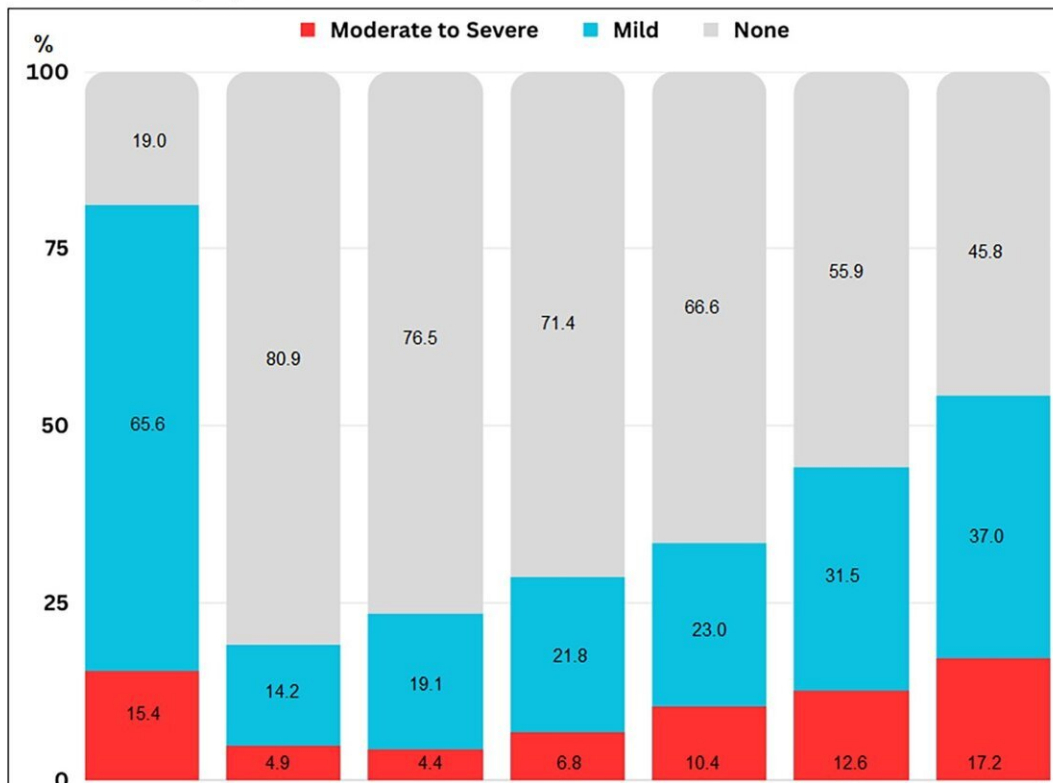


GI symptoms persist in older female colorectal cancer survivors, study finds

August 1 2023, by Emily Caldwell

A. Prevalence of GI Symptoms



GI symptoms in CRC survivors (Prevalence, and severity). A. Prevalence of GI symptoms with mild (blue bar) and with moderate-to-severe symptoms (red bar). Y-axis unit % (prevalence of GI symptoms among 413 colorectal cancer survivors). B. Mean Severity of GI symptoms (Y axis unit 0 ‘none’ to 3 ‘severe’ Likert point scale). N = 413. Credit: *PLOS ONE* (2023). DOI: 10.1371/journal.pone.0286058

More than 4 out of 5 older women survivors of colorectal cancer may be experiencing a range of gastrointestinal symptoms many years after being diagnosed and treated, a new study suggests.

Using data from the [Women's Health Initiative](#), researchers found that 81% of colorectal cancer survivors reported persistent GI symptoms, with abdominal bloating and gas topping the list as the most common and severe problem. The average time since diagnosis was eight years for all participants whose data was used in the study.

The analysis also showed that severe GI symptoms were linked to poor quality of life, interference with daily social and [physical activities](#), and low body image satisfaction.

"Many cancer treatments show great success, and many cancer survivors are living longer than ever before," said lead study author Claire Han, assistant professor of nursing at The Ohio State University. "GI symptoms among survivors have been under-investigated in the past, but we found that they are very prevalent even up to 25 years after diagnosis, suggesting it's very important to consider GI symptom management as part of their survivorship care."

The study was published recently in the journal *PLOS One*.

While depression, anxiety and fatigue are commonly monitored following [cancer diagnosis](#) and treatment, Han said that when she was working as a [nurse practitioner](#), she heard from many colorectal cancer survivors that they were experiencing GI symptoms and having a hard time finding relief.

This secondary analysis cannot identify the reasons for the symptoms, but the location of cancer in the colon and rectum and treatment-related effects on the gut and the microbes living there could be a factor, said

Han, also an investigator in the Cancer Control Program at The Ohio State University Comprehensive Cancer Center.

The study did show that GI symptoms were accompanied by the [psychological distress](#) experienced by many cancer survivors—but whether gut problems were causes or consequences of quality-of-life issues, particularly fatigue, sleep problems, depression and anxiety, could not be determined.

"Cancer survivors with high psychological symptoms may have a higher stress level that could inflame the gut and lead to GI symptoms," Han said. "The causal direction could be bidirectional—which comes first doesn't really matter because both types of symptoms are present."

Data on 413 colorectal cancer survivors for this research came from the Women's Health Initiative's Life and Longevity After Cancer (LILAC) Study involving postmenopausal women who had been diagnosed with certain types of cancer. Their average age was 71 years, with an average age at the time of diagnosis of almost 63. Among the sample, 63.2% had undergone surgery for their cancer, and 34.4% had received multiple treatments, including surgery and chemoradiation.

The secondary analysis included data from questionnaires assessing a variety of measures, including demographics, GI symptoms, non-GI symptoms, dietary habits and physical activity, as well as how these measures affected quality of life.

Han said this is the first study in cancer survivors to document the impact of individual GI symptoms versus considering gut issues all together in a cluster.

Abdominal bloating and gas was reported by 54.2% of participants (17.2% patients reported moderate to [severe symptoms](#)), followed by

constipation (44.1% overall, 12.6% moderate to severe), diarrhea (33.4% overall, 10.4% moderate to severe) and abdominal/pelvic pain (28.6% overall, 6.8% moderate to severe). When all symptoms were combined into a composite score, 15.4% of survivors reported moderate to severe overall GI symptoms.

Being within five years of diagnosis and surviving a stage III cancer were associated with a higher likelihood of reporting persistent GI symptoms. And the severity of depression, anxiety, fatigue and sleep problems was higher in the GI symptom group than in women without GI symptoms.

These and other findings suggest the need for comprehensive interventions for colorectal [cancer survivors](#), Han said, such as psychosocial support, pain management, individualized nutritional counseling and physical rehabilitation.

More information: Claire J. Han et al, Factors associated with long-term gastrointestinal symptoms in colorectal cancer survivors in the women's health initiatives (WHI study), *PLOS ONE* (2023). [DOI: 10.1371/journal.pone.0286058](https://doi.org/10.1371/journal.pone.0286058)

Provided by The Ohio State University

Citation: GI symptoms persist in older female colorectal cancer survivors, study finds (2023, August 1) retrieved 29 April 2024 from <https://medicalxpress.com/news/2023-08-gi-symptoms-persist-older-female.html>

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