**Colorectal Cancer Diagnostic Trigger Criteria (CREATE)**

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| Red Flag (Inclusion) Criteria | |  |
| ***Record included if any of the following criteria are identified (date criteria met defines “clue date”)*** | | |
| **#** | **Criteria** | **Data Source & Codes** |
| 1 | Iron Deficiency Anemia, defined as:  ● Hemoglobin (Hb) ≤ 11 g/dl AND  ● Mean Corpuscular Volume (MCV) ≤ 81 fL AND  ● No Ferritin ≥ 100 ng/ml within 12 months before or 60 days after CBC *(i.e., ferritin not checked or result < 100)* | LOINC: 718-7, 30313-1, 30350-3, 30352-9  LOINC: 30428-7, 787-2  LOINC: 2276-4 |
| 2 | OR a Positive Fecal Occult Blood Test (FOBT) or Fecal Immunochemical Test (FIT) result | LOINC:50196, 14563, 14564, 14565, 38527, 38526, 57803, 7905, 56490, 56491, 59841, 57804, 2335, 29771, 56490, 56491, 57804, 59841 |

| Trigger Clinical Exclusion Criteria | | |  |
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| *A record will excluded if any of the following criteria are identified with specific timeframe listed.* | | | |
| **#** | **Criteria** | **Timeframe** | **Data Source & Codes** |
| 1 | Age < 40 and >75 | On clue date | Age Field |
| 2 | Deceased | Within 60 DAYS AFTER clue date | ID listed in mortality database |
| 3 | Previous colorectal cancer diagnosis | Within 1 YEAR PRIOR to clue date | ICD-9:153.xx,154.0,154.1,154.8 |
| 4 | Total colectomy | ANY TIME PRIOR to or 60 DAYS AFTER clue date | CPT: 44150, 44151, 44155, 44156, 44157, 44158, 44202, 44210, 44211, 44212  ICD-9: 45.81,45.82,45.83 |
| 5 | Terminal illnesses *(based on 5-yr survival rates)* | Within 1 YEAR PRIOR to or 60 DAYS AFTER clue date |  |
|  | * Lung cancer | ICD-9: 162.xx, 197.0 |
|  | * Pancreatic cancer | ICD-9: 157.xx |
|  | * Pleural Cancer & Mesothelioma | ICD-9: 163.xx, 197.2 |
|  | * Leukemia (Acute only – ALL excluded) | ICD-9: 205.0, 206.0, 207.0, 207.2x, 208.0 |
|  | * Hepatocellular and intrahepatic bile duct cancer | ICD-9: 155.0, 155.1, 155.2, 197.7 |
|  | * Gallbladder and Biliary cancers | ICD-9: 156.xx |
|  | * Esophageal cancer | ICD-9: 150.xx |
|  | * Gastric cancer | ICD-9: 151.xx |
|  | * Brain cancer | ICD-9: 191.0–191.9, 198.3 –198.4 |
|  | * Uterine Cancer | ICD-9: 179.xx |
|  | * Ovarian cancer | ICD-9: 183.0 |
|  | * Peritoneal, Omental & Mesenteric Cancer | ICD-9: 158.8, 158.9, 197.6 |
|  | * Myeloma | ICD-9: 203.0x, 238.6 |
|  | * Tracheal Cancer | ICD-9: 162.0, 197.3 |
| 6 | Hospice or palliative care enrollment | Within 1 YEAR PRIOR to or 60 DAYS AFTER clue date | ICD-9: V66.7,  Consult with primary stop code 351 or 353 |
| 7 | Evidence of upper GI bleeding:   * Hematemesis * Ulcer of esophagus, stomach or duodenum with bleeding * Esophageal varices with bleeding | Within 6 MONTHS PRIOR to clue date | ICD-9: 578.0  ICD-9: 530.21, 531.0x, 531.2x, 531.4x, 531.6x, 532.0x, 532.2x, 532.4x, 532.6x, 533.0x, 533.2x, 533.4x, 533.6x, 534.0x, 534.2x, 534.4x, 534.6x  ICD-9: 456.0, 456.20 |
| 8 | Colonoscopy performed | Within 3 YEARS PRIOR to clue date | CPT: 44394, 45378-45387, 44387, 45355, 45391, 45392, 44391,44392,44388,44389  ICD-9: 45.23 |
| 9 | Other potential bleeding sources: ***(Iron Deficiency Anemia Only)***   * Menorrhagia * Hematuria * Epistaxis * Uterine , cervical or vaginal bleeding * Hemoptysis * Secondary hemorrhage | Within 6 MONTHS PRIOR to the clue date | ICD-9: 626.2, 626.6, 627.0, 627.1  ICD-9: 599.7x  ICD-9: 784.7  ICD-9: 623.8, 626.8  ICD-9: 786.3x  ICD-9: 958.2 |
| 10 | Pregnancy ***(Iron Deficiency Anemia Only)*** | Within 1 YEAR PRIOR to or 60 DAYS AFTER clue date | ICD-9: V22.0 – V22.2, V23.0, V23.1, V23.2, V23.3, V23.41, V23.49, V23.5, V23.7, V23.81, V23.82, V23.83, V23.84, V23.89, V23.9 |
| 11 | Thalassemia ***(Iron Deficiency Anemia Only)*** | ANY TIME PRIOR to or within 60 DAYS AFTER clue date | ICD-9: 282.4xx |

| **Expected Follow-up (Exclusion) Criteria** | | | |  |
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| A record will **excluded** if any of the following criteria are identified with specific timeframe listed. | | | | |
| **#** | | **Criteria** | **Timeframe** | **Data Source & Codes** |
| 1 | Colonoscopy performed | | Within 60 DAYS AFTER clue date | CPT: 44394, 45378-45387, 44387, 45355, 45391, 45392, 44391,44392,44388,44389  ICD-9: 45.23 |
| 2 | Gastroenterology Referral completed | | Within 60 DAYS AFTER clue date | GI consultation in facilities with Primary Stop Code 307,33 |