

# HAWAI'I

Cancer at a Glance

2018-2022





UNIVERSITY OF HAWAI'I  
CANCER CENTER

University of Hawai'i Cancer Center  
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A Cancer Center Designated by the  
National Cancer Institute



UNIVERSITY OF HAWAI'I  
Hawai'i Tumor Registry

## About the University of Hawai'i Cancer Center

The University of Hawai'i Cancer Center is dedicated to saving lives in Hawai'i and the Pacific, and inspiring hope by working to conquer cancer. The flagship priority is to understand and address cancer health disparities. The center strives to achieve this through research, education, patient care, and community outreach, focusing on the unique and diverse ethnic, cultural, and environmental characteristics of Hawai'i and the Pacific.

The UH Cancer Center is one of only 73 institutions designated by the National Cancer Institute (NCI), representing a significant mark of excellence, and is the only NCI-designated cancer center in Hawai'i and the Pacific. The center contributes more than \$57 million to Hawai'i's economy through scientific research, clinical trials, and other activities.

As part of the University of Hawai'i at Mānoa, the UH Cancer Center operates out of facilities located in Kaka'ako. The center directly employs more than 300 faculty and staff, with an additional 200 affiliate members and cooperative agreements with organizations that are part of the Hawai'i Cancer Consortium. The consortium includes The Queen's Health Systems, Hawai'i Pacific Health, Kuakini Medical Center, Adventist Health Castle, Hilo Benioff Medical Center, Hawai'i Medical Service Association (HMSA), and the John A. Burns School of Medicine (JABSOM), all working together with the UH Cancer Center to advance cancer research and treatment in the state.

Learn more at <https://www.uhcancercenter.org/>



## Hawai'i Tumor Registry

The Hawai'i Tumor Registry (HTR) was established in 1960 by the Hawai'i Medical Association, the Hawai'i State Department of Health, and the Hawai'i Pacific Division of the American Cancer Society. The HTR has been operated by the University of Hawai'i Cancer Center since 1973 when it became a funded registry of the National Cancer Institute Surveillance, Epidemiology and End Results (SEER) Program. As one of the 28 NCI/SEER regions nationwide, the HTR provides complete and confidential cancer reporting for the entire state and serves as a resource for cancer research and cancer control activities in Hawai'i and the U.S.. Its data is used for local, national, and international research efforts.

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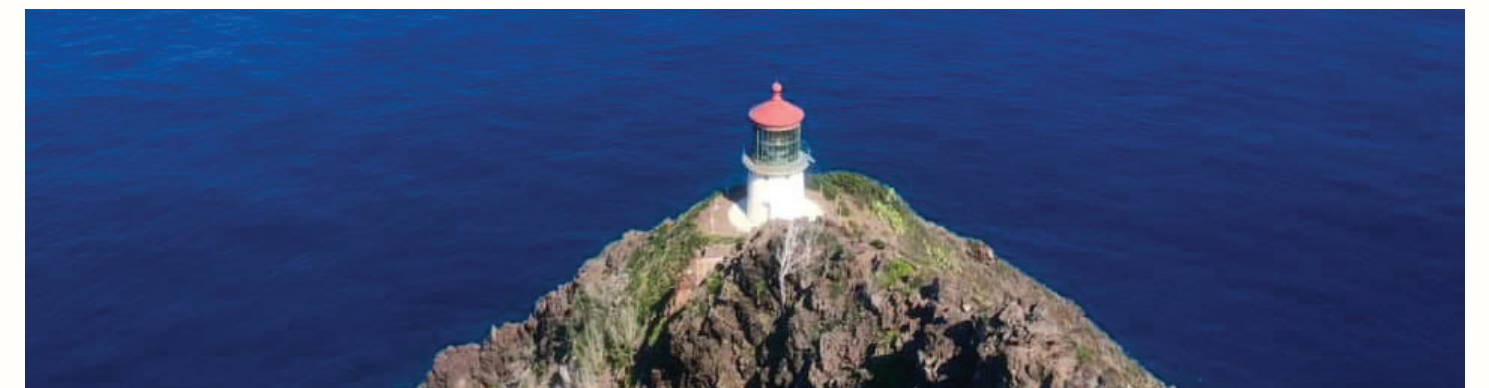
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# Overview of Cancer in Hawai'i, 2018-2022

- Each year, an average of 7,852 Hawai'i residents are diagnosed with invasive cancer.
- A total of 75,756 Hawai'i residents are living with cancer including those newly diagnosed or previously diagnosed with cancer.
- During the period 2018-2022, the statewide average annual incidence rate for all cancers combined was 427.5 per 100,000 in males and 395.4 per 100,000 in females.
- The most common cancer in men is prostate cancer, which accounts for 26% of cases, followed by cancers of the lung & bronchus (10%), colon & rectum (10%), melanoma of the skin (8%), and bladder (5%).
- Breast cancer is the most common cancer among women, comprising 34% of cases, followed by cancers of the lung & bronchus (10%), colon & rectum (8%), uterus/endometrium (8%), thyroid (4%), and melanoma of the skin (4%).
- Cancer is the 2nd leading cause of death (after cardiovascular disease) in Hawai'i.
- Each year, an average of 2,519 Hawai'i residents die of cancer.
- During the period 2018-2022, the average annual mortality (death) rate for all cancers combined was 144.9 per 100,000 in males and 105.1 per 100,000 in females.
- The leading cause of cancer death in men is lung & bronchus cancer, which accounts for 20% of cancer deaths, followed by cancers of the prostate (11%), colon & rectum (10%), pancreas (8%), and liver & intrahepatic bile duct (8%).
- Lung & bronchus cancer is also the top cause of cancer death in women (20%), followed by cancers of the breast (15%), pancreas (9%), colon & rectum (9%), and uterus/endometrium (5%).
- Notable trends:
  - Colon & rectum cancer incidence is rising more than 3% per year among adults under age 50.
  - Prostate cancer incidence is increasing nearly 4% per year.
  - Uterus/endometrium cancer mortality is increasing nearly 5% per year.

Table I. Top Cancers in Hawai'i, Newly Diagnosed Cases and Deaths

Incidence				Mortality			
Average Number & Percent of Cases per Year				Average Number & Percent of Deaths per Year			
Male		Female		Male		Female	
Case	%	Case	%	Case	%	Case	%
Prostate		Breast		Lung & Bronchus		Lung & Bronchus	
1,057	26.2%	1,287	33.8%	273	20.1%	233	20.1%
Lung & Bronchus		Lung & Bronchus		Prostate		Breast	
414	10.2%	377	9.9%	146	10.8%	172	14.9%
Colon & Rectum		Uterus/Endometrium		Colon & Rectum		Colon & Rectum	
399	9.9%	317	8.3%	134	9.9%	104	9.0%
Melanoma of the Skin		Colon & Rectum		Pancreas		Pancreas	
316	7.8%	315	8.3%	112	8.3%	103	8.9%
Bladder		Melanoma of the Skin		Liver & Intrahepatic Bile Duct		Uterus/Endometrium	
216	5.4%	160	4.2%	105	7.8%	55	4.8%
Oral Cavity & Pharynx		Thyroid		Non-Hodgkin Lymphoma; Leukemia		Liver & Intrahepatic Bile Duct	
179	4.4%	152	4.0%	55	4.1%	52	4.5%
Kidney & Renal Pelvis		Non-Hodgkin Lymphoma		Bladder		Ovary	
170	4.2%	129	3.4%	42	3.1%	51	4.4%
Non-Hodgkin Lymphoma		Pancreas		Oral Cavity & Pharynx; Esophagus		Non-Hodgkin Lymphoma	
158	3.9%	122	3.2%	41	3.0%	41	3.5%
Pancreas		Ovary		Stomach		Leukemia	
138	3.4%	82	2.2%	39	2.9%	31	2.7%
Liver & Intrahepatic Bile Duct		Kidney & Renal Pelvis		Kidney & Renal Pelvis		Stomach	
127	3.1%	80	2.1%	36	2.7%	27	2.4%
All Other Sites		All Other Sites		All Other Sites		All Other Sites	
865	21.4%	783	20.6%	276	20.4%	286	24.7%
All Sites		All Sites		All Sites		All Sites	
4,044	100.0%	3,808	100.0%	1,360	100.0%	1,159	100.0%



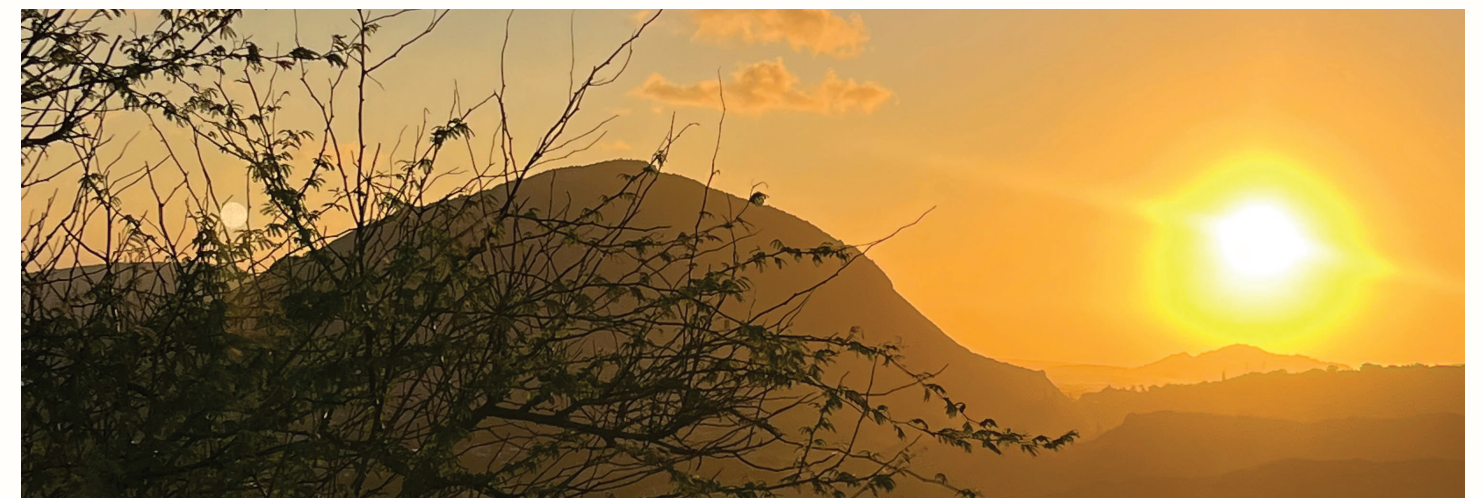
**Table 2. Average Annual Incidence, Hawai'i**

Cancer Sites	Male and Female		Male		Female	
	Case/Year	Rate	Case/Year	Rate	Case/Year	Rate
All Sites	7,852	406.9	4,044	427.5	3,808	395.4
Anus, Anal Canal & Anorectum	24	1.2	10	1.1	13	1.3
Bladder	274	13.2	216	22.9	57	5.0
Bones & Joints	13	0.9	^	^	^	^
Brain & Other Nervous System	72	4.2	46	5.5	25	3.0
Breast	^	^	^	^	1,287	138.4
Cervix	^	^	^	^	52	6.7
Colon & Rectum	714	38.2	399	44.5	315	32.2
Esophagus	69	3.4	54	5.7	14	1.3
Fallopian Tube & Other Genital Organs	^	^	^	^	33	3.4
Gallbladder	19	1.0	^	^	^	^
Hodgkin Lymphoma	28	1.9	15	2.0	12	1.7
Kidney & Renal Pelvis	250	13.2	170	18.5	80	8.2
Larynx	42	2.0	^	^	^	^
Leukemia	191	10.4	114	12.8	76	8.3
Liver & Intrahepatic Bile Duct	187	9.2	127	13.2	60	5.4
Lung & Bronchus	791	38.0	414	42.7	377	34.2
Melanoma of the Skin	476	24.9	316	33.9	160	17.0
Myeloma	97	4.9	61	6.6	36	3.5
Non-Hodgkin Lymphoma	287	14.7	158	17.4	129	12.3
Non-Melanoma Skin	36	1.8	21	2.4	14	1.3
Nose, Nasal Cavity & Middle Ear	14	0.7	^	^	^	^
Oral Cavity & Pharynx	244	12.8	179	19.5	64	6.6
Ovary	^	^	^	^	82	9.5
Pancreas	261	12.7	138	14.7	122	11.0
Prostate	^	^	1,057	104.2	^	^
Small Intestine	39	2.1	24	2.7	15	1.6
Soft Tissue including Heart	61	3.5	36	4.2	24	2.8
Stomach	152	7.6	90	9.6	61	5.9
Testis	^	^	41	5.7	^	^
Thyroid	202	12.6	50	6.0	152	19.4
Ureter	11	0.5	^	^	^	^
Uterus/Endometrium	^	^	^	^	317	34.6
Vulva	^	^	^	^	18	1.7
Other Biliary	52	2.5	28	3.0	23	2.1
Other Digestive Organs	18	0.9	^	^	^	^
Other Endocrine including Thymus	20	1.2	10	1.2	10	1.2



**Table 3. Average Annual Mortality (Deaths), Hawai'i**

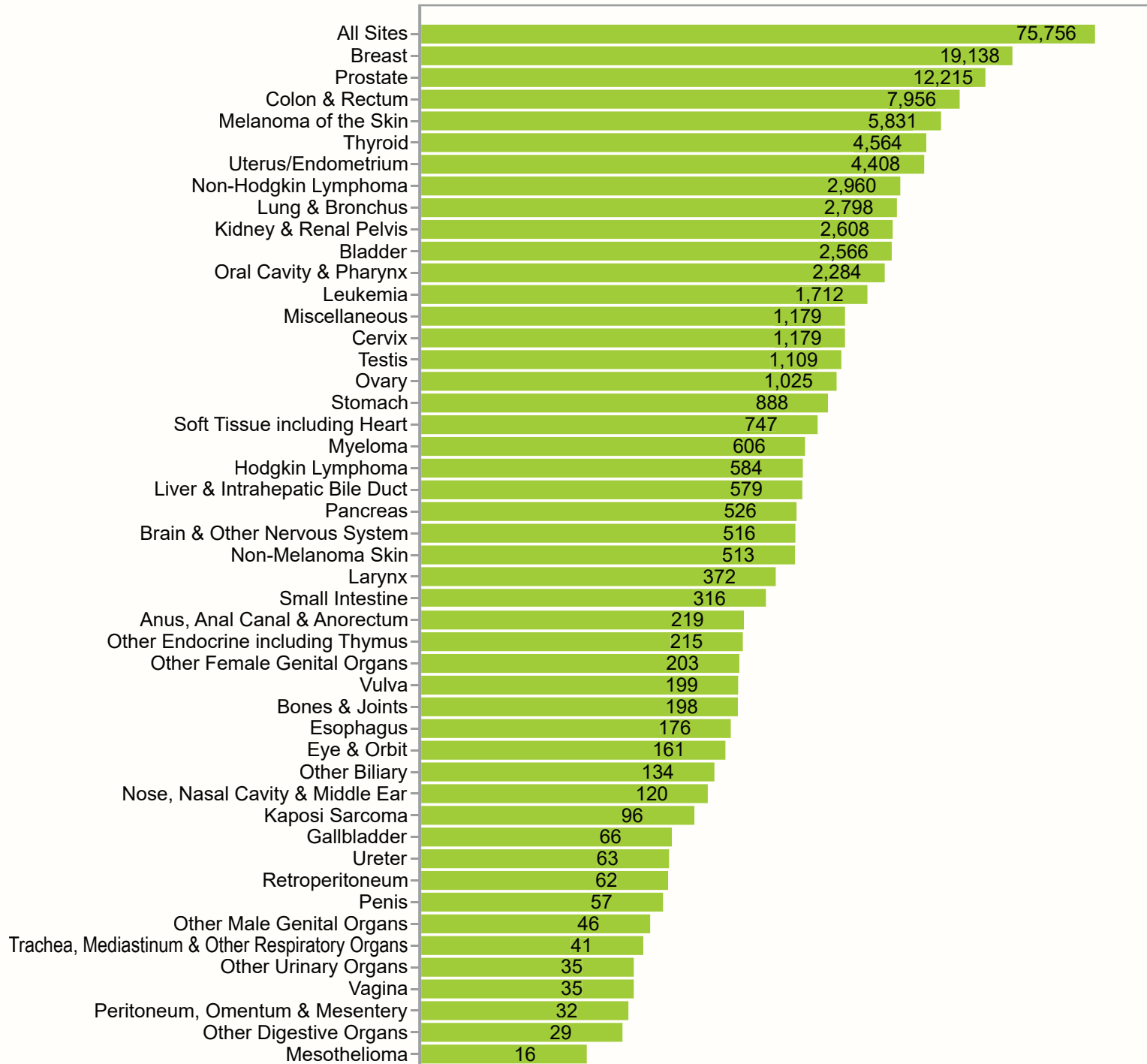
Cancer Sites	Male and Female		Male		Female	
	Case/Year	Rate	Case/Year	Rate	Case/Year	Rate
All Sites	2,519	122.4	1,360	144.9	1,159	105.1
Bladder	57	2.6	42	4.5	15	1.2
Brain & Other Nervous System	48	2.6	29	3.3	19	2.0
Breast	^	^	^	^	172	16.6
Cervix	^	^	^	^	16	1.9
Colon & Rectum	238	11.9	134	14.5	104	9.4
Esophagus	52	2.6	41	4.3	11	1.0
Gallbladder	12	0.6	^	^	^	^
Kidney & Renal Pelvis	52	2.5	36	3.8	15	1.4
Larynx	11	0.5	^	^	^	^
Leukemia	87	4.4	55	6.1	31	2.9
Liver & Intrahepatic Bile Duct	158	7.6	105	11.0	52	4.6
Lung & Bronchus	506	23.9	273	28.6	233	20.2
Melanoma of the Skin	25	1.3	^	^	^	^
Myeloma	43	2.1	22	2.5	20	1.8
Non-Hodgkin Lymphoma	96	4.6	55	5.9	41	3.5
Non-Melanoma Skin	16	0.7	^	^	^	^
Oral Cavity & Pharynx	54	2.8	41	4.5	13	1.3
Ovary	^	^	^	^	51	4.7
Pancreas	216	10.5	112	12.1	103	9.2
Prostate	^	^	146	15.5	^	^
Soft Tissue including Heart	31	1.6	17	1.8	14	1.3
Stomach	66	3.2	39	4.2	27	2.4
Thyroid	12	0.6	^	^	^	^
Uterus/Endometrium	^	^	^	^	55	5.4
Other Biliary	10	0.5	^	^	^	^
Other Digestive Organs	11	0.6	^	^	^	^



# Cancer Survivorship

In 2022, there were 75,756 Hawai'i residents living with cancer including those newly diagnosed and those diagnosed in the past. Residents with cancers of the breast (19,138 cases), prostate (12,215 cases), and colon & rectum (7,956 cases) comprised the largest proportion of cancer survivors in the state.

**Figure 1. Cancer Survivors, Hawai'i**



Number of Survivors (Logarithmic Scale)

# Cancer Across the Hawaiian Islands (Counties)

- Annually, Honolulu County, including all of O'ahu, accounts for the majority of newly diagnosed cancer cases (67%, or 5,253), followed by Hawai'i County (16%, or 1,257 cases), Maui County (including Maui, Moloka'i, and Lāna'i) (12%, or 931 cases), and Kaua'i County (5%, or 405 cases).
- Each year, residents of Honolulu County account for the most cancer deaths (66%, or 1,669), followed by Hawai'i County (17%, or 419 deaths), Maui County (12%, or 297 deaths), and Kaua'i County (5%, or 133 deaths).
- Overall cancer incidence rates were higher in Hawai'i County (419 per 100,000) compared to Kaua'i County (385 per 100,000).
- Overall cancer mortality rates were higher in Hawai'i and Maui Counties (137 and 130 per 100,000, respectively) compared to the Honolulu County (118 per 100,000).
- Melanoma of the skin incidence in Honolulu County was lower than in Hawai'i, Maui and Kaua'i Counties.
- Prostate cancer mortality in Honolulu County was lower than Hawai'i, Maui, and Kaua'i Counties.

**Table 4. Average Annual Number of Cancer Cases and Deaths, by County, Hawai'i, 2018-2022**

County	All Sites		Breast		Colon & Rectum		Lung & Bronchus		Prostate	
	Incidence per Year	Mortality per Year	Incidence per Year	Mortality per Year	Incidence per Year	Mortality per Year	Incidence per Year	Mortality per Year	Incidence per Year	Mortality per Year
Honolulu County	5,253	1,669	881	115	492	162	542	343	707	87
Hawai'i County	1,257	419	193	28	95	35	125	78	169	27
Maui County	931	297	151	18	95	30	84	58	125	20
Kauai County	405	133	61	^	31	11	39	26	56	10



Figure 2. Overall Cancer Incidence and Mortality by County, Hawai'i 2018-2022

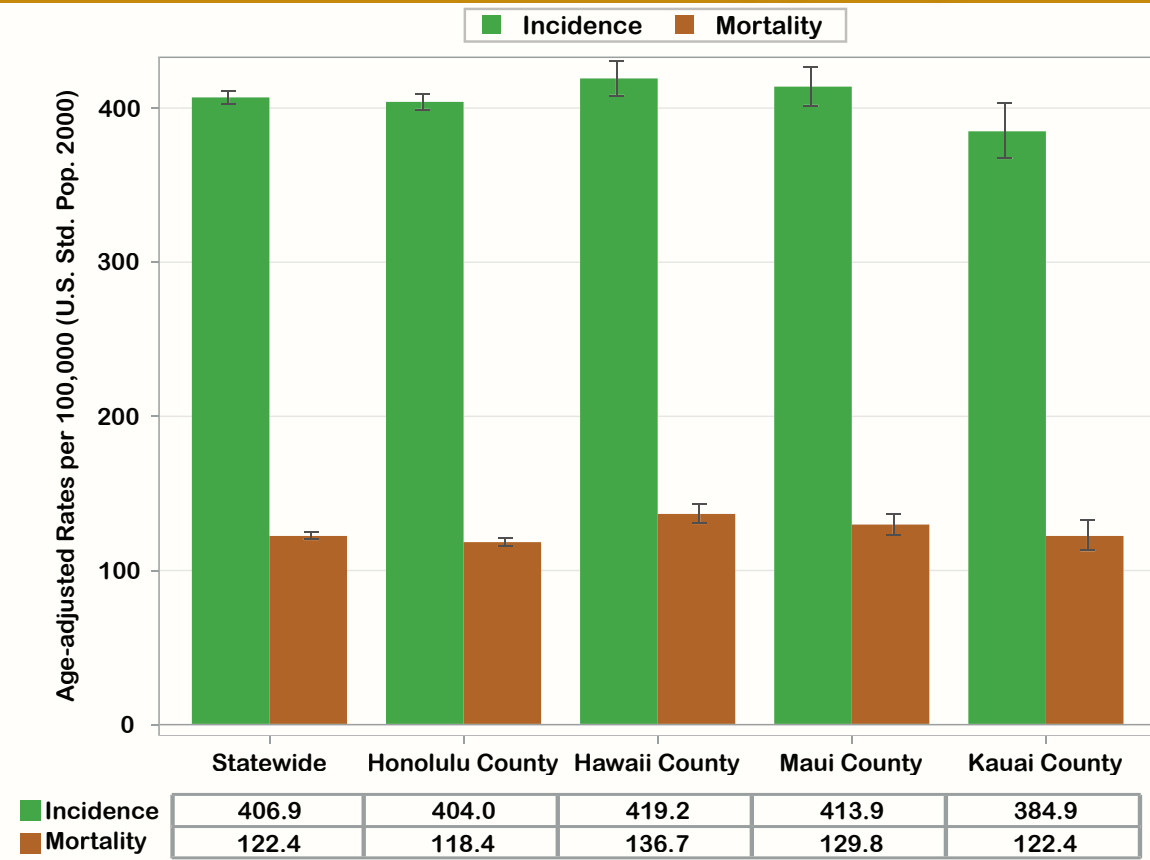


Figure 4. Prostate Cancer Incidence and Mortality by County, Hawai'i 2018-2022

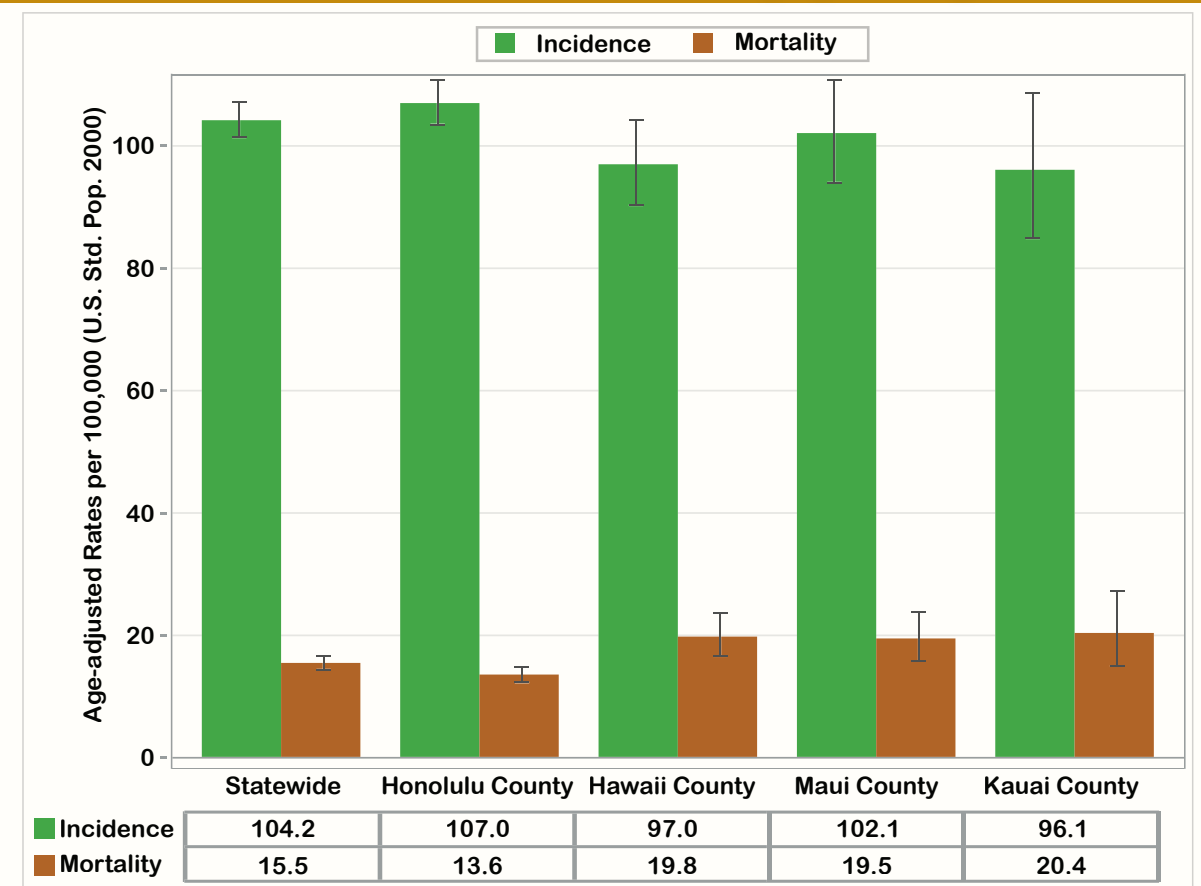
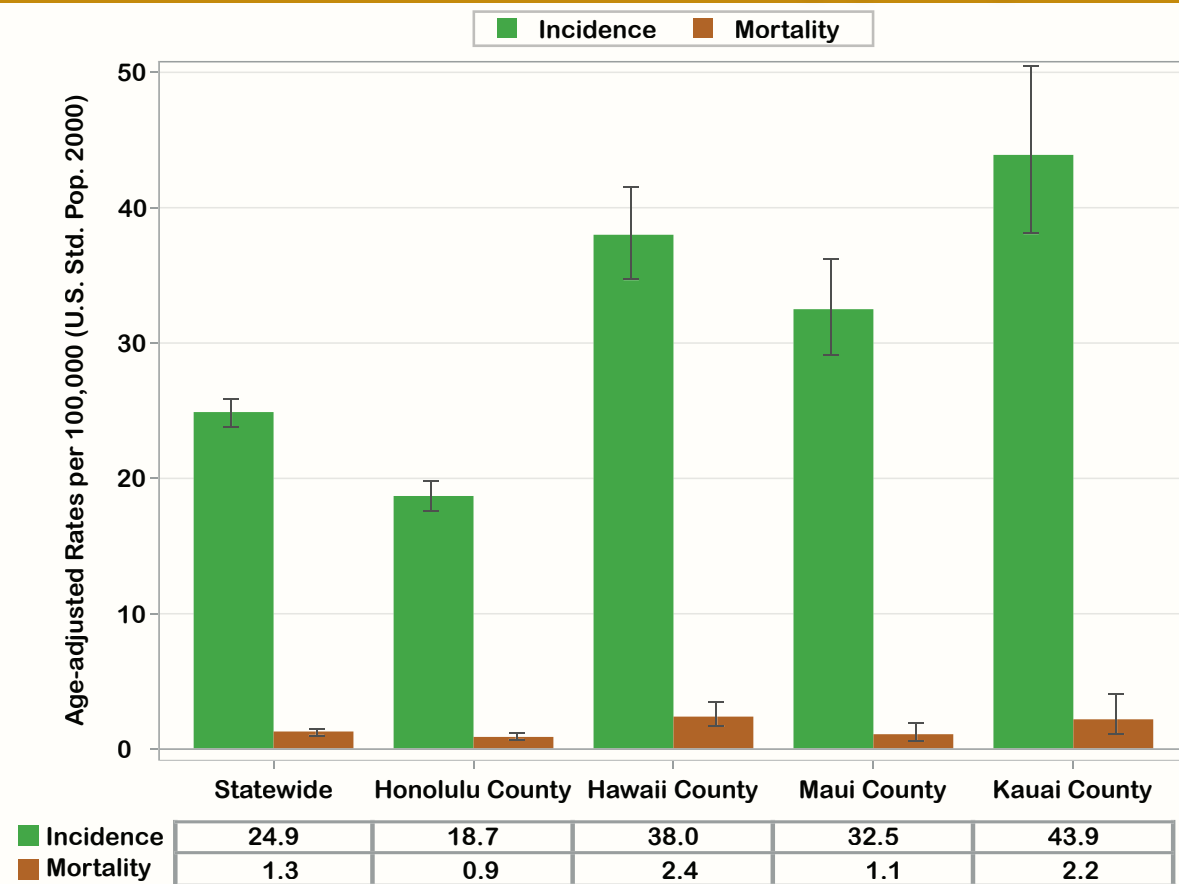


Figure 3. Melanoma of the Skin Incidence and Mortality by County, Hawai'i 2018-2022



# Trends in Cancer Incidence and Mortality in Hawai'i

- Over the past decade (2013 to 2022), overall cancer incidence remained relatively stable among both men and women with no significant change over time.
- Over the past decade (2013 to 2022), overall cancer mortality significantly declined in males (1.8% per year) and remained unchanged in females.
- From 2013 to 2022, significant changes in incidence were observed for certain cancers:
  - Among males and females, cancers of the colon & rectum increased in those under age 50 and decreased among individuals 50 and older.
  - Among males, cancers of the small intestine and prostate increased while cancers of the liver & intrahepatic bile duct, lung & bronchus, and leukemia (under age 50) decreased.
  - Among females, there were increases in thyroid cancer (age 50 and older) and cancers of the fallopian tube and other genital organs. Cancers of the ovary and myeloma (50 and older) decreased.
- From 2013 to 2022, significant changes in mortality were observed for certain cancers:
  - Mortality for cancers of the lung & bronchus decreased among males and females.
  - Among males, mortality for myeloma and cancers of the lung & bronchus, stomach, and colon & rectum cancer (age 50 and older) decreased.
  - Among females, mortality increased for cancers of the uterus/endometrium and non-Hodgkin lymphoma (age 50 and older) and decreased for cancers of the brain & other nervous system cancer and stomach (age 50 and older).



Figure 5. Cancer Incidence, Average Annual Number of Cases and Age-Adjusted Rates, Hawai'i 1993-2022

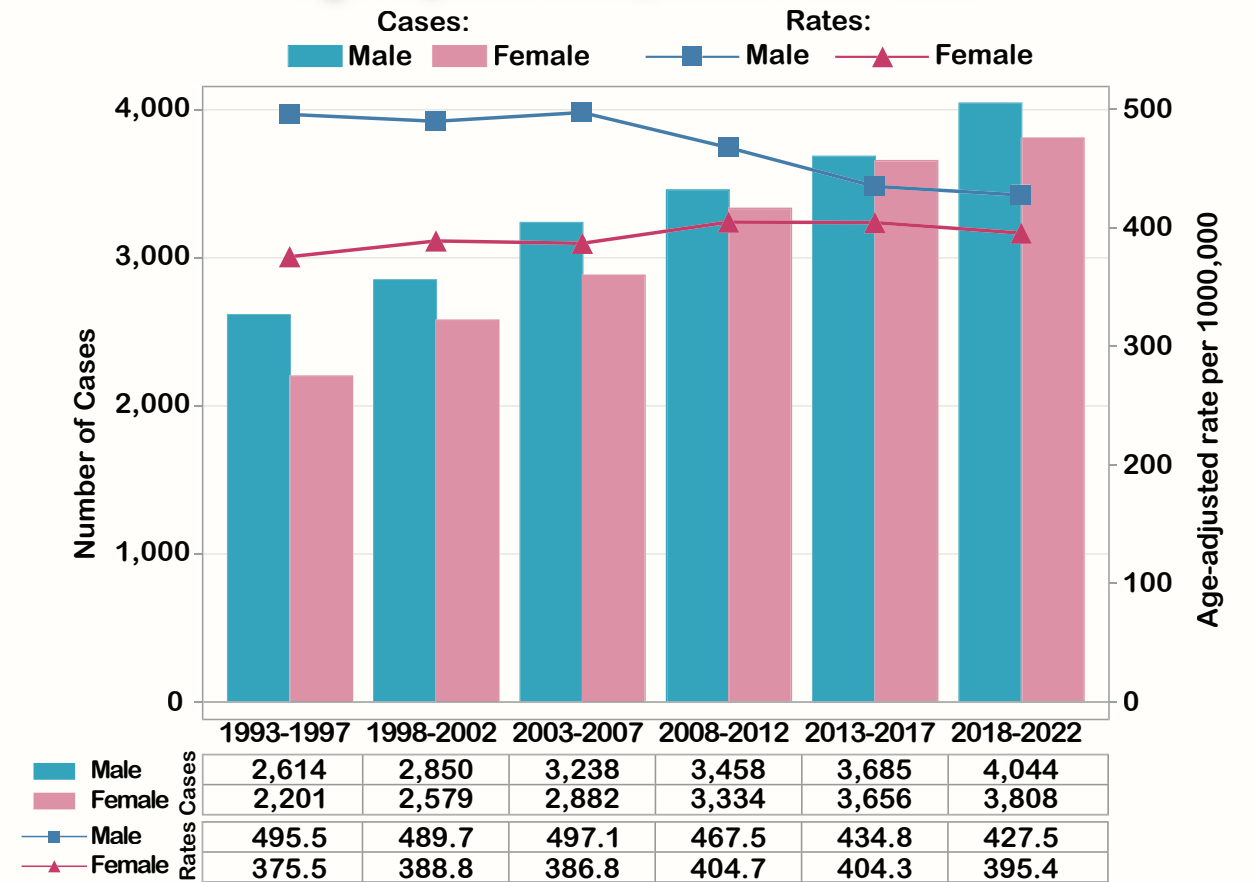
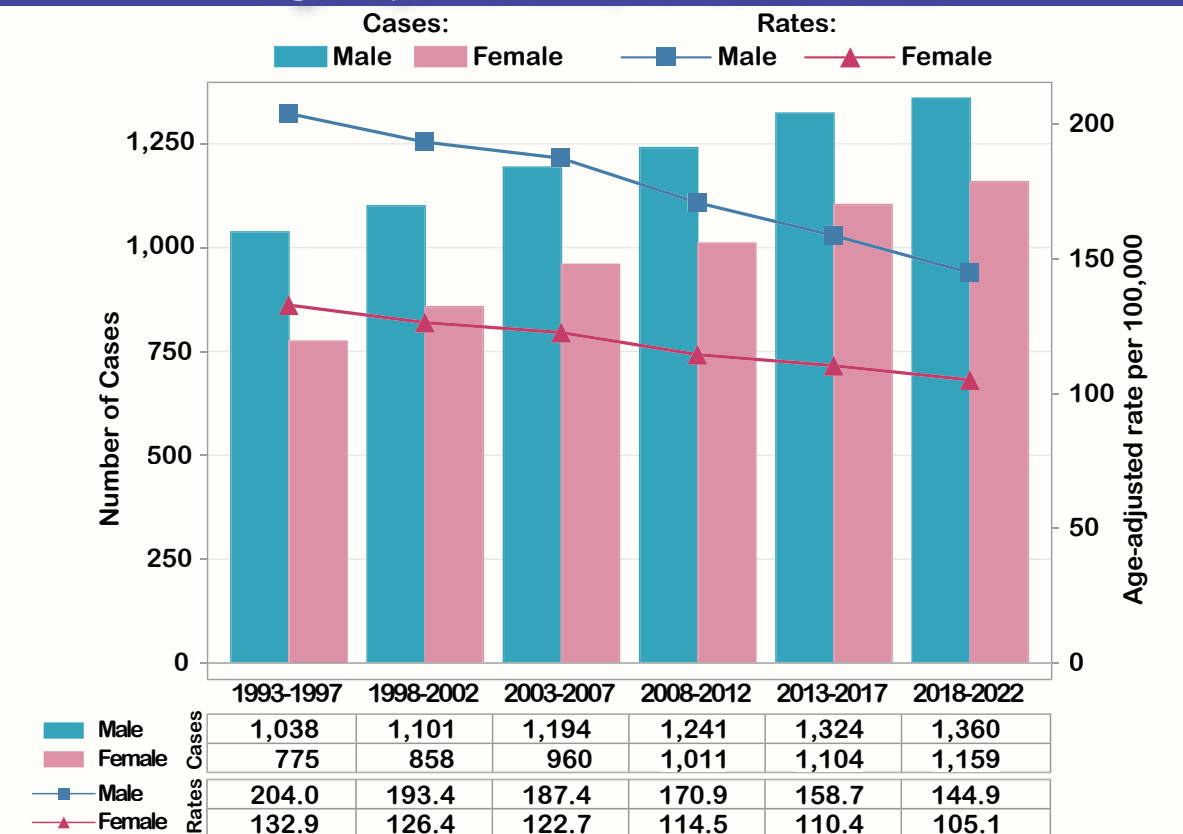


Figure 6. Cancer Mortality, Average Annual Number of Cases and Age-Adjusted Rates, Hawai'i 1993-2022



**Table 5. Average Annual Percent Change in Cancer Incidence Rates, Hawai'i 2013-2022**

Incidence		
Site	Sex and Age Group	Rate Change
Colon & Rectum	Both Sexes, Ages < 50 years	↑ Increasing, 3.4
	Male, Ages 50+ years	↓ Decreasing, -1.0
	Female, Ages 50+ years	↓ Decreasing, -2.3
Fallopian Tube & Other Genital Organs	Female, All Ages	↑ Increasing, 11.0
Leukemia	Male, Ages < 50 years	↓ Decreasing, -3.9
Liver & Intrahepatic Bile Duct	Male, All Ages	↓ Decreasing, -5.1
Lung & Bronchus	Male, All Ages	↓ Decreasing, -4.5
Myeloma	Female, Ages 50+ years	↓ Decreasing, -3.9
Ovary	Female, All Ages	↓ Decreasing, -1.4
Prostate	Male, All Ages	↑ Increasing, 3.9
Small Intestine	Male, All Ages	↑ Increasing, 4.2
Thyroid	Female, Ages 50+ years	↑ Increasing, 2.2

**Table 6. Average Annual Percent Change in Cancer Mortality Rates, Hawai'i 2013-2022**

Mortality		
Site	Sex and Age Group	Rate Change
All Sites	Male, All Ages	↓ Decreasing, -1.8
Brain & Other Nervous System	Female, All Ages	↓ Decreasing, -4.9
Colon & Rectum	Male, Ages 50+ years	↓ Decreasing, -3.4
Lung & Bronchus	Male, All Ages	↓ Decreasing, -5.0
	Female, All Ages	↓ Decreasing, -3.1
Myeloma	Male, All Ages	↓ Decreasing, -5.8
Non-Hodgkin Lymphoma	Female, Ages 50+ years	↑ Increasing, 2.5
Stomach	Male, All Ages	↓ Decreasing, -5.4
	Female, Ages 50+ years	↓ Decreasing, -7.3
Uterus/Endometrium	Female, All Ages	↑ Increasing, 4.9

## Comparison of Cancer in Hawai'i and the United States

- In 2018-2022, Hawai'i incidence rates were significantly higher than the U.S. overall for the following cancers: colon & rectum and melanoma of the skin in males; breast, uterus/endometrium, and fallopian tube & other genital organs in females; and stomach and other biliary in both sexes.
- In 2018-2022, Hawai'i incidence rates were significantly lower than the U.S. overall for a number of cancers, including Hodgkin lymphoma, mesothelioma, and cancers of the prostate and thyroid among males; melanoma of the skin, cancers of vulva, small intestine, peritoneum, omentum & mesentery, eye & orbit, and pancreas among females; and all cancers combined, leukemia, myeloma, non-Hodgkin lymphoma, and cancers of the esophagus, brain & other nervous system, anus, anal canal & anorectum, kidney & renal pelvis, larynx, lung & bronchus, and bladder among both sexes.
- In 2018-2022, mortality rates among males were significantly higher in Hawai'i compared to the U.S. for cancers of the liver & intrahepatic bile duct. Among females, mortality did not exceed that of the U.S. for any cancer type.
- In 2018-2022, cancer mortality rates in Hawai'i were significantly lower than the U.S. overall for cancers of the prostate and larynx among males; cancers of the breast, vulva, ovary, and non-melanoma skin among females; and all cancer combined, leukemia, myeloma, and cancers of the brain & other nervous system, esophagus, kidney & renal pelvis, lung & bronchus, melanoma of the skin, and urinary bladder in both sexes.

**Table 7. Higher Incidence Compared to the U.S., 2018-2022**

Male		
Site	Hawai'i Incidence Rate	U.S. Incidence Rate
Colon & Rectum	44.5	41.5
Melanoma of the Skin	33.9	29.1
Other Biliary	3.0	2.0
Stomach	9.6	8.3
Female		
Site	Hawai'i Incidence Rate	U.S. Incidence Rate
Breast	138.4	131.3
Fallopian Tube & Other Genital Organs	3.4	2.1
Other Biliary	2.1	1.4
Stomach	5.9	4.9
Uterus/Endometrium	34.6	27.9

**Table 8. Lower Incidence Compared to the U.S., 2018-2022**

Male		
Site	Hawai'i Incidence Rate	U.S. Incidence Rate
All Sites	427.5	484.8
Anus, Anal Canal & Anorectum	1.1	1.5
Bladder	22.9	32.3
Brain & Other Nervous System	5.5	7.4
Esophagus	5.7	7.8
Hodgkin Lymphoma	2.0	2.8
Kidney & Renal Pelvis	18.5	23.7
Larynx	3.6	4.8
Leukemia	12.8	18.0
Lung & Bronchus	42.7	58.2
Mesothelioma	0.7	1.2
Myeloma	6.6	8.7
Non-Hodgkin Lymphoma	17.4	22.2
Prostate	104.2	116.4
Thyroid	6.0	6.9
Female		
Site	Hawai'i Incidence Rate	U.S. Incidence Rate
All Sites	395.4	424.8
Anus, Anal Canal & Anorectum	1.3	2.6
Bladder	5.0	8.1
Brain & Other Nervous System	3.0	5.3
Esophagus	1.3	1.8
Eye & Orbit	0.3	0.7
Kidney & Renal Pelvis	8.2	12.1
Larynx	0.6	1.1
Leukemia	8.3	11.2
Lung & Bronchus	34.2	48.2
Melanoma of the Skin	17.0	18.7
Myeloma	3.5	5.9
Non-Hodgkin Lymphoma	12.3	15.4
Pancreas	11.0	12.2
Peritoneum, Omentum & Mesentery	0.4	0.8
Small Intestine	1.6	2.4
Vulva	1.7	2.7

**Table 9. Higher Mortality Compared to the U.S., 2018-2022**

Site	Hawai'i Incidence Rate	U.S. Incidence Rate
Liver & Intrahepatic Bile Duct (Male)	11.0	9.4

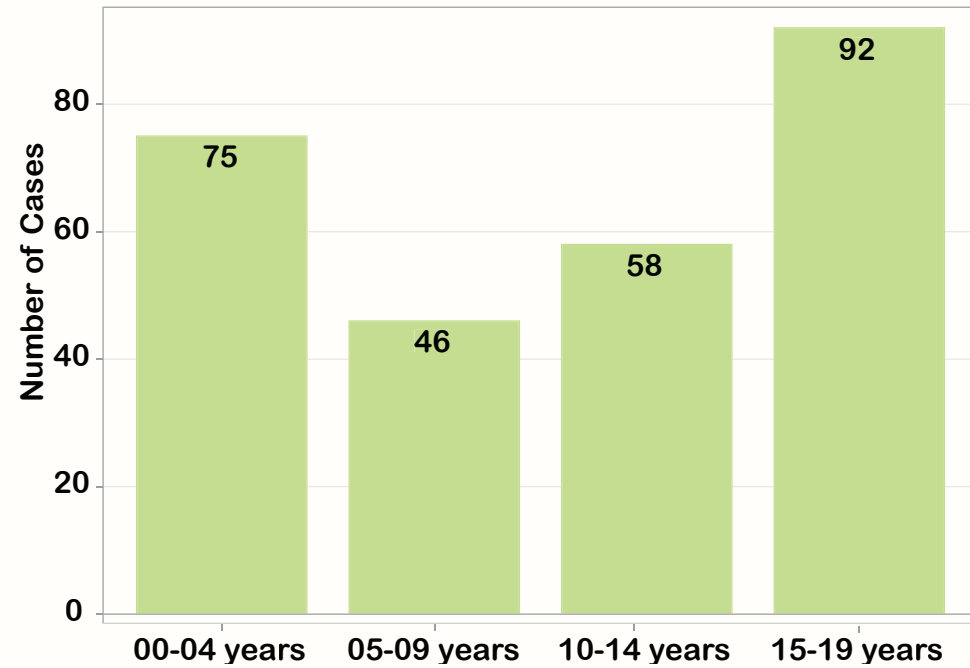
**Table 10. Lower Mortality Compared to the U.S., 2018-2022**

Male		
Site	Hawai'i Incidence Rate	U.S. Incidence Rate
All Sites	144.9	172.2
Brain & Other Nervous System	3.3	5.3
Esophagus	4.3	6.5
Kidney & Renal Pelvis	3.8	5.0
Larynx	0.9	1.6
Leukemia	6.1	7.8
Lung & Bronchus	28.6	38.5
Melanoma of the Skin	2.0	3.0
Myeloma	2.5	3.8
Prostate	15.5	18.8
Bladder	4.5	7.0
Female		
Site	Hawai'i Incidence Rate	U.S. Incidence Rate
All Sites	105.1	125.8
Brain & Other Nervous System	2.0	3.6
Breast	16.6	19.2
Colon & Rectum	9.4	10.7
Esophagus	1.0	1.4
Kidney & Renal Pelvis	1.4	2.1
Leukemia	2.9	4.4
Lung & Bronchus	20.2	27.4
Melanoma of the Skin	0.6	1.3
Myeloma	1.8	2.4
Non-Melanoma Skin	0.2	0.5
Ovary	4.7	6.0
Bladder	1.2	2.0
Vulva	0.3	0.6

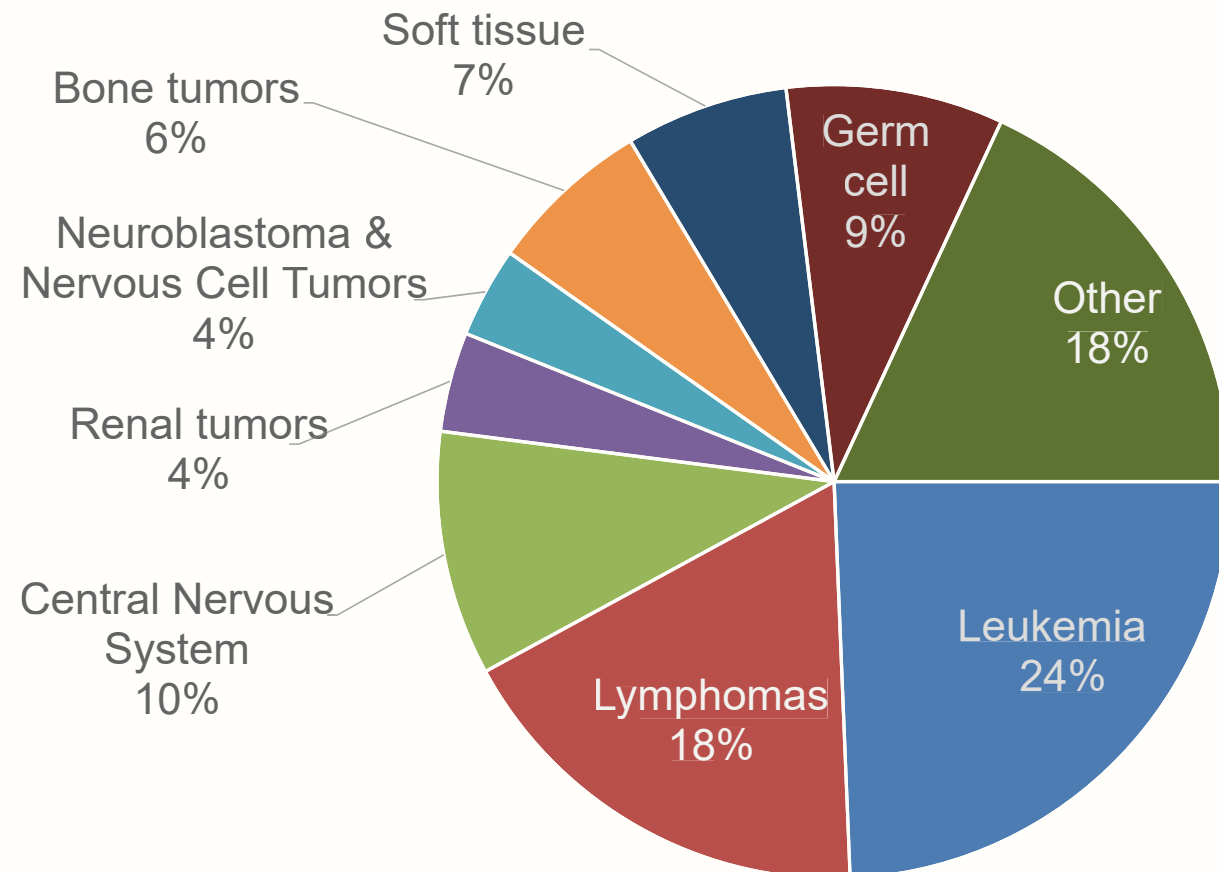
# Childhood Cancer in Hawai'i

- Childhood cancer is rare, with less than one percent of all cancers occurring in individuals ages 19 years and under.
- Approximately 54 children (ages 19 and under) are diagnosed with cancer each year in Hawai'i.
- Cancer is the third leading cause of death in Hawai'i among children ages 1 to 14 years old.
- Leukemia was the most common cancer in children comprising 24% of all cases diagnosed in 2018-2022.

**Figure 7. Age Distribution of Childhood Cancers, Hawai'i, 2018-2022**



**Figure 8. Cancers in Individuals Ages 19 and Under, Hawai'i, 2018-2022**



# Breast Cancer in Hawai'i

- Breast cancer is the most common cancer diagnosed in women in Hawai'i.
- Annually, an average of 1,287 women are diagnosed with invasive breast cancer in Hawai'i while another 321 are diagnosed with in situ breast cancer, or very early stage tumors that have not invaded surrounding tissue.
- An average of 172 women die of breast cancer each year in Hawai'i.
- Seventy-three percent of breast cancers are diagnosed in women of age 55 and older.
- Invasive breast cancer incidence and mortality rates in Hawai'i remained stable over the past 10 years.
- Invasive breast cancer incidence in Hawai'i (138.4 per 100,000) was higher than the U.S. overall (131.3 per 100,000) in 2018-2022.
- Hawai'i has among the lowest rates of breast cancer mortality in the country (16.6 per 100,000). This compares to 19.2 per 100,000 for the U.S. overall in 2018-2022.
- Breast cancer mortality was highest in Native Hawaiians and Other Pacific Islanders.
- Most breast cancers (76%) are diagnosed at early stages (in situ or localized); 23% are diagnosed at advanced stages.
- The proportion of breast cancers diagnosed at advanced stages ranged from 16-17% for Korean and Japanese women to 38% for Other Pacific Islanders.



Figure 9. Breast Cancer Incidence and Mortality , Hawai'i, 1993-2022

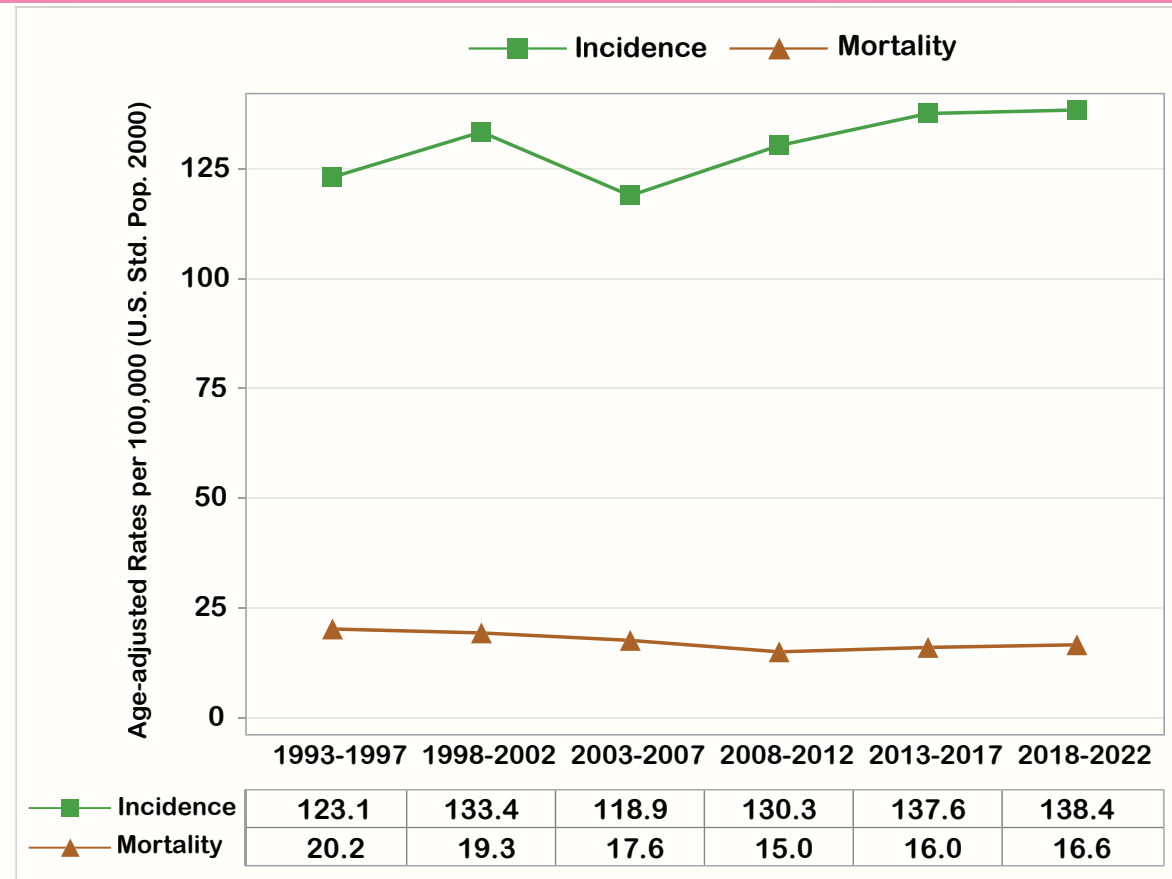


Figure 11. Breast Cancer Incidence and Mortality, by Race/Ethnicity, Hawai'i 2018-2022

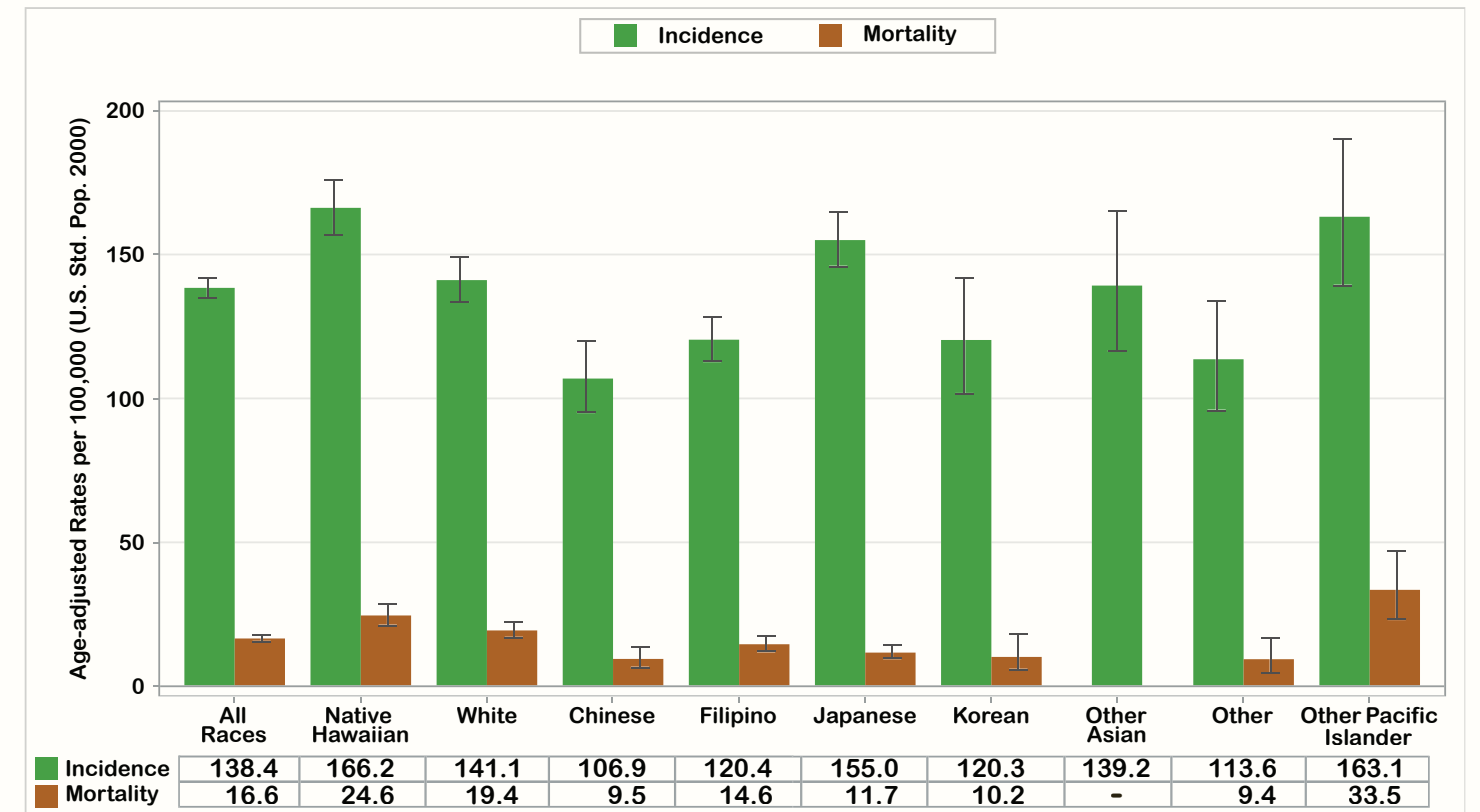


Figure 10. Breast Cancer Cases by Age at Diagnosis, Hawai'i, 2018-2022

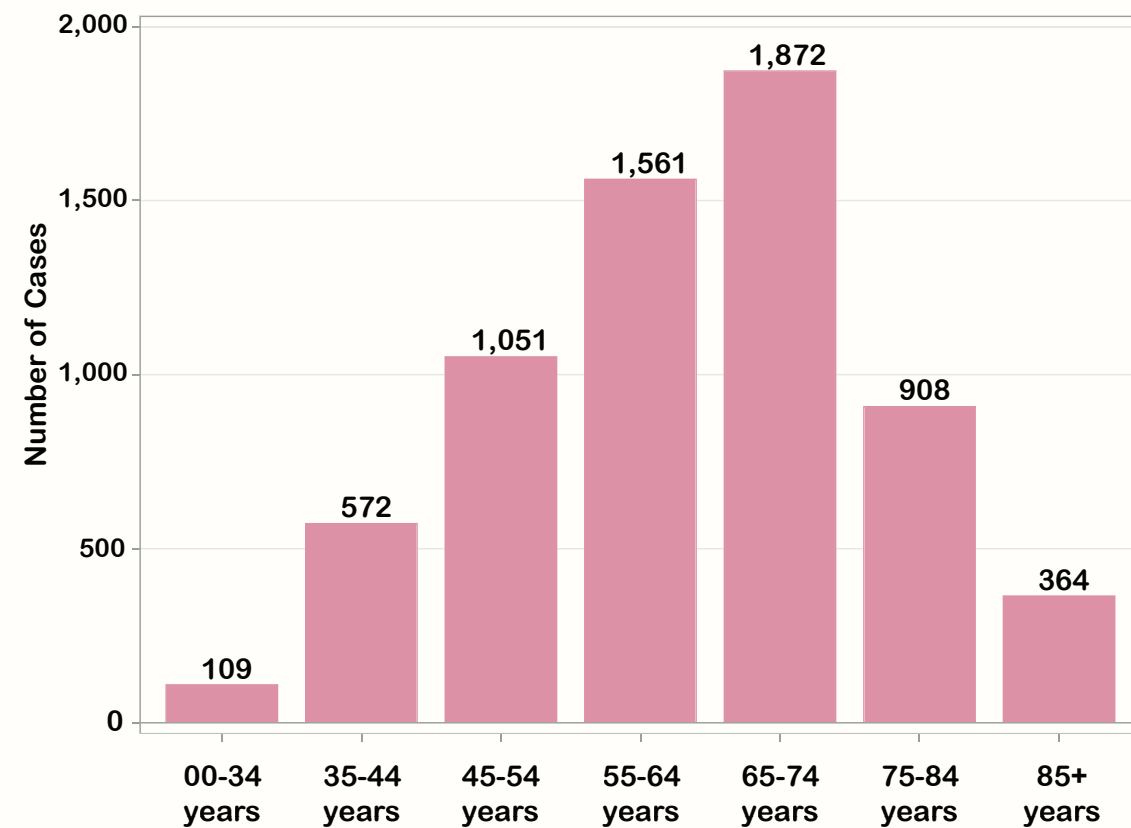
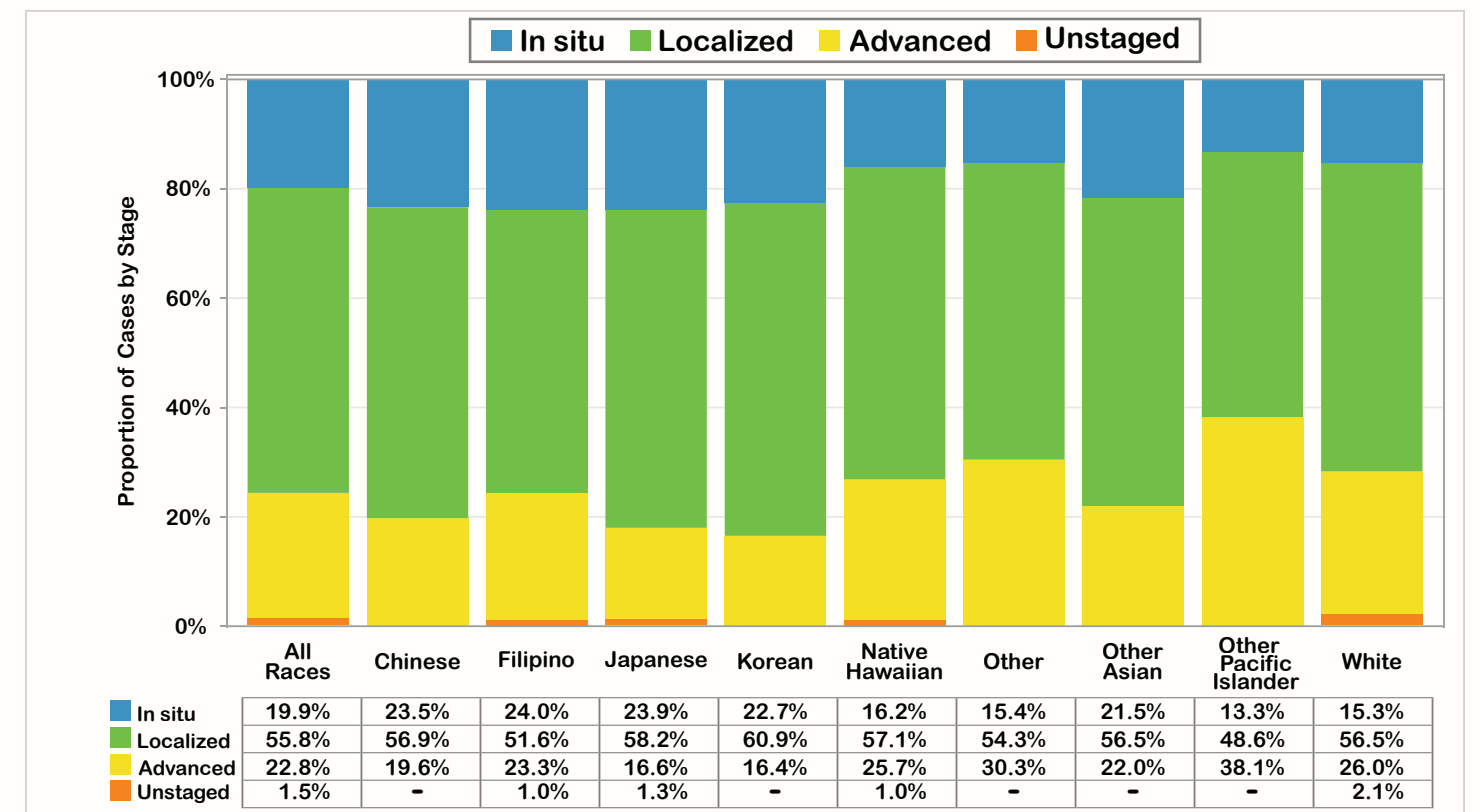


Figure 12. Breast Cancer Stage Distribution, Hawai'i 2018-2022



# Prostate Cancer in Hawai'i

- Prostate cancer is the most common cancer diagnosed in men in Hawai'i.
- Annually, an average of 1,057 men are diagnosed with invasive prostate cancer in Hawai'i.
- An average of 146 men die of prostate cancer in Hawai'i each year.
- Seventy-six percent of prostate cancers are diagnosed at age 65 years and older.
- After a decade of decreasing incidence, the incidence of prostate cancer significantly increased an average of 3.9% per year from 2013-2022.
- Hawai'i had a lower incidence of prostate cancer (104.2 per 100,000) compared to the U.S. overall (116.4 per 100,000) in 2018-2022.
- Prostate cancer mortality in Hawai'i (15.5 per 100,000) was lower than the U.S. overall (18.8 per 100,000) in 2018 -2022.
- Prostate cancer mortality was highest in Other Pacific Islanders.
- In 2018-2022, 65% of prostate cancer cases were diagnosed at early stages and 27% at advanced stages; 9% of tumors were unstaged.
- Native Hawaiians had the highest proportion of advanced stage prostate cancers (34%).



Figure 13. Prostate Cancer Incidence and Mortality, Hawai'i, 1993-2022

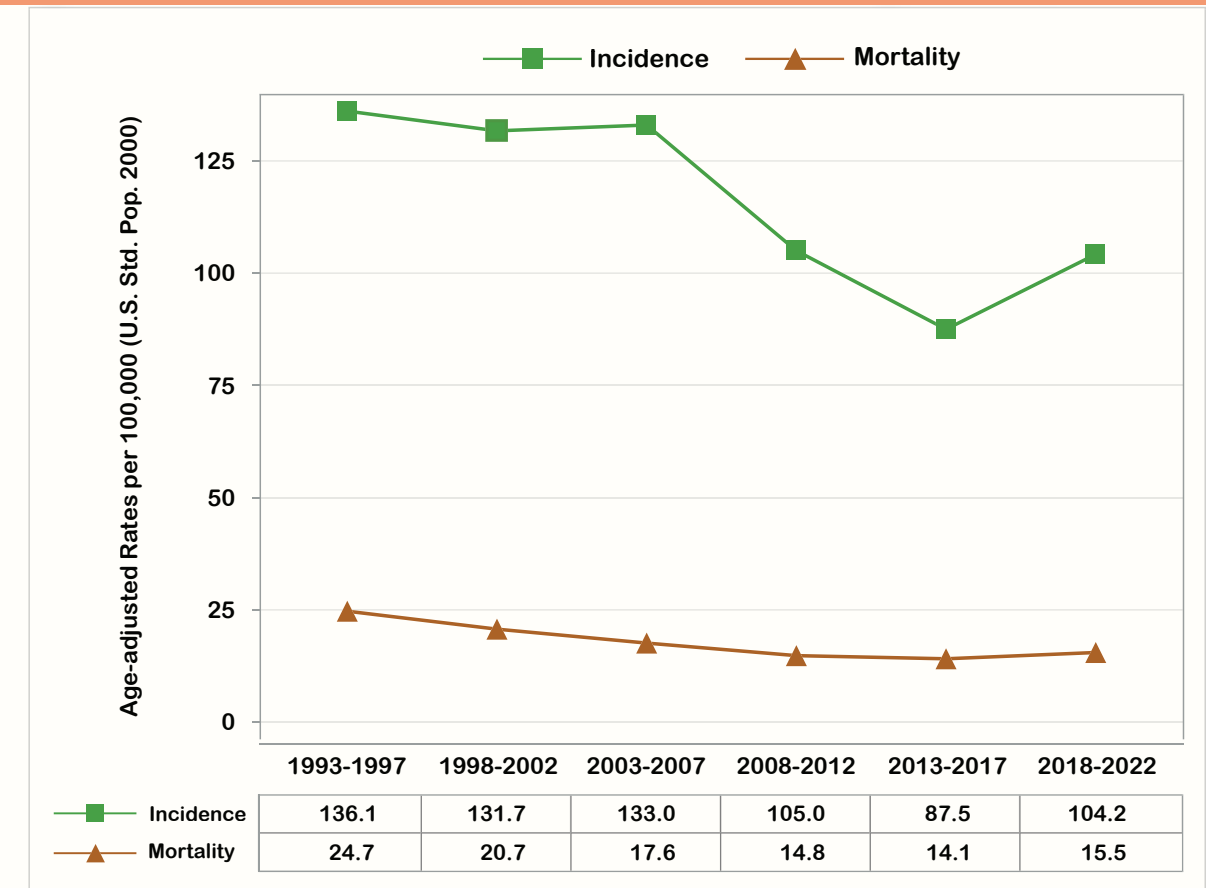


Figure 14. Prostate Cancer Cases by Age at Diagnosis, Hawai'i 2018-2022

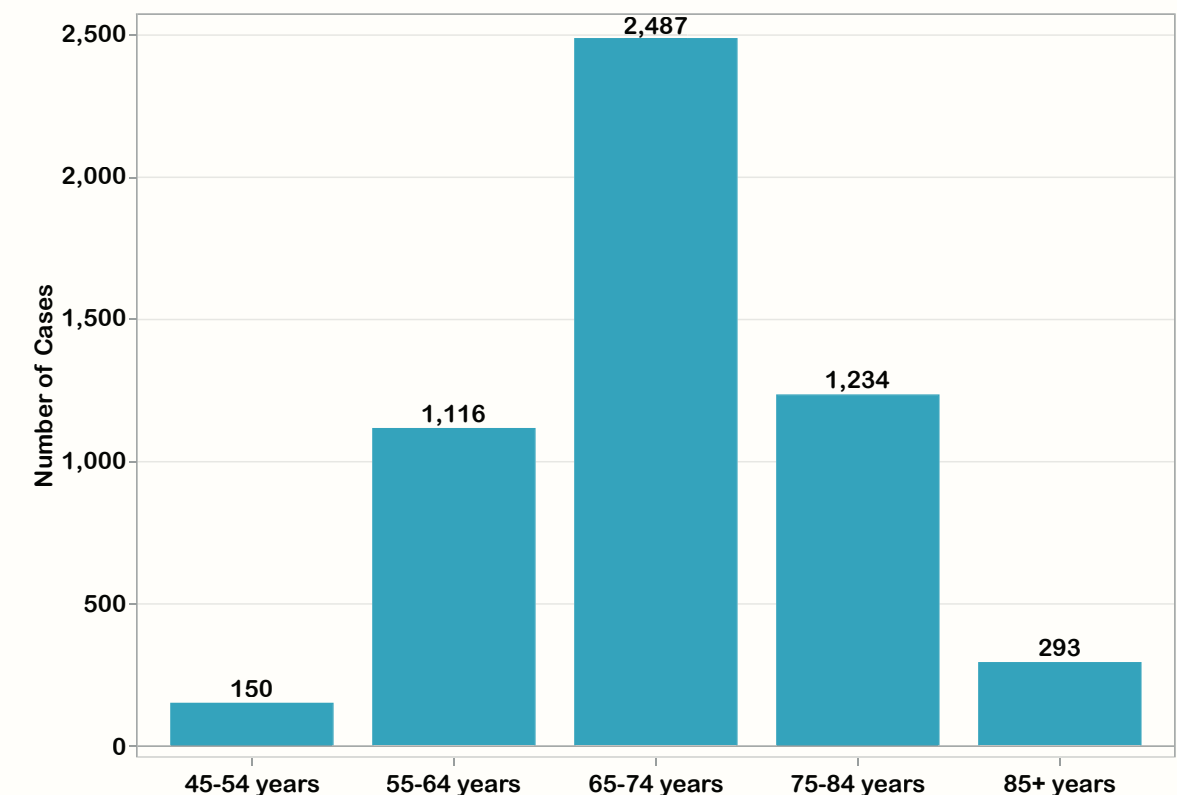


Figure 15. Prostate Cancer Incidence and Mortality, by Race/Ethnicity, Hawai'i 2018-2022

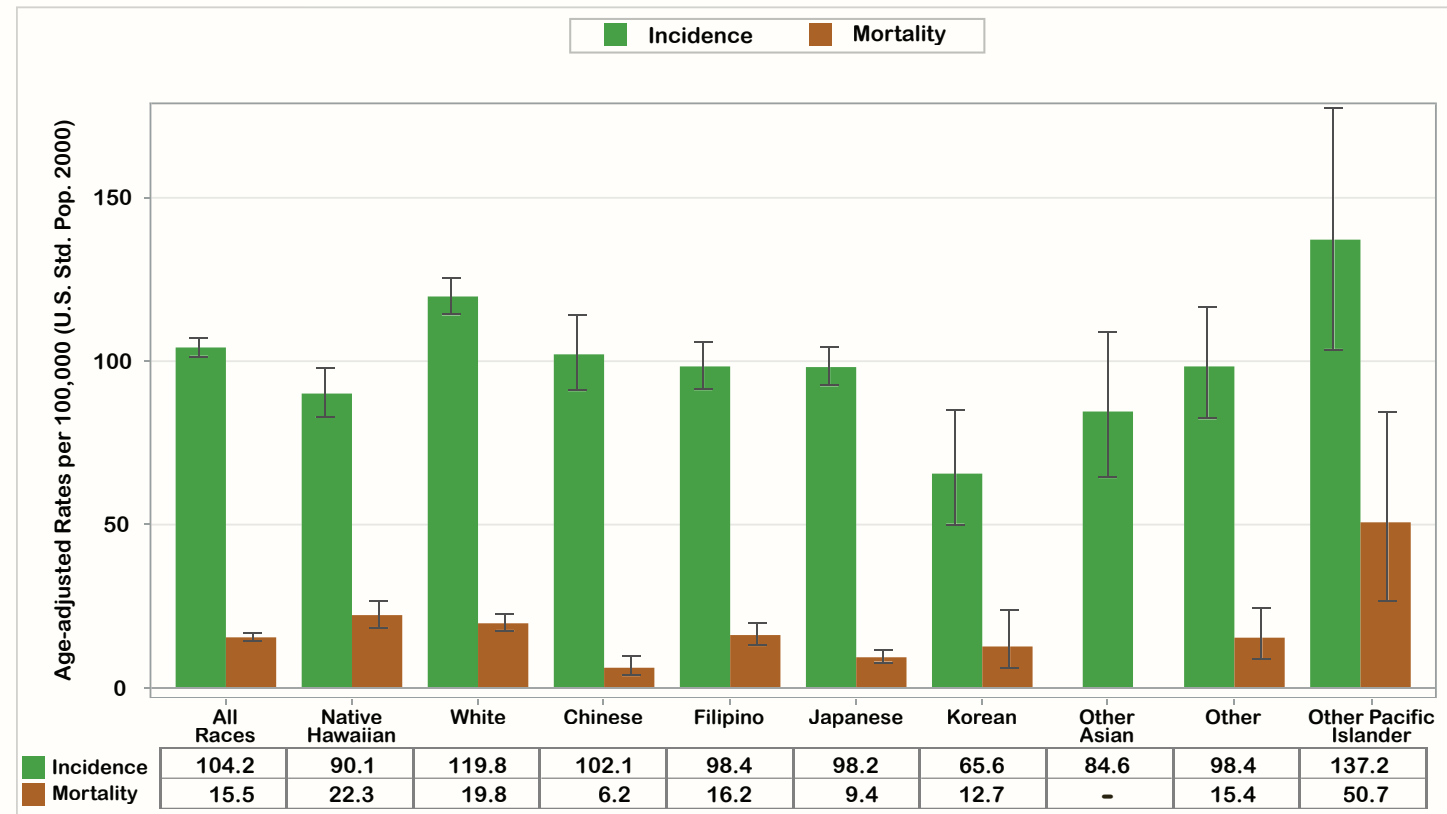
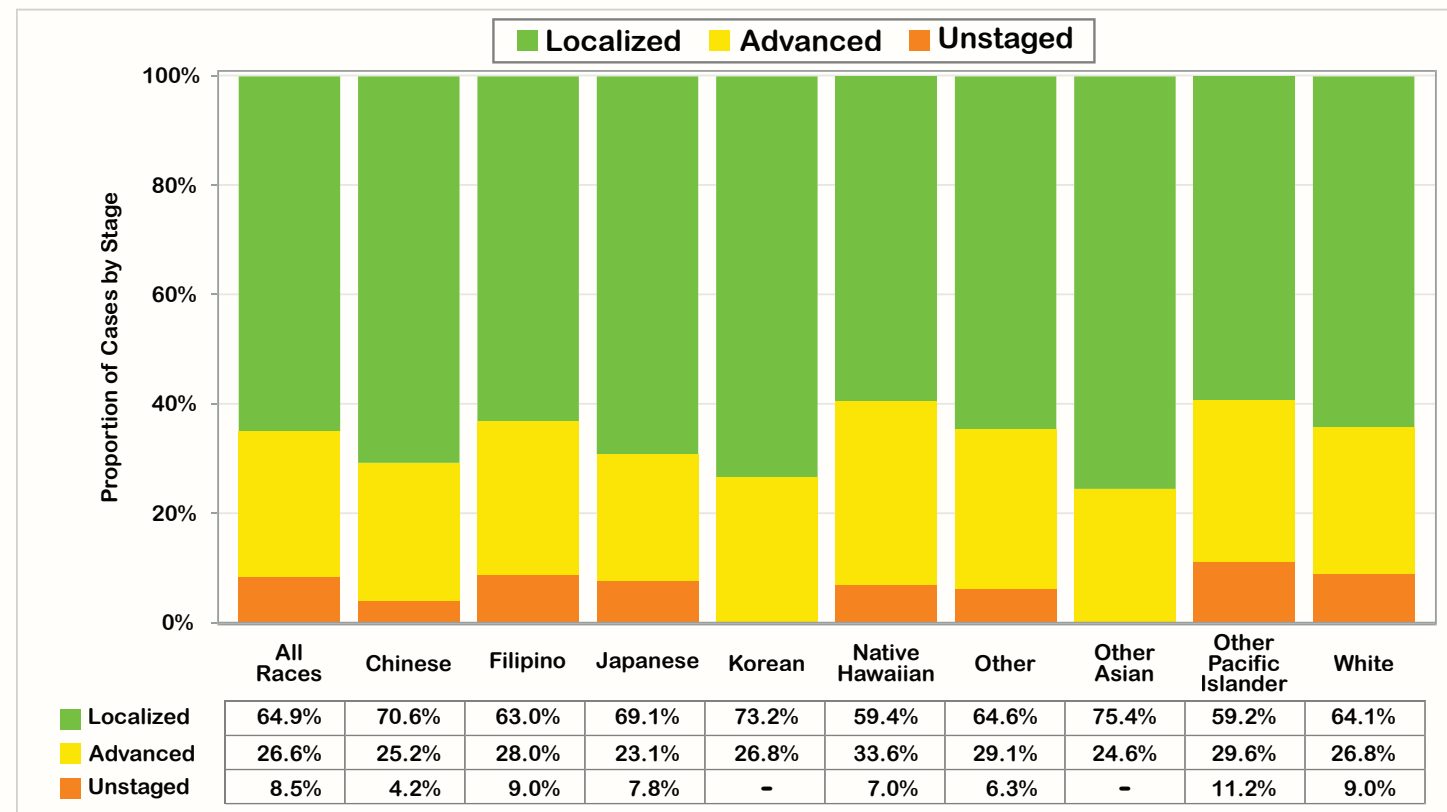


Figure 16. Prostate Cancer Stage Distribution, Hawai'i 2018-2022



## Lung & Bronchus Cancer in Hawai'i

- Cancers of the lung & bronchus are the 2nd most commonly diagnosed malignancy in men and women with an average of 791 new cases (414 males, 377 females) each year in Hawai'i.
- Lung & bronchus cancer is the leading cause of cancer mortality in both sexes with an average of 506 deaths (273 males, 233 females) statewide each year.
- Seventy-eight percent of lung & bronchus cancers are diagnosed at age 65 years and older.
- Among men, the rate of new cancers declined 4.5% per year over the past decade.
- Mortality rates fell 5% among males and 3.1% among females per year over the past decade.
- Hawai'i has among the lowest lung & bronchus cancer incidence and mortality in the U.S. In 2018-2022. Incidence was 42.7 per 100,000 (males) and 34.2 per 100,000 (females) in Hawai'i, compared to 58.2 per 100,000 (males) and 48.2 per 100,000 (females) in the U.S. overall.
- Mortality was 28.6 per 100,000 (males) and 20.2 per 100,000 (females) in Hawai'i, compared to 38.5 per 100,000 (males) and 27.4 per 100,000 (females) in the U.S. overall.
- Lung & bronchus cancer incidence and mortality were highest among Other Pacific Islander males.
- In 2018-2022, 22% of lung cancer cases were diagnosed at early stages, 71% were diagnosed at advanced stages, and 7% were unstaged.



Figure 17. Lung & Bronchus Cancer Incidence and Mortality, Hawai'i 1993-2022



Figure 19. Lung & Bronchus Cancer Incidence and Mortality, by Race/Ethnicity, Hawai'i 2018-2022

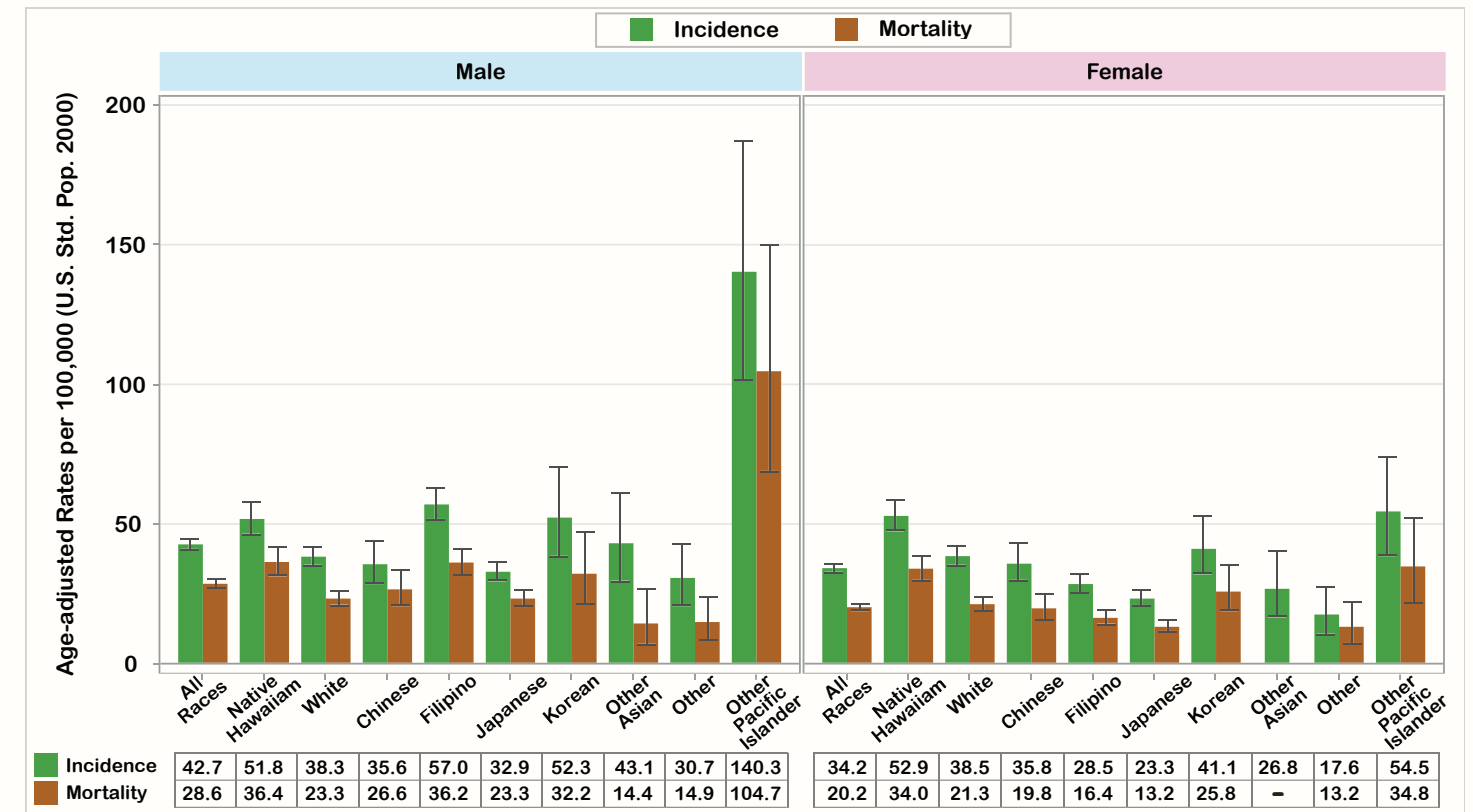


Figure 18. Lung & Bronchus Cancer Cases by Age at Diagnosis, Hawai'i 2018-2022

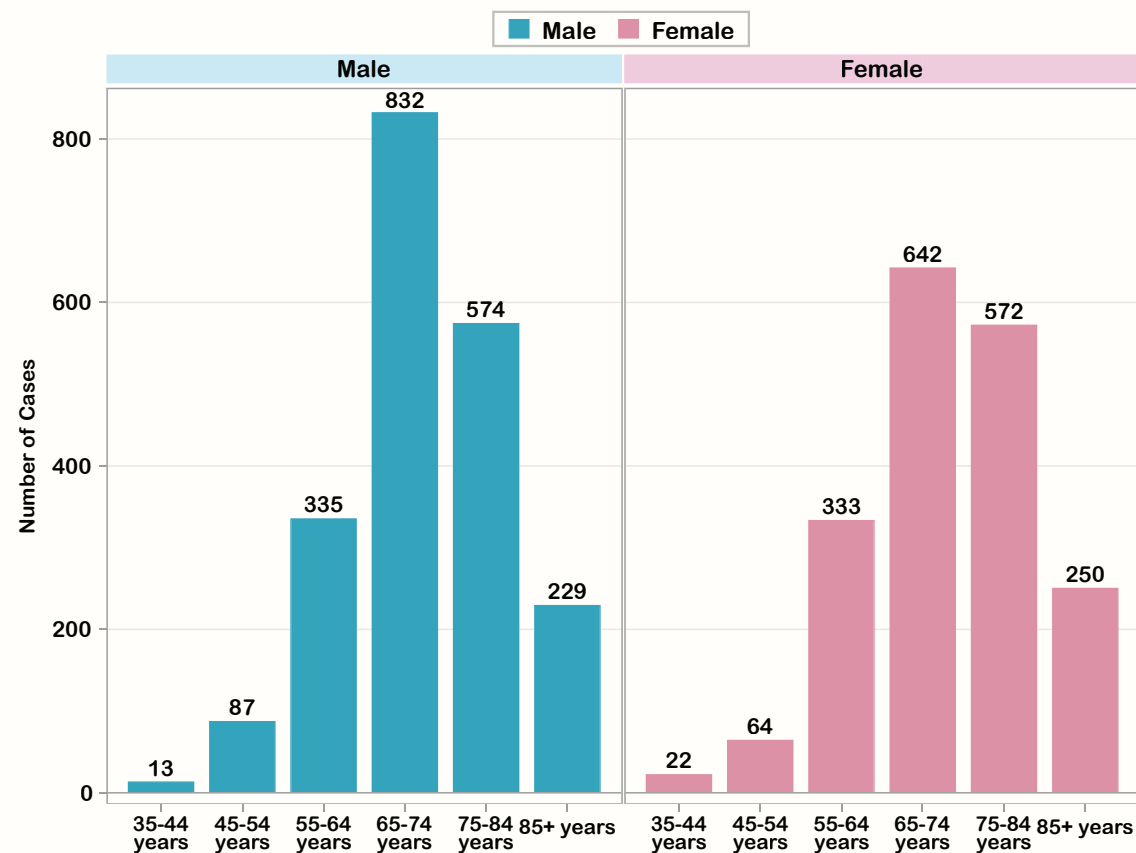
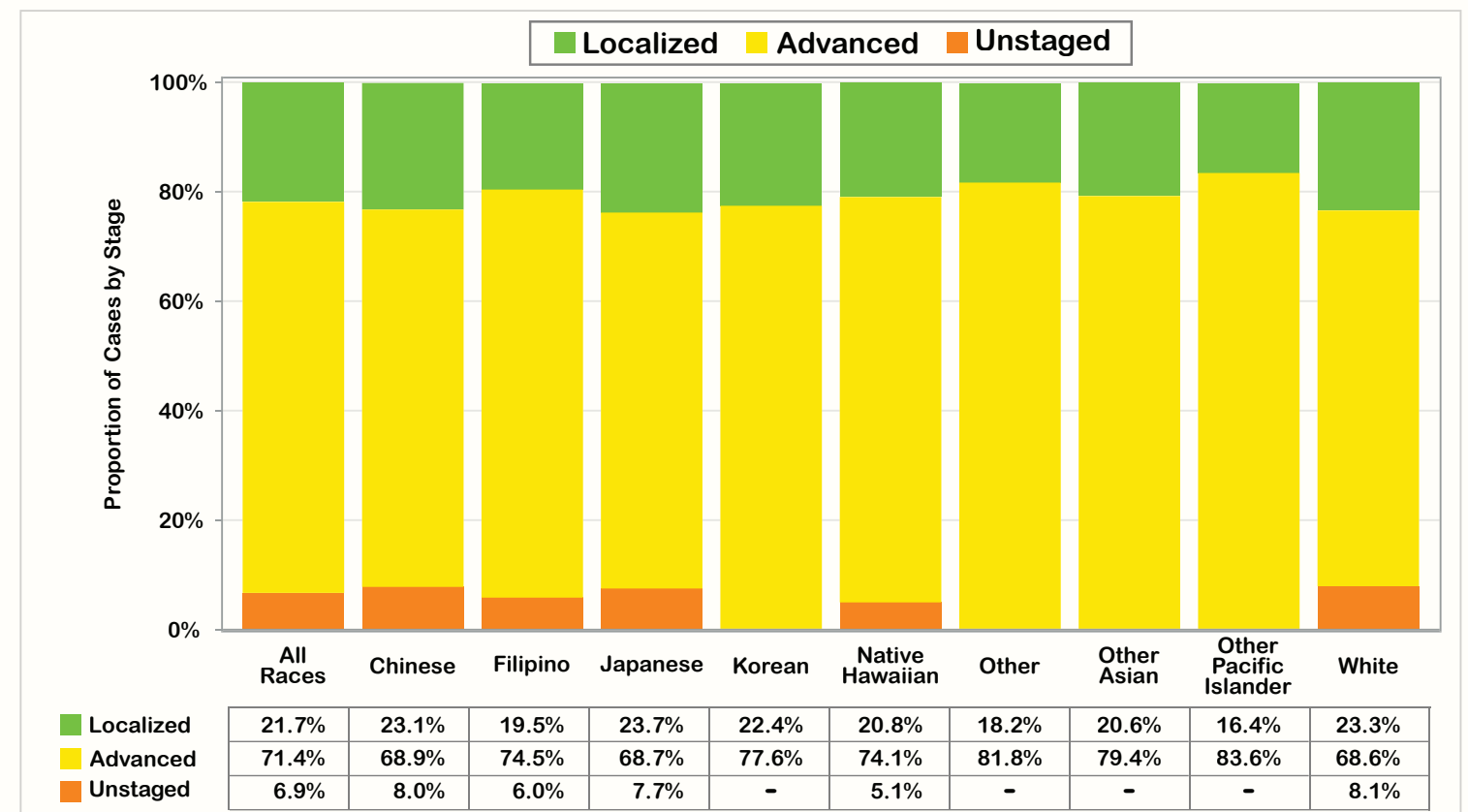


Figure 20. Lung & Bronchus Cancer Stage Distribution, Hawai'i 2018-2022



# Colon & Rectum Cancer in Hawai'i

- Cancers of the colon & rectum are the 3rd most frequently diagnosed cancer among Hawai'i males and 4th most common among females. An average of 714 new cases (399 males, 315 females) are diagnosed each year.
- Colon & rectum cancer is the 3rd leading cause of cancer death in both men and women in Hawai'i with an average of 238 deaths (134 males, 104 females) each year.
- Fifty-four percent of colon & rectum cancers are diagnosed at age 65 years and older.
- Following steady decreases in overall colon & rectum cancer incidence and mortality among both males and females, in 2013-2022, declining trends are now only observed in individuals 50 and older.
- In 2013-2022, among male and females under age 50, the incidence of colon & rectum cancer significantly increased an average of 3.4% per year.
- In 2018-2022, colon & rectum cancer incidence was higher in Hawai'i males (44.5 per 100,000) compared to 41.5 per 100,000 in the U.S. overall. Mortality was lower in Hawai'i females (9.4 per 100,000) compared to females in the U.S. overall (10.7 per 100,000).
- In 2018-2022, 36% of colon & rectum cancers were diagnosed at early stages and 57% at advanced stages.



Figure 21. Colon & Rectum Cancer Incidence and Mortality, Hawai'i 1993-2022

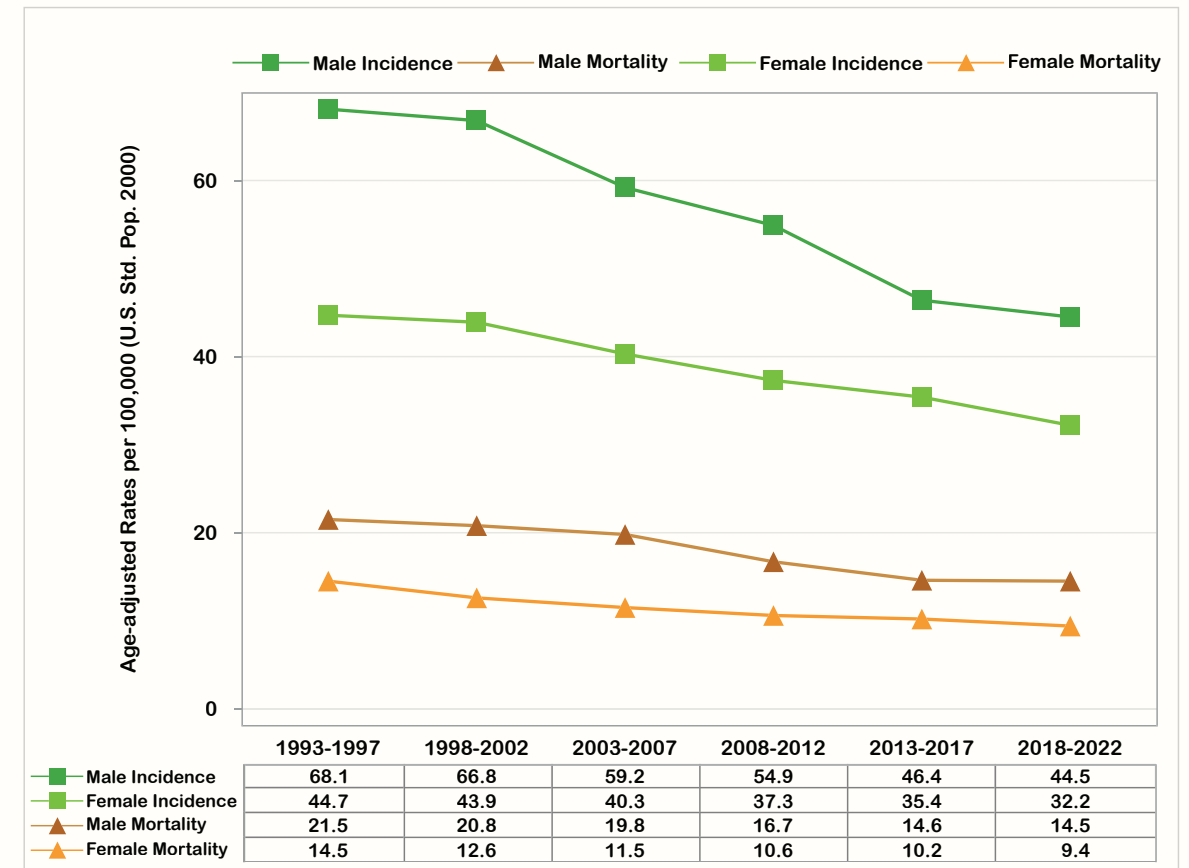
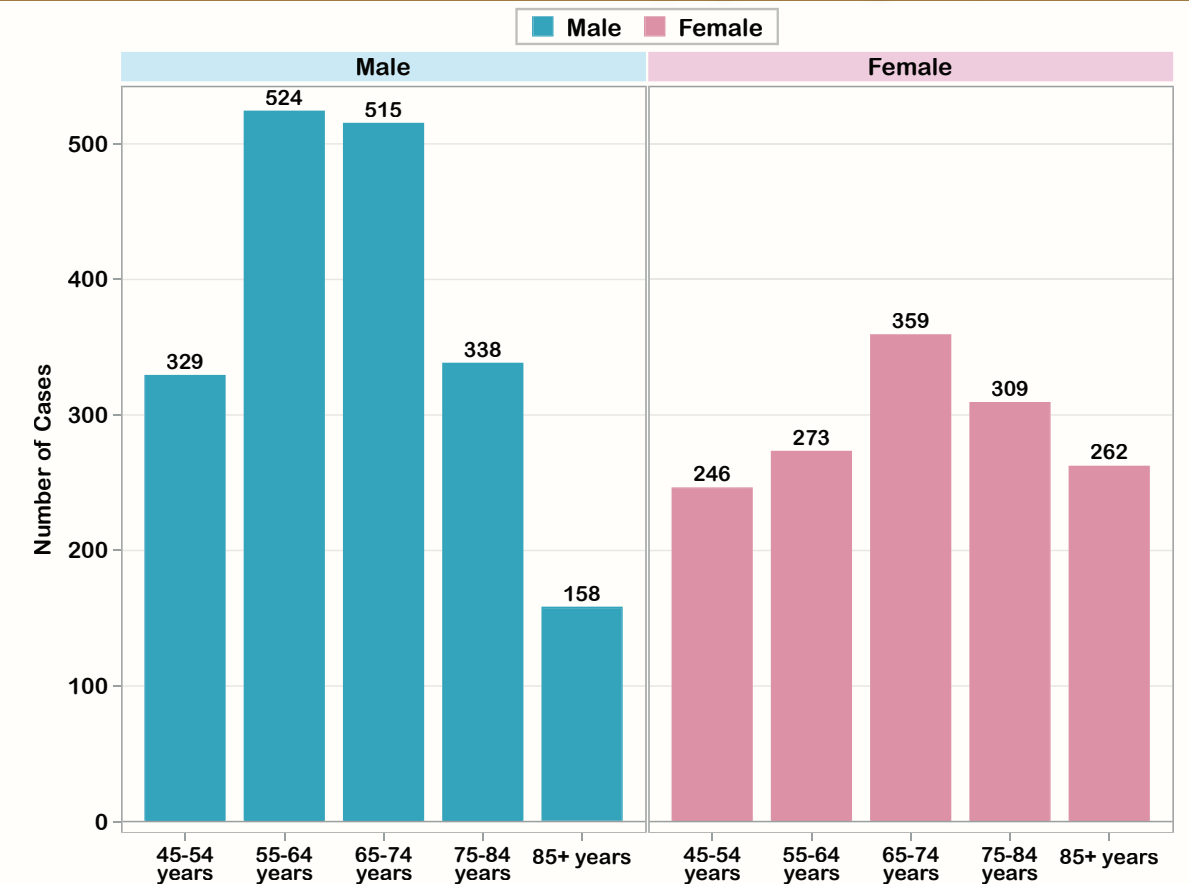


Figure 22. Colon & Rectum Cancer Cases by Age at Diagnosis, Hawai'i 2018-2022



**Figure 23. Colon & Rectum Cancer Incidence and Mortality by Race/Ethnicity, Hawai'i 2018-2022**



## Cancer in Hawai'i's Racial and Ethnic Populations

In 2018-2022, incidence and mortality of certain cancers varied across Hawai'i's racial and ethnic groups. Comparisons were made for Chinese, Filipinos, Japanese, Koreans, Native Hawaiian, Whites, Other Asians, Other Pacific Islanders (including: Samoans, Tongans, CHamoru, Fijians, and people of other areas of Micronesia, Polynesia, and Melanesia), and All Other racial and ethnic groups combined.

- Among males, overall cancer incidence was highest in other Pacific Islanders followed by Whites then Native Hawaiians. Overall cancer mortality was highest in other Pacific Islanders followed by Native Hawaiians and others.
- Among females, overall cancer incidence was highest in other Pacific Islanders followed by both Native Hawaiians and Whites. Overall cancer mortality was highest in other Pacific Islanders and Native Hawaiians.
- Brain & other nervous system cancer incidence was highest in White males compared to all groups, except other Pacific Islanders.
- Breast cancer mortality was highest in Native Hawaiians and Other Pacific Islanders.
- Cervical cancer incidence and mortality was highest among other Pacific Islanders.
- Liver & intrahepatic bile duct cancer incidence and mortality were highest among other Pacific Islander males.
- Lung & bronchus cancer incidence and mortality were highest among other Pacific Islander males.
- Melanoma of the skin incidence was highest in White males and females.
- Oral cavity & oropharynx cancer incidence was highest among other Pacific Islander males.
- Stomach cancer incidence was highest among Korean and other Pacific Islander males.
- Prostate cancer mortality was highest in Other Pacific Islanders.
- Thyroid cancer incidence was highest among Filipino women compared to all groups except other Asians and other Pacific Islanders.
- Uterine/endometrium cancer incidence and mortality was highest in other Pacific Islanders.

**Figure 24. Colon & Rectum Cancer Stage Distribution, Hawai'i 2018-2022**

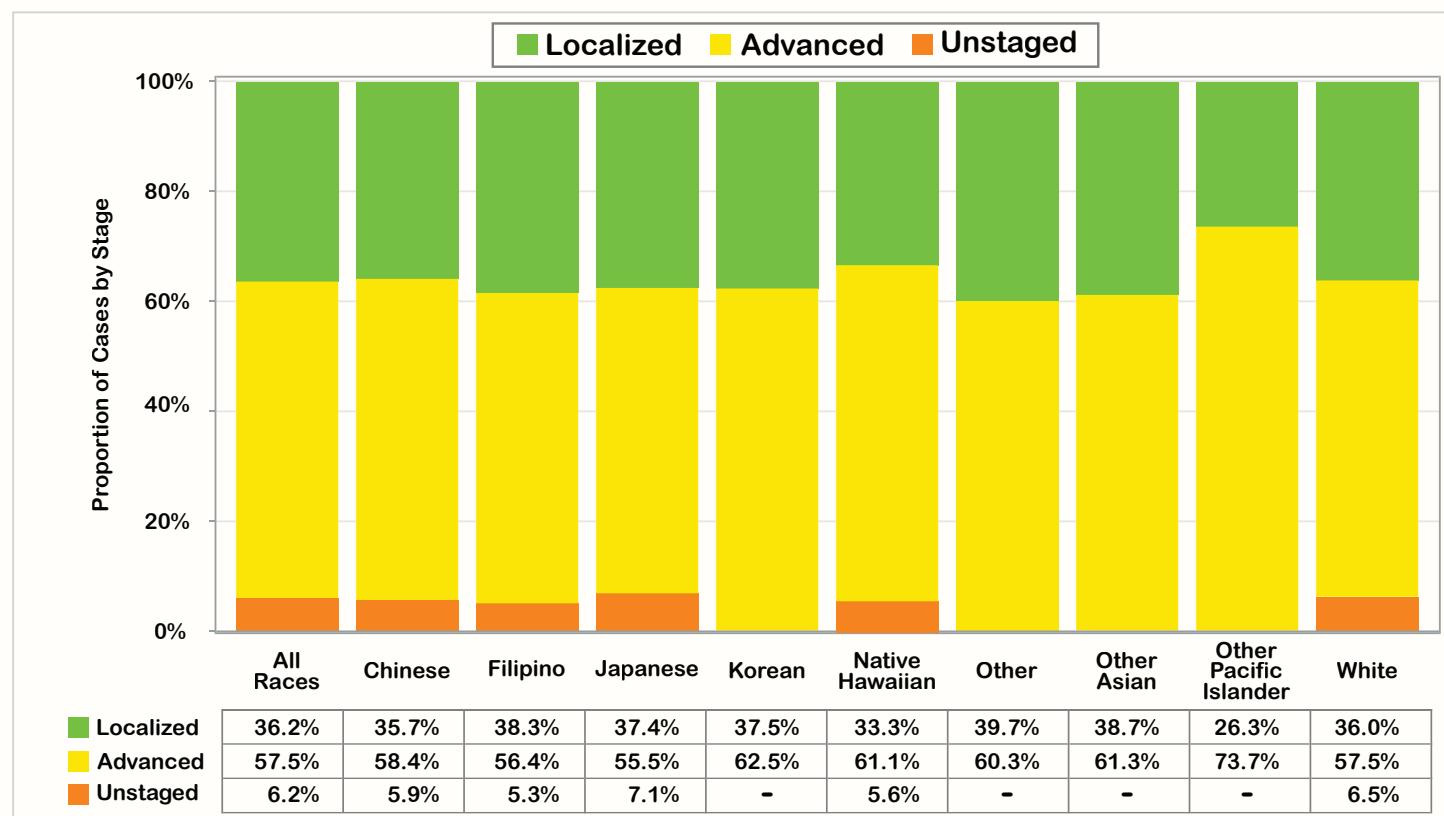


Figure 25. Overall Cancer Incidence and Mortality, By Sex and Race/Ethnicity, Hawai'i 2018-2022

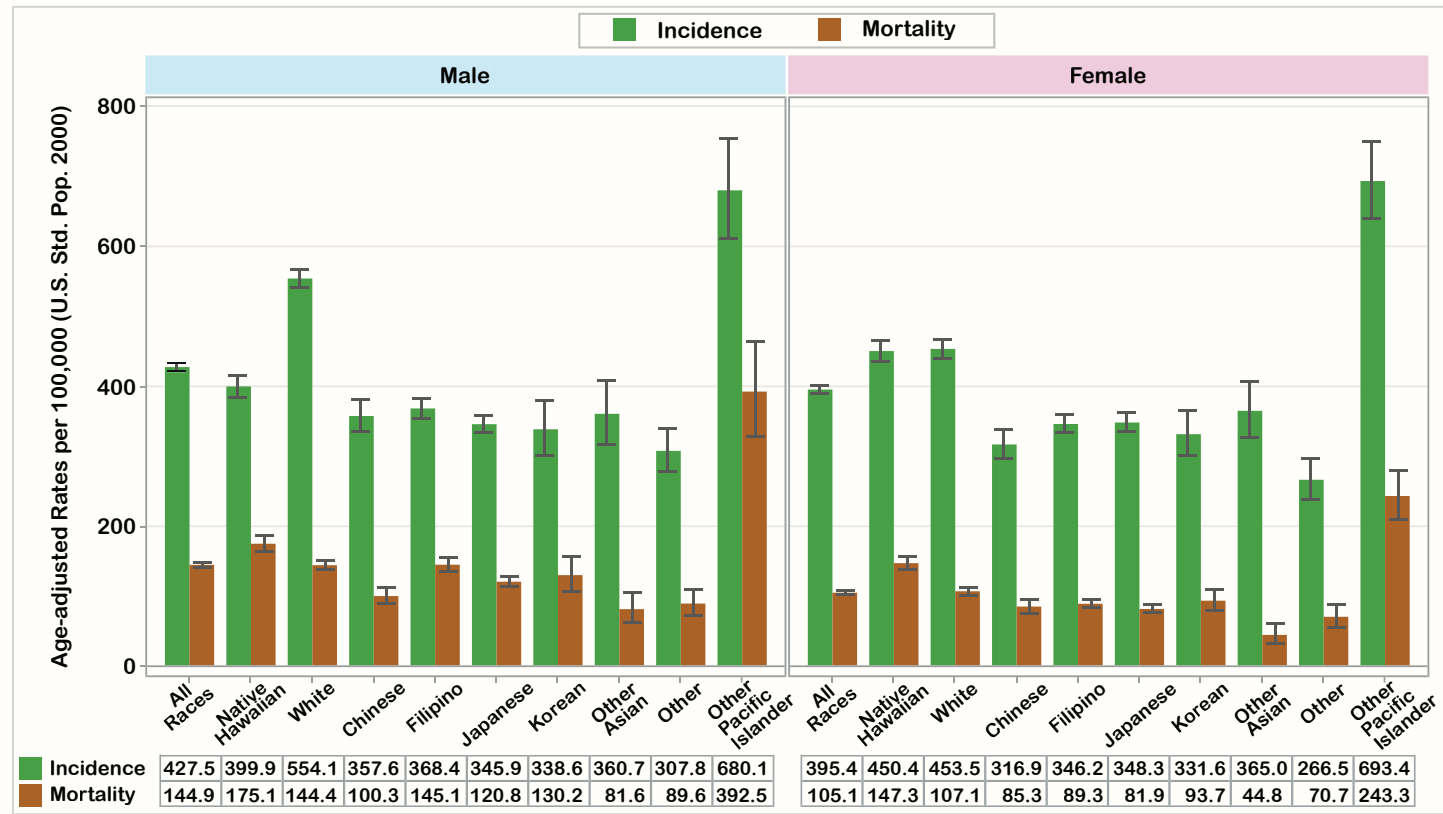


Figure 27. Brain & Other Nervous System Cancer Incidence and Mortality, By Sex and Race/Ethnicity, Hawai'i 2018-2022

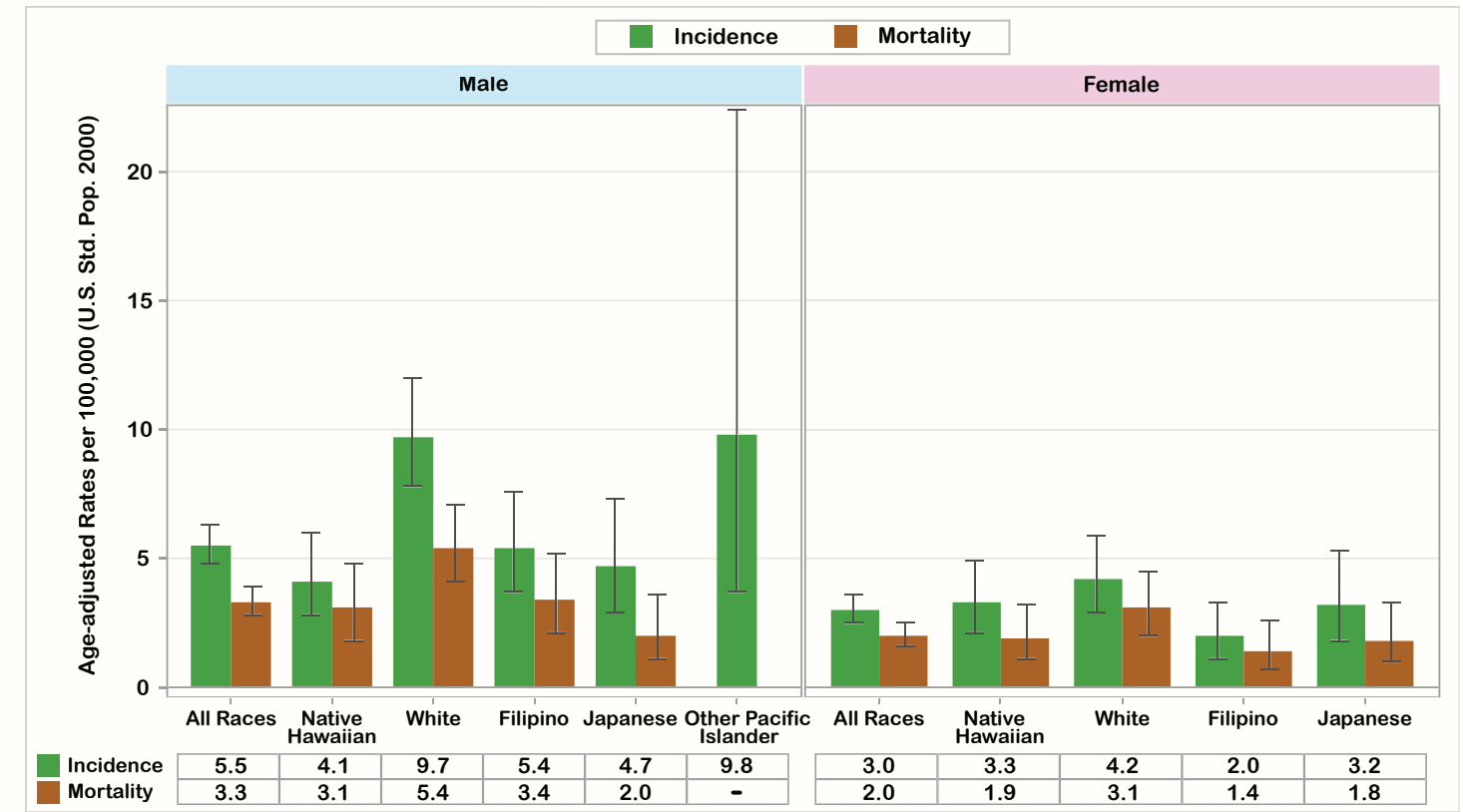


Figure 26. Bladder Cancer Incidence and Mortality, By Sex and Race/Ethnicity, Hawai'i 2018-2022

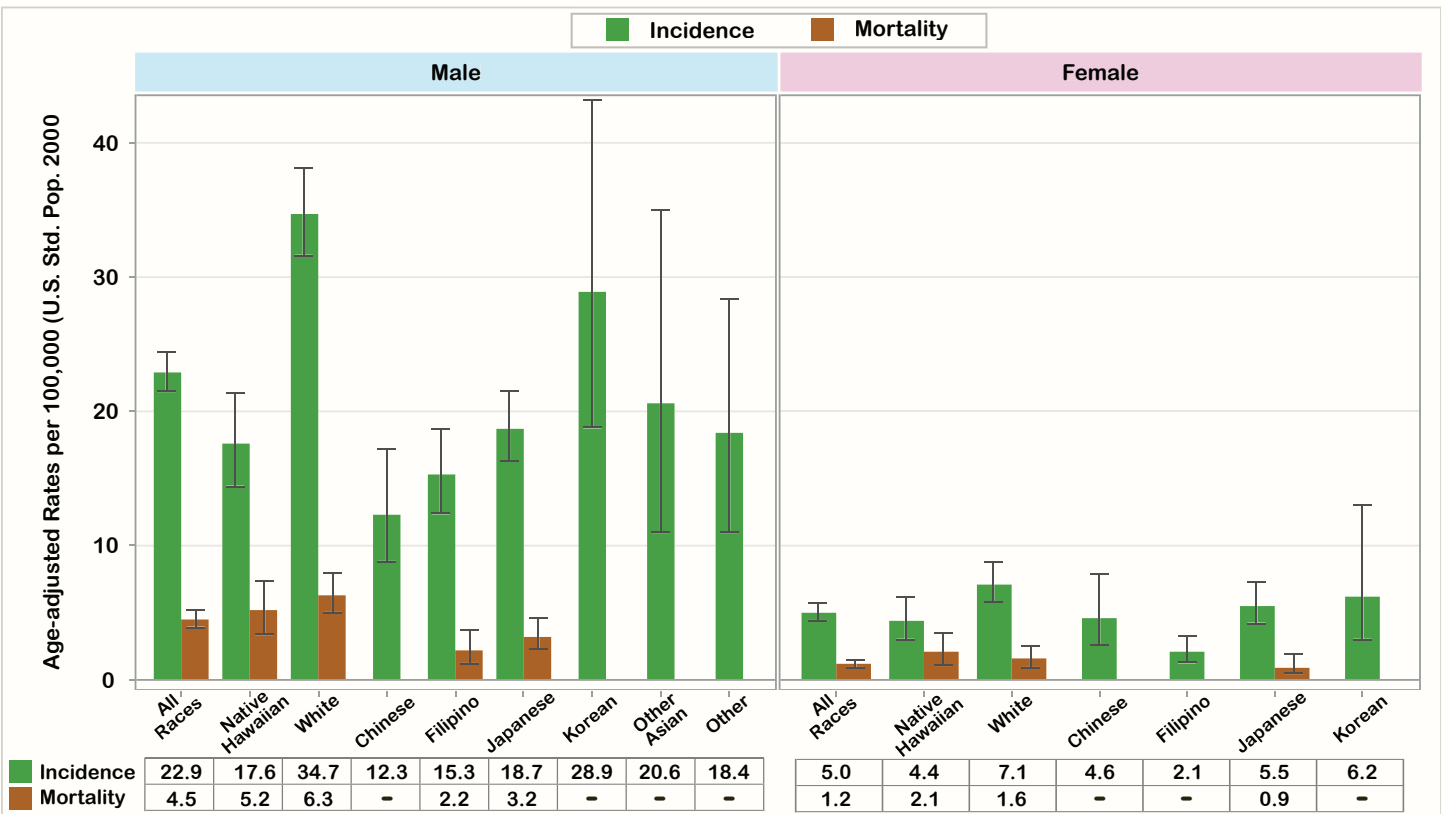


Figure 28. Cervix Cancer Incidence and Mortality, By Race/Ethnicity, Hawai'i 2018-2022

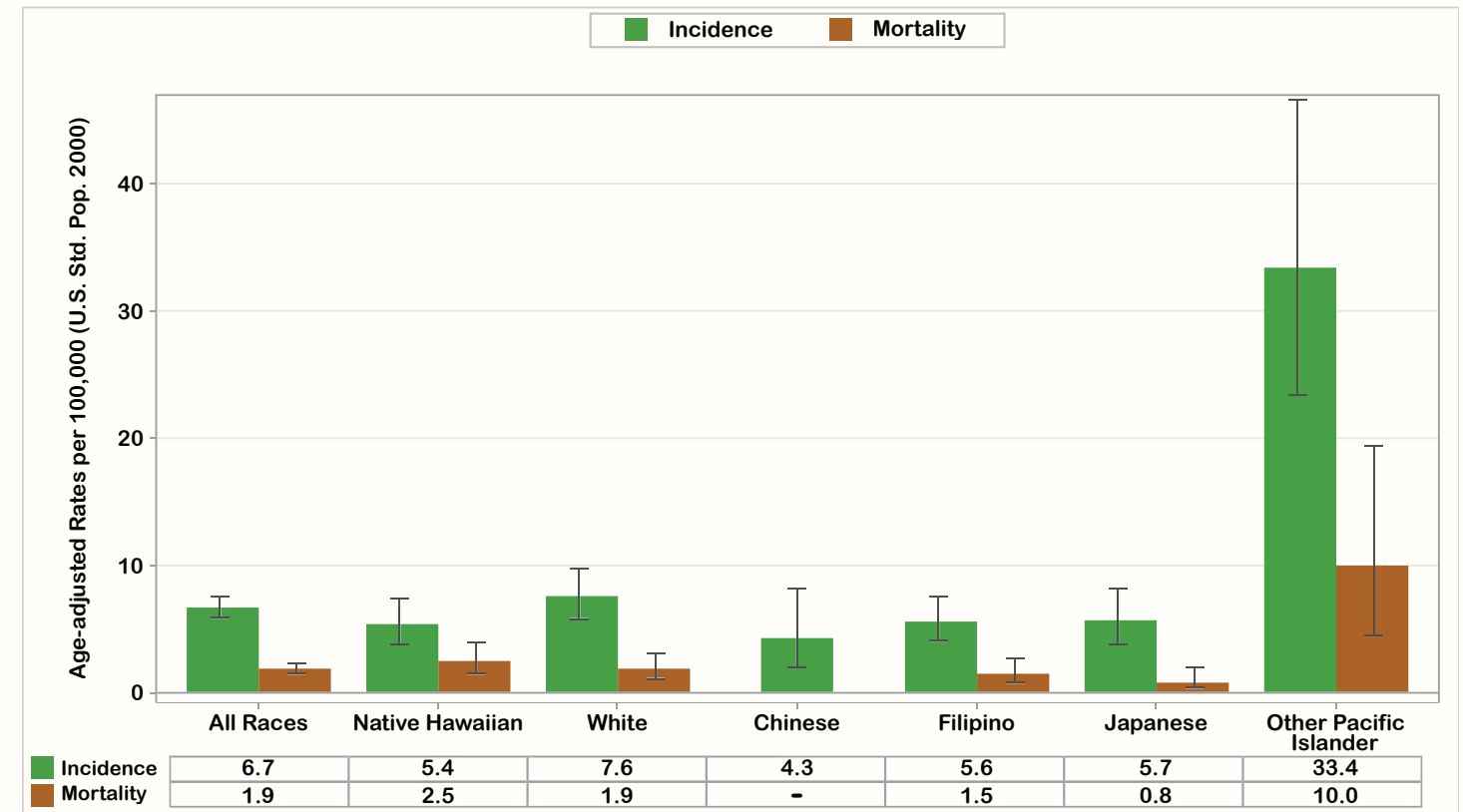


Figure 29. Esophagus Cancer Incidence and Mortality, By Sex and Race/Ethnicity, Hawai'i 2018-2022

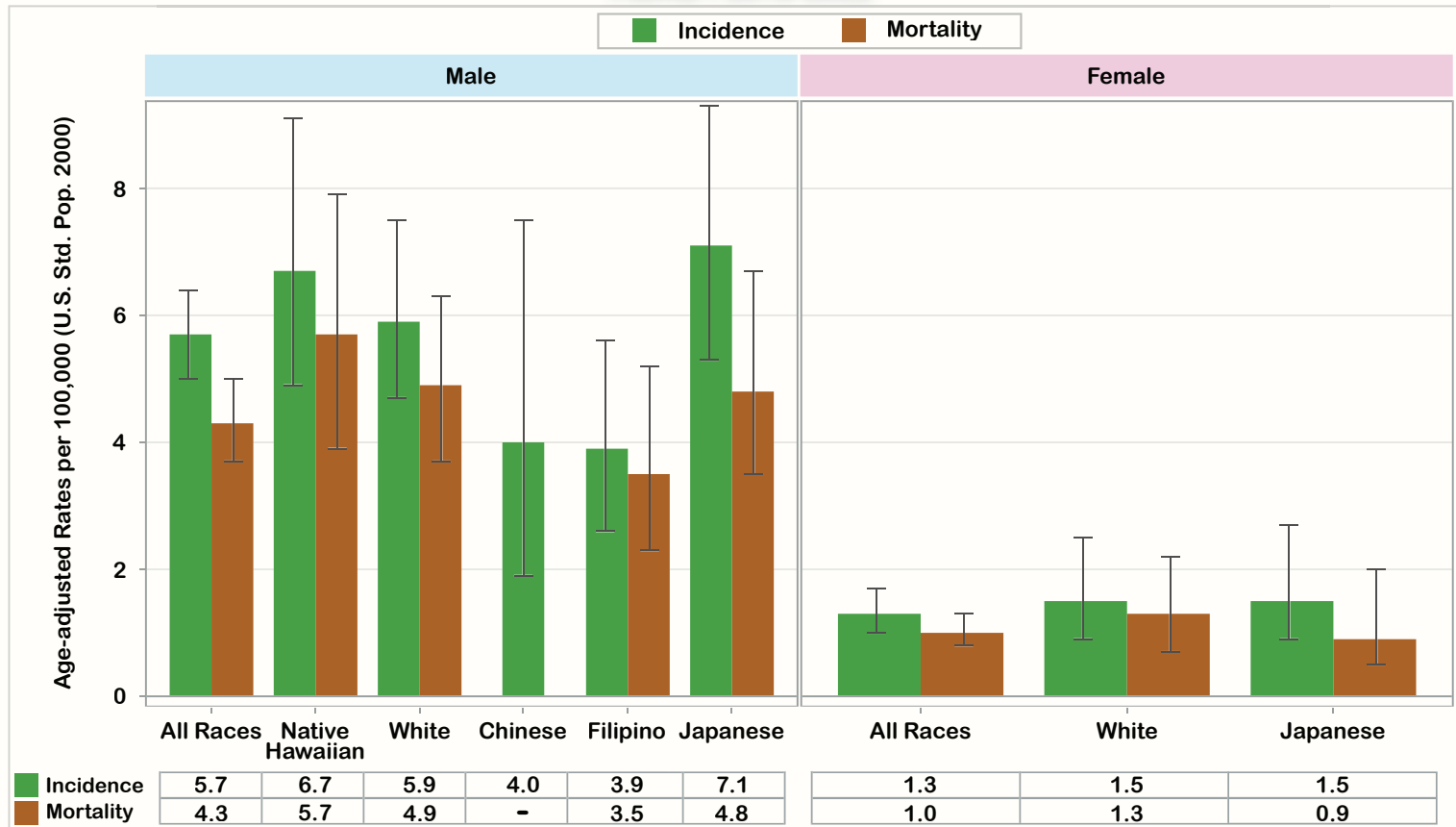


Figure 31. Larynx Cancer Incidence, Male, By Race/Ethnicity, Hawai'i 2018-2022

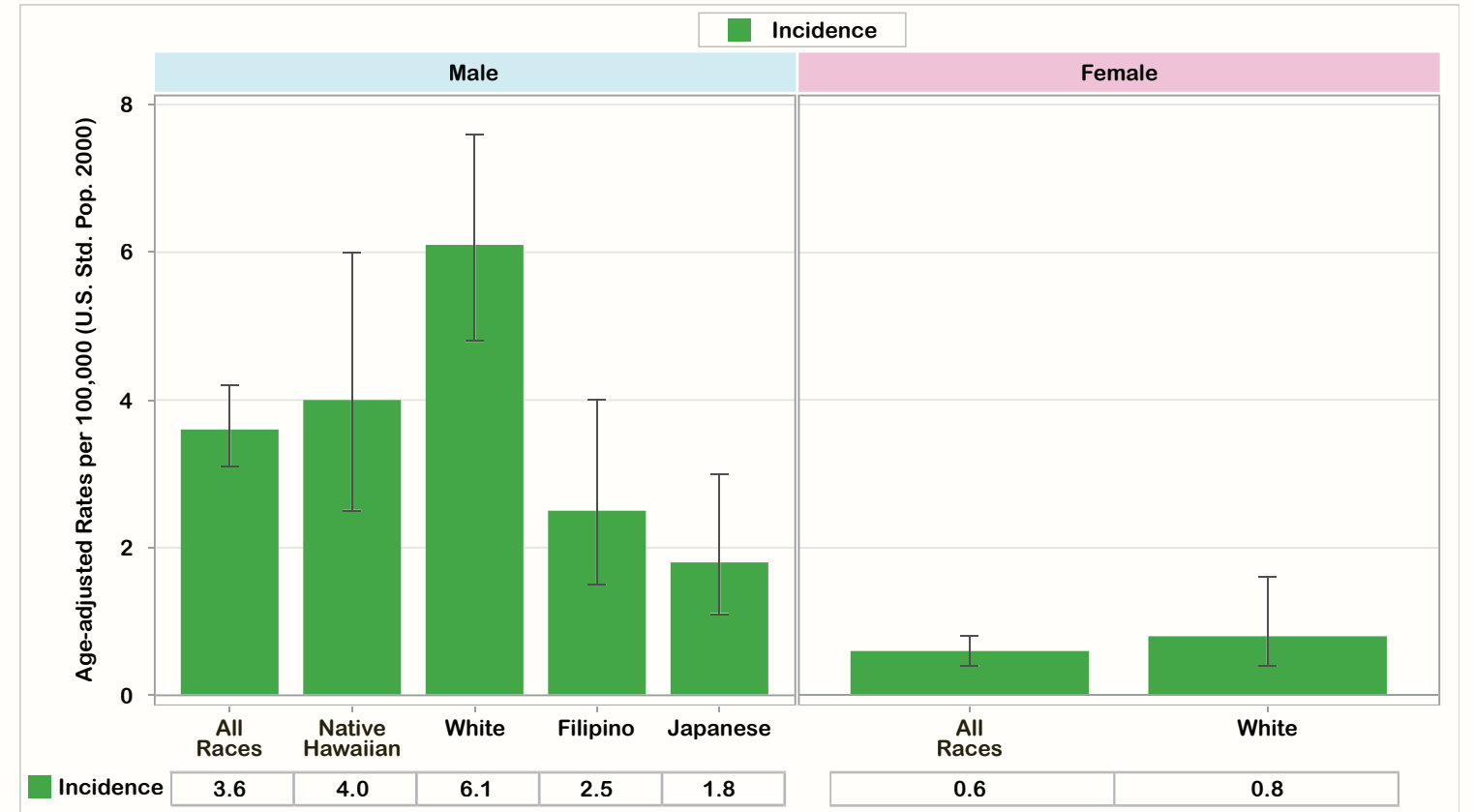


Figure 30. Kidney & Renal Pelvis Cancer Incidence and Mortality, By Sex and Race/Ethnicity, Hawai'i 2018-2022

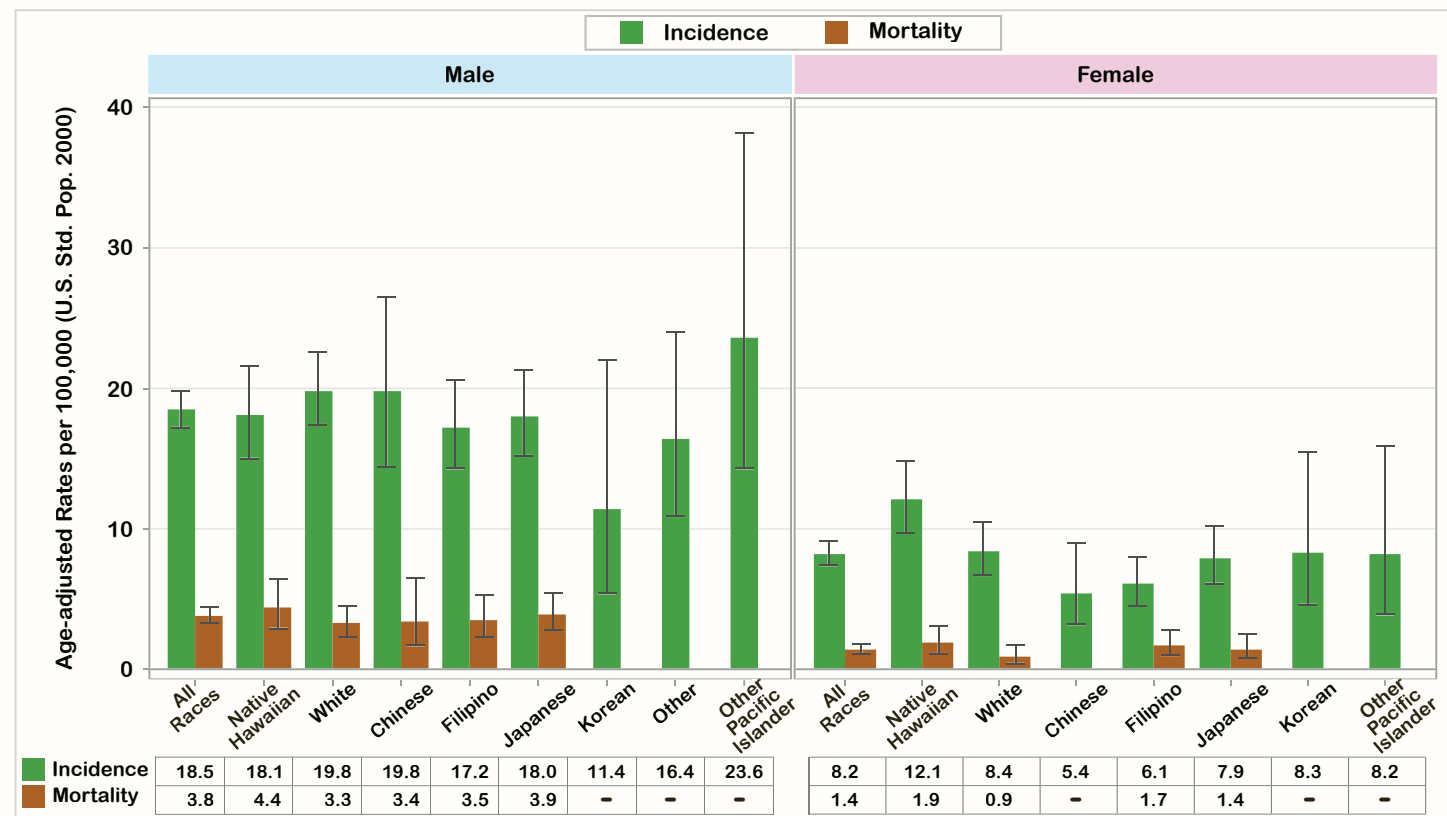


Figure 32. Leukemia Incidence and Mortality, By Sex and Race/Ethnicity, Hawai'i 2018-2022



Figure 34. Melanoma of the Skin Incidence and Mortality, By Sex and Race/Ethnicity, Hawai'i 2018-2022

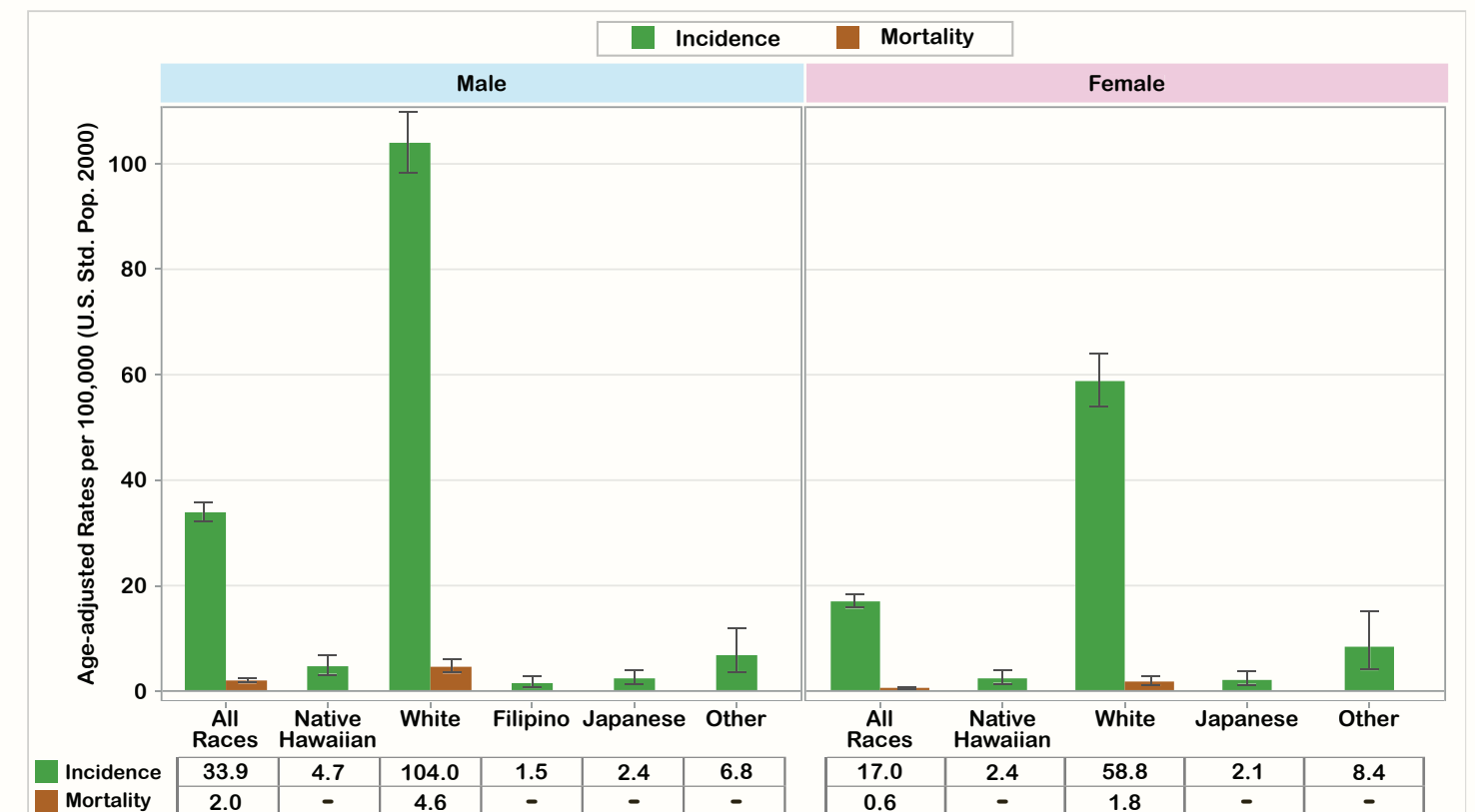


Figure 33. Liver & Intrahepatic Bile Duct Cancer Incidence and Mortality, By Sex and Race/Ethnicity, Hawai'i 2018-2022

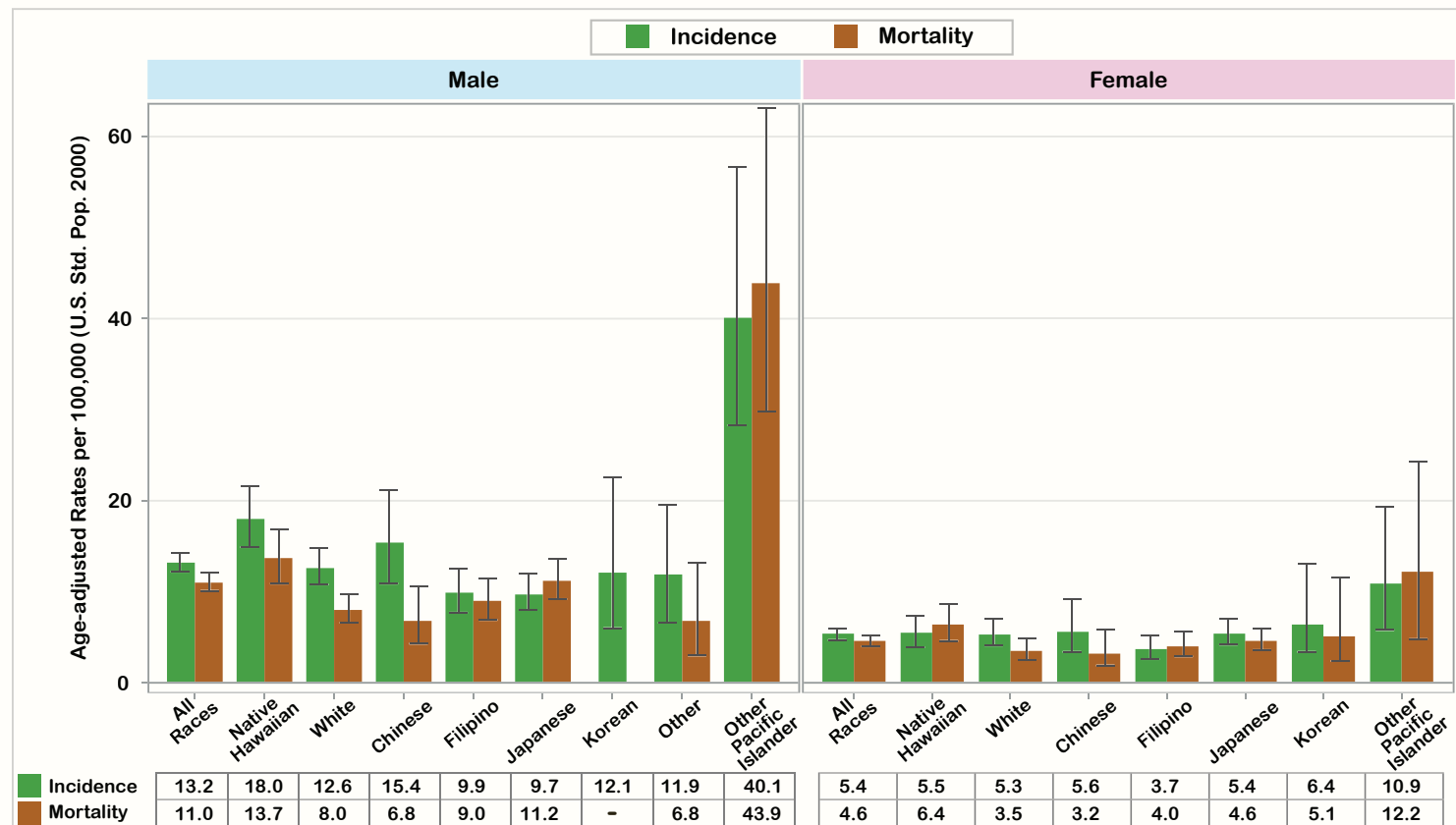


Figure 35. Myeloma Incidence and Mortality, By Sex and Race/Ethnicity, Hawai'i 2018-2022

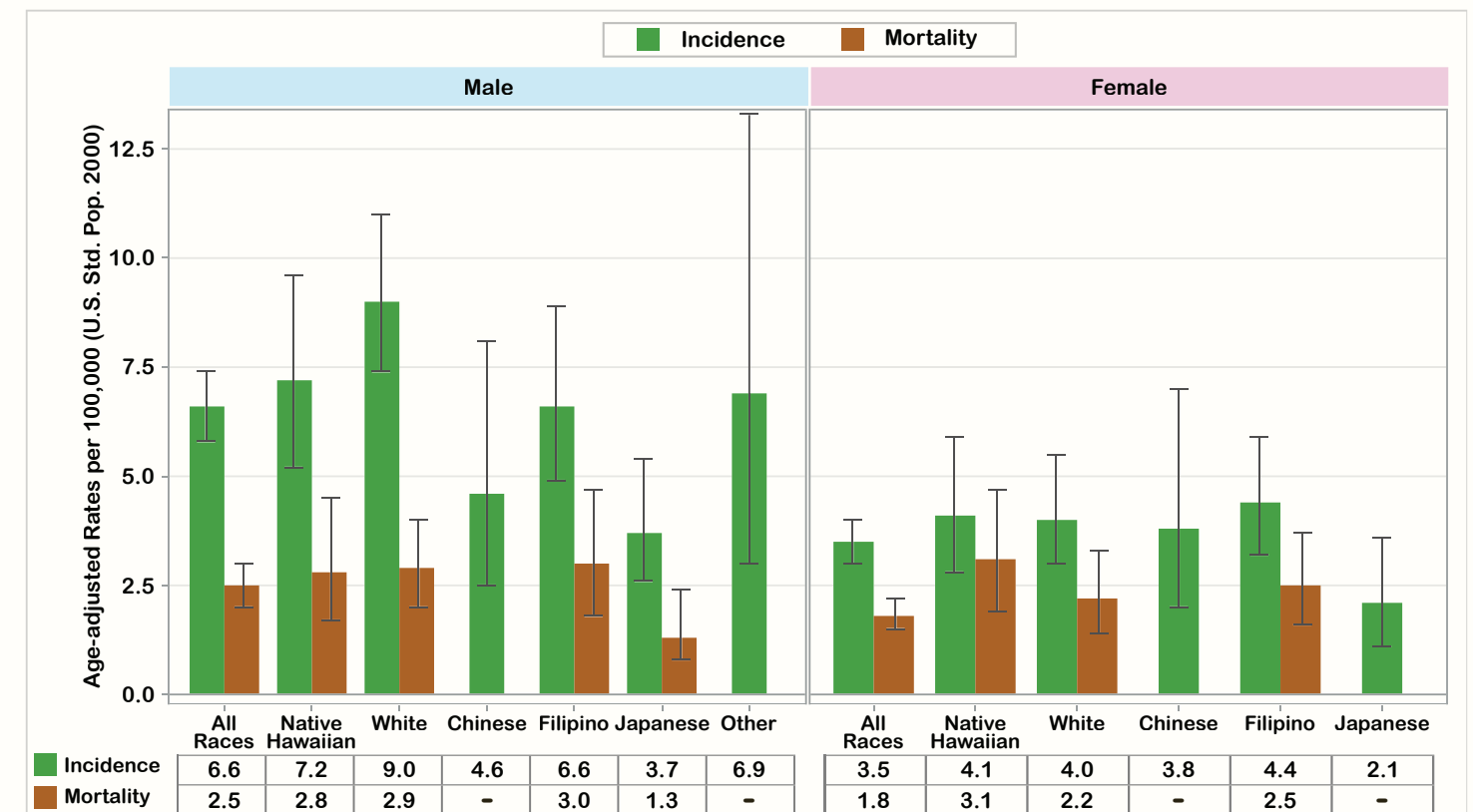


Figure 36. Non-Hodgkin Lymphoma Incidence and Mortality, By Sex and Race/Ethnicity, Hawai'i 2018-2022

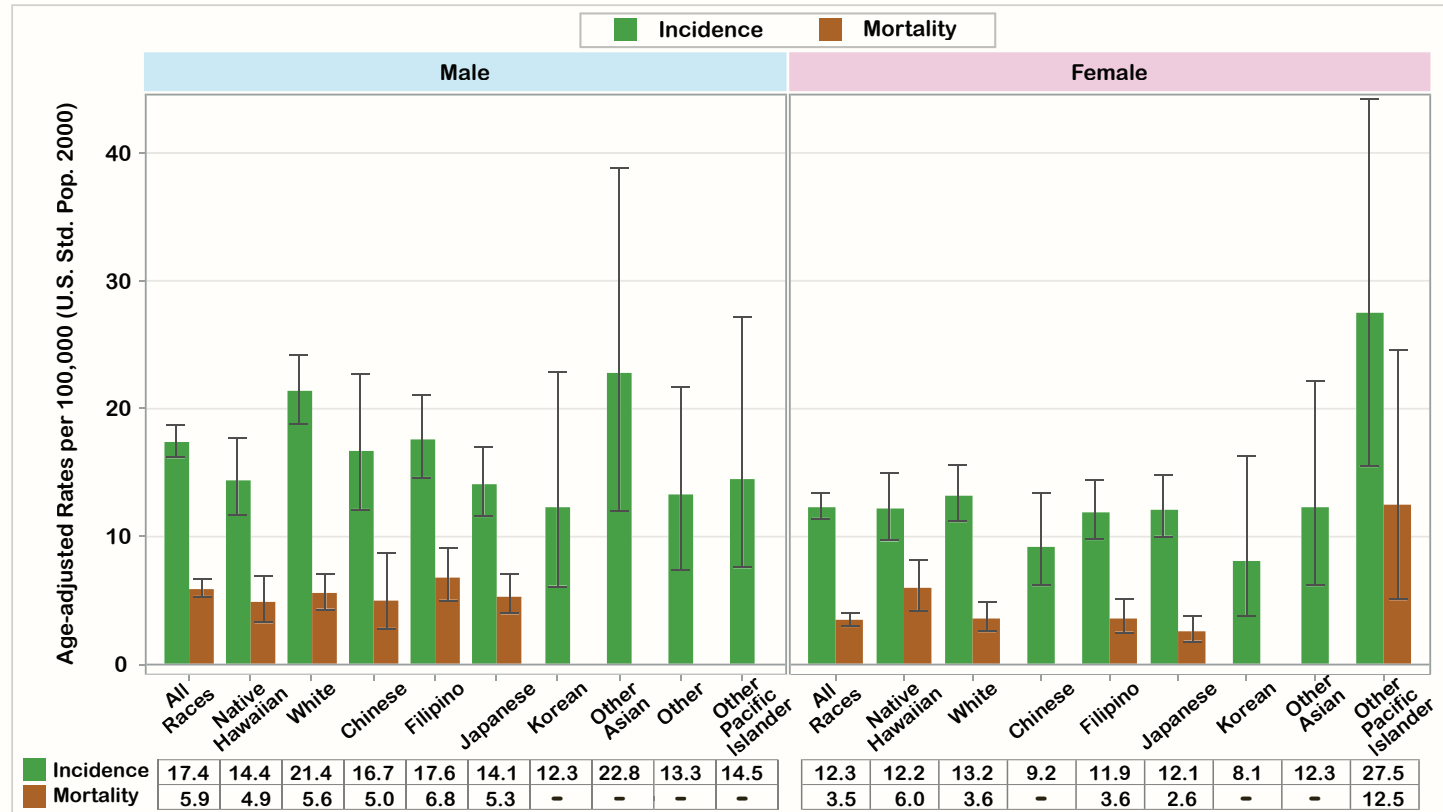


Figure 38. Ovary Cancer Incidence and Mortality, By Race/Ethnicity, Hawai'i 2018-2022

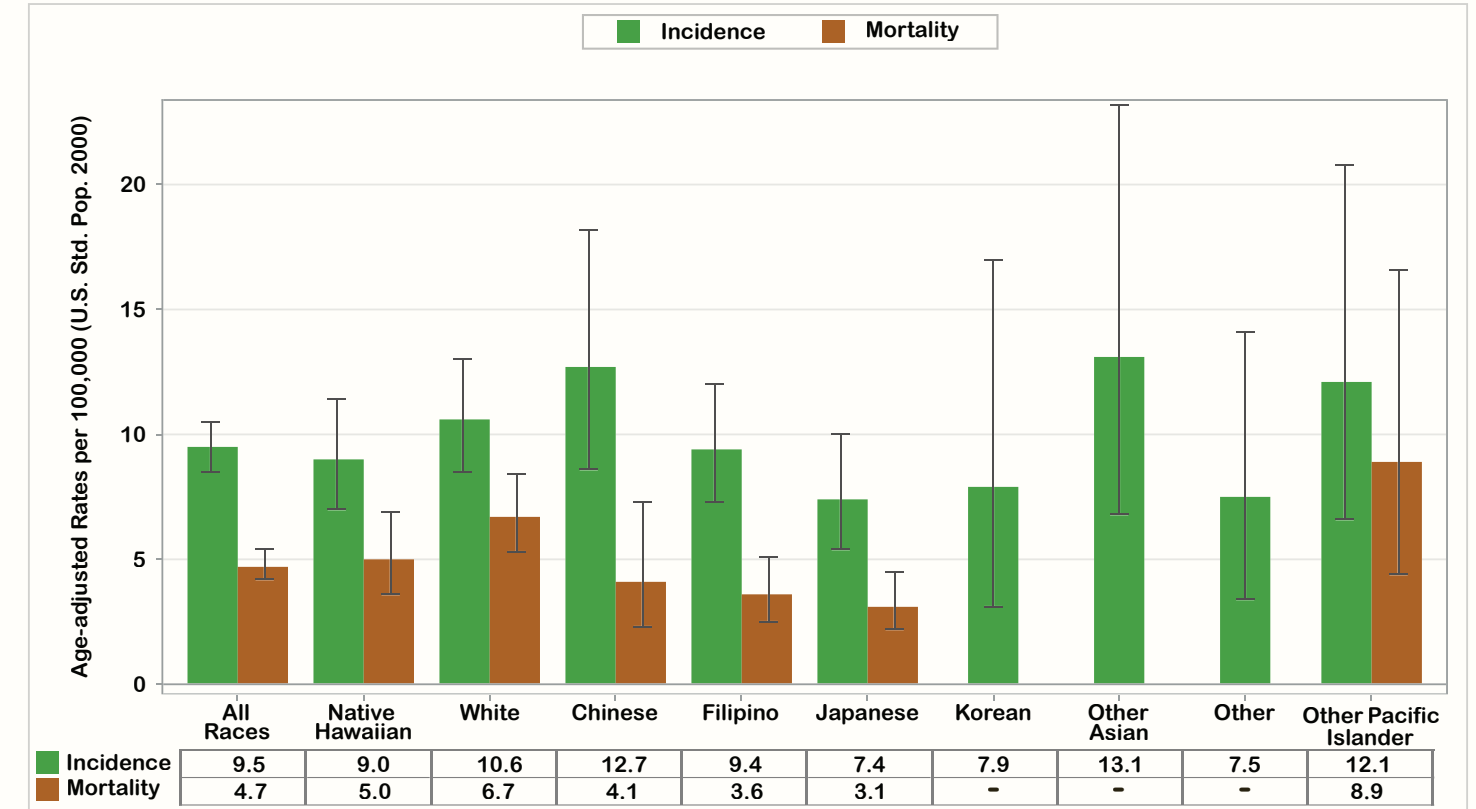


Figure 37. Oral Cavity & Pharynx Cancer Incidence and Mortality, By Sex and Race/Ethnicity, Hawai'i 2018-2022

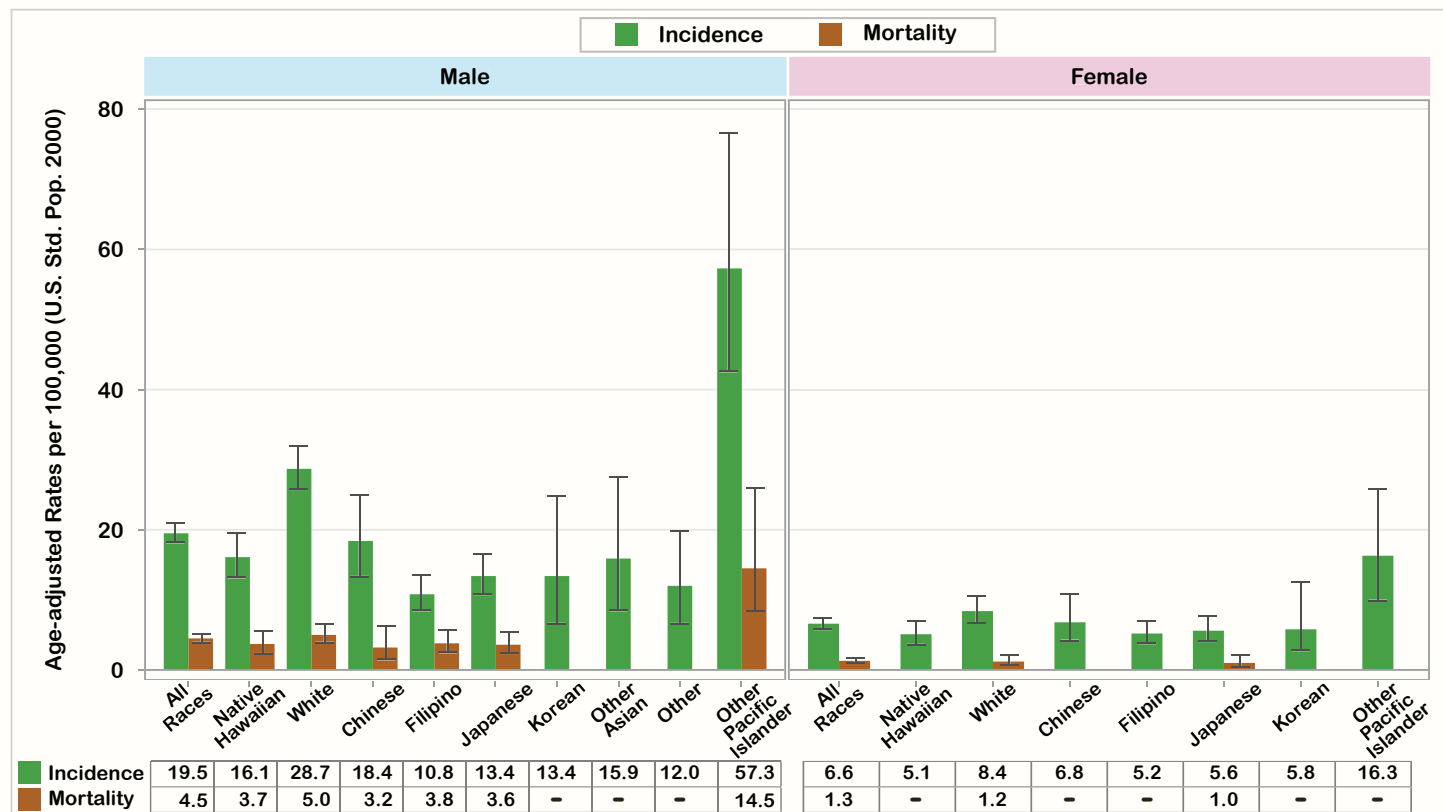


Figure 39. Pancreas Cancer Incidence and Mortality, By Sex and Race/Ethnicity, Hawai'i 2018-2022

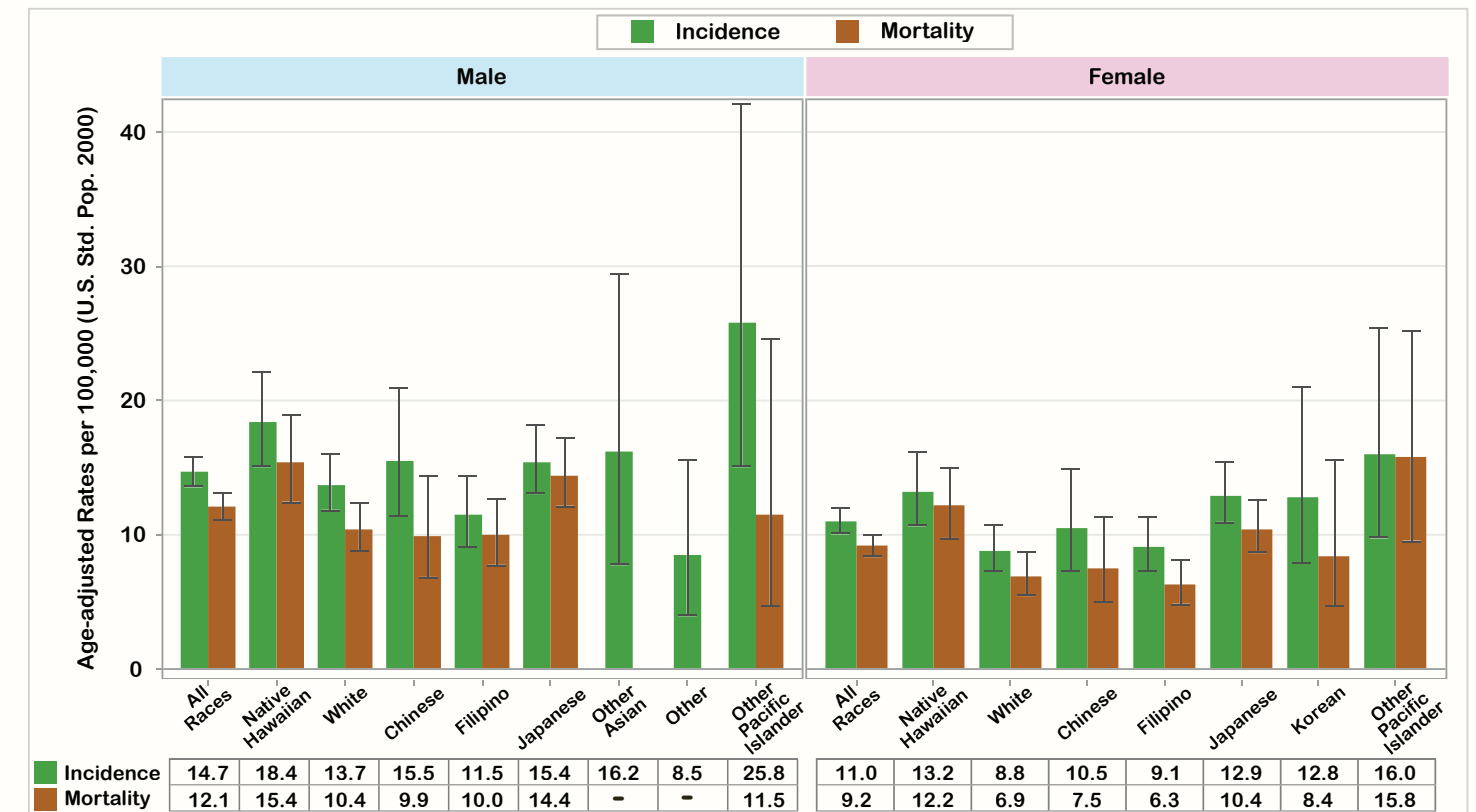


Figure 40. Soft Tissue Cancer Incidence and Mortality, By Sex and Race/Ethnicity, Hawai'i 2018-2022

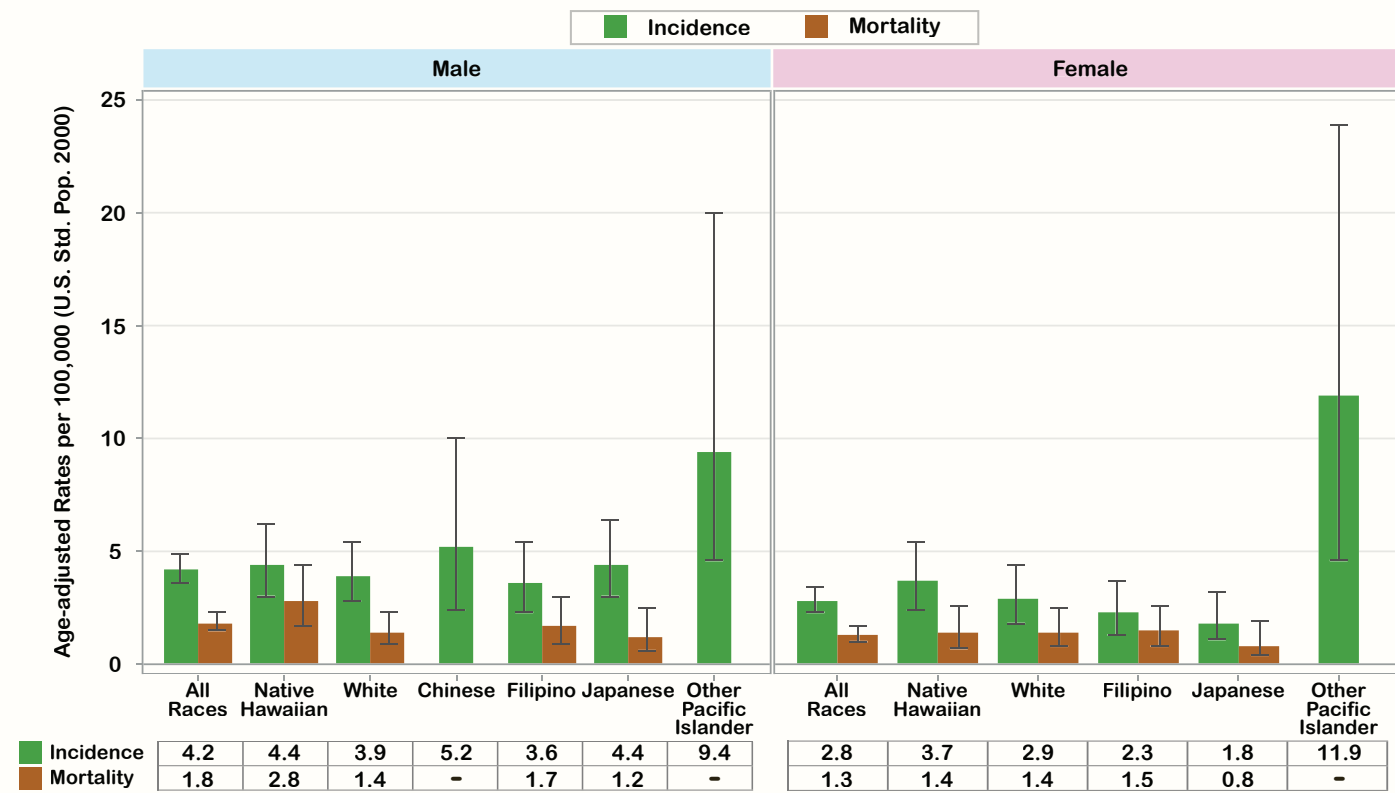


Figure 42. Thyroid Cancer Incidence, By Sex and Race/Ethnicity, Hawai'i 2018-2022

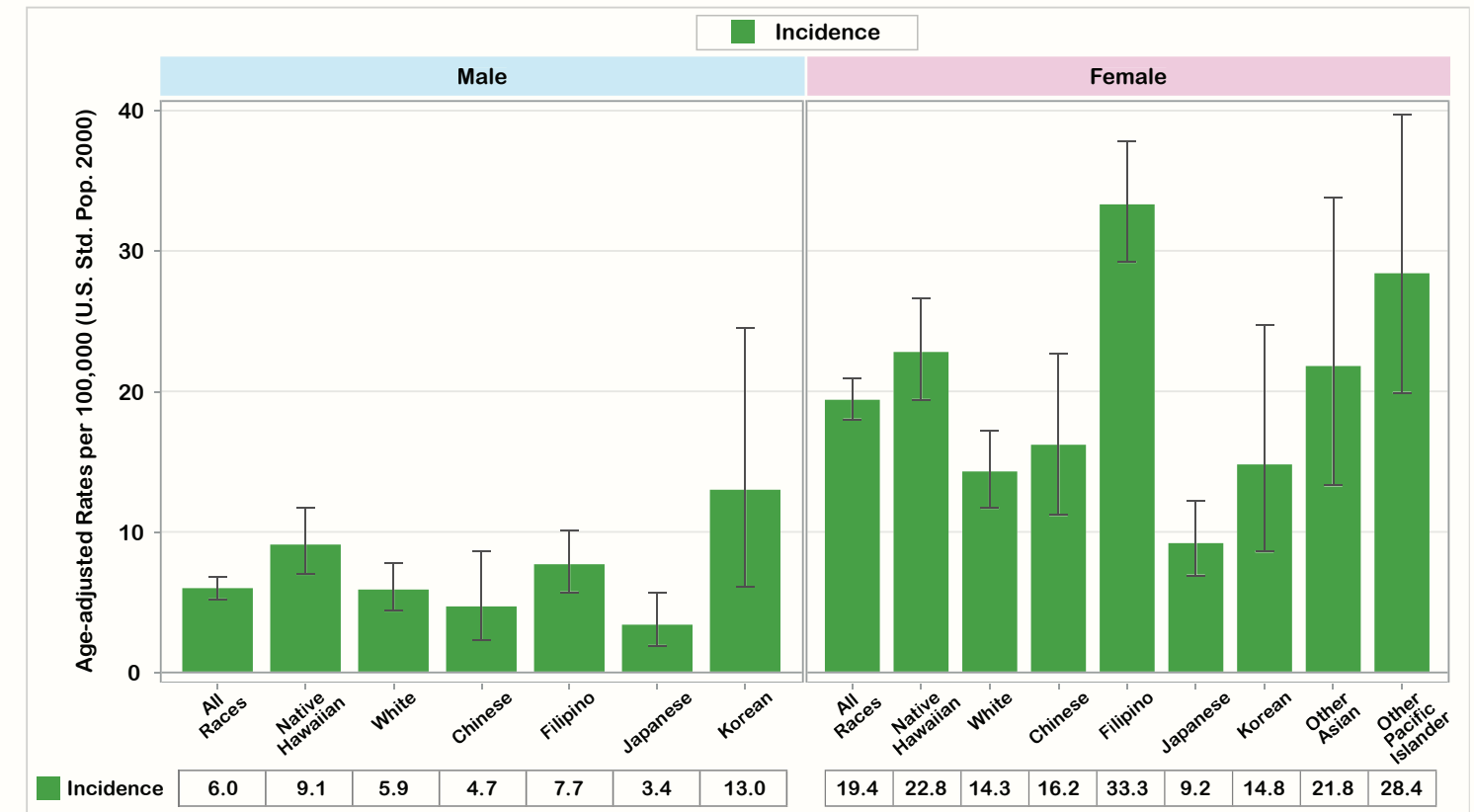


Figure 41. Stomach Cancer Incidence and Mortality, By Sex and Race/Ethnicity, Hawai'i 2018-2022

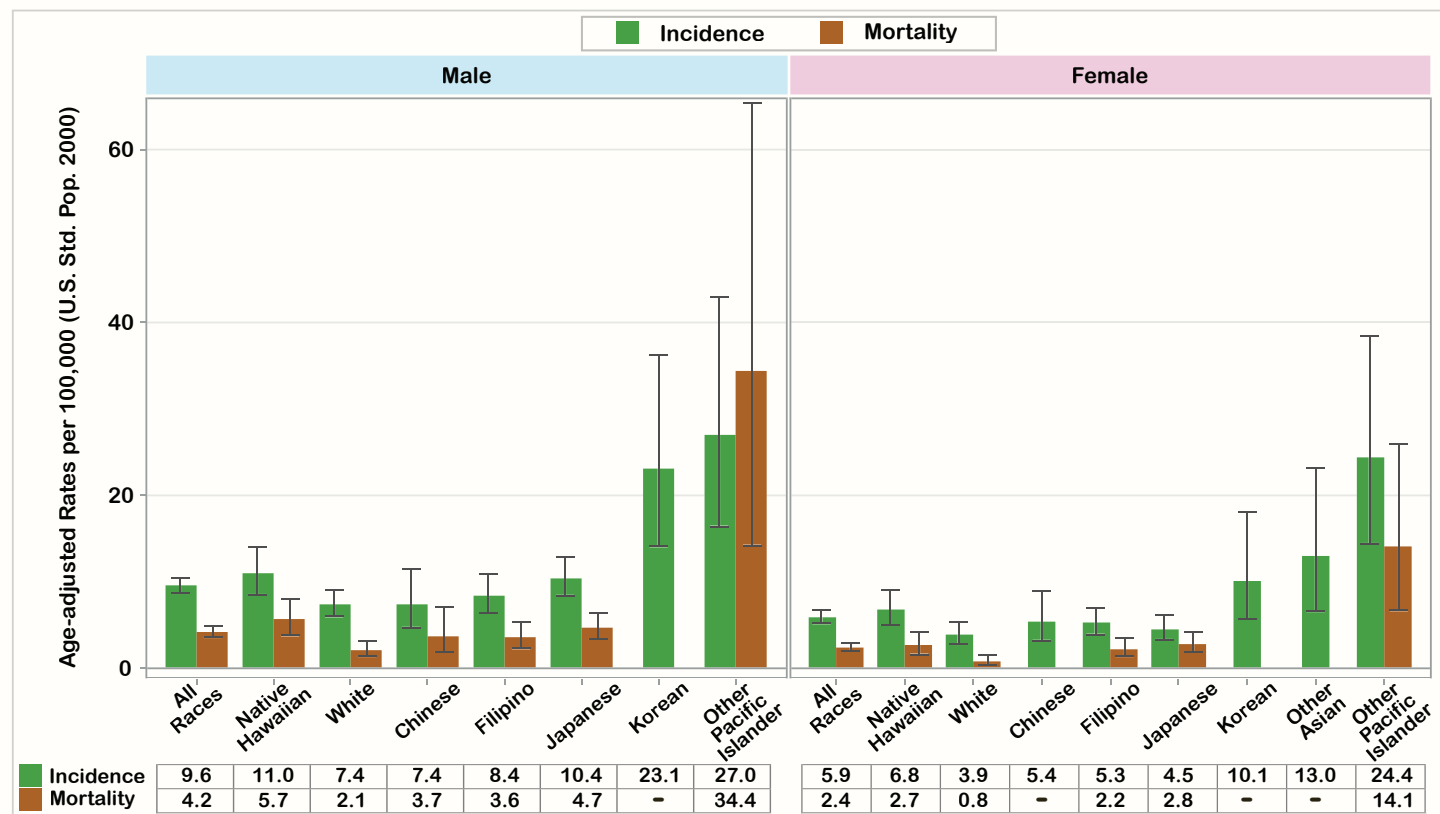


Figure 43. Testis Cancer Incidence, By Race/Ethnicity, Hawai'i 2018-2022

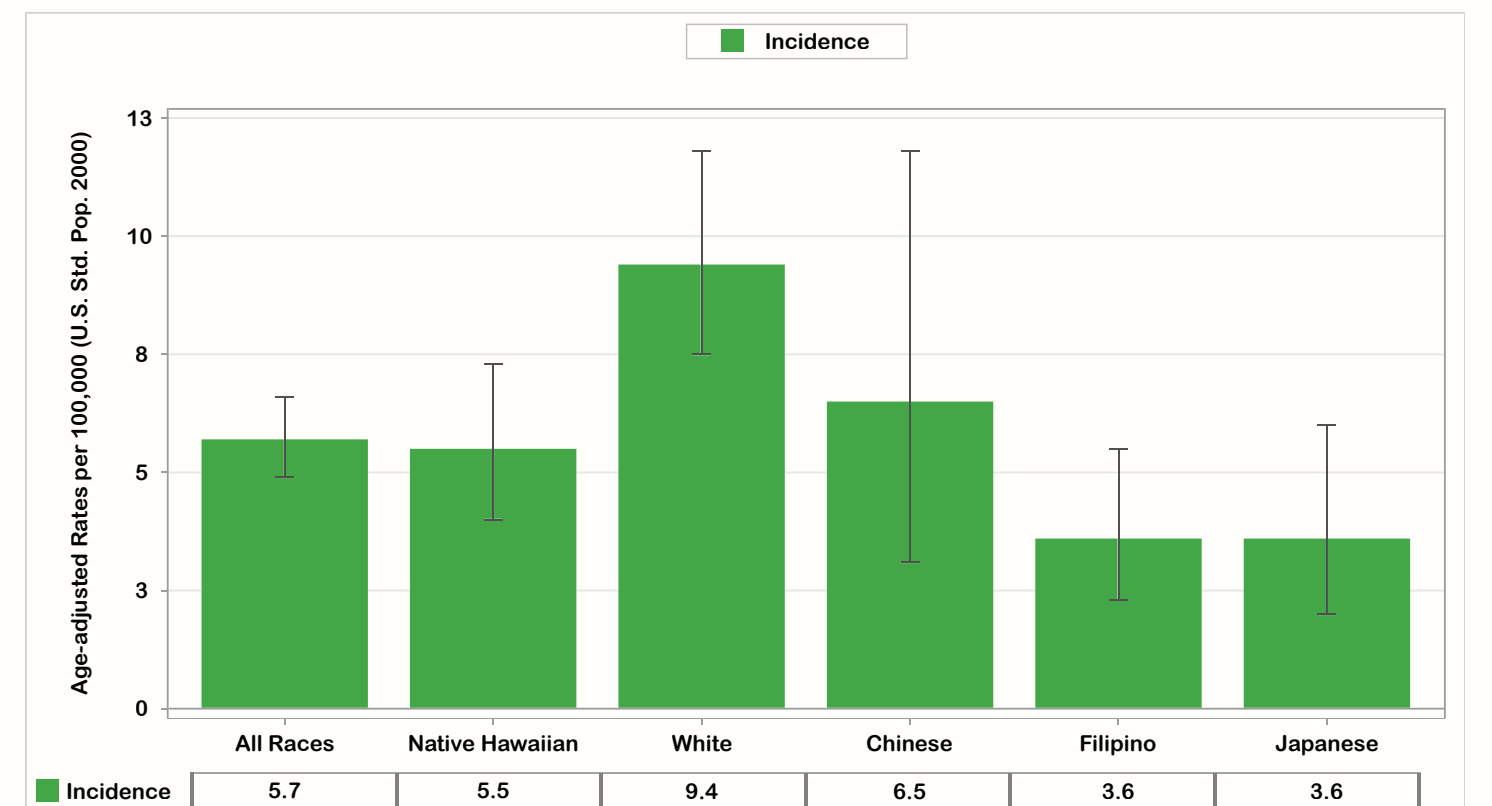


Figure 44. Uterus/Endometrium Cancer Incidence and Mortality, By Race/Ethnicity, Hawai'i 2018-2022

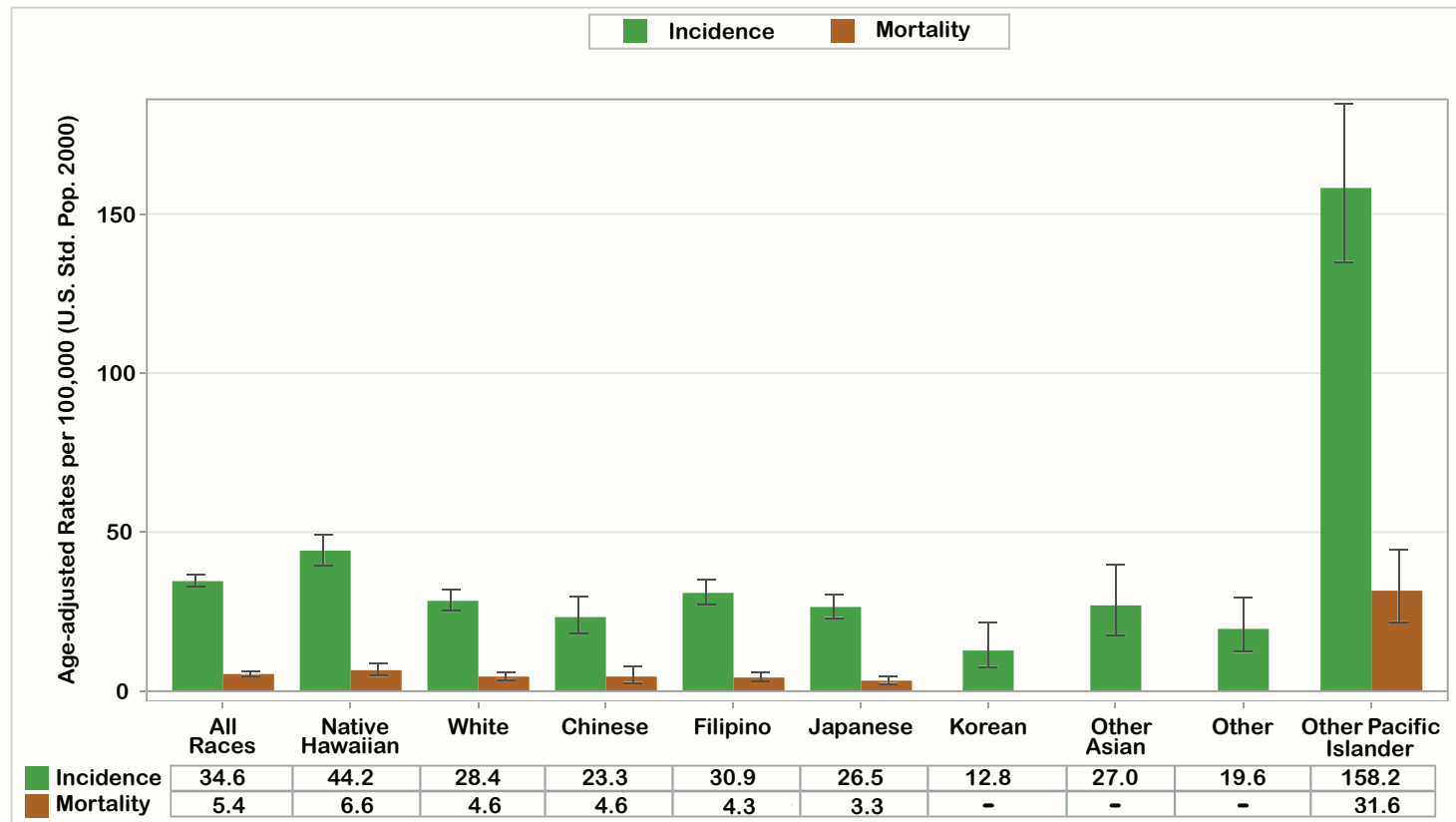


Table 11. Top Cancers in Other Racial/Ethnic Groups, Hawai'i 2018-2022

American Indian/ Alaska Native	Black	Micronesian	Vietnamese	Samoan
<b>Breast</b> 37 16.4%	<b>Prostate</b> 117 24.7%	<b>Uterus/Endometrium</b> 67 11.9%	<b>Breast</b> 41 18.6%	<b>Breast</b> 90 16.0%
<b>Colon &amp; Rectum</b> 25 11.1%	<b>Breast</b> 70 14.8%	<b>Oral Cavity &amp; Pharynx</b> 63 11.2%	<b>Lung &amp; Bronchus</b> 35 15.9%	<b>Uterus/Endometrium</b> 86 15.3%
<b>Prostate/ Lung &amp; Bronchus</b> 22 9.8%	<b>Colon &amp; Rectum</b> 46 9.7%	<b>Breast</b> 57 10.1%	<b>Colon &amp; Rectum</b> 30 13.6%	<b>Lung &amp; Bronchus</b> 75 13.3%
<b>Melanoma of the Skin</b> 18 8.0%	<b>Lung &amp; Bronchus</b> 33 7.0%	<b>Lung &amp; Bronchus</b> 55 9.8%	<b>Prostate</b> 16 7.3%	<b>Colon &amp; Rectum</b> 56 9.9%
<b>Bladder</b> 11 4.9%	<b>Kidney &amp; Renal Pelvis</b> 20 4.2%	<b>Leukemia</b> 32 5.7%	<b>Non-Hodgkin Lymphoma</b> 13 5.9%	<b>Prostate</b> 49 8.7%
<b>All Sites</b> 225 100.0%	<b>All Sites</b> 473 100.0%	<b>All Sites</b> 564 100.0%	<b>All Sites</b> 220 100.0%	<b>All Sites</b> 563 100.0%

## Data Sources, Methods, and Definitions

### General

- Counts and/or rates displayed in tables and figures are suppressed if the total 5-year count and/or the average annual count is less than 10.
- For some tables, the annual average numbers are rounded and may not add up to the rounded total. Similarly, percentages may not add up to 100% due to rounding.

### Sources

- Hawai'i Tumor Registry, University of Hawai'i Cancer Center.
- Hawai'i State Department of Health.
- American Community Survey 5-year Public Use Microdata Sample.
- National Center for Health Statistics, Centers for Disease Control and Prevention.
- SEER\*Stat Database: Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER\*Stat Database: Mortality - All COD, Aggregated with State, Total U.S. (1990-2022) <Katrina/Rita Population Adjustment>, National Cancer Institute, DCCPS, Surveillance Research Program, released April 2024. Underlying mortality data provided by NCHS (www.cdc.gov/nchs).
- U.S. Cancer Statistics Working Group. U.S. Cancer Statistics Data Visualizations Tool. U.S. Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; https://www.cdc.gov/cancer/dataviz, released in June 2025.
- State Cancer Profiles, National Cancer Institute and Centers for Disease Control and Prevention.
- Mortality rates by detailed race/ethnicity are based on state vital record data only and may differ from that based on data from the National Center for Health Statistics.

### Methods

- Rates are age-adjusted per 100,000 to the 2000 U.S. Standard population.
- Age-adjusted rates, prevalence, frequencies are calculated by Surveillance Research Program, National Cancer Institute SEER\*Stat software.
- AAPC Calculation: Joinpoint Regression Program; Statistical Research and Applications Branch, National Cancer Institute.
- Hawai'i's detailed race/ethnicity population estimates are based on the American Community Survey 5-year Public Use Microdata Sample. It is revised to include two additional new groups, Korean and Other Pacific Islander, and the rates calculated are not directly comparable to previous editions of the Cancer at a Glance.
- Multiple race/ethnicity populations were apportioned into the major race/ethnicity groups according to their relative prevalence.

### Definitions

- Cancer cases include invasive cases except for bladder cancer, which includes both invasive and in situ.
- Maui County includes Maui, Kalawao, Moloka'i, and Lana'i.
- The "Other Pacific Islander" group includes Samoans, Tongans, CHamoru, Fijians, and people of other areas of Micronesia, Polynesia, and Melanesia.
- The number of cancer survivors is based on individuals diagnosed with the cancer in 1973-2021 and alive as of January 1st, 2022.
- Other Female Genital Organs: Includes broad and round ligament, parametrium, uterine adnexa, Wolffian body, fallopian tube, placenta, overlapping lesion of female genital organs, and unspecified sites of the female genital tract.
- Other Digestive Organs: Includes overlapping lesions of the digestive system, overlapping lesions of retroperitoneum and peritoneum, and unspecified sites of the intestinal tract.
- Other Biliary: Includes extrahepatic bile duct, ampulla of vater, overlapping lesion of biliary tract, and biliary tract.
- Stage information is derived from combined summary stage variables.



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