

Inflammatory Bowel Disease Among Canadian Children:

Comparison of children of non-European descent and children of European descent

OUR AIM was to examine ancestry and subtype variations of Canadian children newly diagnosed with Inflammatory Bowel Disease (IBD).

BACKGROUND - IBD has traditionally been known as a disease of industrialized countries, with the highest rates in regions such as Canada, Australia and Northern Europe.

However, more recent studies show incidence of IBD is increasing in other areas, like Asia, Africa and South America. With incidence increasing globally, population-based studies suggest phenotypes and outcomes in IBD may differ between countries and ancestry groups.

STUDY POPULATION

- 1,447 children and adolescents (<17 years) across Canada with new-onset IBD
- 63% of the children were diagnosed with CD; 31% with UC; and 6% with IBD-U
- 68% were European, 9% South Asian, 4% West Central Asian and Middle Eastern, 2% African, 2% East/South East Asian, 10% mixed, 2% Caribbean/Latin/Central/South American, and 3% were other.

DEFINITIONS

Inflammatory Bowel Disease (IBD) is a term for three conditions (Crohn's disease, ulcerative colitis, and IBD-unclassified) that are characterized by chronic inflammation of the gastrointestinal (GI) tract.

Phenotype describes the characteristics of gastrointestinal tract involvement in IBD; these characteristics may include type of IBD as well as location, behaviour and severity of gastrointestinal involvement.

Primary Outcome

Important differences exist between children of European and non-European descent in **age at diagnosis, disease location, family history** of IBD, and **immigrant status**.

Informing Patient Care

We **expanded knowledge** on the limited studies in this area and set the foundation for **next steps of examining differences in treatment response** in different pediatric IBD ancestral groups.

Jeong J, Walters TD, Huynh HQ, Lawrence S, Mack DR, Deslandres C, Otley A, El-Matary W, Sherlock M, Griffiths AM, Wine E, Jacobson K, Church P, Carroll MW, Benchimol EI, Brill H, Critch J, Bax K, Jantchou P, Rashid M, Kaplan GG, Seow CH, Novak K, deBruyn JC; Canadian Children IBD Network. Inflammatory Bowel Disease Among Canadian Children: Comparison Between Children of Non-European Descent and Children of European Descent. *Inflamm Bowel Dis.* 2023 Jan 23;izac276. doi: 10.1093/ibd/izac276. Epub ahead of print. PMID: 36688453.


The Canadian Children Inflammatory Bowel Disease Network

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For more information
on this study see the [IBDJ article](#),
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