

**Supplementary Table 1. Complete List of Collected Variables**

Group	Type	Variables [unit]	Value/Category
Patient characteristics	Continuous	Age [year-old]	
	Binary	Sex	Female Male
	Continuous	Height [cm]	
	Continuous	Weight [kg]	
	Continuous	BMI [kg/m <sup>2</sup> ]	
	Nominal	History of smoking	Never smoker Ex-smoker Current smoker
	Continuous	Smoking amount [pack-year]	
	Binary	History of drinking	Never-drinker Ever-drinker (including quit)
	Ordinal	ASA classification	I, II, III, IV
	Binary	Habitual snoring	Yes No
	Binary	Presence of upper respiratory infection symptoms	Yes No
	Binary	O <sub>2</sub> inhalation requires before ERCP	Yes No
	Continuous	Pre-ERCP vital sign: SBP [mm Hg]	
	Continuous	Pre-ERCP vital sign: DBP [mm Hg]	
	Continuous	Pre-ERCP vital sign: HR [/min]	
	Continuous	Pre-ERCP vital sign: RR [/min]	
	Continuous	Pre-ERCP vital sign: SpO <sub>2</sub> [%]	
	Binary	Decreased oral intake within prior 7 days	Yes No
	Binary	Unintended weight loss within prior 1 month	Yes No
	Binary	Nutritional risk assessment	High-risk Low-risk
Procedure-related characteristics	Binary	Desaturation history in previous sedation endoscopy	Yes No
	Binary	Altered upper gastrointestinal anatomy	Yes No
	Binary	ERCP indication: biliary stone	Yes No
	Binary	ERCP indication: biliary stricture	Yes No
	Binary	Outpatient	Yes No
	Binary	Emergency	Yes No
	Binary	Same-session endoscopy with sedation before ERCP	Yes No
	Continuous	Duration of same-session endoscopy with sedation before ERCP [min]	
	Continuous	Propofol dose for same-session endoscopy [mg]	
	Continuous	Duration of MAC for ERCP [min]	
	Continuous	Propofol dose used during MAC [mg]	
	Continuous	Fentanyl dose used during MAC [mcg]	
	Laboratory tests	Continuous	Hb [g/dL]
Continuous		Hematocrit [%]	
Continuous		WBC [10 <sup>3</sup> /μL]	
Continuous		Absolute neutrophil [%]	
Continuous		AST [IU/L]	
Continuous		ALT [IU/L]	
Continuous		BUN [mg/dL]	
Continuous		Creatinine [mg/dL]	
Continuous		eGFR (CKD-EPI) [mL/min/1.73 m <sup>2</sup> ]	
Continuous		Total Bilirubin [mg/dL]	
Continuous		Albumin [g/dL]	
Continuous		Total Cholesterol [g/dL]	
Continuous		CRP [mg/L]	
Continuous		Prothrombin time [INR]	
Comorbid condition	Binary	Malignancy	Yes No
	Binary	Major cardiovascular disease	Yes No
	Binary	Cerebrovascular disease	Yes No
	Binary	Chronic respiratory disease	Yes No
	Binary	Chronic kidney disease (except RRT)	Yes No
	Binary	Chronic liver disease (except LC)	Yes No
	Binary	Liver cirrhosis	Yes No
	Binary	Renal replacement therapy	Yes No
	Binary	Inotropes infusion before ERCP	Yes No
	Binary	Propofol use in same-session endoscopy before ERCP	Yes No
Pre-procedural medications	Continuous	Propofol dosage in same-session endoscopy before ERCP [mg]	
	Binary	Midazolam use in same-session endoscopy before ERCP	Yes No
	Continuous	Midazolam dosage in same-session endoscopy before ERCP [mg]	
	Binary	Prescription of opioids within 7 days	Yes No
	Binary	Prescription of opioids within 30 days	Yes No
	Binary	Prescription of psychotropics within 7 days	Yes No
	Binary	Prescription of psychotropics within 30 days	Yes No

BMI, body mass index; ASA, American Society of Anesthesiologists; ERCP, endoscopic retrograde cholangiopancreatography; SBP, systolic blood pressure; DBP, diastolic blood pressure; HR, heart rate; MAC, monitored anaesthesia care; WBC, white blood cell; AST, aspartate aminotransferase; ALT, alanine aminotransferase; BUN, blood urea nitrogen; CRP, C-reactive protein; INR, international normalized ratio; RRT, renal replacement therapy; LC, liver cirrhosis.

Malignancy-any malignant disease that was active or diagnosed within five years before ERCP; major cardiovascular disease-congestive heart failure, chronic ischemic heart disease, valvular heart disease, presence of cardiac and vascular implants and grafts, and cardiomyopathy; cerebrovascular disease-intracranial hemorrhage, infarction, other cerebrovascular disease, and its sequelae; chronic respiratory disease-chronic obstructive pulmonary disease, asthma, interstitial pulmonary diseases, and pulmonary hypertension; chronic kidney disease (except RRT)-chronic kidney disease of any cause such as diabetic nephropathy or chronic glomerulonephritis, without receiving renal replacement therapy; chronic liver disease (except LC)-chronic hepatitis of any cause, and alcoholic liver disease.