SMALL BOWEL INTUSSUSCEPTION IN PEUTZ–JEGHERS SYNDROME

Challow Piyachon, M.D.*
Phrao Nivatvongs, M.D., F.R.C.S.**

One of the most common presenting in Peutz–Jeghers syndrome (An autosomal dominant inheritance with gastro–intestinal polyposis and mucocutaneous melanic pigmentation) is recurrent attacks of colicky pain which invariably related to intussusception(1,2,5,6). The roentgenologic findings of small bowel intussusception had been clearly described(3,4). But they were still less well known as stated by Wiot and Spyitz who recently had emphasized these findings(8). The purpose of this communication is to present a case of Peutz–Jeghers syndrome and to demonstrate a resolution of the intussusception with oral administration of barium.

Report of a Case

J.N.: A 22 year old Thai woman was admitted to Chulalongkorn Hospital with the diagnosis of Peutz–Jeghers syndrome and history of recurrent attacks of colicky abdominal pain for 4 years. The pain had been relieved by symptomatic treatment. Five days prior to the admission she developed intermittent abdominal pain with occasional vomiting. The symptoms were spontaneously subsided on the day of admission. The physical examination revealed pigmented spots on lips, buccal mucosa, palms and soles. She was anemic with the hemoglobin range between 6 to 7 gm%. The blood examination revealed hypochromic microcytic anemia. Neither of her parents nor her only sister has pigmented spots of the skin or mucosa. Because of the previous abdominal pain, an upper gastrointestinal examination done a year earlier showed multiple polypoid lesions in jejunum (Fig. 1). Barium enema done on the present admission was unrevealing. However, on repeated small bowel study, an early evidence of intussusception was demonstrated on the film at 60 minutes (Fig. 2). Coil spring appearance of intussuscipiens was seen with a narrow central canal. Polyps were observed as leading masses. Progression of the intussusception was appreciated by observing longer segment of the intussusception as well as changing in configuration of the loop on film at 30 minutes later (Fig. 3). Later film (not shown) at 3 hours revealed barium in the colon suggesting the intussusception had spontaneously released. The sigmoidoscopy performed on this admission revealed cluster of multiple small sessile polyps. The biopsy specimen showed hemorrhatomatous malformation on microscopic examination. All her symptoms subsided following the small–bowel study procedure and was discharged home after a month–stay in the hospital.

* Department of Radiology
** Department of Surgery, Faculty of Medicine, Chulalongkorn University and Chulalongkorn Hospital, Bangkok, Thailand.
Fig 1. Upper gastrointestinal series showing multiple polypoid filling defects (arrows) representing polyps of jejunum.

Fig 2. Small bowel series at 60 minutes demonstrating incomplete obstruction. The narrow central canal of the intussusceptum with longitudinal folds is seen (upper two arrows). Coil spring pattern of intussuscipient is seen. Leading masses are seen (lower two arrows).
**Discussion**

The roentgenologic findings in small bowel intussusception following oral administration of barium are characteristics as clearly described by Wiot and Spitz\(^8\). In complete obstruction, the central canal of intussusceptum may be filled, demonstrates a beak like termination. The proximal part of the intestine is dilated.

In an incomplete obstruction a longer segment of narrow central canal is seen with longitudinal folds. Coil-spring pattern is observed if barium passes into intussuscipiens (Fig. 2, 3). These features of incomplete obstruction are well seen in our case. In Peutz–Jeghers patients one or more small bowel intussusception may be identified\(^2\). But in our case serial films demonstrated longer segment of intussusception. This was indicative of further progress of the process and did not represent multiple sites of intussusception. In this case the intussusception was released spontaneously as correlated clinically with disappearance of symptom of abdominal colic. In majority of the patients, the intussusceptions are transient.

In intussusception, mesentery is carried forward invagination of the bowel and is lying between the overlapping layers of the bowel. The mesentery may be long and not easily compressed\(^7\). Therefore, spontaneous reduction of the intus-
susception may be feasible. If however the intussusception persists, surgical intervention is indicated.

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References


