CHAPTER 7

Cancer of the Small Intestine

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

Cancer of the small intestine is often considered rare, but in 2004, there were more than 5,000 new cases diagnosed (exclusive of intestinal lymphomas), or about a third the total number of esophageal cancers or primary liver cancers, and more than the number of gallbladder cancers. Slightly more than half of patients were diagnosed at age 65 years or older (Table 1), with a median age of 67 years (http://seer.cancer.gov/csr/1975_2005/results_merged/topic_med_age.pdf), making this the digestive system cancer with the second youngest age of onset (after primary liver cancer). Nevertheless, rates were highest among the elderly and among blacks and males.

Age-adjusted incidence for cancer of the small intestine increased by 73 percent between 1979 and 2004 (Figure 1). Lack of awareness of the magnitude of this increase may be a reason for the perception that

it remains a rare cancer. Over the same period, 5-year survival improved modestly, from about 33 percent to about 41 percent. National medical care systems do not adequately capture outpatient or inpatient visits (Table 2), although rates of hospital discharges have tended to increase in recent years (Figure 2). The number of hospitalizations prior to 1988 was too small to provide estimates.

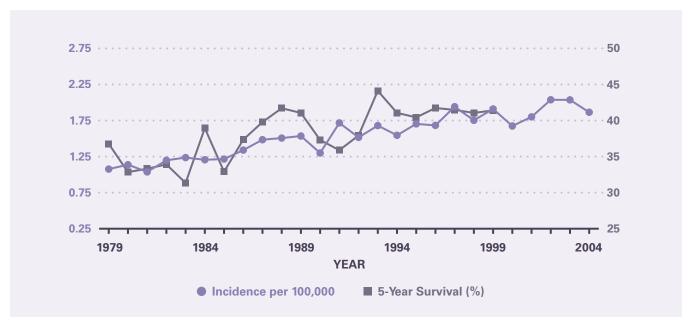
Because of its relatively high survival rate, there were only 1,115 deaths from cancer of the small intestine in 2004, and fewer than 10,000 YPLL prior to age 75 years (Table 3). The majority of deaths occurred among persons age 65 years and older. Death rates were higher for blacks than whites and for males than females, reflecting the incidence rates. Age-adjusted death rates changed little between 1979 and 2004 (Figure 3).

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

			INCIDENCE PER 100,000			
DEMOGRAPHIC CHARACTERISTICS		Number of Cases	Unadjusted	Age-Adjusted		
AGE (Years)	Under 15	_	_	_		
	15-44	407	0.3	_		
	45–64	1,987	2.8	_		
	65+	2,889	8.4	_		
RACE/ETHNICITY	Non-Hispanic White	4,298	2.2	1.9		
	Non-Hispanic Black	756	2.2	3.0		
	Hispanic	295	0.7	1.4		
	Asian/Pacific Islander	107	0.9	1.0		
	American Indian/Alaska Native	<u> </u>	_	_		
SEX	Female	2,357	1.6	1.5		
	Male	2,703	1.9	2.2		
TOTAL		5,065	1.8	_		

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

Figure 1. Cancer of the Small Intestine: Age-Adjusted Incidence Rates and 5-Year Survival Rates, 1979–2004



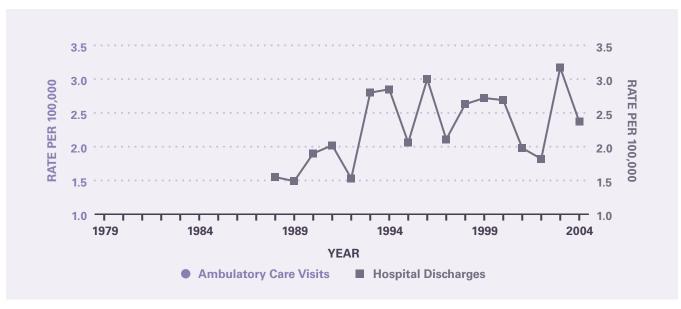
SOURCE: Surveillance, Epidemiology, and End Results (SEER) Program

Table 2. Cancer of the Small Intestine: Number and Age-Adjusted Rates of Ambulatory Care Visits and Hospital Discharges With 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	_	_	_	_	0	0	1	1
	45-64		_		_	2	3	3	5
	65+		_	_	_	3	9	5	14
RACE	White		_	_	_	5	2	7	3
	Black		_	_	_	1	3	1	5
SEX	Female		_		_	3	2	4	3
	Male		_		_	3	2	5	4
TOTAL			_		_	6	2	9	3

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. Cancer of the Small Intestine: Age-Adjusted Rates of Ambulatory Care Visits and Hospital Discharges With All-Listed Diagnoses in the United States, 1979–2004 (Ambulatory Care Visit Data Unavailable)



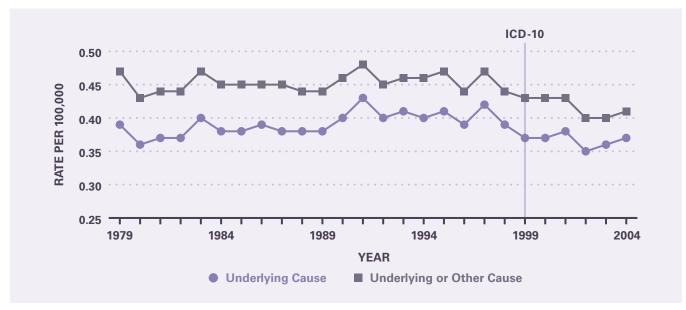
SOURCE: National Ambulatory Medical Care Survey (NAMCS) and National Hospital Ambulatory Medical Care Survey (NHAMCS) (averages 1992–1993, 1994–1996, 1997–1999, 2000–2002, 2003–2005), and National Hospital Discharge Survey (NHDS)

Table 3. Cancer of the Small Intestine: 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

		UNI	DERLYING 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	_	_	_	_	_
	15-44	55	0.0	2.0	59	0.0
	45-64	329	0.5	6.0	358	0.5
	65+	731	2.0	1.4	838	2.3
RACE	White	908	0.3	6.9	1,021	0.4
	Black	175	0.6	2.1	194	0.7
SEX	Female	523	0.3	4.3	588	0.3
	Male	592	0.5	5.0	667	0.5
TOTAL		1,115	0.4	9.3	1,255	0.4

SOURCE: Vital Statistics of the United States

Figure 3. Cancer of the Small Intestine: Age-Adjusted Rates of Death in the United States, 1979–2004



SOURCE: Vital Statistics of the United States