CHAPTER 12

Cancer of the Pancreas

James E. Everhart, M.D., M.P.H.

In 2004, 71 percent of newly diagnosed pancreatic cancers were among persons age 65 years and older (Table 1). Age at diagnosis was higher than for most other digestive system cancers, with the median being 72 years and 40 percent diagnosed at age 75 years or older (http://seer.cancer.gov/csr/1975_2005/results_merged/topic_med_age.pdf).

Incidence rates were highest among the elderly, non-Hispanic blacks, and males. Age-adjusted incidence was relatively stable from 1979 to 2004, being essentially the same in the first and last year (Figure 1). Survival from pancreatic cancer is the poorest of any major cancer, digestive system or otherwise. Nevertheless, 5-year survival increased modestly from 2 percent among persons diagnosed in 1979 to 3.8 percent among persons diagnosed in 1999. In 2004, there were an estimated 415,000 ambulatory care visits for pancreatic cancer and 68,000 hospital discharges with a diagnosis of pancreatic cancer (Table 2). Hospitalization rates were highest among the elderly and age-adjusted rates were higher for blacks and males. While ambulatory care visits appear to have increased from 1992 through 2004, hospital discharge rates were stable from 1979 through 2004 (Figure 2).

Because of low survival, pancreatic cancer mortality was essentially the same as incidence in 2004. As underlying cause, there were 31,800 deaths in 2004 (third highest of all digestive diseases) and more than 200,000 YPLL prior to age 75 years (also third highest of all digestive diseases) (Table 3). Rates were highest in the oldest age group. Age-adjusted mortality rates were higher for blacks and for males. Death rates for pancreatic cancer remained steady between 1979 and 2004 (Figure 3).

			INCIDENCE PER 100,000			
DEMOGRAPHIC CHARACTERISTICS		Number of Cases	Unadjusted	Age-Adjusted		
AGE (Years)	Under 15					
	15–44	878	0.7			
	45-64	9,513	13.6	_		
	65+	21,681	63.4	—		
RACE/ETHNICITY	Non-Hispanic White	25,873	13.5	11.2		
	Non-Hispanic Black	3,614	10.6	15.2		
	Hispanic	1,929	4.8	10.4		
	Asian/Pacific Islander	947	7.7	9.2		
	American Indian/Alaska Native	99	5.3	8.1		
SEX	Female	15,709	10.8	10.0		
	Male	14,853	10.6	12.7		
TOTAL		30,560	10.7			

Table 1. Pancreatic Cancer: Number of Cases and Incidence Rates by Age, Race/Ethnicity, and Sex, 2004

SOURCE: Surveillance, Epidemiology, and End Results (SEER) Program

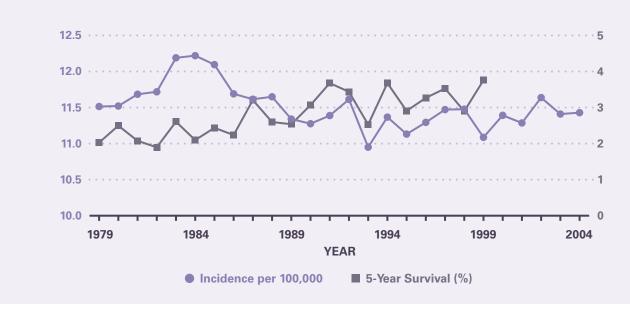


Figure 1. Pancreatic Cancer: Age-Adjusted Incidence Rates and 5-Year Survival Rates, 1979–2004

SOURCE: Surveillance, Epidemiology, and End Results (SEER) Program

Table 2. Pancreatic Cancer: Number and Age-Adjusted Rates of Ambulatory Care Visits and Hospital DischargesWith First-Listed and All-Listed Diagnoses by Age, Race, and Sex in the United States, 2004

AMBULATORY CARE VISITS				HOSPITAL DISCHARGES					
DEMOGRAPHIC CHARACTERISTICS		First-Listed Diagnosis		All-Listed Diagnoses		First-Listed Diagnosis		All-Listed Diagnoses	
		Number in Thousands	Rate per 100,000						
AGE (Years)	Under 15		_	_	_	_			—
	15–44		—		—	1	1	2	2
	45-64	154	218	162	229	12	16	23	33
	65+	230	634	251	690	21	59	43	119
RACE	White	383	148	409	158	28	11	55	21
	Black				—	4	15	8	30
SEX	Female	214	129	237	144	17	10	34	20
	Male	173	124	178	128	17	13	34	26
TOTAL		386	132	415	141	34	12	68	23

SOURCE: National Ambulatory Medical Care Survey (NAMCS) and National Hospital Ambulatory Medical Care Survey (NHAMCS) (3-year average, 2003–2005), and Healthcare Cost and Utilization Project Nationwide Inpatient Sample (HCUP NIS)

Figure 2. Pancreatic Cancer: Age-Adjusted Rates of Ambulatory Care Visits and Hospital Discharges With All-Listed Diagnoses in the United States, 1979–2004

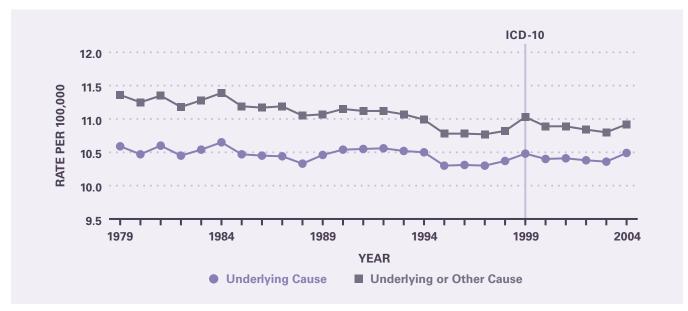


SOURCE: National Ambulatory Medical Care Survey (NAMCS) and National Hospital Ambulatory Medical Care Survey (NHAMCS) (averages 1992–1993, 1994–1996, 1997–1999, 2000–2002, 2003–2005), and National Hospital Discharge Survey (NHDS)

Table 3. Pancreatic Cancer: Number and Age-Adjusted Rates of Deaths and Years of Potential Life Lost (to Age 75)by Age, Race, and Sex in the United States, 2004

		UNDE	RLYING CAUSE	UNDERLYING OR OTHER CAUSE		
DEMOGRAPHIC CHARACTERISTICS		Number of Deaths	Rate per 100,000	Years of Potential Life Lost in Thousands	Number of Deaths	Rate per 100,000
AGE (Years)	Under 15	_		_	1	0.0
	15-44	596	0.5	20.6	606	0.5
	45-64	8,407	11.9	147.9	8,656	12.2
	65+	22,796	62.7	38.2	23,825	65.6
RACE	White	27,247	10.5	167.8	28,323	10.9
	Black	3,681	13.7	31.9	3,848	14.3
SEX	Female	16,004	9.2	83.3	16,602	9.6
	Male	15,796	12.4	123.5	16,487	12.9
TOTAL		31,800	10.8	206.8	33,089	11.3

SOURCE: Vital Statistics of the United States





SOURCE: Vital Statistics of the United States