Adult Intussusception in a Minority Population, Analysis of a Single Center Community Hospital

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BACKGROUND

- Adult intussusception is an uncommon diagnosis, with an incidence reaching up to 5% of all intussusceptions. There are few studies analyzing AI in minority populations, we aim to identify and report the clinical and demographic parameters AI from an Inner-City Hospital.

METHODS

- A retrospective review of adult patients diagnosed with intussusception between March 2019 to December 2022 was performed. Pediatric patients were excluded. Statistical analysis was performed with SPSS.

RESULTS

- A total of 26 adult patients were found to have a diagnosis of intussusception.
- CT scan was used for the initial diagnosis in 100% of the patients, 15.38% underwent a repeat CT scan, 15.38% had a repeat abdominal X ray.

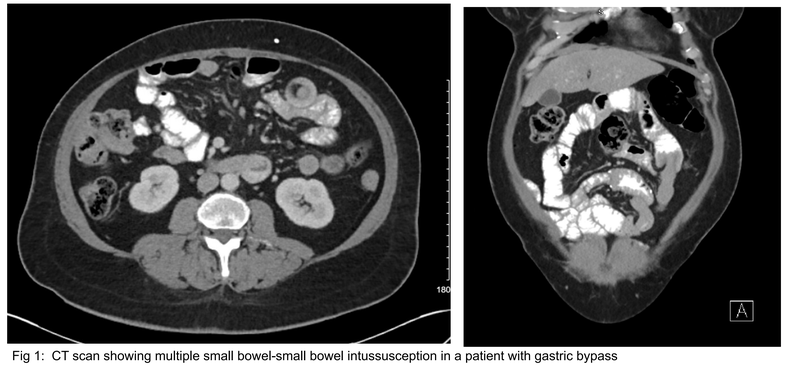


Fig 1: CT scan showing multiple small bowel-small bowel intussusception in a patient with gastric bypass

Tab 1. Patient characteristics

Female	46.15%
Male	54.84%
Mean Age	43.8
Mean BMI	25.25
African American	57.69%
Hispanic	42.30%
Previous bariatric surgery	23.07%
Small bowel- small bowel intussusception	84.61%
Ileocolic intussusception	15.38%

- 30.7% of patients underwent surgical intervention, 50% had an open procedure vs 50% a laparoscopic procedure. The recurrence of intussusception was 11.53%.
- The Mean Dose Length product(DLP) of the group that had one CT scan was 635.69 SD 258.08(330-1438), mean DLP for the group with repeat CT was 1807.75, (692-3157, SD 1284.18).

DISCUSSION

- Adult intussusception is a rare diagnosis, with the wide availability of CT scan, the diagnosis of intussusception has increased.
- The most frequent intussusception was small bowel-small bowel and most of them were managed conservatively.
- After resolution, patients continue to have a significant risk of recurrence. About one third of our patients underwent a repeat radiological study, hence more exposure to radiation.
- Laparoscopic surgery is still underutilized, with only half of the patients undergoing a minimally invasive procedure.