Supplementary Table 1. ICD-9-CM and ICD-10-CM diagnosis codes used to

Condition	ICD-9-CM	ICD-10-CM
Functional digestive disorders	564.XX	K59.XX
Chronic constipation	564.0X (excluding	K59.0X (excluding
	564.02)	K59.02)
Irritable bowel syndrome	564.1X	K58.XX
Depressive disorder	290.21; 292.84; 296.2X;	F32.0X; F32.1X; F32.2X;
	296.3X; 296.82; 298.0X;	F32.3X; F32.4X; F32.5X;
	300.4X; 309.0X; 309.1X;	F32.9X; F33.0X; F33.1X;
	311.XX	F33.2X; F33.41; F33.42;
		F33.9X

identify conditions of interest.

ICD-9-CM, International Classification of Disease, Ninth Revision, Clinical

Modification; ICD-10-CM, International Classification of Disease, Tenth Revision,

Clinical Modification.

Supplementary Table 2. SSRIs and CIC-related drugs evaluated during pre-index

and follow-up periods.

CIC-related drugs	SSRIs
Linaclotide	Citalopram
Lubiprostone	Escitalopram
Lactulose	Fluoxetine
MiraLAX	Paroxetine
	Sertraline

CIC, chronic idiopathic constipation; SSRI, selective serotonin reuptake inhibitor.

	Linaclotide		
Characteristic	(<i>N</i> =43,164)	(<i>N</i> =17,743)	
Mean (SD) age, years	47.1 (13.5)	47.5 (14.2)	
Women, <i>n</i> (%)	37,143 (86.1)	14,720 (83.0)	
Plan type, <i>n</i> (%)			
Commercial	26,622 (61.7)	10,723 (60.4)	
State Children's Health Insurance Program	7 (<0.1)	5 (<0.1)	
Medicare Risk/Medicare Advantage	388 (0.9)	281 (1.6)	
Self-insured	16,147 (37.4)	6734 (38.0)	
Region, <i>n</i> (%)			
North-east	8150 (18.9)	3671 (20.7)	
South	22,877 (53.0)	8757 (49.4)	
Midwest	9056 (21.0)	3908 (22.0)	
West	2853 (6.6)	1220 (6.9)	
Other	228 (0.5)	187 (1.1)	
Evidence of IBS at any time during pre-index period or follow-up	17,321 (40.1)	6662 (37.5)	
Use of CIC-related drugs during pre-index period, <i>n</i> (%)			
Linaclotide	_	2217 (12.5)	
Lubiprostone	4510 (10.5)	_	
Lactulose	2217 (5.1)	1015 (5.7)	
MiraLAX	19 (<0.1)	9 (0.1)	
Any of the above	6333 (14.7)	3049 (17.2)	
Use of an SSRI ^b , <i>n</i> (%)	10,219 (23.7)	4283 (24.1)	
Mean (SD) follow-up, days	534.9 (328.7)	544.6 (345.0)	

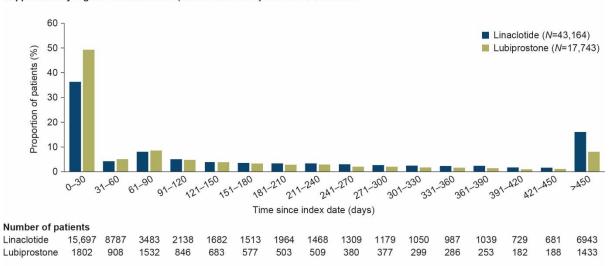
Supplementary Table 3. Baseline characteristics of all patients with CIC^a.

^aIncludes patients who began treatment with linaclotide or lubiprostone from January 1, 2013, to December 31, 2015.

^bIncludes any of the following: citalopram, escitalopram, fluoxetine, paroxetine and sertraline.

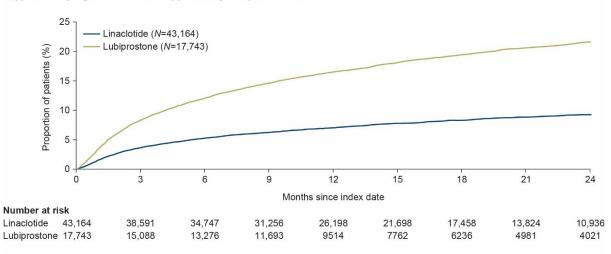
CIC, chronic idiopathic constipation; IBS, irritable bowel syndrome; SD, standard deviation; SSRI, selective serotonin reuptake inhibitor.

Supplementary Figure 1. Distribution of patients with CIC by duration of treatment.



CIC, chronic idiopathic constipation.

Supplementary Figure 2. Time to therapy switching in all patients with CIC.



CIC, chronic idiopathic constipation.