

Valley International Journals

International Journal Of Medical Science And Clinical Inventions Volume 2 issue 06 2015 page no. 1085-1088 ISSN: 2348-991X

Available Online At: http://valleyinternational.net/index.php/our-jou/ijmsci

Perforated Jejunal Diverticulum- A Rare Case Report

Dr P.K. Goyal1, Dr Pardeep Chitara2, Dr Sandeep Beniwal3, Dr Anuj Dumra4

1Professor Department of General Surgery Maharaja Agrasen Medical College Agroha (Hisar) Haryana, India (125047)

2,3,4post graduate student, Department of General Surgery Maharaja Agrasen Medical College Agroha (Hisar) Haryana, India (125047)

INTRODUCTION: - Jejunal diveticulum perforation is an uncommon cause of acute abdominal pain in the elderly. Jejunal diverticulum is very rare with an incidence less than 0.5%. Case: - 85 yr old women come with pain abdomen which was investigated and found to as a case of perforation peritonitis. Intra operatively it was found to be a perforated jejunal diverticulum, resection anastomosis was done and post operative period was uneventful.

Conclusion: - jejunal diverticulum perforation can be suspected in a elderly patient having chronic abdominal pain and where other causes of perforation are ruled out.

Introduction – Jejunal diveticulum perforation is an uncommon cause of acute abdominal pain in the elderly [1]. Jejunal diverticulum is very rare with an incidence less than 0.5% [2]. They are the outpouching contain mucosa and submucosa of the jejunum which are defined pathologically as pseudodiveticula of the pulsion type due to weakening of wall or increased intraluminal pressure. Most of the cases are asymptomatic complications occur in 10-30% of case they are divericulitis, obstruction, malabsorption, chronic abdominal pain, haemorrhage, abcess formation and rarerly perforation of diveticulum.[3-5]

Case: - An 85 year old female patient presented to emergency department with chief complaint of generalized abdominal pain for 2 days. On physical examination vital signs were temperature was normal heart rate was 84, B.P was 140/90 and respiratory rate was 22 breaths/min

On abdominal examination signs revealed signs of peritonitis and abdominal tenderness. Laboratory investigations were TLC was normal 6200/mm3 and impaired renal profile blood urea was 179mg/dl, and serum creatinine was 2.23 mg/dl.

Abdominal x-ray (**figure 1**) revealed air under the diaphragm on right side suggestive of perforation.

Patient underwent laprotomy a single jejunal diverticulum with two perforation of pin hole size were present along with pus pockets in the mesentry (**figure 2**). The part of jejunum containing perforations and diverticulum along with mesentry was excised and anastomosis was done in two layers. Peritoneal lavage was done and good postoperative care was given patient recovered very well.

Discussion- Jejunal diveticulum perforation is an uncommon cause of acute abdominal pain in the elderly [1]. Jejunal diverticulum is very rare with an incidence less than 0.5% [2].ieiunal diverticulum arises on mesenteric border where the mesenteric vessels penetrate the jejunum. The exact cause is not known belived to be developed from high segmental intraluminal pressure, abnormal peristalsis and weakening of wall. In most of the cases it is asyptomatic patient may develop chronic abdominal pain.Common acute complications are diverticulitis, perforation, intestinal obstruction, and bleeding[6]. Angiodysplasia in a jejunal diverticulum is also reported which is an unusual cause of lower g.i.t bleed [7]. There is as such no confirmatory diagnostic test plain x-ray abdomen may show evidence of perforation such as free air under the diaphragam, or evidence of intestinal obstruction such as multiple air fluid levels and bowel dilatation. Localized abcess formation, thickening of jejunum or inflammation of jejunum may be visible on C.T scan[8]. Diagnostic laproscopy may be beneficial it help us in making of accurate diagnosis. Currently the treatement of choice for a perforated jejunal diverticulum causing peritonitis is lapoarotomy and the resection of part involved and primary anastomosis[9]. If there are many diverticula then resection is done only of th perforated part in order to avoid short bowel syndrome[10].

Jejunal diveticulosis unlike colonic diverticulosis not involved the surrounding tissue as in our case surrounding gut was normal and depending on the age of patient resection and primary anastomosis was done.

Conclusion- Jejunal diverticulum are very rare but patient may present as acute complication as in our case. jejunal diverticulum perforation can

be suspected in a elderly patient having chronic abdominal pain and where other causes of perforation are ruled out. Once the diagnosis has been made surgical repair is the treatement of choice.

References-

- 1.Koger KE, Shatney CH, Dirbas FM,McClenthan JH. Am Surg.1996 Jan; 62:26-9.
- 2. Zager JS, Garbus JE, Shaw JP, Cohen MG, Garber SM: Jejunal diverticulosis: a rare entity with multiple presentations, a series of cases. Dig Surg 2000,17:643-5
- 3. Akhrass R, Yaffe MB, Fischer C, Ponsky J, Shuck JM: Small bowel diverticulosis: perceptions and reality. J Am Coll Surg 1997, 184:383-8.
- Sibille A, Willocx R: Jejunal diverticulitis. Am
 J Gastroentrol 1992, 87:655-8.
- 5. Wilcox RD, Shatney CH: Surgical implications of jejunal diverticula. South Med J 1988, 81:1386-1391.

- 6. Woods K, Williams E, Melvin W, Sharp K: Acquired jejunoileal diverticulosis and its complications: a review of literature. Am Surg 2008, 74:849-854.
- 7. Eiste C, Adamek HE, Weber W, Arnold JC, Riemann JF: Aktuelle Radiol. 1998, 8:299-301.
- 8. Fintelmann F, Levine MS, Rubesin SE: Jejunal diverticulosis: findings on CT in 28 patients. AJR Am J Roentgenol 2008,190:1286-1290.
- 9. Mattioni R, Lolli E, Barbieri A, D'Ambrosi M: perforated jejunal diverticulitis: personal experience and diagnostic with therapeutical consideration. Anna Ital Chir 2000, 71:95-8.
- 10. Alvarez J Jr, Dolph J, Shetty J, Marjani M: Recurrent rupture of jejunal diverticula. Conn Med 1982, 46:376-8.



Figure 1 (shows air under the diaphragm)



Figure 2 (Shows jejunal diverticulum, perforation)