Abdominal tuberculosis may simulate various diseases and is associated with some diagnostic and therapeutic challenges [1,2,4,8,11,12,13]. It may resemble peritonitis [1,2,4], small or large bowel obstruction [1,4,6,8,11,12,13], or present as an abdominal mass [1,4,8] or ascites. Enterolith is a rare phenomenon encountered on abdominal X-Ray and usually is not the cause of the stricture seen simultaneously. Enterolith is a rare phenomenon encountered on abdominal X-Ray and usually is not the cause of the stricture seen simultaneously. [1,3,6,9,11,12,13]. Perforation and fistulae are other complications which occur in 6-15% of cases [1,4,6].

Calcification of Lymph nodes or the omentum may be seen on X-Ray but with a lower incidence (1.5%) [1]. All of these, per se or together, can make the diagnosis and management difficult.

Introduction
Abdominal tuberculosis may simulate various diseases and is associated with some diagnostic and therapeutic challenges [1,2,4,8,11,12,13].

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Case Report
A 43 year old lady was admitted with continuous pain of the lower abdomen for 15 days accompanied by anorexia, tachycardia and weight loss. She had a history of diagnostic laparotomy 20 years ago due to infertility and the only findings were adhesions and tubal stenosis.

On physical examination, she was conscious but ill, oral temperature was 38.2°C and heart rate = 120/min. There were both tenderness and rebound tenderness on abdominal palpation.

PPD was negative. WBC=12200 with 88% PMN and 11% Lymphocytes; ESR was 55 mm/h. BS= 127, BUN=17, Cr= 0.8, Na= 137, K=4.

Plain abdominal X-Ray showed scattered small calcifications and two large curvilinear ring shaped opaque shadows with translucent centers in the pelvis (Fig. 1).

Acute cholecystitis with cholecystoduodenal...
fistulae, ruptured ovarian teratoma, and bacterial peritonitis were the possible differential diagnoses. At laparotomy, a frozen pelvis, bowel adhesions, omental calcified nodules of various sizes, and two large enteroliths which could not be passed through the stenotic area were our findings.

We initially took biopsies from the calcified nodules, then performed an intraoperative cholangiogram which did not show a cholecysto-duodenal fistula (Fig. 2).

Enteroliths were extracted through an enterotomy performed on a normal part of small bowel.

She has been treated medically with a full course of antituberculous drugs, after pathologic confirmation of tuberculous granulomas.

Three months after discontinuation of medical therapy, she developed classic small bowel obstruction (Fig. 3).

On second Laparotomy, soft adhesion bands were seen between small bowel loops and an obstructive band was present at 30cm from the ligament of Treitz (Fig. 3). A full enterolysis was performed to relieve obstruction and no stricture was found to resect. After five years of normal life, she underwent the third laparotomy for bowel obstruction. An obstructive band from the sigmoid to the jejunum and internal herniation of the ileum was the cause, and although a 23 cm loop of jejunum was resected due to an impression of interloop fistula and stenosis, this was not confirmed by histologic examination.

Discussion
Since abdominal tuberculosis can mimic many surgical diseases, unnecessary surgery may result in mortality and morbidity [7,10].

Due to the 7.5% incidence of fistulae and per-
free perforation and secondary bacterial peritonitis will ensue if unnecessary and additional procedures are performed [6,7,14].

Although enteroliths are associated with significant stenosis, they are not per se, an indication for surgery and all presented cases in the literature had sub acute and partial obstructions [9,11,12,13]. A large series was operated due to underlying stricture [9,11,12,13] but one case who refused surgery [9] and another who passed an enterolith by medical treatment [6] along with our case whose strictures disappeared after medical therapy, indicate that the approach to enteroliths should be medical initially.

Considering the possible complications of surgery and the absence of absolute indications for surgery due to the prevalence of partial rather than complete obstruction, this judgment seems sound.

References