

## A Rare Case of Adult Intussusception Caused By Inflammatory Fibroid Polyp

Dr Vipin Das P.R<sup>1</sup>, Dr K.B Padmarajan<sup>2</sup>, Dr Anagha. P<sup>3</sup>

<sup>1</sup>(MBBS, M.S), (Consultant surgeon, Surgery clinic and speciality hospital, Star lane load, Varkala, Trivandrum)

<sup>2</sup>(MBBS, M.S), (Senior Consultant surgeon, Surgery clinic and speciality hospital, Star lane load, Varkala, Trivandrum)

<sup>3</sup>(MBBS), (Medical officer, Surgery clinic and speciality hospital, Star lane load, Varkala, Trivandrum)

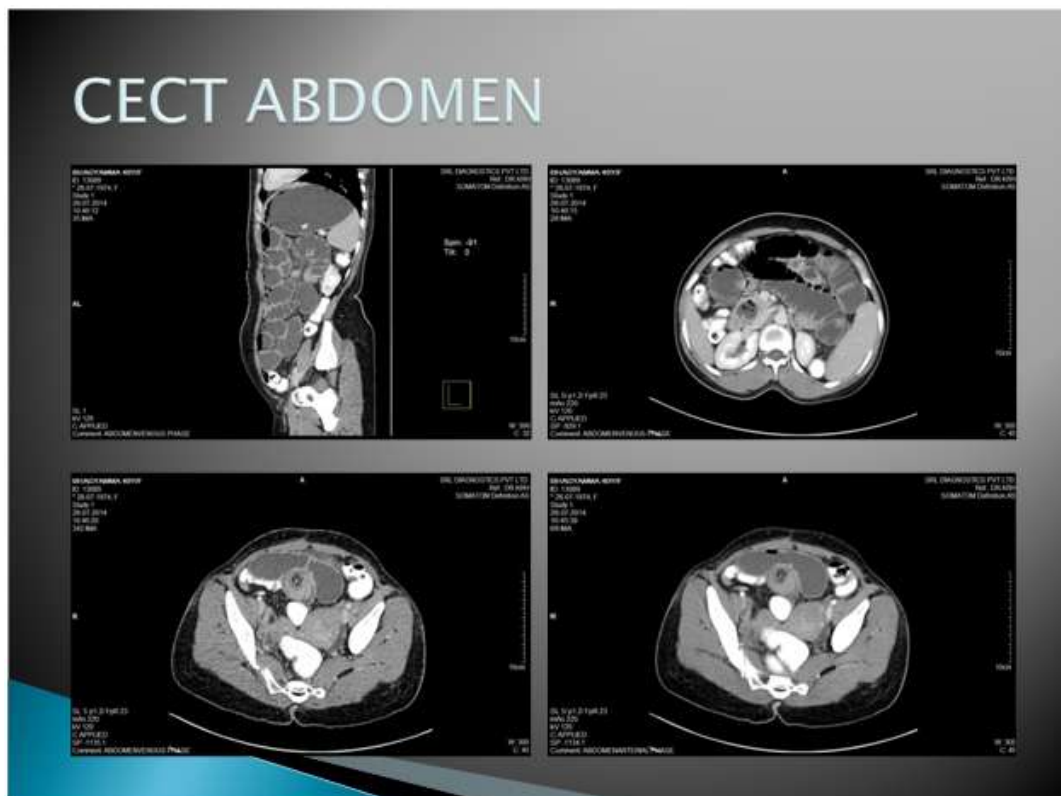
### Abstract:

**Background:** Intussusception is a relatively rare cause of intestinal obstruction in adult patients. Adult invagination is mostly caused by benign tumours. Intussusceptions caused by inflammatory fibroid polyps (IFPs) are uncommon. IFPs (Vanek's tumour) are benign tumour masses occurring in stomach, small intestine and less commonly, large intestine. They can occur at any age & are not related to any medical condition or syndromes.

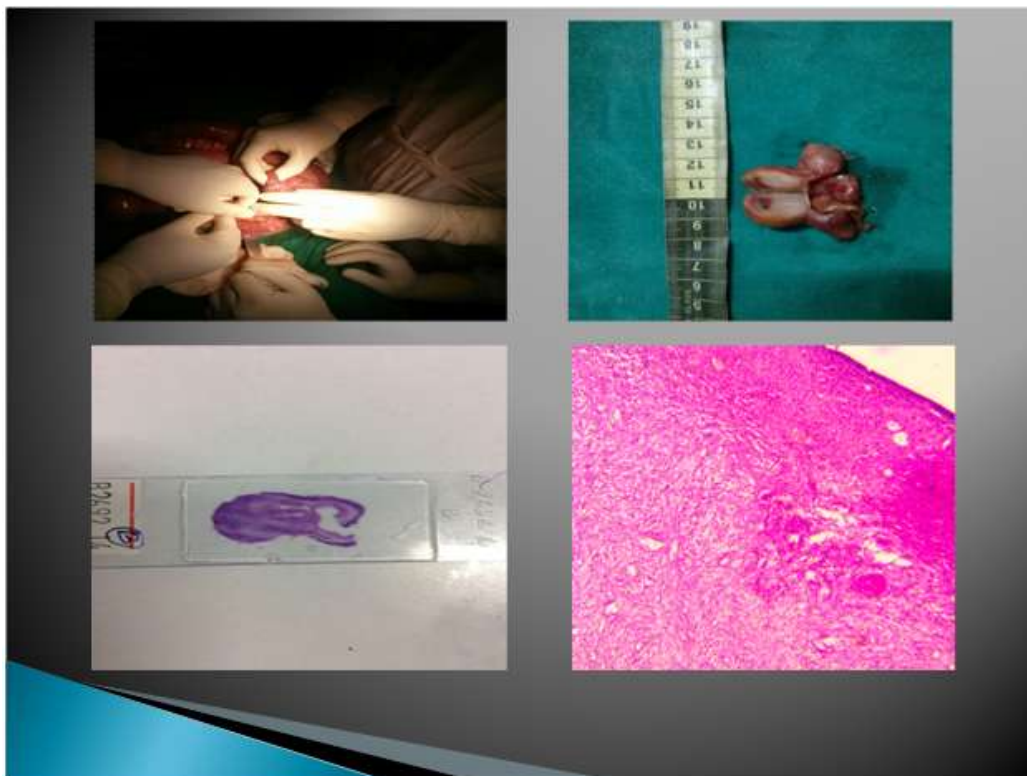
**Keywords:** Intussusception, polyps, inflammatory fibroid polyp, Vanek's tumour

### I. Case Report

We came across a case of intestinal obstruction in a 40 year old female, who presented to our emergency department with 7 days history of pain abdomen, vomiting, abdominal distention & relative constipation. Clinical examination revealed features of acute intestinal obstruction. Erect X-ray abdomen and USG abdomen showed features of small bowel obstruction. CECT abdomen showed ileo-ileal intussusception causing small bowel obstruction with small round intraluminal hypodense lesion at the lead point.



Laparotomy with reduction of intussusception, resection of intussuscepted ileal segment and end to end anastomosis was done. Macroscopic examination of resected segment revealed a firm, circumscribed endoluminal polyp of diameter 2 cms. Microscopic examination showed polyp with surface ulceration & focal benign ileal mucosa. Stroma was composed of fibromyxoid tissue with many proliferating blood vessels, lymphocytes, plasma cells, eosinophils and histiocytes-features suggestive of IFP.



## II. Discussion and Conclusion

Intussusceptions in adults are mostly caused by benign tumours. In adults likely differentials include submucosal lipomas, GIST, inflammatory pseudo tumours, haemangio-pericytomas & haemangio-endotheliomas. Intussusceptions caused by IFPs are uncommon. Despite this being a benign lesion, this one often needs surgical excision on healthy margin. In literature it is also described to have local recurrence, especially when incomplete excision proceeded.

## References

- [1] Stewart D, Hughes M, Hope WW. Laparoscopic-assisted small bowel resection for treatment of adult small bowel intussusception: a case report. *Cases J.* 2008;1:432.
- [2] Chiang JM, Lin YS. Tumor spectrum of adult intussusception. *J Surg Oncol.* 2008;98:444–7.
- [3] Vanek J. Gastric submucosal granuloma with eosinophilic infiltration. *Am J Pathol.* 1949;25:397–411.
- [4] Wysocki AP, Taylor G, Windsor JA. Inflammatory fibroid polyps of the duodenum: a review of the literature. *Dig Surg.* 2007;24:162–8.
- [5] Begos D G, Sandor A, Modlin I M. The diagnosis and management of adult intussusception. *Am J Surg.* 1997;173:88–94.
- [6] Barussaud M, Regenet N, Briennon X, De Kerviler B, Pessaux P, Kohneh-Sharhi N, et al. Clinical spectrum and surgical approach of adult intussusceptions: a multicentric study. *Int J Colorectal Dis.* 2006;21:834–9
- [7] Ileo-ileal Intussusception in an Adult Caused by Vanek's Tumour: A Rare Case Report Bhavuray Teli, Madhu CP, and Shreeharsha MV *J Clin Diagn Res.* Dec 2013; 7(12): 2994–2995.
- [8] Yakan S, Caliskan C, Makay O, Denecli AG, Korkut MA. Intussusception in adults: clinical characteristics, diagnosis and operative strategies. *World J Gastroenterol.* 2009; 15:1985–9.
- [9] Sternberg's *Diagnostic Surgical Pathology*, 5<sup>th</sup> edition, Volume 1 edited by Stephen S. Sternberg, Stacey E. Mills, Darryl Carter; 1590-1592.