



Hawaii Colorectal Cancer Fact Sheet (Revised January 2009)

Early diagnosis and treatment of colorectal cancer results in a survival rate of 90%, yet less than 40% are diagnosed at this early stage. The CDC estimates that as many as 60% of colorectal cancer deaths could be prevented if all men and women aged 50 years or older were screened routinely.

Incidence and Deaths:

For men and women (combined), colorectal cancer is the second leading cause of cancer deaths in Hawaii. Overall, colorectal cancer incidence and mortality rates have dropped for both sexes over the last 25 years.

Hawaiiøs annual incidence rates for both genders combined is slightly less than the US rate (HI=52.0, US=52.2). The HI incidence trend is falling with a (.07) annual percentage drop in incidence rates. Hawaiiøs annual mortality rate for both genders combined is less than the US rate (HI=16.0, US=19.4) The HI mortality trend is falling with a (1.7) annual percentage drop in incidence rates, although not as steeply as the drop in the US trend (4.6). However, if these trends continue both the US and Hawaii will meet the Healthy People 2010 goal of (13.9). Kauaiøs incidence and mortality rates for men may be unusually high.

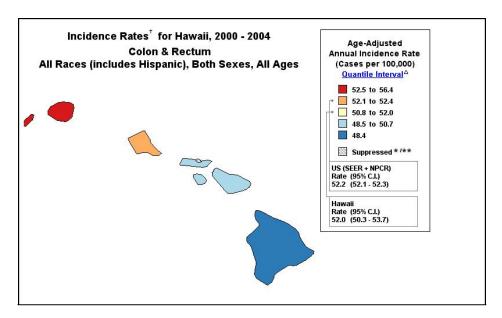
(Source: State Cancer Profiles 2000-2004)

Table 1: Incidence and Mortality Rates for Hawaii & Counties vs. US Healthy Hawaii 2010 Target Mortality Rate = 13.9

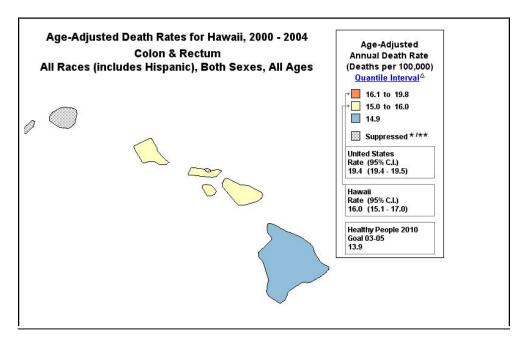
	Male		Fe	emale	Combined		
	Incidence	Mortality	Incidence	Mortality	Incidence	Mortality	
U.S.	61.6	23.5	45.0	16.4	52.2	19.4	
HI State	64.7	21.0	41.6	12.0	52.0	16.0	
Kauai	80.9	28.5	36.2	12.5			
Maui	65.8	21.7	37.4	11.4			
Honolulu	65.0	20.9	42.2	12.0			
Hawaii	55.0	17.7	42.7	12.4			



Maps 1: Incidence Map for Hawaii (Source: State Cancer Profiles 2000-2004)



Maps 2: Mortality Map for Hawaii (Source: State Cancer Profiles 2000-2004)



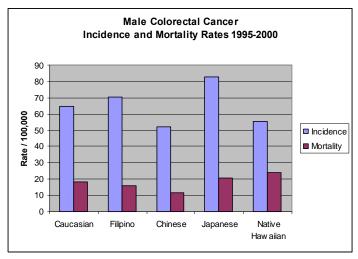
Colon cancer incidence per 100,000 population (age-adjusted) among men during 1995-2000 was highest among Japanese (52.0), followed by Caucasians (47.5), and Filipinos (43.2); while Native Hawaiians (35.6) and Chinese (33.4) had lower incidence. Overall colorectal cancer rates are lower among women.

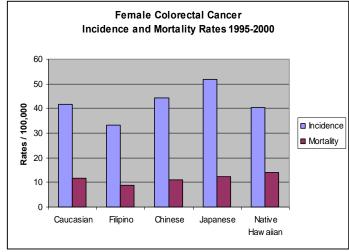
Click Here to upgrade to ancer mortality. While the incidence of colon cancer is aucasians, others and Filipinos, mortality is highest

among Native Hawanan and Japanese males, followed by Caucasians. Among women, colon cancer incidence is highest among Japanese and Chinese, followed by Caucasians, yet mortality is highest among Native Hawaiian and Japanese females.

For rectal cancer among men, incidence per 100,000, population (age-adjusted) during 1995-2000 was highest among Japanese (30.7) and Filipinos (27.3), and mortality is highest among Japanese. Both rectal cancer incidence and mortality among women was higher among Japanese. (Source: Hawaii Cancer Facts and Figures 2003-2004)

Table 2 and 3: Incidence and Mortality Rates by Ethnicity (Source: Hawaii Cancer Facts and Figure 2003-2004)





Survivorship:

The prognosis for colorectal cancers depends on:

- The stage of the cancer
- Whether the cancer has blocked or created a hole in the colon.

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(Source: NCI -s Physicians Data Query)

Standard treatment for colorectal cancer includes surgery, chemotherapy, and radiation therapy. There are clinical trials for colorectal cancers available in Hawaii. Relative survival rates at diagnosis for colorectal cancer in Hawaii ranges from 87% at 12 months, to 58% at 60 months.

Table 3: Colorectal Cancer Survivors Alive in 2005 by Island

(Source: HI Tumor Registry)

ISLAND	Female	Male	Total
Oahu, Honolulu	1,275	1,341	2,616
Oahu, other than Honolulu	943	1,259	2,202
Hawaii (Big Island)	331	384	715
Maui	221	286	507
Kauai	131	184	315
Molokai	10	27	37
Lanai	11	3	14
Grand Total	2,922	3,484	6,406

Prevention / Risk Factors:

The following risk factors may increase the risk of colorectal cancer:

- Age risk begins to increase after age 40.
- Obesity including a lifestyle that does not include regular exercise.
- Smoking
- Alcohol

The following protective factors may decrease the risk of colorectal cancer:

- Hormone replacement therapy that includes both estrogen and progesterone.
- Polyp removal may lower the risk of colorectal cancer.

The effect of these factors on the risk of colorectal cancer is not known:

- Non steroidal, anti-inflammatory drugs
- Vitamin not known if taking vitamin D or folic acid lowers the risk.
- Diet not known if a diet low in fat, high in fiber, fruits, & vegetables lowers risk.
- Statins not known that taking statins (cholesterol -lowering drugs) affects risk.

(Source: NCI -s Physicians Data Query)

Early Detection:

Overall since 2001, among adults 50 years and older, the percentage having a blood stool test in the preceding 2 years has declined significantly, while the percentage having a sigmoidoscopy or a colonoscopy has increased (Figure 3i).

(Source Hawaii Healthy People 2010, 2001-2006)

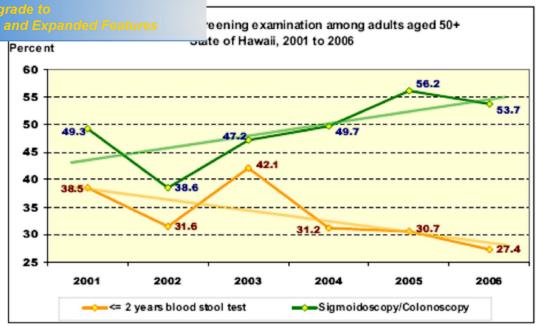


Fig. 3i

In 2006 53.7% of adults in Hawaii aged 50 years old or older reported they had either a sigmoidoscopy or colonoscopy, which exceeds the HP2010 goal of 50%. However, the proportions reporting such screening are significantly higher for Japanese and European-Americans than for Filipinos or Native Hawaiians (Figure 3k)(Source Hawaii Healthy People 2010, 2001-2006).

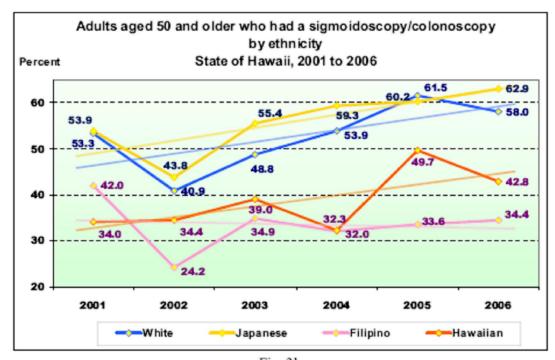


Fig. 3k

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sing gaps in such screening examinations, with those in those with less education (Figure 3m) being less and inkery to report getting such screenings. (Source Hawaii Healthy People 2010, 2001-2006)

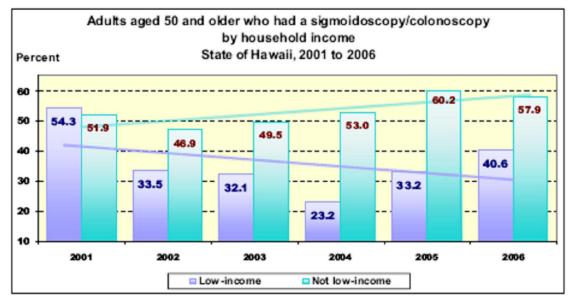


Fig. 31

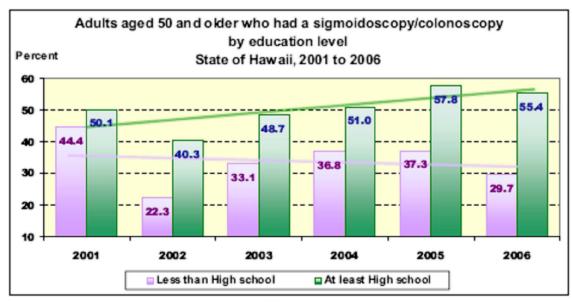


Fig. 3m

Survival from colorectal cancer is more than 90% when it is diagnosed before it has extended beyond the intestinal wall. Therefore, low screening rates are risk factors for colorectal cancer and are more apparent among Hawaii

marginalized populations. These data may illustrate that colorectal cancer screening issues are apparent throughout Hawaiias diverse population; more information is needed to know why some groups do not get initial screenings while others may not be getting follow-ups. It is also likely that health insurance issues may be a barrier, and language issues/health literacy as well in Hawaii.

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I cancer is highly preventable, yet fewer states* have passed preventative ening legislation when compared to cancers with lower death rates.

STATE GRADES

Α	Arkansas
	Alaska
	Connecticut
	Georgia
	Illinois
	Indiana
	Louisiana
	Maryland
	Missouri
	Nevada
	New Jersey
	North Carolina
	Oregon
	Rhode Island
	Virginia
	Washington D.C.

TYPE OF CANCER	REQUIRE COVERAGE	INSUFFICIENT COVERAGE	NO COVERAGE	DEATHS PER YEAR
Colorectal	21	3	27	52,180
Breast	47	3	1	40,910
Prostate	26	1	24	27,050
Cervical	23	1	27	3,670

US figures estimated for 2007, American Cancer Society

B Delaware Texas West Virginia

- C California Wyoming
- D Alabama Oklahoma Tennessee
- F Arizona Colorado Florida Hawaii Idaho lowa Kansas Kentucky Maine Massachusetts Michigan Minnesota Mississippi Montana Nebraska New Hampshire New Mexico New York North Dakota Ohio Pennsylvania South Carolina South Dakota Utah

Vermont

Policy / Insurance Issues:

The following table and graphs (page 8) compare US states that have mandated colorectal cancer screening coverage.

Summary of Key Data Points

In summary, these data illustrate that:

- 6 Overall, Hawaiios colorectal cancer incidence is lower than the US rate.
- ó Kauai's colorectal incidence and mortality may be unusually high.
- 6 There are clear ethnic and gender disparities in colorectal cancer mortality.
- ó There has been a significant decline in fecal occult blood testing.
- 6 During the past 5 years, there are definitive and increasing disparities in screening based upon ethnicity, income, and education.
- ó There are no Hawaii state laws mandating screening coverage by insurers.

Prepared by the Hawaii Comprehensive Cancer Control Data and Surveillance Action Team (March 2008, revised January 2009)

For more information, contract: ann.m.pobutsky@doh.hawaii.gov

^{*} Including Washington D.C.



Your complimentary use period has ended. Third-Party Coverage for Colorectal Cancer Screening (as of June 30, 2007)

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Colorado	_							
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Texas	_	_	_	-	-		-	
Utah Vermont	 							
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Washington	-	3,4	•	•	•	•	•	•
West Virginia	•	J	•	•	•	•	•	•
Wisconsin			_	-		_	-	_
Wyoming ⁸	•							
Totals	28	19	24	23	23	22	24	70
IJuis	20	19	24	23	23	22	24	28



Click Here to upgrade to Adults who had a fecal occult blood test in the past 2 years **Unlimited Pages and Expanded Features** y ears Cninese Filipino Hawaiian/Part Hawaiian Japanese Other Mixed Not Hawaiian BASE Population 18+ Caucasian 2000 915,770 2001 39.1% 43.5% 32.5% 29.9% 46.0% 23.6% 929,401 22.8% 2002 32.8% 39.6% 29.5% 34.8% 38.0% 942,830 2003 41.7% 42.7% 30.9% 50.8% 44.8% 954,381 37.5% 33.3% 43.1% 18.1% 23.1% 36.3% 25.7% 967,186 2004 983,060 2005 32.3% 34.5% 26.8% 34.5% 35.6% 13.9% 29.1% 32.3% 17.9% 26.7% 30.4% 26.2% 995,059 2006 30.5% 23.3% 29.2% 30.3% 30.8% 24.3% 997,694 2007 2008

<u>STATE</u>	Adults age 50+ who have had a sigmoidoscopy								
adults 50+ sigmoidoscopy									
Years	Caucasian	Chinese	Filipino	Hawaiian/Part Hawaiian	Japanese	Other	Mixed Not Hawaiian	BASE Population 18+	
2000								348,137	
2001	52.4%	62.6%	41.5%	33.4%	54.7%	36.0%		359,612	
2002	40.2%	48.3%	24.3%	34.1%	45.6%	31.5%		370,438	
2003	48.4%	51.2%	36.3%	38.2%	56.7%	41.2%		381,666	
2004	51.9%	63.3%	31.6%	28.4%	59.5%	44.1%		390,511	
2005	62.0%	70.7%	37.7%	51.1%	62.5%	42.6%		401,945	
2006	57.1%	57.1%	31.1%	42.4%	64.3%	42.9%		412,172	
2007	63.1%	54.3%	35.9%	48.4%	66.4%	50.6%			
2008			·			·			

Colorectal screening data compiled by Papa Ola Lokahi from DOH-BRFSS.