

Abstract #47 (0346_0513_000060)

OBESITY IS MORE COMMON IN CHILDREN NEWLY DIAGNOSED WITH ULCERATIVE COLITIS AS COMPARED TO THOSE WITH CROHN'S DISEASE

Angus Wang, Max Rady College of Medicine, Rady Faculty of Health Sciences, University of Manitoba; **Kanika Grover**, Max Rady College of Medicine, Rady Faculty of Health Sciences, University of Manitoba; **Wael El-Matary**, Max Rady College of Medicine, Rady Faculty of Health Sciences, University of Manitoba

Background:

Inflammatory bowel disease (IBD) is a chronic inflammatory condition of the gastrointestinal tract which comprises of Crohn's disease (CD) and ulcerative colitis (UC). Data on the link of obesity and IBD in children are lacking.

Objective:

This study aims to determine if overweight/obese children with IBD do worse compared normal/underweight patients with IBD.

Methods:

A cohort study of children (<17 years of age) enrolled in the Manitoba longitudinal pediatric inflammatory bowel disease (MALPID) registry between January 2012 and August 2018. The primary outcome was to determine if obese/overweight patients with IBD at diagnosis would relapse sooner than their normal/underweight counterparts. Statistical analysis was performed on STATA and included descriptive statistics and survival analysis using Cox proportional hazard regression model.

Results:

A total of 131 patients were included; 75 (57%) patients with UC and 56 (47%) patients with CD. In the UC group, there were 10 (13%) obese and 7 (9%) overweight patients. In the CD group, there were 5 (9%) overweight and no obese patients ($p=0.037$). Adjusted hazard ratio (aHR) was 2.02 (0.94-4.36) for time to the first relapse in UC patients who were overweight/obese compared to the normal/underweight patients. For CD patients the aHR was 58.22 (3.95-858.01).

Conclusion:

Obesity is more common in children newly diagnosed with UC compared to CD. There was no significant difference in outcomes between obese/overweight patients newly diagnosed with IBD compared to normal/underweight patients.