tongue	2	1.7
Palate	1	0.8
Larynx	1	0.8

\* See next page for continuation of table for characteristics of incident head and neck cancer cases.

Characteristic	N	% of cases
<b>Incident</b>	<b>95</b>	
<b>Race/Ethnicity<sup>6</sup></b>		
Non-Hispanic White	82	86.3
Non-Hispanic Black	7	7.4
Hispanic	5	5.3
Other	1	1.1
<b>Age (in years) at Diagnosis<sup>7</sup></b>		
Under 50	6	6.3
50-64	38	40.0
65 and older	51	53.7
<b>Diagnosis Confirmation<sup>8</sup></b>		
Medical	63	66.3
NDI Plus or death certificate only	8	8.4
None	24	25.3
<b>Incident – Medically Confirmed</b>	<b>63</b>	
<b>Stage at Diagnosis<sup>9</sup></b>		
0	3	6.7
I	17	37.8
II	4	8.9
III	9	20.0
IV	12	26.7
Missing, cannot stage	18	

<sup>1</sup> Cancer events are defined by the following ICD10 codes: 1) Invasive cancer sites: lip (C00), tongue (C01, C02), gum (C03), floor of mouth (C04), palate (C05), other/unspecified parts of mouth (C06), parotid gland (C07), other/unspecified major salivary glands (C08), tonsil (C09), oropharynx (C10), nasopharynx (C11), pyriform sinus (C12), hypopharynx (C13), and other/ill-defined sites in the lip, oral cavity, & pharynx (C14), nasal cavity (C30.0), middle ear (C30.1), accessory sinuses (C31), larynx (C32), upper respiratory tract (C39.0), and unspecified head, face & neck (C76.0); 2) *in situ* cancer sites: unspecified parts of mouth (D00.00), labial mucosa & vermilion border (D00.01), buccal mucosa (D00.02), gingiva & edentulous alveolar ridge (D00.03), palate (D00.04, D00.05), floor of mouth (D00.06), tongue (D00.07), pharynx (D00.08), and larynx (D02.0); and 3) uncertain behavior cancer sites: lip (D37.01), tongue (D37.02), major salivary glands (D37.03), minor salivary glands (D37.04), pharynx (D37.05), other/unspecified parts of mouth (D37.09), and larynx (D38.0). Other ICD10 cancer codes that may be used when head & neck sites are indicated as one of the favored primary sites: invasive unspecified site (C80), *in situ* respiratory organ (D02.3, D02.4), uncertain behavior of respiratory organ (D38.5, D38.6), unspecified behavior of digestive organ (D49.0), and unspecified behavior of respiratory organ (D49.1).

<sup>2</sup> Data release 10.1 includes outcomes from follow-up phases that closed on or before 10/12/2020, excluding all data from participants who have withdrawn their data from the study [n=4].

<sup>3</sup> Excludes cancer diagnoses where head and neck site of origin could not be ruled out, but it is not the favored site [n=9].

<sup>4</sup> Mouth site generally is not specified with the following exception: incident includes vestibule of mouth [n=1].

<sup>5</sup> Unknown site generally includes head, face and neck - not specified, with the following exceptions: baseline includes mouth or pharynx (throat) [n=4]; incident includes pharynx (throat) [n=2] and base of tongue or tonsil [n=1].

<sup>6</sup> Race/ethnicity: precedence given to Hispanic ethnicity first, then Black race, then other race, then White race.

<sup>7</sup> For those missing age at diagnosis [n=6], age was imputed as the midpoint of the range of plausible ages at diagnosis

<sup>8</sup> Medical confirmation of reported head and neck cancer is generally from pathology report but may include other medical documentation; National Death Index (NDI) Plus or death certificate confirmation is specific to cases that do not have medical confirmation.

<sup>9</sup> Stage at diagnosis is only available for cases with medical confirmation.

**Sister Study First Invasive Head and Neck Cancer Outcomes<sup>1</sup> and Characteristics: Data Release 10.1<sup>2</sup>**

	<b>N</b>	<b>% of cohort</b>
<b>Total Cases<sup>3</sup></b>	<b>113</b>	<b>0.2</b>
<b>Timing, Behavior, and Site</b>	<b>N</b>	<b>% of cases</b>
Baseline	21	18.6
Lip	1	0.9
Tongue	1	0.9
Mouth <sup>4</sup>	2	1.8
Major salivary gland (including parotid)	7	6.2
Tonsil	1	0.9
Nasal cavity	1	0.9
Larynx	3	2.7
Unknown <sup>5</sup>	5	4.4
Incident	92	81.4
Lip	4	3.5
Tongue	23	20.4
Gum	2	1.8
Palate	5	4.4
Mouth <sup>4</sup>	7	6.2
Major salivary gland (including parotid)	22	19.5
Tonsil	10	8.8
Oropharynx	1	0.9
Nasopharynx	3	2.7
Nasal cavity	2	1.8
Accessory sinuses	3	2.7
Larynx	4	3.5
Unknown <sup>5</sup>	6	5.3
<b>Incident</b>	<b>92</b>	
<b>Race/Ethnicity<sup>6</sup></b>		
Non-Hispanic White	79	85.9
Non-Hispanic Black	7	7.6
Hispanic	5	5.4
Other	1	1.1
<b>Age (in years) at Diagnosis<sup>7</sup></b>		
Under 50	6	6.5
50-64	36	39.1
65 and older	50	54.3
<b>Diagnosis Confirmation<sup>8</sup></b>		
Medical	61	66.3
NDI Plus or death certificate only	8	8.7
None	23	25.0
<b>Incident – Medically Confirmed</b>	<b>61</b>	
<b>Stage at Diagnosis<sup>9</sup></b>		
I	17	39.5
II	4	9.3
III	9	20.9
IV	13	30.2
Missing, cannot stage	18	

- <sup>1</sup> Cancer events are defined by the following ICD10 codes: 1) Invasive cancer sites: lip (C00), tongue (C01, C02), gum (C03), floor of mouth (C04), palate (C05), other/unspecified parts of mouth (C06), parotid gland (C07), other/unspecified major salivary glands (C08), tonsil (C09), oropharynx (C10), nasopharynx (C11), pyriform sinus (C12), hypopharynx (C13), and other/ill-defined sites in the lip, oral cavity, & pharynx (C14), nasal cavity (C30.0), middle ear (C30.1), accessory sinuses (C31), larynx (C32), upper respiratory tract (C39.0), and unspecified head, face & neck (C76.0); 2) uncertain behavior cancer sites: lip (D37.01), tongue (D37.02), major salivary glands (D37.03), minor salivary glands (D37.04), pharynx (D37.05), other/unspecified parts of mouth (D37.09), and larynx (D38.0). Other ICD10 cancer codes that may be used when head & neck sites are indicated as one of the favored primary sites: invasive unspecified site (C80), uncertain behavior of respiratory organ (D38.5, D38.6), unspecified behavior of digestive organ (D49.0), and unspecified behavior of respiratory organ (D49.1).
- <sup>2</sup> Data release 10.1 includes outcomes from follow-up phases that closed on or before 10/12/2020, excluding all data from participants who have withdrawn their data from the study [n=4].
- <sup>3</sup> Excludes cancer diagnoses where head and neck site of origin could not be ruled out, but it is not the favored site [n=9].
- <sup>4</sup> Mouth site generally is not specified with the following exception: incident includes vestibule of mouth [n=1].
- <sup>5</sup> Unknown site generally includes head, face and neck - not specified, with the following exceptions: baseline includes mouth or pharynx (throat) [n=4]; incident includes pharynx (throat) [n=2] and base of tongue or tonsil [n=1].
- <sup>6</sup> Race/ethnicity: precedence given to Hispanic ethnicity first, then Black race, then other race, then White race.
- <sup>7</sup> For those missing age at diagnosis [n=6], age was imputed as the midpoint of the range of plausible ages at diagnosis.
- <sup>8</sup> Medical confirmation of reported head and neck cancer is generally from pathology report but may include other medical documentation; National Death Index (NDI) Plus or death certificate confirmation is specific to cases that do not have medical confirmation.
- <sup>9</sup> Stage at diagnosis is only available for cases with medical confirmation.