

Sarah L. Chen BA¹, Jacqueline L. Chen MSc¹, Anthony Infantolino MD², Christina Tofani MD² ¹Sidney Kimmel Medical College at Thomas Jefferson University | ²Thomas Jefferson University Hospital, Division of Gastroenterology and Hepatology

Introduction

- The COVID-19 pandemic has placed tremendous stress on patients' physical and mental health worldwide.
- Previous studies have investigated the effect of the pandemic on public interest in elective and screening procedures.^{1,2}
- Purpose:
 - Quantify the effect of COVID-19 on public interest in irritable bowel syndrome (IBS) and its related symptoms during various waves of the pandemic
 - Examine potential differences in public interest in IBS between men and women

Methods

- We used the Google Trends platform and the Google Search Value Index (GSVI) to quantify public interest in IBS topics between Apr 2016 – May 2022.
- We searched the following 4 search terms:
 - Irritable Bowel Syndrome
 - Abdominal Pain
 - Constipation
 - Diarrhea
- Compared public interest in IBS between states with varying vaccine mandate laws
- Compared potential differences in public interest in IBS between men and women using "IBS Men" and "IBS Women"

Public Interest in Irritable Bowel Syndrome Increased in Subsequent Waves of the COVID-19 Pandemic





Nov 2021, and omicron: Dec 2021-Mar 2022), leading to an overall increase in search popularity

• Increase was statistically greater in "IBS women" compared to "IBS Men" (P=0.047)

Discussion

• Search interest in most IBS related topics declined at the onset of the pandemic, indicating heightened focus on COVID-19.

• Interestingly, search interest in diarrhea increased in Mar 2020, as diarrhea was a reported symptom of COVID-19.

• There was a significant increase in public interest in IBS, diarrhea, and constipation post-pandemic compared to pre-pandemic (P < 0.001).

• This subsequent increase in public interest in IBS topics in latter waves of the pandemic suggest that IBS patients faced a greater disease burden during the pandemic.

 Sub-analysis on gender revealed that the pandemic may have disproportionally affected women with IBS compared to men with IBS.

• Future research could examine the incidence of COVID-19 in IBS patients.

References

1. Jella TK, Samuel LT, Acuña AJ, Emara AK, Kamath AF. Rapid Decline in Online Search Queries for Hip and Knee Arthroplasties Concurrent With the COVID-19 Pandemic. J Arthroplasty. 2020 Oct;35(10):2813-2819. doi: 10.1016/j.arth.2020.05.051. Epub 2020 May 26. PMID: 32534864; PMCID: PMC7248628.

2. Chen SL, Yan BM, Infantolino A, Tofani CJ. Public Interest in Colonoscopy and Colon Cancer Decreased Following the Onset of the COVID-19 Pandemic. Dis Colon Rectum. 2022 Feb 1;65(2):133-136. doi: 10.1097/DCR.0000000000002318. PMID: 34784315.