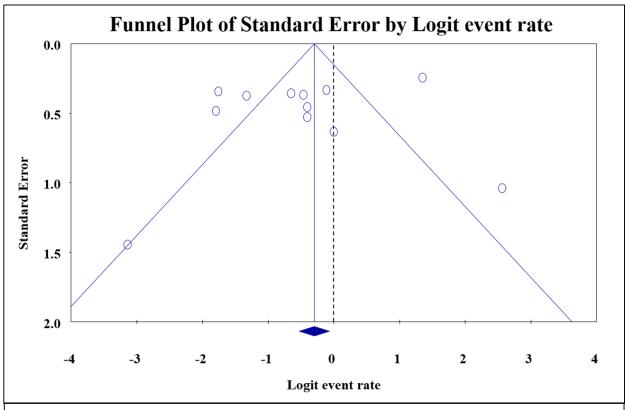
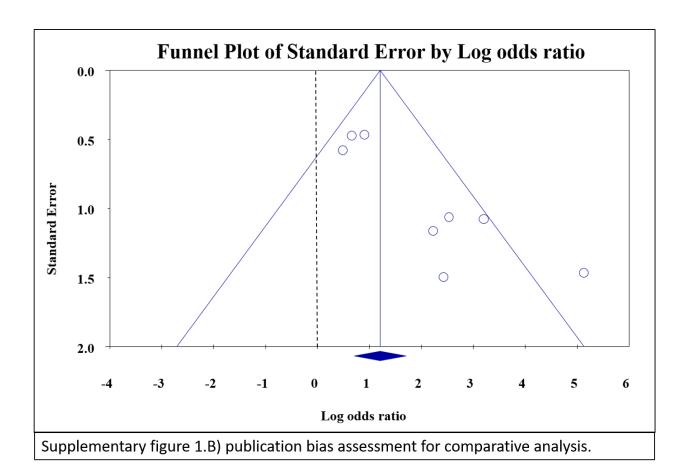
# Table 1. QUALITY OF THE INCLUDED STUDIES BASED ON THE NEWCASTLE-OTTAWA SCALE (NOS)

AUTHORS		Selectio	n		Comparability Exposure					
CASE-CONTROL	case definition adequacy(1)	Representativeness of the cases(1)	Selection of controls(1)	Definition of controls(1)	Comparability of cases and controls(2)	Ascertainment of exposure(2)	Same method for cases and controls(1)	Non- respon se rate(1)		
NÍ CHONCHUBHAIR	1	1	1	1	1	1	0	0	6	
KIM	1	1	1	1	1	1	0	0	6	
THERRIEN	1	1	1	1	1	1	0	0	6	
KUMAR	1 1		1	1	1	1	1	0	7	
SIGNORETTI	1	1	1	1	1	1	1	0	7	
MANCILLA	1	1	0	1	1	1	1	0	6	
MADSEN	1	0	1	1	1	1	1	0	6	
TRESPI	1	0	0	0	1	1	1	0	4	
CASELLAS	1	0	1	0	1	1	1	0	5	
JORGENSEN	1	0	0	0	1	1	1	0	4	
CROSS-SECTIONAL		Representativeness of the sample(1)	Sample size(1)	Non- respondent(1)	Comparability(2)	Ascertainment of exposure(2)	Assessment of outcome(2)	Statisti cal test(1)		
LEMBCKE	-	1	0	0	0	1	2	0	4	
GRIGOREVA	-	1	1	0	1	2	2	1	8	
LEE		1	1	0	1	2	2	1	8	

Supplementary	table 2. CP diagnostic criteria adopted
Ní Chonchubhair	Two of the following criteria:  1) Patient history (abdominal pain typical of pancreatitis),  2) functional deficits (exocrine/endocrine impairment)  3) findings of radiologic/ endoscopic studies (computed tomography/endoscopic ultrasonography).
Casellas	CP was confirmed by: CT scan or pancreatography and abnormal secretin stimulation test
Therrein	CP confirmed by: abdominal computed tomodensitometry (according to Cambridge criteria), a magnetic resonance imaging (MRI), or an endoscopic ultrasound (Rosemont criteria).
Kim	CP was diagnosed in all the patients by typical clinical and imaging studies according to the M-ANNHEIM criteria.
Kumar	Diagnosis of chronic pancreatitis was based on relevant clinical history in the presence of imaging features suggestive of chronic pancreatitis.
Lembcke	Dx was based on relevant history, clinical course, pancreatic calcifications on abdominal x-ray and functional tests including abnormal secretin-pancreozymin test and 72-hr fecal fat excretion.
Madsen	chronic pancreatitis was diagnosed according to the Marseille classification
Mancilla	CP was diagnosed based on both clinical history and ERCP findings suggestive of CP
Signoretti	CP was diagnosed based on typical clinical and imaging features, and a functional test according to the Marseille classification
Trespi	CP was diagnosed based on CT and ERCP findings suggestive of CP in addition to abnormal fecal fat excretion
Jorgensen	CP was diagnosed based on clinical history, and imaging findings suggestive of CP
Gregoris	CP was diagnosed based on clinical history, CT scan, Abd US findings and ERCP findings
Lee	CP diagnosed based on the Mayo clinical diagnostic criteria



Supplementary figure 1.A) publication bias assessment for PP analysis.



## A. PERT association to SIBO in CP

Study name_	Statistics for each study					Odds ratio and 95% CI							
	Odds ratio	Lower limit	Upper limit	Z-Value	p-Value								
Lee	1.938	0.838	4.483	1.547	0.122				+		<del></del>		
Ní Chonchubhair	2.373	0.114	49.508	0.557	0.577	-					-		$\rightarrow$
Kim	0.935	0.239	3.655	-0.097	0.923		-		_				
Kumar	1.228	0.286	5.271	0.276	0.782				-	•		+	
Signoretti	2.450	0.442	13.593	1.025	0.305			+		-	-		$\rightarrow$
	1.626	0.902	2.932	1.618	0.106								
						0.1	0.2	0.5	1	2	5	;	10
							No PERT			PERT			

Random effects analysis

Supplementary figure 2. B

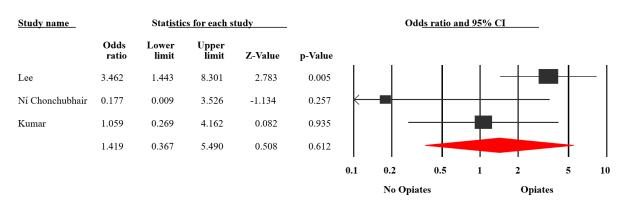
## B. PPI association to SIBO in CP

Study name	Statistics for each study				Odds ratio and 95% CI								
	Odds ratio	Lower limit	Upper limit	Z-Value	p-Value								
Lee	1.607	0.711	3.633	1.140	0.254				+				
Ní Chonchubhair	5.231	0.521	52.551	1.406	0.160			-	-+				$\rightarrow$
Signoretti	0.598	0.134	2.675	-0.673	0.501		+		+		-		
	1.435	0.597	3.447	0.808	0.419			-					
						0.1	0.2	0.5	1	2	5		10
							No PPI			1	PPI		

Random effects analysis

Supplementary figure 2. C

## C. Opiates association to SIBO in CP



Random effects analysis

### Supplementary Figure 3.

