

THYROID

Table 27: Thyroid Incidence and Mortality Summary, 2010

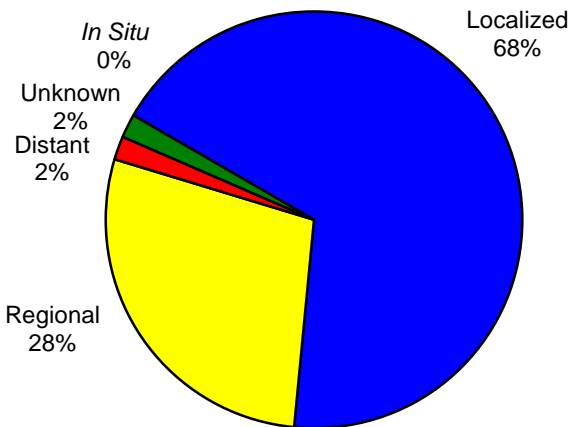
Thyroid Cancer			Incidence			Mortality		
			Total	Male	Female	Total	Male	Female
South Dakota	Total	# Cases / Deaths Age Adjusted Rate	110 13.0	25 5.9	85 20.4	7 0.7	3 0.6	4 0.8
	White	# Cases / Deaths Age Adjusted Rate	106 13.8	25 6.4	81 21.6	7 0.7	3 0.6	4 0.8
	American Indian	# Cases / Deaths Age Adjusted Rate	3 4.5	0 0.0	3 9.0	0 0.0	0 0.0	0 0.0
United States	Total	Age Adjusted Rate	* 12.5	* 6.2	* 18.6	* 0.5	* 0.5	* 0.5
	White	Age Adjusted Rate	* 13.1	* 6.6	* 19.7	* 0.5	* 0.5	* 0.5
	American Indian	Age Adjusted Rate	* 7.4	* 1.8	* 12.5	*	*	*

Rates per 100,000 age-adjusted to 2000 US standard population and 2010 SD census population.

* US Incidence and Mortality rates are from 2009, the 2010 rate is not available at this time. US rates www.seer.cancer.gov

Source: South Dakota Department of Health

Figure 73: Thyroid Cancer Stage at Diagnosis, South Dakota, 2010



Source: South Dakota Department of Health

Descriptive Epidemiology

Stage at Diagnosis: In 2010 data demonstrates that 75 (68%) of cases were diagnosed at localized stage. When a patient is diagnosed at an early stage, prognosis is much better for a cure. There were 31 (28%) cases diagnosed at regional stage. Only two cases (2%) were diagnosed at a distant stage.

Incidence: The American Cancer Society estimated 44,670 thyroid cancer cases would be diagnosed in the United States in 2010. Thyroid cancer continues to account for approximately 3% of all cancers in South Dakota. Of the 110 cases diagnosed in 2010, 25 were male and 85 were female. The median age at diagnosis was 51.5. In the United States the median age was 50. Thyroid cancer is found more commonly in people between the

ages of 45 and 70 years of age, with 80% diagnosed before age 65. It is predominately a disease of females as the statistics of South Dakota confirm.

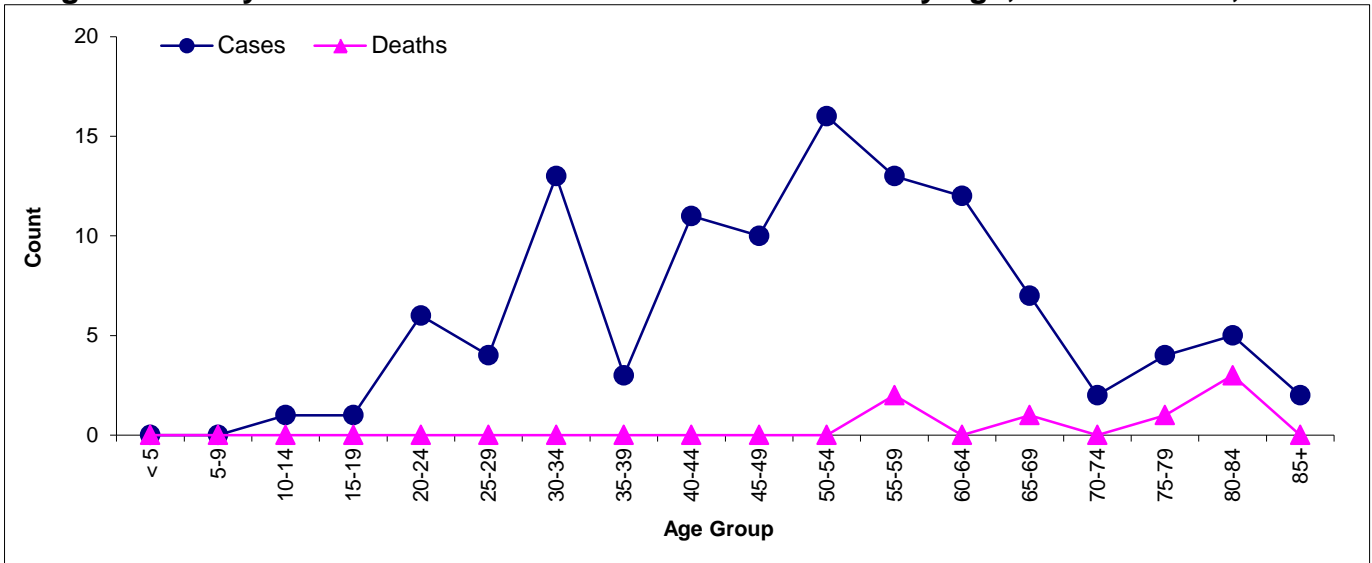
Mortality: According to the South Dakota Department of Health, there were seven deaths attributed to thyroid cancer in 2010. Nationally, the 5-year relative survival rates were 99.9% for localized, 97.1% for regional, and 87.4% for unknown stage.

Risk and Associated Factors: Thyroid cancer accounted for only 2.8% of the cancer cases in South Dakota in 2010. Risk factors include being exposed to radiation to the head and neck in childhood. Other risk factors for the development of thyroid cancer include a history of goiter, family history of thyroid disease, and Asian race.

Early Detection and Prevention: Early detection of cancer of the thyroid is extremely important. There are currently no tests or screenings for early detection of thyroid cancer. Physical examinations may reveal a lump on the side of neck, hoarseness of the voice, and difficulty swallowing. Most cancerous thyroid tumors are slow growing and curable. Prompt attention to signs and symptoms is the best approach to early diagnosis of most thyroid cancers. Signs or symptoms include:

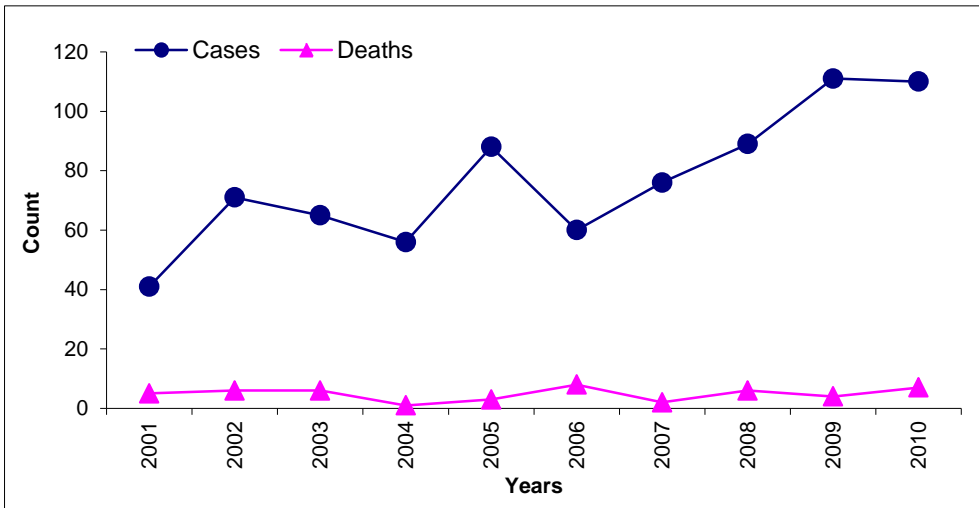
- A lump in the neck, sometimes growing rapidly
- A pain in the neck, sometimes going up to the ears
- Hoarseness
- Trouble swallowing
- Breathing problems (feeling as if one were breathing through a straw)
- A cough that persists and is not due to a cold

Figure 74: Thyroid Cancer Number of Cases and Deaths by Age, South Dakota, 2010



Source: South Dakota Department of Health

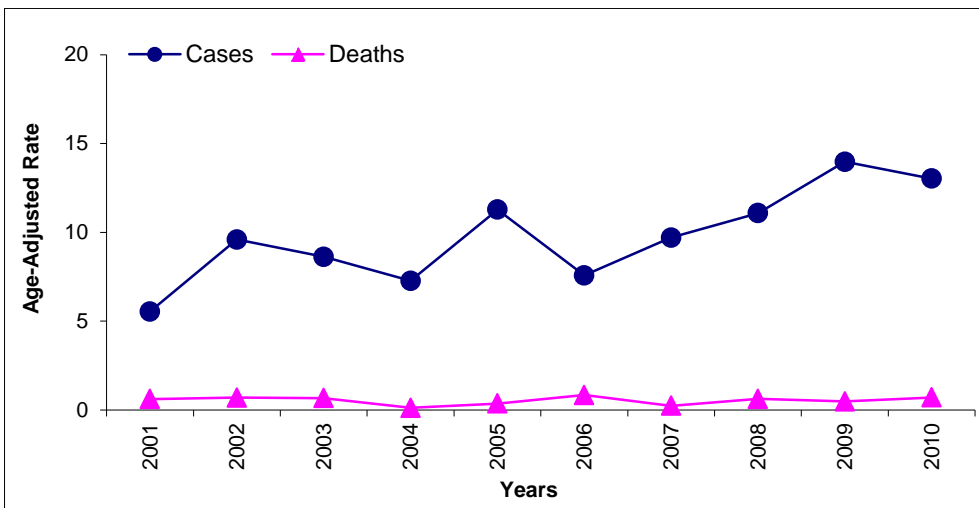
Figure 75: Thyroid Cancer Cases and Deaths by Year, South Dakota, 2001 - 2010



The incidence count for thyroid cancers peaked in 2010.

Source: South Dakota Department of Health

Figure 76: Thyroid Cancer Age-Adjusted Rates, Cases, and Deaths by Year, South Dakota, 2001 - 2010



Rates per 100,000 age-adjusted to 2000 US standard population and SD estimated populations.
Source: South Dakota Department of Health