**Marshfield Diverticulosis and Diverticulitis phenotype** November 14, 2012

**Case (Must meet all 3 criteria):**

1. Subject has one or more radiology abdominal CT scan/colon x-ray or colonoscopy/sigmoidoscopy/proctosigmoidoscopy procedures (see Appendix A and Appendix B below for CPT codes).
2. Subject has 1 or more diagnoses of diverticulitis or diverticulosis (see Appendix D below).
3. Subject has diagnosis of diverticulitis or diverticulosis within 0-7 days following CT scan/colon x-ray or colonoscopy/sigmoidoscopy/proctosigmoidoscopy procedure.

**Control (Must meet all 4 criteria):**

1. Subject does not meet case definition above.
2. Subject has no diagnoses of diverticulitis or diverticulosis (see Appendix D below).
3. Subject has one or more colonoscopy procedures (see Appendix C below for CPT codes).
4. No mention of (non-negated) terms (“diverticulitis”, ”diverticulosis”, ”diverticula”, ”diverticular”, “diverticulum”) via NLP term search of the following documents:

Radiology CT scan/x-ray (abdomen/colon) procedures:

Document\_type Content\_type

Radiology Interpretations (72) 108 Radiology Interpretation

Radiology Interpretations (72) 279 RAD CT

Colonoscopy procedures(1):

Document\_type Content\_type

Clinic Procedure Note (33) 526 Colonoscopy

Clinic Procedure Note (33) 29 G.I. Procedure

Clinic Procedure Note (33) 38 Clinic Procedure Note

Clinic Procedure Note (33) 188 Clinic In-Office Procedure Note

Hosp Operative Report (5) 794 Colonoscopy Hosp

1. Limiting NLP term search of colonoscopy procedure documents to Gastroenterology, G.I. Unit, General Surgery, and Ambulatory Surgery departments (Marshfield department numbers 120, 122, 374, 514, 636, 1051, 78, 80, 148, 176, 376, 411, 445, 515, 535, 568, 605, 637, 671, 965).

**Appendix A** – Radiology CT scan/x-ray (abdomen/colon) procedure codes

| CPT\_CODE | CPT\_CODE\_DESC |
| --- | --- |
| 74150 | Ct Abdomen W/O Contrast Material |
| 74170 | Ct Abdomen W/O &W/Contrast Material |
| 74177 | Ct Abdoen & Pelvis W/Contrast Material |
| 74178 | Ct Abdomen & Pelvis W/O Contrst 1/> Body Regions |
| 74160 | Ct Abdomen W/Contrast Material |
| 74176 | Ct Abdomen & Pelvis W/O Contrast Material |
| 74261 | Ct Colonogrphy Dx Image Postprocess W/O Contrast |
| 74262 | Ct-Colongr,Dx;Contr,Non-Con Im |
| 74263 | Ct,Colon.Inc.Image Postprocess742 |
| 74270 | Radex Colon Barium Enema W/Wokub |
| 74280 | Radex Colon W/Spec Hi Dns Barium W/Wo Glucagon |

**Appendix B** – Colonoscopy/sigmoidoscopy/proctosigmoidoscopy procedure codes

| CPT\_CODE | CPT\_CODE\_DESC |
| --- | --- |
| 45300 | Proctosgmdsc Rgd Dx W/Wo Collj Spec Br/Wa Spx |
| 45302 | Proctosigmoidoscopy |
| 45303 | Proctosgmdsc Rigid W/Dilation |
| 45305 | Proctosgmdsc Rigid W/Bx Single/Multiple |
| 45307 | Proctosgmdsc Rigid W/Rmvl Foreign Body |
| 45308 | Proctosgmdsc Rigid Rmvl 1 Lesion Cautery |
| 45309 | Proctosgmdsc Rigid Rmvl 1 Lesion Snare Tq |
| 45310 | Proctosigmoidoscopy |
| 45315 | Proctosgmdsc Rigid Rmvl Mult Tumor Cautery/Snare |
| 45317 | Proctosgmdsc Rigid Control Bleeding |
| 45320 | Proctosgmdsc Rigid Ablation Lesion |
| 45321 | Proctosgmdsc Rigid Dcmprn Volvulus |
| 45327 | Proctosgmdsc Rigid Tndsc Stent Plmt |
| 45330 | Sigmoidoscopy Flx Dx W/Wo Collj Specimens |
| 45331 | Sigmoidoscopy Flx W/Biopsy Single/Multiple |
| 45332 | Sigmoidoscopy Flx W/Rmvl Foreign Body |
| 45333 | Sigmoidoscopy Flx W/Rmvl Tumor Cautery |
| 45334 | Sigmoidoscopy Flx Control Bleeding |
| 45335 | Sgmdsc Flx Dired Sbmcsl Njx Any Sbst |
| 45336 | Sigmoidoscopy,Lesion Removal |
| 45337 | Sgmdsc Flx Dcmprn Volvulus Any Method |
| 45338 | Sgmdsc Flx Rmvl Tum Polyp/Oth Les Snare Tq |
| 45339 | Sigmoidoscopy Flx Abltj Lesion |
| 45340 | Sigmoidoscopy Flx Dilat Balo 1/More Strixs |
| 45341 | Sigmoidoscopy Flx Ndsc Us Xm |
| 45342 | Sigmoidoscopy Flx Tndsc Us Gid Ndl Aspir/Bx |
| 45345 | Sigmoidoscopy Flx Tndsc Stent Plmt |
| 45355 | Colsc Rgd/Flx Tabdl Via Colotomy 1/Mlt |
| 45365 | Colonoscopy And Biopsy |
| 45368 | Fbropt Colonsc W/Control Hemorrag |
| 45370 | Colonoscopy, Lesion Removal |
| 45378 | Colonoscopy Flx Dx W/Wo Collj Specimens |
| 45379 | Colsc Flx Prox Splenic Flxr Rmvl Fb |
| 45380 | Colonoscopy W/Biopsy Single/Multiple |
| 45381 | Colsc Flx Prox Splenic Flxr Sbmcsl Njx |
| 45382 | Colsc Flx Prox Splenic Flxr Ctrl Bld |
| 45383 | Colsc Flx Prox Splenic Flxr Abltj Les |
| 45384 | Colsc Flx Prox Splenic Flxr Rmvl Les Caut |
| 45385 | Colsc Flx Prox Splenic Flxr Rmvl Les Snare Tq |
| 45386 | Colsc Flx Prox Splenic Flxr Dilat Balo 1/> Strix |
| 45387 | Colsc Flx Prox Splenic Flxr Tndsc Stent Plmt |
| 45391 | Colsc Flx Prox Splenic Flxr Ndsc Us Xm |
| 45392 | Colonoscopy W/Transend Us Guid453 |
| G0104 | Ca Screen;Flexi Sigmoidscope |
| G0105 | Colorectal Scrn; Hi Risk Ind |
| G0106 | Colon Ca Screen;Barium Enema |
| G0121 | Colon Ca Scr Not Hi Risk Ind |

**Appendix C** – Colonoscopy procedure codes

| CPT\_CODE | CPT\_CODE\_DESC |
| --- | --- |
| 45355 | Colsc Rgd/Flx Tabdl Via Colotomy 1/Mlt |
| 45365 | Colonoscopy And Biopsy |
| 45368 | Fbropt Colonsc W/Control Hemorrag |
| 45370 | Colonoscopy, Lesion Removal |
| 45378 | Colonoscopy Flx Dx W/Wo Collj Specimens |
| 45379 | Colsc Flx Prox Splenic Flxr Rmvl Fb |
| 45380 | Colonoscopy W/Biopsy Single/Multiple |
| 45381 | Colsc Flx Prox Splenic Flxr Sbmcsl Njx |
| 45383 | Colsc Flx Prox Splenic Flxr Abltj Les |
| 45384 | Colsc Flx Prox Splenic Flxr Rmvl Les Caut |
| 45385 | Colsc Flx Prox Splenic Flxr Rmvl Les Snare Tq |
| 45386 | Colsc Flx Prox Splenic Flxr Dilat Balo 1/> Strix |
| 45387 | Colsc Flx Prox Splenic Flxr Tndsc Stent Plmt |
| 45391 | Colsc Flx Prox Splenic Flxr Ndsc Us Xm |
| 45392 | Colonoscopy W/Transend Us Guid453 |
| G0105 | Colorectal Scrn; Hi Risk Ind |
| G0121 | Colon Ca Scr Not Hi Risk Ind |

**Appendix D** – Diverticulosis/Diverticulitis diagnosis codes

| DX\_CODE\_AND\_DESC | NATIONAL\_CODE\_TYPE |
| --- | --- |
| 562.0 DIVERTICULOSIS, SMALL INTESTINE | HICDA 2 |
| 562.00 DIVERTICULOSIS SM INTEST | ICD 9 |
| 562.01 DIVERTICULITIS SM INTEST | ICD 9 |
| 562.02 DIVERTICULOSIS OF SM INTESTINE WITH HEMORRHAGE | ICD 9 |
| 562.03 DIVERTICULITIS OF SM INTESTINE WITH HEMORRHAGE | ICD 9 |
| 562.1 DIVERTICULITIS, COLON | HICDA 2 |
| 562.10 DIVERTICULOSIS OF COLON | ICD 9 |
| 562.11 DIVERTICULITIS OF COLON | ICD 9 |
| 562.12 DIVERTICULOSIS OF COLON WITH HEMORRHAGE | ICD 9 |
| 562.13 DIVERTICULITIS OF COLON WITH HEMORRHAGE | ICD 9 |
| 562.2 DIVERTICULITIS, SMALL INTESTINE | HICDA 2 |
| 562.3 DIVERTICULITIS, COLON | HICDA 2 |