

## **Anal sex linked to increased risk of incontinence in both males, females**

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Engaging in the practice of anal sex may increase risks for bowel problems, including fecal incontinence and bowel leakage, according to a University of Alabama at Birmingham Department of Medicine study published in the *American Journal of Gastroenterology*.

The incontinence risk is heightened particularly among [men](#) who have sex with men, according to lead author Alayne Markland, D.O., associate professor in the Division of Gerontology, Geriatrics and Palliative Care in UAB's School of Medicine. The researchers analyzed data from the 2009-2010 National Health and Nutrition Examination Surveys from 6,150 adults. They found 37 percent of women and almost 5 percent of men reported trying anal intercourse at least once. Women engaging in anal sex were 50 percent more likely than their peers to report having [fecal incontinence](#) at least once a month. The men's odds of incontinence were almost tripled.

"The study did not provide data on the frequency of the practice of anal sex and the impact of incontinence, but it did show a relationship between the practice of anal sex and fecal incontinence—more so among men than women," Markland said. "What we don't know is whether someone who has anal sex one or two times is at the same increased risk for fecal incontinence as someone who has anal sex regularly."

Overall, 4,170 adults ages 20-69 (2,070 women and 2,100 men) completed sexual behavior questionnaires and responded to fecal incontinence questions as part of the NHANES surveys. Overall, 8.3 percent of women and 5.6 percent of men in the study had fecal incontinence. Fecal incontinence rates were higher among women (9.9 percent) and men (11.6 percent) reporting anal intercourse than among women (7.4 percent) and men (5.3 percent) not reporting anal intercourse.

Fecal incontinence was determined to have occurred by researchers who reviewed responses to survey questions about leakage of mucus, liquid or stool and occurred at least monthly. The study showed that most adults who experience fecal incontinence have only occasional bouts of diarrhea. However, fecal incontinence can be chronic; it is often caused by muscle and nerve damage around the rectum, constipation, certain

diseases, surgical procedures, and childbirth.

Markland says little is known about how anal intercourse might affect bowel function, even though the survey showed the practice is common among both heterosexual and homosexual couples.

"We really know very little about the connection between anal sex and fecal incontinence, especially among women," Markland said. "Older studies among predominately HIV-positive males showed that men who have sex with men may have impaired rectal muscle strength. But one thing I think this study does show is that it is important that both the patient and clinical provider need to be aware of the potential risks associated with anal incontinence and be willing to discuss what those risks may be."

Markland says previous clinical trials have shown that pelvic floor muscle or anal exercises can be an effective treatment for fecal incontinence, and she recommends those engaging in anal intercourse consider these exercises to help guard against decreased anal sphincter tone.

"These are also known as Kegel exercises," Markland said. "But, doing these exercises has not been studied as a preventive measure for lowering the odds of having fecal incontinence in a general population. All we can do is speculate."

Markland maintains an NHANES data set, and her primary research interest is in incontinence, specifically bowel leakage. She completed the study using indirect funding from several grants.

"I am always looking for potentially modifiable factors that may be related to bowel leakage," Markland said. "Anal intercourse has been understudied in our population in general, and anal incontinence and

[bowel incontinence](#) were evaluated only in men who have sex with men in older studies. I thought we really needed to look at both men and [women](#) and assess the prevalence and associations between [anal intercourse](#) and fecal incontinence in both genders."

**More information:** Alayne D Markland et al. Anal Intercourse and Fecal Incontinence: Evidence from the 2009–2010 National Health and Nutrition Examination Survey, *The American Journal of Gastroenterology* (2016). [DOI: 10.1038/ajg.2015.419](https://doi.org/10.1038/ajg.2015.419)

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