## Appendix 1 (as supplied by the authors): Supplementary tables

Supplementary Table A1. Description of OHIP codes used in the current study.

Supplementary Table A1. Description of OHIP codes used in the current study.			
OHIP Billing Code	OHIP Billing Code Description		
Colonoscopy and related codes			
Z555A	INTESTINES-ENDOSCOPY-COLONOSCOPY INTO		
	DESCENDING COLON		
E740A	INTESTINE ENDO SIGMOID TO SPLENIC FLEXURE ADD		
E741A	INTESTINE END SIGMOID TO HEPATIC FLEXURE ADD		
E747A	INTESTINE-ENDOSCOPY-SIGMOID.TO CAECUM ADD TO		
	Z512/Z555		
E705A	DIGEST.SYST.INTEST.ENDOSC.INTO TERMINAL		
	ILEUM,ADD.		
E749A	DIGEST SYSTWHEN Z512,555,580 PERFORMED OUT		
	HOSPADD		
Z570A	INTESTINES-EXCISION-FULGURATION OF POLYPS		
	THRO.COLONOSCOPE		
Z571A	INTESTINES-EXCPOLYPS THRO. COLONOSCOPE		
E685A	INTESTINES, ENDOSCOPY TOTAL EXCISION > 3CM SESSILE		
	POLYPS		
Gas	stroscopy and flexible sigmoidoscopy codes		
Z399A	OESOPHAGUS-OESOPHAGO/GASTRO. WITH/OUT		
	DUODENOSCOPY		
Z515A	DIGEST.SYST.OESOPHAGOSCOPY WITH/OUT BIOPSY(S)		
Z523A	OESOPHAGUS-DILATION OF OESOPHAGUS-		
	GUIDED(STRING,WIRE)		
Z525A	OESOPHAGUS-DILATION-OESOPHPNEUMATIC		
Z527A	STOMACH-ENDOSCOPY-GASTROSCOPY		
Z528A	STOMACH-ENDOSCOPY-GASTROSCOPY-SUBSEQ.		
Z532A	PERCUT ENDOSCOPC GASTROSTMY-REV Z CD & INCR FEE		
	TO 1/2 S118		
Z547A	STOMACH-ENDOSCOPY GASTROSCOPY WITH REMOVAL		
	FOREIGN BODY		
Z580A	INTESTINE-ENDOSCOPY-USING 60C.M. FLEXIBLE		
	ENDOSCOPE.		
	Colectomy codes		
S166A	INTESTINE-EXCSML+LGE INTESTINE-TERM.ILEUM-		
	CAECUM ASC.COLON		
S168A	INTESTINE-EXCILEOSTOMY.SUBTOTAL COLECTOMY		
S169A	INTESTINE-EXC-TOTAL COLECTOMY W/ILEO-RECTAL		
	ANASTOMOSIS.		
S170A	INTESTINE-EXCILEOSTOMY+TTLCOLECTOMY+ABDOM-		
	PERIN.RESECTION		
S172A	INTESTINE-EXCTOTAL COLECTOMY WITH LOOP		
	ILEOSTOMY.		
-			

S214A	RECTUM-EXCPROCTECTOMY-ABDOMINO-PERINEAL	
	RESEC/PULL THRU	
S215A	RECTUM-EXC.PROCTECTOMY-2 SURG. TEAM ABDOMINAL	
	SURGEON	
S216A	RECTUM-EXCPROCTECTOMY-2 SURG. TEAM PERINEAL	
	SURGEON	

Supplementary Table A2. OHIP billing codes used in analysis to identify anaesthesia assistance. This list was empirically derived from Ontario health administrative data by identifying endoscopy-related and anesthesia codes with "C" suffix billed +/-1 day of a colonoscopy from 1993-2005.\*

OHIP Billing Code	OHIP Billing Code Description			
E003C	ASST./ANAES. ATTEND MONITORING/CARE			
E747C	ENDOSC SIGMOID TO CAECUM, ADD TO Z512/Z555			
S119C	PERCUTANEOUS ENDOSCOPIC GASTROSTOMY			
S236C	ESOPHAGUS - ENDOSCOPIC ULTRASOUND USING LINEAR OR			
	RADIAL ECHO-ENDOSCOPE - EXCLUDING BILIARY OR			
	PANCREATIC EXAM.			
S237C	ESOPHAGUS - ENDOSCOPIC ULTRASOUND USING LINEAR OR			
	RADIAL ECHO-ENDOSCOPE - INCLUDING BILIARY AND/OR			
	PANCREATIC EXAM.			
Z399C	OESOPHAGOSCOPY-GASTROCOPY W/OUT DUDENOSCOPY -			
	ELECTIVE			
Z400C	OESOPHAGUS - FOR ACTIVE BLEEDING			
Z512C	INTESTINES - ENDOSCOPY ILEOSTOMY OR COLOSTOMY			
Z514C	INTESTINES - ENDOSCOPY ILEOSTOMY OR COLOSTOMY			
	WITH BIOPSY			
Z515C	OESOPHAGOSCOPY WITH/OUT BIOPSY			
Z527C	STOMACH - ENDOSCOP - GASTROSCOPY (W/OUT			
	BIOPSY/PHOTO)			
Z528C	SUBSEQ (WITHIN 3 MONTHS FOLLOWING PREV			
	GASTROSCOPY			
Z535C	RECTUM - SIGMOIDOSCOPY W/OUT ANOSCOPY (NOT WITH			
	Z555/Z580)			
Z536C	RECTUM - SIGMOIDOSCOPY W/OUT ANOSCOPY - W/BIOPSY			
Z544C	ANUS - INC. BIOPSY			
Z547C	STOMACH - GASTROSCOPY WITH REMOVAL OF FOREIGN			
	BODY			
Z551C	LIVER - INC - BIOPSY, NEEDLE			
Z555C	ENDOSCOPY - SIGMOID/DESCENDING COLON			
Z558C	BILIARY TRACT - ENDO MANIP &/OR REM DUCT STONES			
77.00	W/OUT SPHINCTEROTOMY			
Z560C	INTESTINES - ENDOSCOPY - DUODENOSCOPY (NOT WITH			
75.40	Z399/Z400)			
Z561C	INTESTINES - DUODENOSCOPY - CANN. PANCR. DUCT			
Z567C	SUBSEQ PROC (WITHIN 3 MON. FOLL PREV ENDOSCOPIC			
75.000	PROC)			
Z568C	SUBSEQ PROC SAME PHYS (WITHIN 3 MON. PREV			
75700	ENDOSCOPIC PROC)			
Z570C	FULG POLYP THROUGH COLONOSCOPE			
Z571C	EXC POLYP, THROUGH COLONSCOPE			
Z576C	INTRO - INJECTIONS ANAL FISSURE			

Z580C	ENDOSCOPY (USING 60CM. FLEX SCOPE)
Z592C	RECTUM - SIGMOIDOSCOPY - DECOMPRESSION/VOLVULUS
Z749C	INTEST - ENDOSCOPY - SUBSEQ PROC (WITHIN 3 MONTHS)
Z753C	RECTUM - POLYPS/TUMOURS ELECTROCOAG - UNDER 2 CMS
Z754C	RECTUM - POLYPS/TUMOURS EXC - UNDER 2 CMS
Z755C	RECTUM - POLYPS/TUMOURS ELECTROCOAG/EXC - OVER 2
	CMS
Z757C	EXC BENIGN ANAL LESION(S)
Z761C	RECTUM POLYPS WITH ELECTROCOAGULATION OR
	EXCISION BASE 5 CM.+

<sup>\*</sup> Alharbi O, Rabeneck L, Sutradhar R, et al. A population-based analysis of outpatient colonoscopy in adults assisted by an anesthesiologist. Anesthesiology 2009;111:734-740.

## Supplementary Table A3. Changes to OHIP codes relevant for colonoscopy since 2008/9

New OHIP code	Definition	How to use new	Year
		codes	introduced
Z491A	Colonoscopy, incomplete	These are "base"	2013
	polyp resection – to	codes for	
	descending colon	colonoscopy and	
Z492A	Colonoscopy, 5 year	can be used	2013
	follow-up after normal	interchangeably	
	colonoscopy (Z499) – to	with Z555A,	
	descending colon	depending on the	
Z493A	Colonoscopy, 10 year	indication, e.g.,	2013
	follow-up after normal	Z49XA + E740A +	
	colonoscopy (Z497, Z555)	E741A + E747A to	
	– to descending colon	indicate	
Z494A	Colonoscopy, Hereditary	colonoscopy to	2013
	(e.g. Familial adenomatous	cecum	
	Polyposis or Hereditary		
	Non-Polyposis		
	Colorectal Cancer) or other		
	bowel disorders (e.g.		
	inflammatory bowel		
	disease)		
	associated with increased		
	risk of malignancy - to		
	descending colon		
Z495A	Colonoscopy, follow-up of		2013
	unsatisfactory (poor bowel		
	preparation, incomplete)		
	colonoscopy – to		
	descending colon		
Z496A	Colonoscopy – presence of		2011
	signs and symptoms – to		
	descending colon		
Z497A	Colonoscopy after positive		2011
	FOBT, sigmoidoscopy,		
	barium enema or CT scan		
	<ul> <li>to descending colon</li> </ul>		
Z498A	Colonoscopy, follow-up of		2011
	abnormal colonoscopy:		
	tubular adenomas,		
	advanced adenomas,		
	sessile serrated adenomas		
	- to descending colon		
Z499A	Colonoscopy, family	1	2011

	history associated with increased risk – to descending colon		
Z555A	Absence of signs or symptoms or risk factors, 50 years of age or older - to descending colon*	As described in main text, e.g., Z555A + E740A + E741A + E747A to indicate colonoscopy to cecum	1991
E023C	Anesthesia for ocular surgery, examination under anesthesia, colonoscopy, sigmoidoscopy and cystoscopy	Add to the list of codes in Supplementary Table 2 in order to define anesthesiologistassistance	2011

<sup>\*</sup>Note that Z555A is retained however, definition is changed