

Congenital Duodenal Web in a Young Adult

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Congenital duodenal web in adult life is an extremely rare condition, which results from an incomplete recanalization of the duodenum during early embryologic development. We report a case of congenital duodenal web in a 23-year-old man who complained of postprandial epigastric pain and fullness, as well as nausea since childhood. The plain abdomen showed a double-bubble sign. The UGI study showed a marked dilatation of the proximal duodenum and a delayed passage of barium into the third portion of the duodenum. Abdominal ultrasonography and CT revealed a marked dilatation of the proximal duodenum and a duodenal web with windsock deformity, which originated from the ampulla of Vater and extended to the third portion of the duodenum. A winsock web with a 0.9 cm eccentric aperture and a healed ulcer proximal to the ampulla of Vater were observed during a longitudinal duodenotomy. The web was excised circumferentially and the duodenum was closed transversely in a Heineke-Mikulicz fashion. (*J Korean Surg Soc* 2003;64:343-347)

Key Words: Congenital duodenal web, Windssock deformity

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(vacuolization) 20,000
 40,000 1
 2% .(1,2) 30% 35% .(3)
 .(1-5)
 1936 Kreig(6)가
 Hudson(7) 1961
 , 1984 Gertch Mosimann(8) Nd
 :YAG laser
 23
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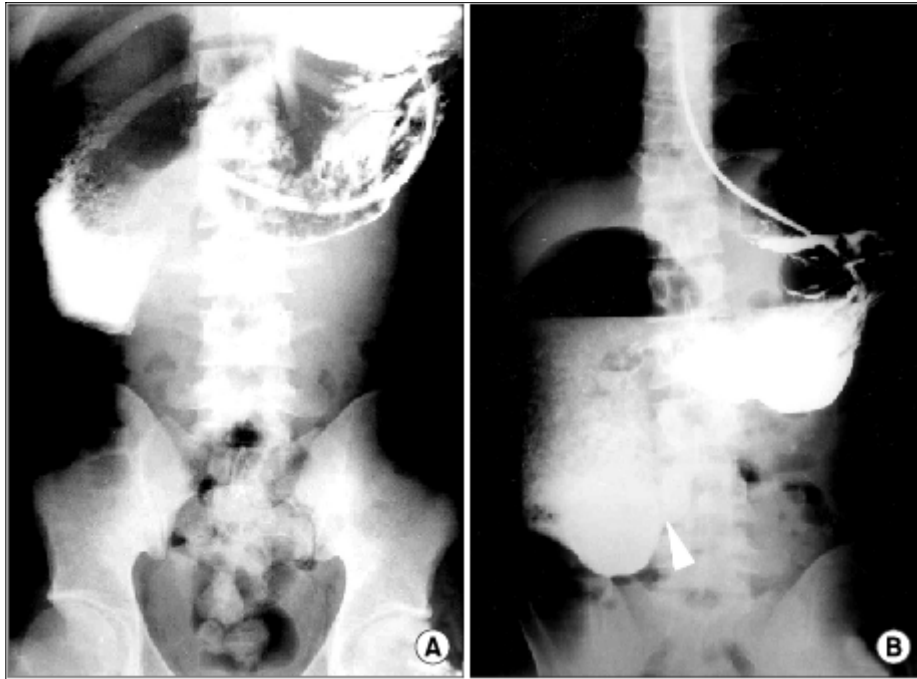


Fig. 1. UGI films show (A) a marked dilatation of the proximal duodenum and an abrupt cut-off of contrast media at the distal part of the second portion of the duodenum, and (B) a delayed passage of contrast media into the third portion of the duodenum through a medial eccentric opening (*arrowhead*) and a double-bubble sign.

가

169 cm, 58 kg
 (body mass index) 20.30 (kg/m²)
 120/80 mmHg, 78 ,
 36.5°C

15.0 g/dl, 44%,
 6,300/mm³ 143
 mEq/L, 5.4 mEq/L, 106 mEq/L
 aspartate aminotransferase 27 IU/L, alanine aminotransferase 20 IU/L,
 0.8 mg/dl ,
 14.0 mg/dl, 1.1 mg/dl

(supine film, Fig. 1A) 2
 (cut-off sign) (erect
 film, Fig. 1B) ,
 3 , 3
 (double lumen)
 (ampulla of Vater)



Fig. 2. Abdominal CT scanning shows a marked dilatation of the proximal duodenum and a duodenal web with windsock deformity (*arrowhead*), which originates from the ampulla of Vater and extends to the third portion of the duodenum.

3 (windsock deformity) (intraluminal diverticulum)
 (Fig. 2).
 , 1 , 2 가
 . Kocher

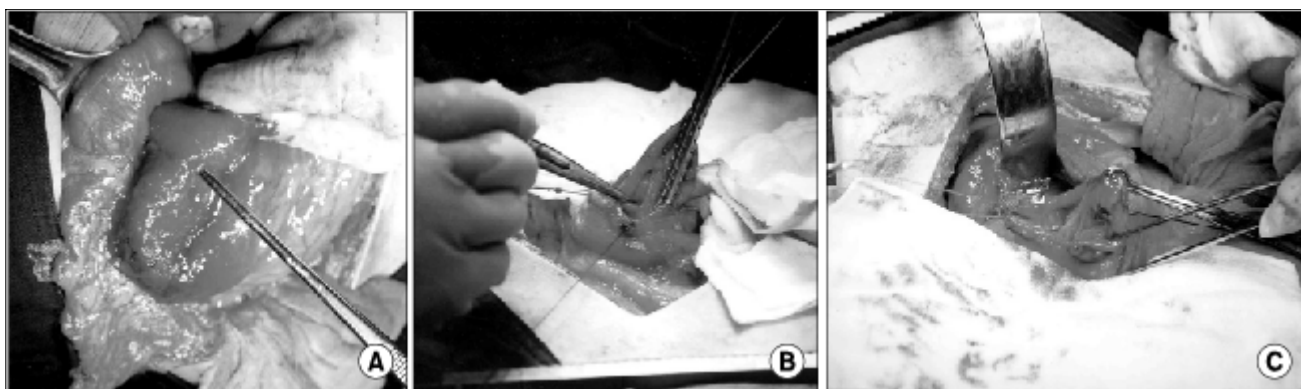


Fig. 3. Operative photographs. (A) During the distal advancement of Levin tube, the attached site of the windsock web is identified as the puckering (*forcep tip*). (B) A windsock web with a 0.9 cm eccentric aperture (*canaled by an opened forcep tip*) is observed through a longitudinal duodenotomy. (C) A probe is intubated the common bile duct through the ampulla of Vater.

2 3

, Levin 2 (puckering) (Fig. 3A).

cm 가 0.9 (windsock defo- (6) 가 , 1961

rmity) 가 (Fig. 3B). Hudson(7) 가 , 1900

(probe) Tandler가 4

3C). 3~0 chromic catgut (Fig. Heineke- 9 (solid epi- (coales-

Mikulicz . 5.5×4.0 cm, thelial core)가 (vacuolization), cence)

0.5 cm . (9) 1937 Boyden

2 8.6 gm/dl, 25.4% , 가

4 . (10) , Boyden Cope

11.5 gm/dl, 34.1% 가 Treitz

75 , , (10)

10 kg 가 .(1,2,4,5)

88

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