



Abbreviations: 5-FU = fluorouracil; CCA = cholangiocarcinoma

**Figure S1** Study schematic.

**Table S1** CCA-related HRU during the follow-up period stratified by age

	<65 years (N = 359)	≥65 years (N = 939)
Number of CCA-related medical services per patient per month <sup>1,2</sup> , mean ± SD		
Inpatient admissions	0.2±0.5	0.2±1.3
Inpatient length of stay per admission <sup>3</sup>	2.8±6.5	5.3±20.7
ICU admissions	0.1±0.2	0.1±1.1
ICU length of stay per admission <sup>3</sup>	1.7±2.8	5.2±13.1
Emergency room visits	0.0±0.1	0.0±0.1
Home health care/hospice visits	0.1±0.4	0.1±0.3
Outpatient visits	1.3±2.6	0.9±1.6
Radiology visits	0.3±0.4	0.2±0.4

Abbreviations: CCA = cholangiocarcinoma; HRU = healthcare resource utilization; ICU = intensive care unit; SD = standard deviation

Notes:

<sup>1</sup> If any claim within an admission/visit had a diagnosis code for CCA, the entire visit was considered CCA-related.

<sup>2</sup> Per patient per month HRU was calculated based on the average of the number of admission(s) or visit(s) per patient divided by number of months in each patient's follow-up.

<sup>3</sup> Length of stay for inpatient and ICU admissions were calculated only among patients with at least one inpatient or ICU admission, respectively.

**Table S2** Monthly CCA-related healthcare costs per patient during the follow-up period stratified by age

	<65 years (N = 359)	≥65 years (N = 939)
Total healthcare costs per patient per month <sup>1,2,3</sup>		
Mean ± SD	10,481±18,461	6,696±15,382
Median	5,553	2,585
IQR	(1,889, 13,185)	(118, 7,831)
Medical service costs per patient per month		
Mean ± SD	8,874±18,018	5,848±15,152
Median	3,909	1,541
IQR	(297, 12,326)	(0, 6,429)
Inpatient		
Mean ± SD	4,522±9,127	3,150±13,909
Median	75	0
IQR	(0, 4,974)	(0, 1,644)
ICU		
Mean ± SD	1,250±3,890	1,554±13,100
Median	0	0
IQR	(0, 0)	(0, 0)
Emergency room		
Mean ± SD	141±1,261	55±490
Median	0	0
IQR	(0, 0)	(0, 0)
Outpatient		
Mean ± SD	3,045±15,242	1,893±4,435
Median	738	229
IQR	(0, 3,026)	(0, 1,963)
Home health care/hospice		
Mean ± SD	133±603	9±54
Median	0	0
IQR	(0, 0)	(0, 0)
Radiology		
Mean ± SD	863±2,738	558±1,797
Median	29	0
IQR	(0, 636)	(0, 327)
Other <sup>4</sup>		
Mean ± SD	170±338	183±1,242
Median	31	11
IQR	(0, 178)	(0, 119)
Treatment costs per patient per month <sup>5</sup>		
Mean ± SD	1,607±4,684	848±1,786
Median	726	58
IQR	(0, 2,105)	(0, 976)

Abbreviations: CCA = cholangiocarcinoma; ICU = intensive care unit; SD = standard deviation; USD = United States dollars Notes:

<sup>1</sup> If any claim within a visit had a diagnosis code for CCA, the entire visit was considered CCA-related.

<sup>2</sup> All costs were inflated to 2019 USD.

<sup>3</sup> Per patient per month costs were calculated based on the average of the costs per patient for each admission or visit type divided by number of months in each patient's follow-up.

<sup>4</sup> "Other refers to the following types of services: durable medical equipment, services and supplies, transportation services, laboratory services, and dental services.

<sup>5</sup> CCA-related treatment costs included systemic treatments only.