

**Supplementary Table 1.** The annual number of cases, crude rates, and age-standardized rates (ASR) of gallbladder cancer incidence and mortality, both sexes

Year	Incidence			Mortality		
	New cases	Crude rate	ASR	Cancer deaths	Crude rate	ASR
1999	1,337	2.8	2.9	877	1.9	1.9
2000	1,436	3.0	3.0	919	1.9	1.9
2001	1,561	3.3	3.1	1,087	2.3	2.2
2002	1,708	3.6	3.3	1,249	2.6	2.4
2003	1,701	3.5	3.1	1,264	2.6	2.3
2004	1,744	3.6	3.0	1,298	2.7	2.3
2005	1,905	3.9	3.2	1,381	2.8	2.3
2006	1,899	3.9	3.1	1,364	2.8	2.2
2007	2,002	4.1	3.1	1,454	3.0	2.2
2008	2,022	4.1	2.9	1,479	3.0	2.1
2009	2,146	4.3	3.0	1,567	3.2	2.1
2010	2,216	4.4	3.0	1,453	2.9	1.9
2011	2,216	4.4	2.8	1,633	3.3	2.0
2012	2,354	4.7	2.9	1,593	3.2	1.9
2013	2,338	4.6	2.7	1,624	3.2	1.8
2014	2,440	4.8	2.7	1,668	3.3	1.8
2015	2,534	5.0	2.7	1,749	3.4	1.8
2016	2,587	5.1	2.6	1,740	3.4	1.7
2017	2,621	5.1	2.5	1,755	3.4	1.6
2018	2,667	5.2	2.4	1,738	3.4	1.5
2019	2,744	5.4	2.4	1,906	3.7	1.6

**Supplementary Table 2.** Trends of incidence and mortality of gallbladder cancer, both sexes

Year	APC	<i>p</i> -value	AAPC (1999–2019)	<i>p</i> -value
Incidence			–0.87	< 0.01
1999–2002	3.57	< 0.05		
2002–2010	–1.03	0.02		
2010–2019	–2.17	< 0.01		
Mortality			–0.73	0.08
1999–2002	10.29	0.01		
2002–2019	–2.56	< 0.01		

APC, annual percent change; AAPC, average annual percent change.

**Supplementary Table 3.** Overall 5-year relative survival rates (5YRS) of gallbladder cancer

Group	5YRS
Year of diagnosis	
1999–2005	21.8
2006–2012	26.9
2013–2019	30.6
Age group (1999–2019)	
0–40 yr	47.1
40–49 yr	37.4
50–59 yr	34.5
60–69 yr	31.1
70–79 yr	23.6
≥ 80 yr	15.8
SEER stage	
Localized	
2006–2012	71.1
Surgical	84.3
Non-surgical	16.4
No active or unknown treatment	24.4
2013–2019	77.0
Surgical	87.5
Non-surgical	12.7
No active or unknown treatment	28.0
Regional	
2006–2012	30.8
Surgical	47.5
Non-surgical	4.6
No active or unknown treatment	7.3
2013–2019	37.8
Surgical	53.4
Non-surgical	5.4
No active or unknown treatment	6.3
Distant	
2006–2012	2.8
Surgical	7.4
Non-surgical	1.8
No active or unknown treatment	2.1
2013–2019	2.6
Surgical	8.6
Non-surgical	1.5
No active or unknown treatment	1.4

**Supplementary Table 4.** The annual number of cases, crude rates, and age-standardized rates (ASR) of extrahepatic bile duct cancer incidence and mortality, both sexes

Year	Incidence			Mortality		
	New cases	Crude rate	ASR	Cancer deaths	Crude rate	ASR
1999	1,710	3.6	3.7	1,569	3.3	3.4
2000	1,695	3.6	3.5	1,742	3.7	3.6
2001	1,868	3.9	3.7	2,023	4.2	4.0
2002	1,859	3.9	3.6	1,643	3.4	3.2
2003	2,008	4.2	3.7	1,754	3.6	3.2
2004	2,243	4.6	3.9	1,919	4.0	3.3
2005	2,377	4.9	4.0	1,972	4.1	3.3
2006	2,246	4.6	3.6	2,038	4.2	3.2
2007	2,395	4.9	3.7	1,972	4.0	3.0
2008	2,543	5.2	3.7	1,980	4.0	2.8
2009	2,886	5.8	4.0	2,052	4.1	2.8
2010	2,960	5.9	4.0	2,049	4.1	2.7
2011	3,220	6.4	4.1	2,068	4.1	2.5
2012	3,222	6.4	3.9	2,095	4.2	2.4
2013	3,467	6.9	4.0	2,159	4.3	2.4
2014	3,693	7.3	4.1	2,263	4.5	2.3
2015	3,785	7.4	4.0	2,462	4.8	2.4
2016	4,174	8.2	4.2	2,668	5.2	2.5
2017	4,298	8.4	4.1	2,962	5.8	2.7
2018	4,568	8.9	4.2	3,133	6.1	2.7
2019	4,639	9.0	4.1	3,082	6.0	2.5

**Supplementary Table 5.** Trends of incidence and mortality of extra-hepatic bile duct cancer, both sexes

Year	APC	<i>p</i> -value	AAPC (1999–2019)	<i>p</i> -value
Incidence			0.76	< 0.01
1999–2019	0.76	< 0.01		
Mortality			–1.85	< 0.01
1999–2013	–3.16	< 0.01		
2013–2019	1.28	0.31		

APC, annual percent change; AAPC, average annual percent change.

**Supplementary Table 6.** Overall 5-year relative survival rates (5YRS) of extrahepatic bile duct cancer

Group	5YRS
Year of diagnosis	
1999–2005	23.1
2006–2012	28.0
2013–2019	27.5
Age group (1999–2019)	
0–40 yr	45.2
40–49 yr	43.0
50–59 yr	40.8
60–69 yr	33.4
70–79 yr	21.0
≥ 80 yr	9.8
SEER stage	
Localized	
2006–2012	38.1
Surgical	63.9
Non-surgical	6.1
No active or unknown treatment	14.7
2013–2019	41.0
Surgical	68.8
Non-surgical	15.4
No active or unknown treatment	13.6
Regional	
2006–2012	31.3
Surgical	39.7
Non-surgical	9.1
No active or unknown treatment	7.6
2013–2019	31.0
Surgical	39.9
Non-surgical	6.6
No active or unknown treatment	6.4
Distant	
2006–2012	5.6
Surgical	14.7
Non-surgical	3.8
No active or unknown treatment	2.3
2013–2019	3.2
Surgical	9.2
Non-surgical	2.9
No active or unknown treatment	1.5

**Supplementary Table 7.** The annual number of cases, crude rates, and age-standardized rates (ASR) of pancreatic cancer incidence and mortality, both sexes

Year	Incidence			Mortality		
	New cases	Crude rate	ASR	Cancer deaths	Crude rate	ASR
1999	2,612	5.5	5.6	2,543	5.4	5.5
2000	2,711	5.7	5.6	2,736	5.8	5.7
2001	2,785	5.8	5.5	2,857	6.0	5.7
2002	3,068	6.4	5.8	2,884	6.0	5.5
2003	3,225	6.7	5.9	2,999	6.2	5.4
2004	3,409	7.0	6.0	3,069	6.3	5.4
2005	3,757	7.7	6.3	3,399	7.0	5.7
2006	3,802	7.8	6.2	3,461	7.1	5.5
2007	4,082	8.3	6.3	3,594	7.3	5.5
2008	4,378	8.9	6.4	3,767	7.6	5.5
2009	4,502	9.1	6.3	4,058	8.2	5.6
2010	4,759	9.5	6.4	4,306	8.6	5.7
2011	5,174	10.3	6.7	4,379	8.7	5.6
2012	5,510	10.9	6.9	4,778	9.5	5.8
2013	5,588	11.1	6.7	4,831	9.6	5.6
2014	6,048	11.9	6.9	5,116	10.1	5.6
2015	6,411	12.6	7.1	5,439	10.7	5.7
2016	6,757	13.2	7.1	5,614	11.0	5.7
2017	7,136	13.9	7.3	5,782	11.3	5.6
2018	7,674	15.0	7.5	6,036	11.8	5.5
2019	8,099	15.8	7.6	6,396	12.5	5.6

**Supplementary Table 8.** Trends of incidence and mortality of pancreatic cancer, both sexes

Year	APC	<i>p</i> -value	AAPC (1999–2019)	<i>p</i> -value
Incidence 1999–2019	1.55	< 0.01	1.55	< 0.01
Mortality 1999–2019	0.09	0.20	0.09	0.20

APC, annual percent change; AAPC, average annual percent change.



**Supplementary Table 9.** Overall 5-year relative survival rates (5YRS) of pancreatic cancer

Group	5YRS
Year of diagnosis	
1999–2005	8.5
2006–2012	9.2
2013–2019	13.3
Age group (1999–2019)	
0–40 yr	46.5
40–49 yr	20.7
50–59 yr	15.2
60–69 yr	11.2
70–79 yr	7.1
≥ 80 yr	4.1
SEER stage	
Localized	
2006–2012	26.7
Surgical	59.0
Non-surgical	3.6
No active or unknown treatment	14.0
2013–2019	44.3
Surgical	78.3
Non-surgical	5.2
No active or unknown treatment	22.4
Regional	
2006–2012	12.2
Surgical	22.5
Non-surgical	3.6
No active or unknown treatment	4.8
2013–2019	17.5
Surgical	29.8
Non-surgical	6.4
No active or unknown treatment	4.5
Distant	
2006–2012	2.1
Surgical	7.8
Non-surgical	1.5
No active or unknown treatment	1.7
2013–2019	2.2
Surgical	7.8
Non-surgical	2.3
No active or unknown treatment	1.1