

Sister Study Anal Cancer Outcomes (any type)¹ and Characteristics: Data Release 8.2²

	N	% of cohort
Total Cases³	34	0.07
Timing, Behavior, and Site	N	% of cases
Baseline	10	29.4
Invasive – Unknown ⁴	9	26.5
<i>In situ</i> – Anus	1	2.9
Incident	24	70.6
Invasive	20	58.8
Anal Canal	2	5.9
Cloacogenic zone	1	2.9
Overlapping sites (anorectum)	3	8.8
Unknown ⁴	14	41.2
<i>In situ</i> – Anus	4	11.8
Incident	24	
Race/Ethnicity⁵		
Non-Hispanic White	23	95.8
Non-Hispanic Black	1	4.2
Hispanic	0	0.0
Other	0	0.0
Age (in years) at Diagnosis⁶		
Under 50	2	8.3
50-64	12	50.0
65 and older	10	41.7
Diagnosis Confirmation⁷		
Medical	14	58.3
NDI Plus or death certificate only	1	4.2
None	9	37.5

Characteristic	N	%
Incident – Medically Confirmed	14	
Stage at Diagnosis⁸		
0	3	30.0
I	3	30.0
II	2	20.0
III	2	20.0
IV	0	0.0
Missing, cannot stage	4	

¹ Cancer events are defined by the following ICD10 cancer codes: invasive anus (C21), *in situ* anus (D01.3). Other ICD10 cancer codes that may be used when anus is indicated as one of the favored primary sites: invasive intestine (C26.0), invasive digestive organ (C26.9), invasive unspecified site (C80), *in situ* intestine (D01.4), *in situ* digestive organ (D01.9), uncertain behavior of digestive organ (D37.8, D37.9), unspecified behavior of digestive organ (D49.0).

² Data release 8.2 includes outcomes from follow-up phases that closed on or before 9/23/2018

³ Excludes cancer diagnoses where anal site of origin could not be ruled out, but it is not the favored site [n=10].

⁴ Unknown site generally includes anus - not specified, with the following exceptions: baseline includes unspecified intestine [n=5] and anus or rectum [n=2]; incident includes anus or rectum [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=1], age was imputed as the midpoint of the range of plausible ages at diagnosis

⁷ Medical confirmation of reported anal 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 Anal Cancer Outcomes¹ and Characteristics: Data Release 8.2²

	N	% of cohort
Total Cases³	30	0.06
Timing, Behavior, and Site	N	% of cases
Baseline – Invasive – Unknown ⁴	9	30.0
Incident – Invasive	21	70.0
Anal canal	2	6.7
Cloacogenic zone	1	3.3
Overlapping sites (anorectum)	3	10.0
Unknown ⁴	15	50.0
Incident	21	
Race/Ethnicity⁵		
Non-Hispanic White	20	95.2
Non-Hispanic Black	1	4.8
Hispanic	0	0.0
Other	0	0.0
Age (in years) at Diagnosis⁶		
Under 50	2	9.5
50-64	9	42.9
65 and older	10	47.6
Diagnosis Confirmation⁷		
Medical	12	57.1
NDI Plus or death certificate only	1	4.8
None	8	38.1

Characteristic	N	%
Incident – Medically Confirmed	12	
Stage at Diagnosis⁸		
I	4	50.0
II	2	25.0
III	2	25.0
IV	0	0.0
Missing, cannot stage	4	

¹ Cancer events are defined by the following ICD10 cancer code: invasive anus (C21). Other ICD10 cancer codes that may be used when anus is indicated as one of the favored primary sites: invasive intestine (C26.0), invasive digestive organ (C26.9), invasive unspecified site (C80), uncertain behavior of digestive organ (D37.8, D37.9), unspecified behavior of digestive organ (D49.0).

² Data release 8.2 includes outcomes from follow-up phases that closed on or before 9/23/2018

³ Excludes cancer diagnoses where anal site of origin could not be ruled out, but it is not the favored site [n=10].

⁴ Unknown site generally includes anus - not specified, with the following exceptions: baseline includes unspecified intestine [n=5] and anus or rectum [n=2]; incident includes anus or rectum [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=1], age was imputed as the midpoint of the range of plausible ages at diagnosis

⁷ Medical confirmation of reported anal 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