

Sister Study Head and Neck Cancer Outcomes (any behavior)¹ and Characteristics: Data Release 9.1²

	N	% of cohort
Total Cases³	110	0.2
Timing, Behavior, and Site	N	% of cases
Baseline	22	20.0
Invasive ⁴	20	18.2
Lip	1	0.9
Mouth, not specified	1	0.9
Major salivary gland (including parotid)	7	6.4
Tonsil	1	0.9
Nasal cavity	1	0.9
Larynx	3	2.7
Unknown ⁴	6	5.5
<i>In situ</i>	2	1.8
Floor of mouth	1	0.9
Larynx	1	0.9
Unknown timing	2	1.8
Invasive – Mouth, not specified	1	0.9
<i>In situ</i> – Larynx	1	0.9
Incident	86	78.2
Invasive	83	75.5
Lip	4	3.6
Tongue	20	18.2
Gum	2	1.8
Palate	4	3.6
Mouth, not specified	7	6.4
Major salivary gland (including parotid)	21	19.1
Tonsil	8	7.3
Oropharynx	1	0.9
Nasopharynx	3	2.7
Nasal cavity	2	1.8
Accessory sinuses	3	2.7
Larynx	3	2.7
Unknown ⁴	5	4.5
<i>In situ</i>	3	2.7
Tongue	1	0.9
Mouth, not specified	1	0.9
Larynx	1	0.9

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

Incident	86	
Race/Ethnicity⁵		
Non-Hispanic White	76	88.4
Non-Hispanic Black	6	7.0
Hispanic	4	4.7
Other	0	0.0
Age (in years) at Diagnosis⁶		
Under 50	6	7.0
50-64	35	40.7
65 and older	45	52.3
Diagnosis Confirmation⁷		
Medical	49	57.0
NDI Plus or death certificate only	8	9.3
None	29	33.7
Incident – Medically Confirmed	49	
Stage at Diagnosis⁸		
0	2	6.1
I	13	39.4
II	2	6.1
III	6	18.2
IV	10	30.3
Missing, cannot stage	16	

¹ 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).

² Data release 9.1 includes outcomes from follow-up phases that closed on or before 9/30/2019

³ Excludes cancer diagnoses where head and neck site of origin could not be ruled out, but it is not the favored site [n=8].

⁴ Unknown site generally includes head, face and neck - not specified, with the following exceptions: baseline includes mouth or pharynx (throat) [n=5]; incident includes pharynx (throat) [n=2].

⁵ Race/ethnicity: precedence given to Hispanic ethnicity first, then Black race, then other race, then White race

⁶ For those missing age at diagnosis [n=5], age was imputed as the midpoint of the range of plausible ages at diagnosis

⁷ 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

⁸ Stage at diagnosis is only available for cases with medical confirmation

Sister Study First Invasive Head and Neck Cancer Outcomes¹ and Characteristics: Data Release 9.1²

	N	% of cohort
Total Cases³	105	0.2
Timing, Behavior, and Site	N	% of cases
Baseline - Invasive	20	19.0
Lip	1	1.0
Mouth, not specified	1	1.0
Major salivary gland (including parotid)	7	6.7
Tonsil	1	1.0
Nasal cavity	1	1.0
Larynx	3	2.9
Unknown ⁴	6	5.7
Unknown timing - Invasive - Mouth, not specified	1	1.0
Incident - Invasive	84	80.8
Lip	4	3.8
Tongue	20	19.0
Gum	2	1.9
Palate	4	3.8
Mouth, not specified	7	6.7
Major salivary gland (including parotid)	21	20.0
Tonsil	9	8.6
Oropharynx	1	1.0
Nasopharynx	3	2.9
Nasal cavity	2	1.9
Accessory sinuses	3	2.9
Larynx	3	2.9
Unknown ⁴	5	4.8
Incident	84	
Race/Ethnicity⁵		
Non-Hispanic White	74	88.1
Non-Hispanic Black	6	7.1
Hispanic	4	4.8
Other	0	0.0
Age (in years) at Diagnosis⁶		
Under 50	6	7.1
50-64	33	39.3
65 and older	45	53.6
Diagnosis Confirmation⁷		
Medical	48	57.1
NDI Plus or death certificate only	8	9.5
None	28	33.3
Incident – Medically Confirmed	48	
Stage at Diagnosis⁸		
I	13	40.6
II	2	6.3
III	6	18.8
IV	11	34.4
Missing, cannot stage	16	

¹ 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).

² Data release 9.1 includes outcomes from follow-up phases that closed on or before 9/30/2019

³ Excludes cancer diagnoses where head and neck site of origin could not be ruled out, but it is not the favored site [n=8].

⁴ Unknown site generally includes head, face and neck - not specified, with the following exceptions: baseline includes mouth or pharynx (throat) [n=5]; incident includes pharynx (throat) [n=2].

⁵ Race/ethnicity: precedence given to Hispanic ethnicity first, then Black race, then other race, then White race

⁶ For those missing age at diagnosis [n=5], age was imputed as the midpoint of the range of plausible ages at diagnosis

⁷ 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

⁸ Stage at diagnosis is only available for cases with medical confirmation