

Table S1. Classification of IBD-related health services use. Note that description of IBD-related diagnoses in the text refer to all diagnostic codes classified as IBD-specific, IBD signs/symptoms and extra-intestinal manifestations.

CONDITION	ICD-9	OHIP diagnostic code	ICD-10
IBD-SPECIFIC:			
Crohn's	555.x	555	K50.x
UC	556.x	556	K51.x
IBD SIGNS/SYMPTOMS:			
Anorexia	783.0	787	R63.0
Abnormal Weight Gain	783.1		R63.5
Abnormal Weight Loss	783.2		R63.4
Underweight	783.22		R62.8
Failure to thrive, child	783.4		R62.8 R62.9
Failure to thrive, adult	783.7		R62.8 R62.9
Symptoms involving digestive system, including: (787.0) Nausea and vomiting (787.01) Nausea w/vomiting (787.02) Nausea, alone (787.03) Vomiting, alone (787.1) Heartburn (787.2) Dysphagia (787.3) Gas/bloating (787.6) Encopresis, fecal incontinence (787.9) Other symptoms involving digestive system (787.91) Diarrhea, NOS	787.x	787	R11.x R12.x R13.x R14.x R15.x R19.x
Abdominal pain	789.0	787	R10.x
Dyspepsia	536.8	536	K30.x
Cachexia	799.4		R64.x
Esophagitis	530.1	530	K20.x K21.x
Esophageal ulcer	530.2		K22.1
Gastric ulcer	531.x	531	K25.x
Duodenal ulcer	532.x	532	K26.x
Peptic ulcer	533.x		K27.x
GJ ulcer	534.x	534	K28.x
Gastritis/duodenitis	535.x	535	K29.x
Intestinal obstruction	560.8 560.9	560	K31.5 K56.6
Rectal/anal haemorrhage	569.3	569	K62.5
Other disorder of rectum/anus, including: (569.41) Ulcer	569.4	569	K62.6 K62.8

(569.42) Pain (569.43) Sphincter tear (healed) (569.44) Dysplasia (569.45) Other specified, including proctitis, inflammation			
Abscess of the intestine	569.5	569	K63.0
Other disorders of intestine, including: (569.81) Fistula (excl rectum) (569.82) Ulcer of intestine (569.83) Perforation (569.84) Angiodysplasia, no haemorrhage (569.85) Angiodysplasia, with haemorrhage (569.86) Dieulafoy (569.89) Other, including: - Enteroptosis - Granuloma of intestine - Prolapse of intestine - Pericolitis - Perisigmoiditis - Visceroptosis	569.8	569	K63.2 K63.3 K63.1 K55.2 K63.8
Malabsorption	262.x 263.0 263.1 263.2 263.9 579.8 579.9	579	E43.x E44.0 E44.1 E45.x E46.x K90.8 K90.9
EXTRA-INTESTINAL MANIFESTATIONS:			
Anal Fistula	565.1	565	K60.3
Anal Abscess	566.x	566	K61.0 K61.1 K61.2 K61.3 K61.4
Ureteral Fistula	593.8		N28.81 N28.88
Urethral Fistula	599.1		N36.0
Fistula of stomach & duodenum	537.4		K31.6
Vesical fistula	596.2		N32.2
Fistula involving female GU	619.x		N82.x
Haemorrhoids, including: (455.9) Anal skin tags	455.x	455	I84.x
Rheumatoid arthritis	713.1	714	M050

	714.x 716.4 716.5 716.6 716.7 716.8 716.9		M052 M053 M058 M059 M060 M061 M062 M064 M068 M069 M070 M080 M081 M082 M083 M084 M088 M089 M090 M091 M092 M098 M130 M131 M139
Arthropathy associated with GI cause	713.3		M074 M075 M076
Inflammatory spondylopathies, including: (720.0) Ankylosing spondylitis (720.1) Spinal enthesopathy (720.2) Sacroiliitis (720.8) Other inflammatory (720.9) Other unspecified inflammatory	720.x	720	M45.x M46.x
Scleritis & episcleritis	379.x	379	H15.x
Unspecified iridocyclitis (uveitis NOS)	364.3	364	H20.9
Chorioretinitis, unspecified (unveitis, posterior NOS)	363.2	363	H30.9
Acute and subacute iridocyclitis	364.0	364	H20.0
Erythema nodosum	695.2	695	L52
Pyoderma	686.0	686	L08.0
Pyogenic granuloma of the skin and soft tissue	686.1	686	L98.0
Oral aphthae	528.2	528	K12.0

Short stature	783.4		E34.3
Osteoporosis	733.0 733.1	733	M80.x M81.x M82.x M83.x
Osteomyelitis	730.0 730.1 730.2	730	M86.x
Acute glomerulonephritis	580.x	580	N00.x
Nephrolithiasis	592.x	592	N20.x
Primary Sclerosing Cholangitis	576.1	576	K83.0
Venous embolism/thrombosis	453.x		I82.x

Table S2. Codes use to identify surgical resections (for Crohn’s disease) and colectomies (for ulcerative colitis) in Discharge Abstract Data from the Canadian Institute for Health Information (CIHI-DAD) .

(a) CCI Intervention Coding – by Surgical Indication

Resective Surgery	
1.NK.87 1.NK.87.BA 1.NK.87.DA 1.NK.87.LA 1.NK.87.DN 1.NK.87.RE 1.NK.87.DP 1.NK.87.RF 1.NK.87.DX 1.NK.87.TF 1.NK.87.DY 1.NK.87.TG	Excision partial, small intestine Simple excision, per orifice Simple excision, laparoscopic Simple excision, open Enterocolostomy anastomosis, laparoscopic Enterocolostomy anastomosis, open Enteroenterostomy anastomosis, laparoscopic Enteroenterostomy anastomosis, open Stoma formation with distal closure, laparoscopic Stoma formation with distal closure, open Stoma formation with mucous fistula, laparoscopic Stoma formation with mucous fistula,, open
1.NM.87 1.NM.87.BA 1.NM.87.DA 1.NM.87.LA 1.NM.87.DF 1.NM.87.RN 1.NM.87.DE 1.NM.87.RD 1.NM.87.DN 1.NM.87.RE 1.NM.87.DX 1.NM.87.TF 1.NM.87.DY 1.NM.87.TG	Excision partial, large intestine Simple excision, per orifice Simple excision, laparoscopic Simple excision, open Colocolostomy anastomosis, laparoscopic Colocolostomy anastomosis, open Colorectal anastomosis, laparoscopic Colorectal anastomosis, open Enterocolostomy anastomosis, laparoscopic Enterocolostomy anastomosis, open Stoma formation and distal closure, laparoscopic Stoma formation and distal closure, open Stoma formation with mucous fistula, laparoscopic Stoma formation with mucous fistula, open
1.NM.89 1.NM.89.DF 1.NM.89.RN 1.NM.89.DX 1.NM.89.TF	Excision total, large intestine Ileorectal anastomosis, laparoscopic Ileorectal anastomosis, open Stoma formation with distal closure, laparoscopic Stoma formation with distal closure, open
1.NM.91 1.NM.91.DF 1.NM.91.RN 1.NM.91.DE 1.NM.91.RD 1.NM.91.DN 1.NM.91.RE 1.NM.91.DX 1.NM.91.TF	Excision radical, large intestine (including en bloc resection) Colocolostomy anastomosis, laparoscopic Colocolostomy anastomosis, open Colorectal anastomosis, laparoscopic Colorectal anastomosis, open Enterocolostomy anastomosis, laparoscopic Enterocolostomy anastomosis, open Stoma formation with distal closure, laparoscopic Stoma formation with distal closure, open

1.NM.91.DY 1.NM.91.TG	Stoma formation with mucous fistula, laparoscopic Stoma formation with mucous fistula, open
1.NP.58.LAXXK	Procurement, small and large intestine
1.OW.89	Excision total, surgically constructed sites in digestive & biliary tract
1.OW.89.DA 1.OW.89.LA	Excision total, laparoscopic Excision total, open

(b) CCP Intervention Coding – by Surgical Indication

RESECTION/COLECTOMY FOR CROHN'S	COLECTOMY FOR ULCERATIVE COLITIS
5741- multiple segmental resection of small intestine	
5742- Other partial resection of small intestine	
5743- Total removal of small intestine	
575- partial excision of large intestine	575- partial excision of large intestine
5751- multiple segmental resection of large intestine	5751- multiple segmental resection of large intestine
5753-right hemicolectomy	5753-right hemicolectomy
5755-left hemicolectomy	5755-left hemicolectomy
576-total colectomy	576-total colectomy
5752- cecectomy	5752- cecectomy
5754- resection of transverse colon	5754- resection of transverse colon
5756- sigmoidectomy	5756- sigmoidectomy
5759- other partial excision of large intestine	5759- other partial excision of large intestine