# **CROHN'S COLITIS CURE** Iron deficiency with or without anaemia continues to be an issue in inflammatory bowel disease – Crohn's Colitis Cure (CCC) data insight's program

Pinnuck B, Su W, Wilson W, Pipicella J, Ng W, Antoniades S, Walker G, Forbes A, Dutt S, Lynch K, Connor S & Andrews J.

# INTRODUCTION & AIM

- Inflammatory bowel disease (IBD) increases the risk of nutritional deficiencies, particularly iron deficiency (ID), which is due to chronic blood loss from ulceration and intestinal inflammation causing increased iron demand and malabsorption
- Reported rates of ID in IBD cohorts largely vary from 23-90% worldwide, influenced by age, gender, nutritional status and comorbidities.

## **RESULTS - CONTINUED**

- Of those with ID, 26.7% (n=134) had concurrent anaemia - 28% (n=84) in CD, 24% (n=46) in UC, and 4% (n=4) in IBDU).
- In those with ID, the most common form of iron replacement was ferric carboxymaltose (n=45, 74%), yet overall, only 60/502 (12%) with ID were
- ID can occur without anaemia and anaemia is not universally caused by ID

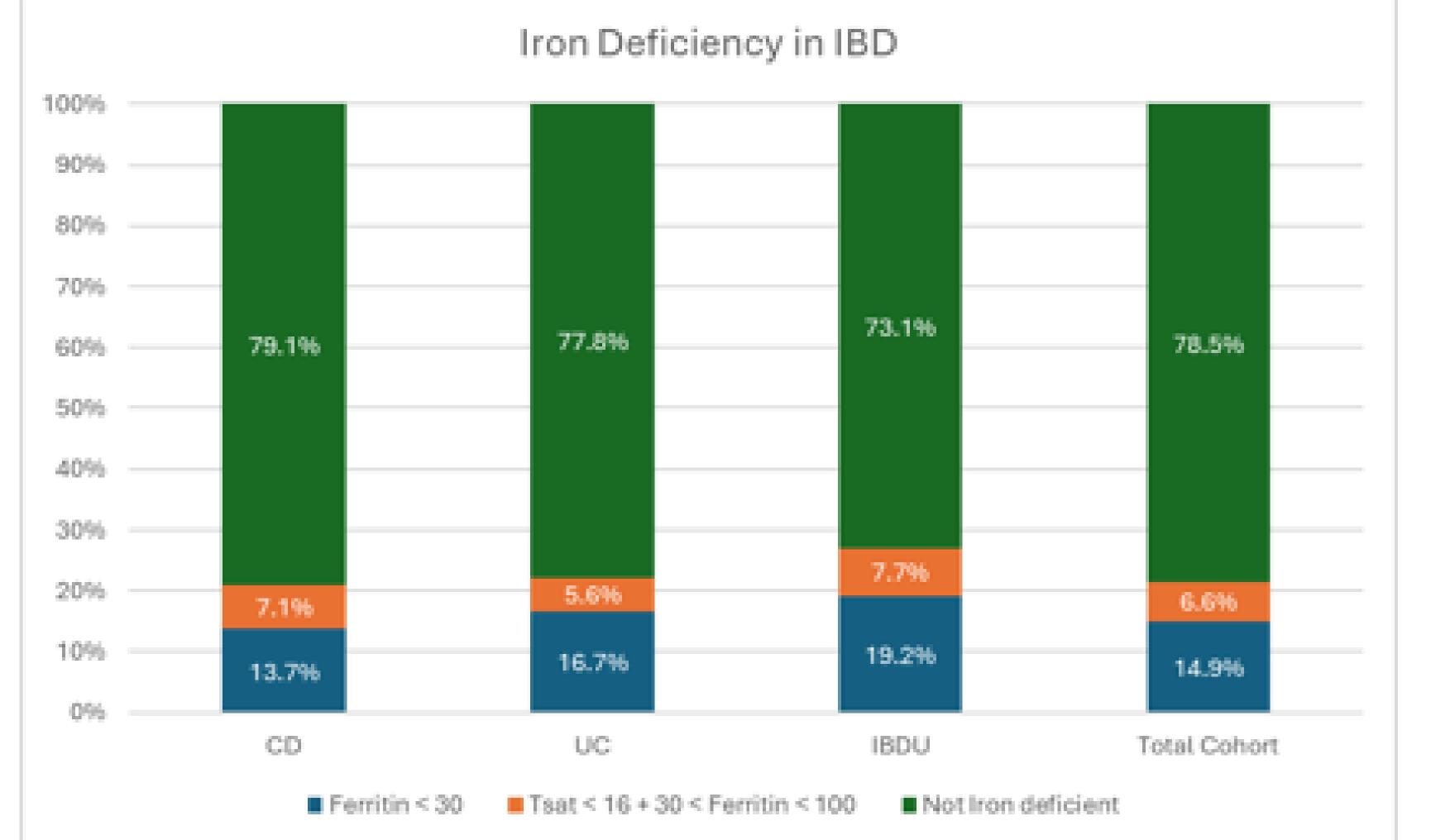
# METHODS

- Crohn's Colitis Care is a cloud-based electronic medical record used in Australasia
- Data feed into a de-identified clinical quality registry (CQR), which was interrogated in April 2024
- People with IBD under active care (encounter within 14 months) were included to explore the prevalence of ID in this cohort
- ID was defined as a serum ferritin level of <30mcg/L or a serum ferritin level 30-100mcg/L and serum transferrin saturation <16%</li>
  Anaemia was defined as a haemoglobin (Hb) of <130 g/L in males and <120 g/L in females.</li>

#### documented to have been given iron replacement.

- A subgroup analysis in those with ID at a single site showed that 45% (n=18/40) were prescribed iron replacement.
- The median C-reactive protein for those with IS was 2.3 (IQR 0.9-4.5).

# Rate of ID comparing IBD subtypes and total cohort for those with IS



## RESULTS

- Cohort under active care included 6,259 people
  - **37.3% (n=2,335)** had iron studies (IS) (serum ferritin and transferrin saturation) and a Hb recorded
  - 87.2% (n=2,037) resided in Australia and 12.8% (n=298) in New Zealand
  - Median age = **41 years** (IQR 30-56)
  - 50.4% were female

# CONCLUSIONS

- ID is more common than ID with anaemia in this large ANZ IBD cohort
- While rates of ID with anaemia are low, it is likely to be impairing quality of life.
- Our data suggest either variation in iron repletion practice between sites or in its documentation;
- Crohn's disease (CD) affected 60.8% (n=1,419), ulcerative colitis (UC), 37.0% (n=864) and IBD unspecified (IBDU), 2% (n=52)
- ID was found in 21.5% (n=502) of those with IS
  - There was an equal rate amongst IBD subtypes; 20.9% 20.9% in CD, 22.2% in UC and 26.9% in IBDU.
- Despite the ease of diagnosis and the importance of managing ID, it remains an area with significant opportunity to improve practice and outcomes.
- Protocolised screening and repletion may be needed to ensure consistency.

For more information contact: info@c-c-cure.org, or visit www.c-c-cure.org