

## APPENDIX

Appendix Table 1: Master chart displaying the procedures performed over about 5 years	
Procedure name	Category
Colon ca scrn not hi risk ind	1
Colonoscopy w/biopsy	1
Colonoscopy, diagnostic	1
Colonoscopy, flexibl, proximl to splenic flexure; with biopsy, single or multiple	1
Colonscopy flex; intramural/transmural fna/bxs	1
Colonscopy, flexib, proximl-splenc flexur; dx, w, w/o collctn-specimn-brush/wash	1
Colorectal cancer screening; colonoscopy on individual at high risk	1
Colorectal scrn; hi risk ind	1
Colorectl cancer screening; colonscopy on indivl not meeting criteria-high risk	1
Colonoscopy thru stoma; with biopsy, single or multiple	2
Colonoscope dilate stricture	2
Colonoscopy w/snare	2
Colonoscopy with clip placement	2
Colonoscopy, flexible, proximal to splenic flexure; w/ transendoscopic stent place (w/ predilation)	2
Colonoscopy, ablate lesion	2
Colonoscopy, control bleeding	2
Colonoscopy, flex, proximl to splenic flexure; with removal of foreign body	2
Colonoscopy, remv foreign body	2
Colonoscopy, remv lesn, snare	2
Colonscopy, flex, proximl-splenc flexr; w/contrl-bleedng (e.g., INJC, bipolr CAUT, etc)	2
Colonscopy, flex, proximl-splenc flexur; w/trnsendscpc stent plcmnt	2
Colonscopy, flex, proximl-splenc flexur; remvl-tumrs, polyps by hot biopsy forceps	2
Colonscopy, flex, proximl-splenc flexur; w/ablatn-tumrs, polyps not removl-hot bx	2
Colonscopy, flex, proximl-splenc flexur; w/removl-tumors, polyps by snare technq	2
Colonscopy, flex, proximl-splenc flexure; w/directd submucosl injectn (s), any subst	2
Colorectal cancer screening; flexible sigmoidoscopy	3
Pr hemorrhoidectomy internal rubber band ligations	3
Pr rx certified ehr	3
Proctosigmoidoscopy, rigid; w/ transendoscopic stent place (w/ predilation)	3
Proctosigmoidoscopy, rigid; with biopsy, single or multiple	3
Proctosigmoidoscopy, biopsy	3
Proctosigmoidoscopy, ctrl bleed	3
Proctosigmoidoscopy, decompv volvul	3
Proctosigmoidoscopy, remv, lesn, snare	3
Proctosigmoidoscopy, rigid, diagnos	3
Proctosigmoidoscopy, rigid; with dilation (eg, balloon, guide wire, bougie)	3
Proctosigmoidoscopy, rigid+dilatn	3
Proctosigmoidoscopy; rigid, diagntc, w, w/o collectn-specimen, brush/wash	3
Proctosigmoidoscopy, rigid; w/remvl-single tumor, polyp, othr lesn-snare tech	3
Proctosigmoidoscopy, rigid; with removl-foreign body	3
Proctosigmoidoscopy, rigid; w/ablatn-tumors/polyps, othr lesns not amenabl-rem hot	3
Proctosigmoidoscopy, rigid; w/contrl-bleedng (eg, INJCTN, bipolt CAUT, etc.)	3
Proctosigmoidoscopy, rigid; w/removl-mult tumors, polyps, othr lesns-hot bx forcps	3
Proctosigmoidoscopy, rigid; w/trnsendscpc stent placemnt (includes predilatn)	3
Sig w/balloon dilation	3
Sigmoidoscope w/submuc inj	3
Sigmoidoscopy, flexible; w/ endoscopic ultrasound exam	3
Sigmoidoscopy, flexible; w/ transendoscopic stent place (w/ predilation)	3
Sigmoidoscopy, flexible; w/ transendoscopic ultrasound guided intra-/transmural fine needle aspir/bx	3

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**Appendix Table 1: Contd...**

<b>Procedure name</b>	<b>Category</b>
Sigmoidoscopy, flexible; with directed submucosal injection(s), any substance	3
Sigmoidoscopy, ablate lesn	3
Sigmoidoscopy, biopsy	3
Sigmoidoscopy, ctrl bleeding	3
Sigmoidoscopy, decompress volvulus	3
Sigmoidoscopy, diagnostic	3
Sigmoidoscopy, flexible; w/endoscopic ultrasound examination	3
Sigmoidoscopy, flexible; with biopsy, single or multiple	3
Sigmoidoscopy, flexible; with removal of foreign body	3
Sigmoidoscopy, remv lesn, snare	3
Sigmoidoscopy, remvl F.B.	3
Sigmoidoscopy, flex; w/removl-tumor (s), polyp (s), othr lesion (s) by snare tech	3
Sigmoidoscopy, flex; w/trnsendoscpc stnet placemnt (incl predilatn)	3
Sigmoidoscopy, flex; w/trnsendoscpc ultrasnd guided intramurl/trnsmurl fine needle	3
Sigmoidoscopy, flex w/removl-tumors, polyps, othr lesns-hot bpsy forcps/biplr caut	3
Sigmoidoscopy, flexible; dx, w, w/o collectn-specimn by brushng/washng (sep proc)	3
Sigmoidoscopy, flexible; w/control-bleeding (eg, injctn, bipolr cautry, etc)	3
Sigmoidoscopy, flexible; with decompression - volvulus, any method	3
Sigmoidsc flexible w/abaltn- tumors polyps or other lesions not amend	3
Unlisted procedure, rectum	3
Anoscopy and biopsy	4
Anoscopy and dilation	4
Anoscopy, control bleeding	4
Anoscopy; with biopsy, single or multiple	4
Anoscopy; diagnostc, w, w/o collectn-specimen (s)-brushng/washng (sep proc)	4
Anoscopy; w/removl single tumr, polyps, othr lesn by snare technique	4
Anoscopy; with dilation (eg, balloon, guide wire, bougie)	4
EDG transoral biopsy single/multiple	4
EGD w/duodenum capsule placement	4
Esophagogastroduodenoscopy transoral diagnostic	4
Esophagoscopy flexible transoral with biopsy	4
Esophagoscopy intra/transmural needle aspirat/bx	4
Upr gastrointestinal endoscopy incl esophags, stomch; dx, w, w/o collctn-specims	4
Upr gastrointestinal endoscopy incl esophagus, stomach; w/biopsy, single/multiple	4
Double balloon enteroscopy, diagnostic	5
Double balloon enteroscopy, w/biopsy	5
Double balloon enteroscopy, w/avm abalation	5
Double balloon enteroscopy, w/biopsy and spot injection	5
Double balloon enteroscopy, w/bleeding control	5
Double balloon enteroscopy, w/snare polypectomy	5
Double balloon enteroscopy, w/spot injection	5
Retrograde double balloon enteroscopy, diagnostic	5
Retrograde double balloon enteroscopy, w/biopsy and spot injection	5
Retrograde double balloon with snare polypectomy	5
Retrograde single balloon enteroscopy, diagnostic	5
Retrogradedouble balloon enteroscopy, w/biopsy	5
Retrogradedouble balloon enteroscopy, w/avm abalation	5
Retrogradedouble balloon enteroscopy, w/bleeding control	5
Retrogradesingle balloon enteroscopy, w/biopsy	5
Singel balloon enteroscopy, w/spot injection	5
Single balloon enteroscopy, w/spot injection	5
Single balloon enteroscopy, diagnostic	5
Single balloon enteroscopy, w/biopsy	5
Single balloon enteroscopy, w/avm abalation	5

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**Appendix Table 1: Contd...**

<b>Procedure name</b>	<b>Category</b>
Single balloon enteroscopy, w/biopsy and spot injection	5
Single balloon enteroscopy, w/bleeding control	5
Single balloon enteroscopy, w/snare polypectomy	5
SM intest endoscopy, enteroscopy beyond 2 <sup>nd</sup> prtn-duodnm; w/biopsy, singl/mult	5
SM intest endoscopy, enteroscopy beyond 2 <sup>nd</sup> prtn-duodnm; w/removl tumor	5
SM intest endoscopy, enteroscopy beyond sec prtn-duod; w/cntrl-bleedng (eg, injectn)	5
SM intestinal endo/enteroscopy >2 <sup>nd</sup> portion duodenum, not w/ ileum; w/ transendo stent placement	5
Unlisted procedure, intestine	5
Endoscopic retrograde cholangiopancreatography (ERCP); dx, w, w/o collectn-spec	6
Endoscpc retrogr cholangiopancreatgrph-ercp; w/ablatn-tumrs, polyps, othr lesns	6
Endoscpc retrograde cholangiopancreatgrph (ercp); w/sphincteromy/papp	6
Endoscpc retrograde cholangiopancreatography (ercp); w/biopsy, single/multiple	6
Endoscopic catheterizatn-biliary ductal systm, radiologcl supervsn and interpntn	6
Endoscopic catheterizatn-pancreatc ductal systm, radiologcl supervsn and interp	6
Endoscopic papilla cannulation bile/pancreatic	6
Endoscpc retrogr cholangiopancreatgrp-ercp; w/endscpc retrogr balloon dilatn	6
Endoscpc retrogr cholangiopancreatgrph-ercp; w/endscpc retrgr insertn-tube	6
Endoscpc retrogr cholangiopancreatgrph-ercp; w/endscpc retrgd remvl-foreign	6
Endoscpc retrogr cholangiopancreatgrph -ercp; w/endscpc retrgd insrtm-stnt	6
Endoscpc retrogr cholangiopancreatgrph-ercp; w/endscpc retrg destrctn	6
Endoscpc retrogr cholangiopancreatgrph-ercp; w/endscpc retrogr removl-calculus	6
ERCP destruction/lithotripsy calculi any method	6
ERCP dx collection specimen brushing/washing	6
ERCP remove calculi/debris biliary/pancreas duct	6
ERCP, ablation tumor	6
ERCP, balloon dil ducts	6
ERCP, biopsy	6
ERCP, insert stent, biliary/panc	6
ERCP, rmv F.B./Change stent	6
ERCP, sphincterotomy	6
Esoph funct tst ger nasl cath elec plcmt; prolng	6
Unlisted procedure, biliary tract	6
Diagnostic anoscopy	7
Unlisted procedure, anus	7
Biopsy of liver, needle; percutaneous	8
PR biopsy liver needle percutaneous	8
Hemorrhoidectomy, by simple ligature (eg, rubber band)	9
Replace duod/jej tube perc	9
Replace duodenostomy/jejunostomy tube perq	9
Replace G/C tube perc	9
Replace gastrostomy/cecostomy tube percutaneous	9
Ultrasonic guidance-needle placemnt (eg, bx, aspiratn, etc), imaging-supervsn/interp	9
Sm intest endoscopy, enteroscopy beyond 2 <sup>nd</sup> portn-duod; w/removl tumor-snare	10
Uppr gi endo-esoph/stmch; w/band ligatn-esophagl/gastrc varices	10
Uppr gi endo-esoph/stmch; w/removl-tumors, polyps, othr lesns-snare technq	10
Uppr gi endo-esoph/stmch; w/trnsendscpc stent placemnt (incl predilatn)	10
Change gastrostomy tube	10
Change of gastrostomy tube	10
Dilate esoph, balln, >30 mm achalasia	10
Dilation of esophagus, by balloon or dilator, retrograde	10
Dilation of esophagus, over guide wire	10
Edg balloon dilation esophagus <30 mm diam	10
EDG band ligation esophgeal/gastric varices	10

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**Appendix Table 1: Contd...**

<b>Procedure name</b>	<b>Category</b>
EDG dilation gastric/duodenal stricture	10
EDG flexible foreign body removal	10
EDG insert guide wire dilator passage esophagus	10
EDG intraluminal tube/catheter insertion	10
EDG intrmural needle aspir/biop altered anatomy	10
EDG intrmural us needle aspirate/biopsy esophags	10
EDG percutaneous placement gastrostomy tube	10
EDG removal tumor polyp/other lesion snare tech	10
EDG transoral control bleeding any method	10
EDG transoral transmural drainage pseudocyst	10
Endoscopy, bowel pouch, biopsy	10
Esophagogastroduodenoscopy (egd) with clip placement for closure	10
Esophagogastroduodenoscopy submucosal injection	10
Esophagogastroduodenoscopy us scope w/adj strxrs	10
Esophagoscopy flex balloon dilat <30 mm diam	10
Esophagoscopy flexib lesion removal tumor snare	10
Esophagoscopy flexible guide wire dilation	10
Esophagoscopy flexible removal foreign body	10
Esophagoscopy flexible transoral diagnostic	10
Esophagoscopy, rigid or flexible; with insertion of plastic tube or stent	10
Esophagoscopy, rigid or flexible; with removal of foreign body	10
Esophagoscopy, rigid or flexible; w/band ligation of esophageal varices	10
Esophagoscopy, ablation tumor	10
Esophagoscopy, insert tube/stent	10
Esophagoscopy, rigid/flexible; w/injection sclerosis of esophageal varices	10
Esophagoscopy, rigid/flexible; w/insertn-guide wire followed by dilatn	10
Esophagoscopy, rigid/flex; diagn, w, w/o collectn-specimem (s)-brush/wash (sep proc)	10
Esophagoscopy, rigid/flex; w/ablatn-tumors, polyps, othr lesns, not hot bx, caut	10
Esophagoscopy, rigid/flex; w/control-bleed (eg, injctn, bi/unipolr cautery, lasr)	10
Esophagoscopy, rigid/flex; w/reoml-tumors, polyps, or othr lesns by snare	10
Esophagoscopy, rigid/flex/w/direct submursosal ant sub	10
Esophagoscopy, rigid/flexible; with biopsy, single or multiple	10
Esophagscopy, rigid or flexible; with baloon dilation (less thn 30 mm diameter)	10
Intestine surg procedure unlisted	10
Intraluminal stricture dilation, radiological supervision and interpretation	10
Mucosal banding	10
SB endoscopy, rmvl lesn, snare	10
SB scope, place percut jejun tube	10
SB scope, to ileum, ctrl bleed	10
Small bowel endoscopy, ablate lesn	10
Small bowel endoscopy, biopsy	10
Small bowel endoscopy, ctrl bleed	10
Small bowel endoscopy, past 2 <sup>nd</sup> duod	10
Small bowel endoscopy, remvl F.B.	10
Small intest endoscopy, enteroscopy beynd 2 <sup>nd</sup> prtn-duodnm; w/removl-foreign body	10
Small intest endoscopy, enteroscopy beynd 2 <sup>nd</sup> portn-duodnm/ileum; diagnostic	10
Small intestine endoscopy with balloon dilation	10
Small intestnl endosc, enteroscp beynd 2 <sup>nd</sup> prtn-duodnm; w/trnsendscpc stent place	10
Small intestnl endoscopy, enteroscopy beynd 2 <sup>nd</sup> prtn-duodnm; w/ablatn-tumor, polyp	10
Small intestnl endoscopy, enterscopy beynd secnd portn-duodnm, not incl ileum; dx	10
Unlisted procedure, stomach	10
Up gi endo-esoph/stmch; w/ablatn-tumrs, polyps, othr lesns not amenabl-hot bx	10
Upper gastrointestinal endoscopy inc esophagus, stomach, eithr duodenum/jejunum	10
Upper GI endoscopy, tumor ablatn	10

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**Appendix Table 1: Contd...**

<b>Procedure name</b>	<b>Category</b>
Upper GI endoscopy; w/ transendoscopic stent placement (w/ predilation)	10
Upper GI endoscopy inclesoghags, stomch; w/trnsendosc intralumnl tube/cath placmnt	10
Upper GI endoscopy-esoph/stomch; w/removl-foreign body	10
Uppr gastroinestnl endoscopyw/dir submucosal	10
Uppr gastrointestnl endoscopy, simple primary examinatr (sep proc)	10
Uppr gastrointstnl endoscopy incl esoghags, stomch; w/trnsmurl drain-pseudocyst	10
Uppr GI endo-esoph/stmch; w/dilatn-gastr outlt-obstrctn (eg, balloon)	10
Uppr GI endo-esoph/stmch; w/injectn-sclerosis-esophagl/gastrc varices	10
Uppr GI endo-esoph/stmch; w/balloon dilatn-esoph (less thn 30mm)	10
Uppr GI endo-esoph/stmch; w/control-bleeding, any methd	10
Uppr GI endo-esoph/stmch; w/directd placemnt-percutns gastrstmy tube	10
Uppr GI endo-esoph/stmch; w/insertn-guide wire followd-dilatn	10
Uppr GI endo-esoph/stmch; w/removl=tumor (s), polyp (s), othr lesn (s)-hot bx	10
Uppr gstrntstnl endscpy inclng esphgs, stmch, ethr the ddnm	10
Endoscopy of bowel pouch	11
Endoscpc eval-sm intestn (abdm/pelv)pouch:dx, w, w/o collectn-specimn-brush/wash	11
Lleoscopy thru stoma, biopsy	11
Lleoscopy thru stoma, diagnostic	11
Lleoscpy, thru stoma; diagnostic, w, w/o collectn-specimns-brushng/washng	11
Lleoscpy, thru stoma; with biopsy, single or multiple	11
Lntest endosc, enteroscpc beynd 2 <sup>nd</sup> prtn-duod; w/convrsn-percut gastrstmy tube	11
Lntest endosc, enteroscpc beynd 2 <sup>nd</sup> prtn-duodnm; w/placemnt-percut jejunstmy	11
Retrograde double ballon enteroscopy with spot injection	11
Endoscpc eval-sm intest (abdmn/pelvc)pouch; w/biopsy, singl/mult	11
Uppr GI endo-esoph/stmch; w/trnsendscpc ultrasnd-guide intra/trnsmurl fine ndl	12
EDG US exam surgical alter stom duodenum/jejunum	12
Endoscopic with ultrasnd fna/biopsy	12
Esophagoscopy flexible transoral ultrasound exam	12
Esophagoscpy, rigid/flex; w/endoscopic ultrasound examination	12
Esophagoscpy, rigid/flex; w/endoscpc ultrasnd examinatr	12
Colonoscopy, flexible, proximal to splenic flexure; w/endoscopic us exam	13
Colonscpy flex prox splenic flxure; w/endo us ex	13
Colonoscopy, submucous inj	14
Colonoscopy through stoma w/biopsy	14
Colonoscopy through stoma, diagnostic	14
Colonoscopy through stoma; w/removal of foreign body	14
Colonoscopy thru colotomy	14
Colonoscopy thru stoma; w/control-bleeding (eg, injctn, bi/unipolar cautry, lasr)	14
Colonoscpy thru stoma; diagnostic, w, w/o collectn-specimns-brush/wash (sep proc)	14
Colonoscpy thru stoma; w/remvl-tumr, polyp, othr lesn by hot bx forcep/bipolr caut	14
Colonoscpy, flexibl, proximl to splenic flexure; w/dilatn by baloon, 1 or more str	14

**Appendix Table 2: Simplified procedure list**

Procedure code	Propofol sedation	Conscious sedation	Total
1	7006	16282	23288
2	1611	3192	4803
3	824	2421	3245
4	7956	11599	19555
5	324	163	487
6	3694	1545	5239
7	3	7	10
8	5	1811	1816
9	5	1215	1220
10	4210	3509	7719
11	125	165	290
12	1919	1471	3390
13	7	6	13
14	319	1635	1954
Total	28008	45021	73029

Explanation of the procedure codes