Woman's Hospital Cancer Annual Report 2024

Cancer Discussion

In the United States, vulvar and vaginal cancer account for 6% and 1-2%, respectively, of all cancers arising from the female reproductive organs. At Woman's Hospital, vulvar cancers account for 9% and vaginal cancers account for 2% of gynecologic cancer diagnoses. In this report, we reviewed all cases of vulvar and vaginal cancers diagnosed at Woman's Hospital between 2013-2023. During this interval, 219 cases of vulvar cancer and 36 vaginal cancers were identified. The race distribution of women with vulvar and vaginal cancers identified shows that the majority of patients diagnosed with these cancers here at Woman's were Caucasian, which is similar to NCDB reporting (79% and 82%, respectively). 20% of the cases diagnosed at Woman's were in African-American women compared to 9% reported in the NCDB.

Vulvar Cancer

According to the American Cancer Society, it is projected that there will be approximately 6,900 new cases of vulvar cancer diagnosed in 2024 in the United States, with an estimated 1,630 women dying from this type of cancer. At Woman's, the age distribution parallels the distribution by age reported in the NCDB. The majority of cases were diagnosed between the ages of 40-89, with the highest percentage reported between 60-69 years of age (24%). However, 20% of cases were diagnosed between the ages of 30-49. 68% of the cases were squamous cell carcinomas, which are the most common form of vulvar cancer, but we also noted that 6% were basal cell carcinomas, 4% were malignant melanomas, and 4% were extramammary Paget's disease.

The majority of cases of vulvar cancer diagnosed at Woman's were diagnosed as Stage I (55%), 5% as Stage II, 14% as Stage III and 4% as Stage IV. Surgery alone was the mainstay of treatment for most patients (69%) with vulvar cancer at Woman's, and this is consistent with NCBD data. In comparison to the United States National Surveillance, Epidemiology, and End Results (SEER) database, the vulvar cancer incidence rate is higher for all races in Louisiana as reported to the Louisiana Tumor Registry (LTR). However, the mortality rates for all races are lower in Louisiana in comparison to the national database. The 5-year relative survival for all cases of vulvar cancer was 71.3% in the SEER database which is comparable to the 71.2% reported to the LTR, but survival rates were higher at Woman's (76.1%).

There are two major pathways that lead to the development of vulvar malignancies: human papilloma virus infection (HPV) and chronic inflammatory conditions of the vulvar skin such as lichen sclerosus. The HPV infection is often asymptomatic and cleared by the body, but persistent HPV infections can cause between 60-70% of vulvar and vaginal cancers. There are some modifiable (smoking, treatment of lichen sclerosus and vulvar intraepithelial neoplasia (VIN)) and non-modifiable (age, HIV infection or other immunodeficiency syndromes) risk factors for the development of both types of cancer. Of our patients with vulvar cancer at Woman's, 28% of

patients reported current smoking whereas 21% report previous smoking. 46% of patients diagnosed with vulvar cancer have never smoked.

Vaginal Cancer

It is estimated that there will be 8,650 new cases of vaginal (and other female genital) cancer diagnosed in 2024 in the United States, with approximately 1,870 deaths from this cancer, according to the American Cancer Society Annual Report. The best historical estimates indicate that there are roughly 1,400 cases of primary vaginal malignancies diagnosed in the United States. At Woman's, most cases were diagnosed between the ages of 40-89. The highest percentage (33%) of cases were in 60-69-year-olds, and 28% of cases were in patients 50-59 years of age. Again, the primary histology for these cases are squamous cell carcinoma (55%). Additional carcinomas included adenocarcinomas (11%), endometrioid (8%), and 3% in each of the following categories: clear cell, adenoid basal cell, sarcoma, small cell neuroendocrine and leiomyosarcoma.

The majority of patients were diagnosed with Stage I or Stage II disease, 36% and 22% respectively. Stages III and IV disease each represented 11% of our cases. Similarly, the NCDB data indicated that Stage I disease is most commonly diagnosed (22%) with relatively equal distribution of Stages II, III and IV diseases at 16%, 18% and 18%, respectively. The 5-year survival rates for vaginal cancer are similar at Woman's (51.3%) in comparison to the SEER database (52.6%), but survival rates are lower in Louisiana per LTR reporting (45.7%). The greater portion of early-stage cancers diagnosed at Woman's likely contributes to the survival advantage seen in the Woman's patients. Treatment was primarily with a combination of radiation and chemotherapy (33%) followed by surgery, radiation and chemotherapy (17%) and surgery alone (14%). The NCDB reports similar rates of combination radiation and chemotherapy and surgery alone.

Vaginal cancer is also highly linked to persistent HPV infection. Additional risk factors unique to vaginal cancers include the following: exposure to diethylstilbestrol (DES), prior history of cervical cancer or high-grade cervical intraepithelial neoplasia (CIN). Smoking remains a significant modifiable risk factor as well. At Woman's, our patients with vaginal cancer reported smoking at a rate of 28% with an additional 22% reporting previous use. Half (50%) of our patients with vaginal cancer reported no smoking history.

Comparative Analysis of Local and National Patient Populations

Figure I
Vulvar and Vaginal Malignant Tumors Age at Diagnosis:
Years 2013-2023

		V	ulvar			Vag	gina	
	Woman's		NCDB*		Wom	an's	NCDB*	
Age at Diagnosis	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Under 20	0	0	44	<1	0	0	65	<1
20-29	2	1	380	<1	1	3	44	<1
30-39	15	7	1,920	4	0	0	250	2
40-49	28	13	4,962	10	4	11	894	9
50-59	41	19	9,688	19	10	28	1,911	18
60-69	53	24	12,406	25	12	33	2,785	27
70-79	39	18	11,320	22	2	5	2,606	25
80-89	32	14	7,679	15	6	17	1,472	14
90-99	9	4	2,138	4	1	3	391	4
Total	219	100	50,537	100	36	100	10,418	100

^{*}NCDB data only available for years 2013-2022.

A total of 219 cases of vulvar cancer were diagnosed during this time.

The age distribution parallels the distribution by age reported in the NCDB. The majority of cases are diagnosed between the ages of 40-89 with the highest percentage reported between 60-69 years of age.

A total of 36 vaginal cancers were diagnosed between 2013-2023.

The age distribution is similar to the age distribution reported in the NCDB. The largest percentage of our cases were diagnosed between 50-69 years of age compared to the largest percentage of cases in the NCDB being between 50-79 years of age.

Figure II Vulvar and Vaginal Malignant Tumors

Race: Years 2013-2023

	Won	ıan's	NCDB*			
Race	Number	Number Percent		Percent		
Caucasian	201	79	50,105	82		
African American	50	20	5,611	9		
Other**	4	1	5,239	9		
Total	255	100	60,955	100		

^{*}NCDB data only available for 2013-2022.

The race distribution of women with vulvar and vaginal cancers identified between 2013-2023 shows the majority of patients diagnosed with these cancers at Woman's and in the NCDB are Caucasian (79% and 82% respectively). 20% of cases diagnosed at Woman's were in African American women compared to 9% African American women reported in the NCDB. At Woman's, we only reported a 1% "other" category with the NCDB showing 9%. In the NCDB, 8% of patients were Hispanic, 3% were Asian, 1.4 % had unknown/unreported ethnicity and less than 1% were Native American.

Figure III Vulvar and Vaginal Malignant Tumors Year of Diagnosis: Years 2013-2023

Year of Diagnosis*	Vulvar	Vagina
2013	19	2
2014	25	5
2015	25	2
2016	15	0
2017	15	1
2018	17	7
2019	12	5
2020	15	5
2021	22	3
2022	32	4
2023	22	2
Total	219	36

^{*}Year of diagnosis is based on date of first contact.

The number of cases of vulvar cancer diagnosed over the last ten years ranged from a low of 12 cases diagnosed in 2019 to a high of 32 cases diagnosed in 2022. The number of vaginal cases during this time period was 0–7 cases per year.

^{**}Other category includes Native American, Asian and Hispanic.

Figure IV Vulvar and Vaginal Malignant Tumors Histologies: Years 2013-2023

	Vul	var		Vagina Woman's		
	Wom	an's				
Cell Types	Number	Percent	N	umber	Percent	
Squamous Cell Carcinoma In-Situ	35	16		3	8	
Adenoid Basal Carcinoma	0	0		1	3	
Adenocarcinoma, NOS	0	0		4	11	
Basal Cell Carcinoma	12	6		0	0	
Basosquamous Cell Carcinoma	1	<1		0	0	
Carcinoma, NOS	1	<1		1	3	
Clear Cell Adenocarcinoma	0	0		1	3	
Endometrioid Carcinoma	0	0		3	8	
Malignant Adnexal Neoplasm	1	<1		0	0	
Malignant Eccrine Spiradenoma, NOS	1	<1		0	0	
Malignant Fibrous Histiocytoma	1	<1		0	0	
Malignant Melanoma	9	4		0	0	
Malignant Myopepithelioma	1	<1		0	0	
Paget's Disease Extramammary	8	4		0	0	
Sarcoma	0	0		1	3	
Small Cell Neuroendocrine Carcinoma	0	0		1	3	
Squamous Cell Carcinoma, NOS	149	68		20	55	
Leiomyosarcoma, NOS	0	0		1	3	
Total	219	100		36	100	

68% of our cases of vulvar cancer were diagnosed as squamous cell carcinoma, the most common histologic type of cancer for this site. However, 4% of our cancers were malignant melanoma, 4% were extramammary Paget's disease and 6% were basal cell carcinoma.

The types of vaginal cancer diagnosed were 55% squamous cell carcinoma, 11% adenocarcinoma, 8% endometrioid carcinoma, 3% adenoid basal carcinoma, 3% carcinoma NOS, 3% clear cell adenocarcinoma, 3% sarcoma, 3% small cell neuroendocrine carcinoma and 3% leiomyosarcoma.

Figure V Vulvar and Vaginal Malignant Tumors Stage at Diagnosis: Years 2013-2023

	Vulvar						Vagina						
	Woman's		NCI	DB*	Won	nan's	NCDB*						
Stage at Diagnosis	Number	Percent	Number	Percent	Number	Percent	Number	Percent					
0	23	11	5,135	10	1	3	385	4					
I	121	55	22,401	44	13	36	2,302	22					
Ι	10				4								
IA	45				4								
IB	66				5								
II	10	5	3,438	7	8	22	1,715	16					
II	10				3								
2A					3								
2B					2								
2C													
III	30	14	6,659	13	4	11	1,841	18					
III	2				4								
3A	15												
3B	3												
3C	9												
3D	1												
IV	10	4	3,380	7	4	11	1,851	18					
IV					1								
4A	6												
4B	4				3								
Unknown /Not Applicable	25	11	9,524	19	6	17	2,324	22					
Total	219	100	50,537	100	36	100	10,418	100					

^{*}NCDB data only available for years 2013-2022.

The majority of cases of vulvar cancer diagnosis at Woman's are Stage 0 or I (66%) compared to NCDB of 54% diagnosed as Stage 0 or I. The NCDB shows 7% of cases diagnosed as Stage IV compared to only 4% at Woman's. The majority of cases of vaginal cancer diagnosed at Woman's were Stage I and II.

Figure VI Vulvar and Vaginal Malignant Tumors First Course of Treatment: Years 2013-2023

		Vul	var			Vagi	na	
	Won	nan's	NCI)B*	Won	nan's	NCD)B*
Treatment First Course	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Surgery	151	69	33,524	66	5	14	1,470	14
Surgery/Chemotherapy	2	1	482	1	0	0	202	2
Surgery/Immunotherapy	2	1	0	0	0	0	0	0
Surgery/Radiation	19	9	3,142	6	3	8	621	6
Surgery/Radiation/Chemotherapy	19	9	3,267	6	6	17	737	7
Chemotherapy	1	<1	432	1	1	3	559	5
Chemotherapy/Immunotherapy	1	<1	0	0	0	0	0	0
Hormone Therapy	1	<1	20	<1	0	0	17	<1
Hormone/Immunotherapy	1	<1	0	0	0	0	0	0
Immunotherapy	0	0	0	0	1	3	0	0
Radiation	3	1	1,686	3	3	8	1,443	14
Radiation/Chemotherapy	13	6	3,570	7	12	33	3,300	32
Other Specified Therapy	0	0	2,103	4	0	0	774	7
None	6	3	2,311	5	5	14	1,295	12
Total	219	100	50,537	100	36	100	10,418	100

^{*}NCDB data only available for years 2013-2022.

The majority of patients with vulvar cancer were treated with surgery alone at Woman's and in the NCDB.

The majority of patients with vaginal cancer were treated with radiation and chemotherapy in both Woman's data and the NCDB.

Figure VII Vulvar and Vaginal Malignant Tumors Smoking History: For Years of Diagnosis: 2013-2023

Woman's										
Smoking History Vulvar Vagina										
	Number	Percent	Number	Percent						
Current Cigarette Smoker	61	28	10	28						
Previous Use	45	21	8	22						
Never Used	101	46	18	50						
Unknown	12	5	0	0						
Total	219	100	36	100						

Of our patients with vulvar cancer, 28% reported that they currently smoke and 21% say they had a previous history of smoking. 46% reported no history of ever smoking.

It is reported that 28% of our vaginal cancer patients are current smokers with an additional 22% claiming to have a history of previous use. 50% of patients with vaginal cancer have never been smokers.

Figure VIII

Vaginal Cancer, 5-Year Ro	elative Surviva	al, All Ma	lignant Case	s, 2010)-2020 (Follo	wed	into 2021)
		U.S. (SEER) ¹		Lo	ouisiana	LTR Region 2	
		N	Relative	Ν	Relative	Ν	Relative
All Races/Ethnicities	12 mo	2,273	76.70%	177	77.30%	25	90.2%#
All Races/Ethnicities	24 mo	2,273	64.10%	177	61.30%	25	69.70%
All Races/Ethnicities	36 mo	2,273	58.10%	177	55.3%#	25	64.4%#
All Races/Ethnicities	48 mo	2,273	55.40%	177	49.90%	25	51.3%#
All Races/Ethnicities	60 mo	2,273	52.60%	177	45.7%#	25	51.3%#
Non-Hispanic White	12 mo	1,418	76.00%	115	75.80%	16	83.0%#
Non-Hispanic White	24 mo	1,418	63.20%	115	57.40%	16	54.20%
Non-Hispanic White	36 mo	1,418	57.10%	115	55.0%#	16	54.2%#
Non-Hispanic White	48 mo	1,418	54.70%	115	49.30%	16	44.6%#
Non-Hispanic White	60 mo	1,418	52.00%	115	46.0%#	16	44.6%#
Non-Hispanic Black	12 mo	331	79.40%	56	82.90%	~	~
Non-Hispanic Black	24 mo	331	66.00%	56	71.3%#	~	~
Non-Hispanic Black	36 mo	331	59.0%#	56	60.1%#	~	~
Non-Hispanic Black	48 mo	331	56.6%#	56	54.5%#	~	~
Non-Hispanic Black	60 mo	331	51.9%#	56	47.4%#	~	~

Vaginal Cancer, 5-Year Relativ	e Survival,	Localiz	ed, 2010-202	0 (Fo	llowed into 20	21)	
		U.S. (SEER) ¹	Louisiana		LTR Region 2	
		N	Relative	N	Relative	N	Relative
All Races/Ethnicities	12 mo	653	90.70%	62	88.9%#	~	~
All Races/Ethnicities	24 mo	653	82.60%	62	80.1%#	~	~
All Races/Ethnicities	36 mo	653	78.40%	62	71.1%#	~	~
All Races/Ethnicities	48 mo	653	76.60%	62	62.60%	~	~
All Races/Ethnicities	60 mo	653	73.20%	62	60.2%#	~	~
Non-Hispanic White	12 mo	424	90.00%	43	87.2%#	~	~
Non-Hispanic White	24 mo	424	81.30%	43	75.8%#	~	~
Non-Hispanic White	36 mo	424	77.30%	43	71.0%#	~	~
Non-Hispanic White	48 mo	424	75.30%	43	63.10%	~	~
Non-Hispanic White	60 mo	424	73.00%	43	63.1%#	~	~
Non-Hispanic Black	12 mo	89	92.5%#	16	94.3%#	~	~
Non-Hispanic Black	24 mo	89	83.1%#	16	94.3%*#	~	~
Non-Hispanic Black	36 mo	89	74.7%#	16	85.0%#	~	~
Non-Hispanic Black	48 mo	89	72.5%#	16	69.0%#	~	~
Non-Hispanic Black	60 mo	89	66.1%#	16	52.7%#	~	~

Vaginal Cancer, 5-Year Relative	Survival, F	Region	al, 2010-2020	(Foll	owed into 20	21)	
		U.S. (SEER) ¹	Louisiana		LTR Region 2	
		N	Relative	N	Relative	N	Relative
All Races/Ethnicities	12 mo	914	82.50%	60	84.30%	~	~
All Races/Ethnicities	24 mo	914	70.20%	60	65.0%#	~	~
All Races/Ethnicities	36 mo	914	63.00%	60	61.8%#	~	~
All Races/Ethnicities	48 mo	914	59.00%	60	53.2%#	۲	~
All Races/Ethnicities	60 mo	914	57.6%#	60	51.0%#	۲	~
Non-Hispanic White	12 mo	558	82.60%	35	82.40%	۲	~
Non-Hispanic White	24 mo	558	71.10%	35	63.0%#	۲	~
Non-Hispanic White	36 mo	558	63.10%	35	60.3%#	۲	~
Non-Hispanic White	48 mo	558	60.00%	35	49.9%#	۲	~
Non-Hispanic White	60 mo	558	58.5%#	35	46.3%#	۲	~
Non-Hispanic Black	12 mo	139	82.60%	23	89.6%#	۲	~
Non-Hispanic Black	24 mo	139	68.30%	23	69.2%#	~	~
Non-Hispanic Black	36 mo	139	63.0%#	23	65.2%#	~	~
Non-Hispanic Black	48 mo	139	58.1%#	23	59.4%#	~	~
Non-Hispanic Black	60 mo	139	54.4%#	23	59.4%#	~	~

Vaginal Cancer, 5-	ear Relative	e Surviv	al, Distant, 20	010-20	020 (Followed i	nto 2	021)
		U.S	5. (SEER) ¹		Louisiana	LTR Region 2	
		N	Relative	N	Relative	N	Relative
All Races/Ethnicities	12 mo	474	54.80%	40	56.40%	~	~
All Races/Ethnicities	24 mo	474	36.40%	40	33.10%	~	~
All Races/Ethnicities	36 mo	474	30.5%#	40	28.1%#	~	~
All Races/Ethnicities	48 mo	474	27.70%	40	28.1%#	~	~
All Races/Ethnicities	60 mo	474	24.4%#	40	22.5%#	~	~
Non-Hispanic White	12 mo	312	53.40%	29	52.9%#	~	~
Non-Hispanic White	24 mo	312	32.40%	29	23.40%	~	~
Non-Hispanic White	36 mo	312	27.2%#	29	23.4%#	~	~
Non-Hispanic White	48 mo	312	24.8%#	29	23.4%#	~	~
Non-Hispanic White	60 mo	312	22.1%#	29	20.5%#	~	~
Non-Hispanic Black	12 mo	66	65.70%	~	~	~	~
Non-Hispanic Black	24 mo	66	48.2%#	~	~	~	~
Non-Hispanic Black	36 mo	66	40.6%#	~	~	~	~
Non-Hispanic Black	48 mo	66	40.6%#	~	~	~	~
Non-Hispanic Black	60 mo	66	39.2%#	~	~	2	~

Kaplan-Meier method. Ederer II method used for cumulative expected.

- ~ Statistic not displayed due to less than 16 cases.
- * The relative cumulative survival is over 100 percent and has been adjusted.
- # The relative cumulative survival increased from a prior interval and has been adjusted.
- ¹U.S. incidence rate estimates are from the Surveillance, Epidemiology, and End Results (SEER) Program of the National Cancer Institute, 17 regions.

LTR Region 2: Ascension, Assumption, East Baton Rouge, East Feliciana, Iberville, Livingston, Pointe Coupée, St. Helena, Tangipahoa, West Baton Rouge and West Feliciana.

The Louisiana Tumor Registry is supported by the SEER Program (NCI), the National Program of Cancer Registries (CDC), the State of Louisiana, the LSU Health Sciences Center-New Orleans, and host institutions.

Compiled by Ingrid Wagner, MPH of the Louisiana Tumor Registry, on 05/08/2024

Vulvar Cancer, 5-Year Rela	ative Surviva	al, All Ma	lignant Case	es, 201	0-2020 (Foll	owed i	nto 2021)
		U.S. (SE	ER) ¹	Louis	siana	LTR F	Region 2
		N	Relative	N	Relative	N	Relative
All Races/Ethnicities	12 mo	9,415	88.30%	642	89.60%	132	86.60%
All Races/Ethnicities	24 mo	9,415	80.80%	642	83.20%	132	80.4%#
All Races/Ethnicities	36 mo	9,415	77.00%	642	78.70%	132	79.10%
All Races/Ethnicities	48 mo	9,415	74.00%	642	74.90%	132	76.7%#
All Races/Ethnicities	60 mo	9,415	71.30%	642	71.20%	132	76.1%#
Non-Hispanic White	12 mo	7,135	87.70%	465	90.10%	97	84.30%
Non-Hispanic White	24 mo	7,135	80.10%	465	83.10%	97	78.8%#
Non-Hispanic White	36 mo	7,135	76.40%	465	79.60%	97	78.8%#
Non-Hispanic White	48 mo	7,135	73.50%	465	75.90%	97	77.6%#
Non-Hispanic White	60 mo	7,135	70.70%	465	72.20%	97	77.4%#
Non-Hispanic Black	12 mo	740	90.30%	156	88.50%	31	94.4%#
Non-Hispanic Black	24 mo	740	84.0%#	156	82.6%#	31	85.4%#
Non-Hispanic Black	36 mo	740	79.20%	156	75.20%	31	78.8%#
Non-Hispanic Black	48 mo	740	76.30%	156	71.50%	31	70.8%#
Non-Hispanic Black	60 mo	740	72.8%#	156	67.0%#	31	70.8%#

Vulvar Cancer, 5-Year Relative Survival, Localized, 2010-2020 (Followed into 2021)

		U.S. (SEER) ¹		Louisiana		LTR Region 2	
		N	Relative	N	Relative	N	Relative
All Races/Ethnicities	12 mo	5,631	97.40%	400	97.90%	79	96.1%#
All Races/Ethnicities	24 mo	5,631	93.60%	400	93.70%	79	94.6%#
All Races/Ethnicities	36 mo	5,631	91.20%	400	90.00%	79	93.80%
All Races/Ethnicities	48 mo	5,631	89.10%	400	86.20%	79	91.0%#
All Races/Ethnicities	60 mo	5,631	86.70%	400	83.30%	79	90.6%#
Non-Hispanic White	12 mo	4,274	97.00%	292	97.5%#	58	96.1%#
Non-Hispanic White	24 mo	4,274	93.10%	292	92.40%	58	95.3%#
Non-Hispanic White	36 mo	4,274	91.00%	292	89.40%	58	95.3%#
Non-Hispanic White	48 mo	4,274	88.80%	292	85.20%	58	92.7%#
Non-Hispanic White	60 mo	4,274	86.20%	292	82.50%	58	92.7%#
Non-Hispanic Black	12 mo	462	99.4%#	93	99.50%	17	100.0%*#
Non-Hispanic Black	24 mo	462	96.0%#	93	96.6%#	17	95.9%#
Non-Hispanic Black	36 mo	462	92.30%	93	90.90%	17	91.0%#
Non-Hispanic Black	48 mo	462	90.4%#	93	89.0%#	17	85.1%#
Non-Hispanic Black	60 mo	462	87.5%#	93	85.0%#	17	85.1%#

Vulvar Cancer, 5-Year Relative Survival, Regional, 2010-2020 (Followed into 2021)

		U.S. (SEER) ¹		Louisiana		LTR Region 2	
		N	Relative	N	Relative	N	Relative
				16			
All Races/Ethnicities	12 mo	2,589	80.30%	8 16	79.20%	36	74.00%
All Races/Ethnicities	24 mo	2,589	66.30%	16 8	67.0%#	36	57.0%#
7		_,,,,,	00.0075	16	07107011		3713 75
All Races/Ethnicities	36 mo	2,589	59.40%	8	59.3%#	36	54.4%#
/=			- 4 - - - - - - - - - -	16	== 000/		- 4 - 0 0 / 11
All Races/Ethnicities	48 mo	2,589	54.50%	8 16	55.90%	36	51.8%#
All Races/Ethnicities	60 mo	2,589	50.70%	8	52.4%#	36	48.6%#
		,		12			
Non-Hispanic White	12 mo	1,997	79.80%	2	78.90%	24	64.20%
Nam Ilianania Wilaita	24	1 007	CE 000/	12	67.60/#	24	46 40/4
Non-Hispanic White	24 mo	1,997	65.80%	2 12	67.6%#	24	46.4%#
Non-Hispanic White	36 mo	1,997	58.80%	2	60.9%#	24	46.4%#
·				12			
Non-Hispanic White	48 mo	1,997	54.10%	2	58.7%#	24	46.4%#
Non Highania White	CO	1 007	EO 200/	12	FF 7 0/#	24	AC 40/#
Non-Hispanic White	60 mo	1,997	50.20%	2	55.7%#	24 ~	46.4%#
Non-Hispanic Black	12 mo	191	78.60%	41	81.7%#	~	~
Non-Hispanic Black	24 mo	191	68.0%#	41	67.2%#		, ,

Non-Hispanic Black	36 mo	191	61.50%	41	55.4%#	~	~
Non-Hispanic Black	48 mo	191	57.70%	41	47.40%	~	~
Non-Hispanic Black	60 mo	191	53.1%#	41	42.3%#	~	~

Vulvar Cancer, 5-Year Relative Survival, Distant, 2010-2020 (Followed into 2021)

		U.S. (SEER) ¹		Louisiana		LTR Region 2	
		N	Relative	N	Relative	N	Relative
All Races/Ethnicities	12 mo	631	49.60%	46	57.40%	~	~
All Races/Ethnicities	24 mo	631	34.90%	46	53.2%#	~	~
All Races/Ethnicities	36 mo	631	29.10%	46	51.8%#	~	~
All Races/Ethnicities	48 mo	631	25.4%#	46	47.2%#	~	~
All Races/Ethnicities	60 mo	631	22.1%#	46	39.2%#	~	~
Non-Hispanic White	12 mo	467	47.20%	29	66.50%	~	~
Non-Hispanic White	24 mo	467	33.20%	29	59.7%#	~	~
Non-Hispanic White	36 mo	467	28.30%	29	59.7%#	~	~
Non-Hispanic White	48 mo	467	25.2%#	29	53.3%#	~	~
Non-Hispanic White	60 mo	467	22.5%#	29	44.1%#	~	~
Non-Hispanic Black	12 mo	53	58.2%#	17	41.7%#	~	~
Non-Hispanic Black	24 mo	53	49.1%#	17	41.7%#	~	~
Non-Hispanic Black	36 mo	53	42.9%#	17	36.3%#	~	~
Non-Hispanic Black	48 mo	53	37.7%#	17	36.3%#	~	~
Non-Hispanic Black	60 mo	53	31.3%#	17	30.4%#	~	~

Kaplan-Meier method. Ederer II method used for cumulative expected.

LTR Region 2: Ascension, Assumption, East Baton Rouge, East Feliciana, Iberville, Livingston, Pointe Coupée, St. Helena, Tangipahoa, West Baton Rouge and West Feliciana.

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Compiled by Ingrid Wagner, MPH of the Louisiana Tumor Registry, on 05/08/2024

 $[\]sim$ Statistic not displayed due to less than 16 cases.

^{*} The relative cumulative survival is over 100 percent and has been adjusted.

[#] The relative cumulative survival increased from a prior interval and has been adjusted.

¹U.S. incidence rate estimates are from the Surveillance, Epidemiology, and End Results (SEER) Program of the National Cancer Institute, 17 regions.