

Supplementary material

Supplementary Table 1 ICD-9-CM codes for identifying clinical conditions in the HCUP-NIS Dataset, 2007-2014

Clinical condition	ICD-9-CM codes, elixhauser comorbidity variables and clinical classification system codes
Chronic pancreatitis	577.1
Opioid use disorder	304.0, 304.7, 305.5
Mental health disorders	293, 294, 295, 296, 297, 298, 299, 300, 301, 302
Back pain	720, 721, 722, 723, 724
Arthritis	710-719, 725, 726, 727, 728, 729, 730-739
Headaches	346, 307.81, 784.0
Alcohol use	303.x, 305.3x, 291.x, 980.x, V11.3
Biliary stones	574.x
Family history of pancreatitis	V18.59
Autoimmune diseases	710.x
Pancreatic cancer	156.2, 157.x, V10.09
Hypercalcemia	275.42
Hypertriglyceridemia	272.1, 272.2
Cystic fibrosis	277.0
Tobacco use	305.1, 989.84, V15.82
Other substance use (neither alcohol, tobacco nor opioid)	292, 304.1-304.9, 305.2-305.4, 305.6-305.9, 648.3
Charlson-Deyo comorbidity index	Quan H, Sundararajan V, Halfon P, et al. Coding algorithms for defining comorbidities in ICD-9-CM and ICD-10 administrative data. <i>Med Care</i> 2005;43:1130-1139.

NIS, National Inpatient Database (NIS); HCUP, Healthcare Cost and Utilization Project

Supplementary Table 2 Trends in opioid use disorder (cases per 10,000 hospitalizations) among adult hospitalizations, categorized by presence of chronic pancreatitis, NIS 2007-2014

Year	All patients	Chronic pancreatitis	
		No	Yes
2007	135.0	134.2	365.3
2008	137.1	136.1	386.7
2009	156.1	154.9	421.5
2010	175.7	174.3	453.2
2011	182.1	180.4	527.5
2012	192.0	190.3	521.4
2013	202.4	200.6	534.6
2014	216.4	214.5	566.2
2007-2014	174.0	172.5	478.8

NIS, National Inpatient Database