Early-Onset Colorectal Cancer (CRC) Executive Briefing

There is an alarming increase in Early Onset Colorectal Cancer (EOCRC) over the last decade. EOCRC is defined as a diagnosis between ages 20 - 49. This briefing has been developed to support our Primary Care Providers (PCPs) in decreasing the incidence and mortality of these young patients through education and prompt evaluation of symptoms.

Current Early-Onset CRC trends:

- 55% increase in CRC in the 20 49 age group since 1995 in the United States.
- The predicted national incidence of colon and rectal cancers among:
 - 20 to 24 year olds will increase by 90% and 124%, respectively, by 2030
 - \circ $\,$ 35 to 49 year olds will increase by 28% and 46%, respectively, by 2030 $\,$
- EOCRC patients are more likely to be diagnosed at stage III or IV
- Patients and PCPs of early-onset CRC are shown to contribute to the delay
 - Young patients may wait an average of six months before seeking care
 - Once evaluated, 15-50% of the time they may experience PCP related delays (i.e. missed symptoms, initial misdiagnosis).
- "Approximately 16% of cases occur in individuals with a hereditary condition, such as Lynch syndrome, and 14% have a family history of CRC. Additionally, a currently undefined portion of this group has a family history of advanced adenomas that would warrant earlier screening.
- Colonoscopy uptake has not been found to explain the increasing incidence rates.
- North Dakota and Iowa have been identified as having higher incidence of EOCRC in the US

Call to action

- Prompt evaluation of symptoms by patients and providers
 - Digestive: Blood in stool/rectal bleeding, change in bowel habits, abdominal discomfort, bloating, nausea, vomiting
 - o Other: Anemia, unexplained weight loss, fatigue, weakness
- Refer young, average-risk, symptomatic patients for endoscopic work-ups to expedite diagnosis
- Start conversations and education earlier about family history and underlying risk factors
 - Note: Family history to include CRC diagnosis *or* adenomatous polyps
- Perform risk-assessment using evidence based algorithm See attached toolkit
- Some practices may choose to offer low-cost stool-based testing to all average risk individuals age 45 49, with the understanding that any positive result will require diagnostic colonoscopy.

Research

- Drivers of early-onset CRC are not well understood
- Family history of colorectal cancer, advanced adenomatous polyps and hereditary syndromes are known contributors to early-onset CRC
- Current areas of study by epidemiologists:
 - Nitrates in drinking water, especially well water in ND
 - Fight CRC has identified the following prioritized risk factors to study:
 - Gene-environment interactions
 - Microbiome, Diet, and Antibiotic use (childhood and lifetime)



Appendix A

References

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National Colorectal Cancer Roundtable Resources Risk Assessment & Screening Toolkit to detect ECRC <u>http://nccrt.org/wp-content/uploads/Introduction-to-the-Toolkit.pdf</u>

https://nccrt.org/resource/risk-assessment-and-screening-toolkit-to-detect-familial-hereditary-and-early-onsetcolorectal-cancer/

Sample Risk Assessment Screening Algorithm https://nccrt.org/resource/sample-risk-assessment-screening-algorithm/

