



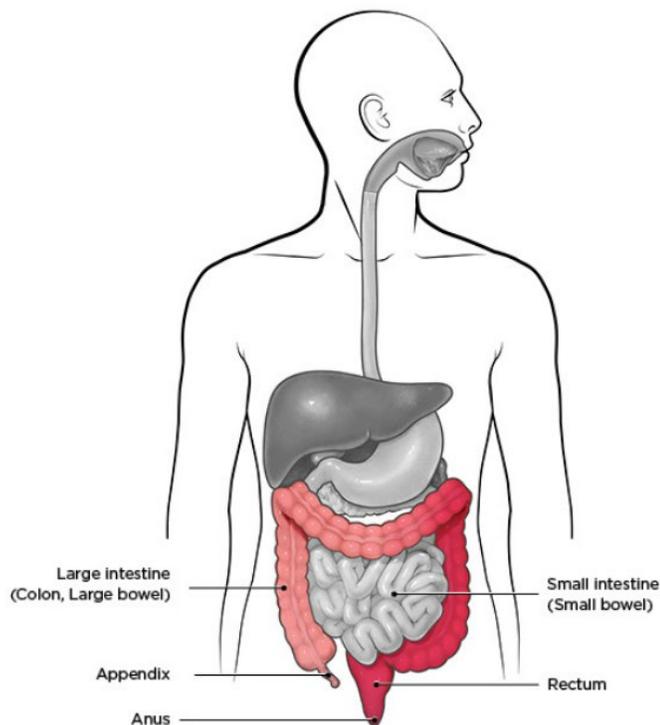
## **Inflammatory Bowel Disease in People of Color: A Need for Better Understanding**

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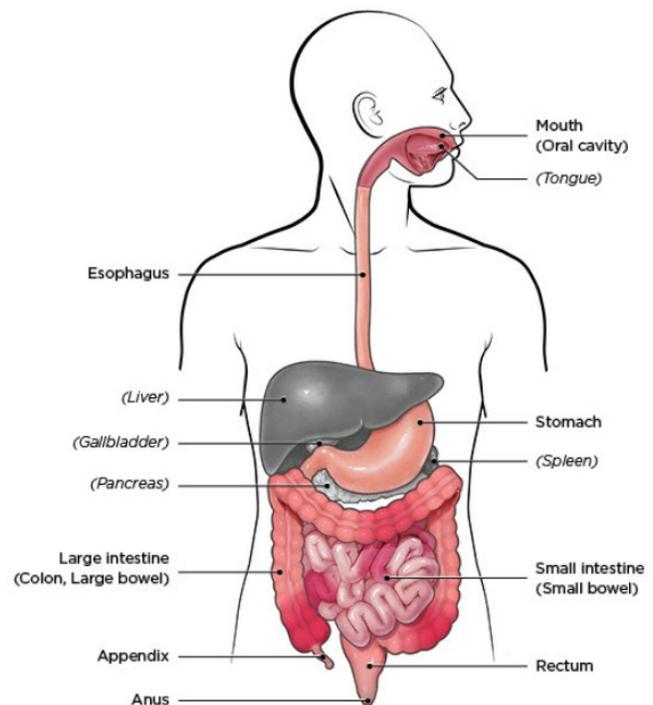
In the U.S., wide disparities exist between Whites and People of Color in the access to and delivery of quality healthcare. This difference is also visible in the Patients Rising community of patients, advocates, caregivers, and partner organizations. Among the most recognizable are the members of the Inflammatory Bowel Disease (IBD) community. Wishing to understand such disparities better, we explored the literature and community blogs. Literature searches in general revealed data to be less than current, while the community's voice was clear and present. This will be the first of several articles in a project to delve deeper into the characteristics of IBD in People of Color (POC).

The goal is to improve understanding, identify obstacles to affordable access to care, and find possible solutions.

### **Ulcerative Colitis**



### **Crohn's Disease**



*Image from U.S. Centers for Disease Control and Prevention (CDC)*

## ***A (VERY) BRIEF OVERVIEW OF INFLAMMATORY BOWEL DISEASE (IBD)***

IBD is an autoimmune, [genetic](#) disease characterized by inflammation in the digestive tract. The most common types of IBD are [Ulcerative Colitis \(UC\)](#), which manifests as both inflammation and ulcers along the superficial lining of the large intestine or rectum, and [Crohn's Disease \(Crohn's\)](#), which manifests as inflammation in the lining of any part of the digestive tract, often involving deeper layers of tissue.

### ***SIGNS AND SYMPTOMS OF IBD***

- Persistent Diarrhea
- Rectal bleeding or bloody stool
- Abdominal pain
- Fatigue
- Weight loss
- Reduced appetite
- Perianal fistulae
- Malabsorption and malnutrition
- Mouth ulcers (Crohn's)
- Eye infections
- Arthritis

### ***HOW IS IBD DIAGNOSED?***

Normally IBD is diagnosed by visual confirmation on an endoscopy (for Crohn's) or colonoscopy (for UC), or on imaging studies (MRI, CT, contrast radiology). Stool samples can also be tested to rule out infection. Blood can be tested to confirm the diagnosis, as with C-Reactive Protein testing (an inflammation marker).

Sometimes there is difficulty determining between Crohn's and UC in biopsies or endoscopic testing. This happens in 10-15% of cases and is called "indeterminate colitis."

### ***HOW IS IBD TREATED?***

Since IBD is largely a disease of inflammation, it is most commonly treated with anti-inflammatories or immunomodulators. [Biologics and biosimilars](#) are also used to treat inflammation specific to IBD.

If IBD is serious enough, it could require surgery to remove the badly damaged portions of the gastrointestinal tract.

### ***WHAT ARE THE RISK FACTORS FOR IBD?***

IBD is usually diagnosed in the relatively young (<30 years old), but can develop as late as someone's 50s or 60s. While it has been held that Whites are at the highest risk of the disease. IBD in People of Color has not been studied or reported as thoroughly and so they may be at similar risk.

### ***WHAT IBD IS NOT***

#### **Irritable Bowel Syndrome (IBS)**

IBS is not an Inflammatory Bowel Disease because IBS is not an autoimmune condition; it does not cause inflammation or tissue damage. Signs and symptoms can include cramping, abdominal pain, bloating, gas, and any combination of diarrhea or constipation, so comparisons are

understandable. The similarity in abbreviations is also unfortunate. But IBS does not cause changes in bowel tissue or increase one's risk of colorectal cancer.

### **Celiac Disease (CD)**

While Celiac Disease (CD) does cause inflammation, it is also not an autoimmune disease and thus not an Inflammatory Bowel Disease. Rather, CD is an immune response to gluten. It causes some similar symptoms including diarrhea, fatigue, and weight loss, but can also cause bloating and anemia. Similar to IBD it can result in malabsorption (inability to absorb nutrients in the intestine) and malnutrition. Removing gluten from the diet can reduce or remove the symptoms of celiac over time.

## ***IBD IN PEOPLE OF COLOR***

### **How Common Is It?**

In 2015, the CDC estimated that 1.3% of Americans (~3 million) had reported being diagnosed with IBD. Of these, non-Hispanic Whites made up the majority. Around that same time, researchers were challenging that perception by, for instance, finding an increasing number of non-Hispanic Black Americans that reported a diagnosis of IBD.<sup>1</sup> Such increases in reporting, diagnosis, and outcomes have been happening across a spectrum of POC.

Overall, the incidence and prevalence of IBD in People of Color is on the rise.<sup>2</sup> A population-based study in 2019 found that from 1970-2010 the incidence rates of IBD for Whites increased by 39% but in POC the increase was 134%.

### **Impact in Different Communities**

*Note: The information provided here does not, by virtue of the language used at the time of publication, use contemporary naming conventions.*

#### **Indians/South Asians:**

A 2015 study from the Clinical Gastroenterology and Hepatology journal found that U.S. patients of Indian origin have a greater risk for all types of IBD than any other American populations including Whites.<sup>3</sup> More broadly, among all South Asians in the U.S., a higher rate of fistulae, perianal disease and rectal pain were seen compared to Whites, but they were diagnosed at an older age than Whites.<sup>4</sup>

#### **Black Americans:**

There are few recent publications of IBD in Black Americans specifically; most look at POC more generally. Yet, research from the early 2000s attempted to better understand the comparative experience of Blacks in comparison to Whites, though they often found rates of disease between the two to be similar. Some investigations found that the extraintestinal manifestations (EIM) of IBD were similar between Blacks and Whites, though there was contrasting findings regarding the rates of perianal disease.<sup>5 6</sup> Blacks with Crohn's were

found to have a greater frequency of IBD-related arthritis and ophthalmological disease (uveitis in particular) compared to Whites.<sup>7</sup>

### **Other Groups:**

A review of studies revealed that Asians and Hispanics (unspecified) tend to present with UC that affects the entire colon (as opposed to isolated sections), and that hospitalization for Crohn's is increasing in Asians in general.<sup>2</sup> Also, Crohn's among Asians in general occurs more commonly in males than females,<sup>6</sup> which is opposite in race-nonspecific findings. UC was diagnosed more in Hispanics than Crohn's,<sup>8</sup> which is consistent with ethnic-nonspecific findings, but Mexican Americans in particular had significantly lower manifestation of joint pain and osteoporosis compared to Whites.<sup>7</sup>

It has been difficult to find epidemiological data on Native Americans or specific subgroups of Asian diaspora.

## ***INEQUITY IN ACCESS TO CARE***

**“The incidence of IBD has been increasing in African American and Hispanic patients in recent decades. But it is harder for these patients, and Black patients in particular, to receive the care they need.”**

*– Gastroenterology & Endoscopy News, 8/19/20*

A systematic review of race and socioeconomic (SES) factors from 2013<sup>9</sup> found disparities in:

- levels of medical and surgical healthcare
- utilization of inpatient and ambulatory medical care
- adherence to medical therapy
- disease perceptions and knowledge

Several studies also identified race-and-SES-based disparities in outcomes for IBD, including in-hospital mortality rates and health-related quality of life. Such disparities impact both the delivery and effectiveness of healthcare for patients with IBD. Studies however seem to remain limited in their ability to identify and correct these issues.

## ***CONCLUSION***

We find that various publications point to a need for better understanding of the lived experiences of IBD in People of Color. The project we are undertaking therefore will look at as many cohorts of POC as we have the capacity to see. We will expand our site by partnering with organizations that are dedicated to these different communities.

Together, we hope to better understand the culture and challenges IBD presents to POC, and more important, find ways to isolate and address those challenges through education and advocacy.

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## **REFERENCES:**

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- <sup>2</sup> *Racial and Ethnic Minorities with Inflammatory Bowel Disease in the United States: A Systematic Review of Disease Characteristics and Differences.* **Anita Afzali, MD, MPH and Raymond K. Cross, MD, MS.** 8, s.l. : Inflamm Bowel Dis, 2016, Vol. 22.
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- <sup>5</sup> *Inflammatory bowel disease and African Americans: A systematic review.* **Mahid SS, Mulhall AM, Gholson RD, Eichenberger MR, Galandiuk S.** 7, s.l. : Inflammatory bowel diseases, 2008, Vol. 14.
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- <sup>8</sup> *Epidemiology of inflammatory bowel disease among an indigent multi-ethnic population in the United States.* **Hoda Malaty, Jason Hou, Selvi Hur.** s.l. : Clinical and Experimental Gastroenterology, 2010, Vol. 3.
- <sup>9</sup> *Systematic Review: The Role of Race and Socioeconomic Factors on IBD Healthcare Delivery and Effectiveness.* **Justin L. Sewell, MD, MPH, Fernando S. Velayos, MD, MPH.** 3, s.l. : Inflammatory Bowel Diseases, 2013, Vol. 19.

## **ADDITIONAL INFORMATION:**

<https://www.mayoclinic.org/diseases-conditions/inflammatory-bowel-disease/symptoms-causes/syc-20353315>  
<https://www.mayoclinic.org/diseases-conditions/celiac-disease/symptoms-causes/syc-20352220>  
<https://www.mayoclinic.org/diseases-conditions/irritable-bowel-syndrome/symptoms-causes/syc-20360016>  
<https://www.cdc.gov/ibd/data-statistics.html>

*This article is part of a larger project to better understand and engage people of color with inflammatory bowel disease. We are proud to be sponsored in part by Takeda Pharmaceutical Company and Janssen Global Services.*