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Neonatal ruptured appendicitis the rare manifestations of intestinal immaturity

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ABSTRACT

A late preterm male newborn had concerned a problem of bilious vomiting. He was vaginal delivered at a gestational age 35 weeks 3 days, birth weight 2,095 g. He had suddenly bilious vomiting on his 13th day, and the abdominal radiography showed dilated proximal small bowel, which couldn't exclude a midgut volvulus. Consequently, the upper GI study was examined, and the findings showed upper small bowel obstruction. He was undertaken an emergency laparotomy, there was an inflamed and matted bowel from the distal ileum toward the IC valve with purulent discharge, and unidentified disproportion of the bowel. Hence, a rectal biopsy was undertaken. The pathology report showed that the presence of small nerve plexus without ganglion cells was identified. Because the tissue contained an inadequate submucosa, therefore, Hirschsprung disease couldn't be excluded. After that he couldn't receive a fully enteral feeding and also had constipation, so he was performed serial biopsies in his 44th week. The operative finding was an unidentified transition zone with a normal rectal calibre and multiple stenotic of distal appendix. The appendectomy was performed.

The serial frozen section biopsies were undertaken at the rectum, sigmoid colon, left side colon, transverse colon, appendix, and distal ileum. The frozen pathology report showed that there were no ganglion cells. Therefore, a sigmoid colostomy was created. The colostomy has consequently functioned after the operation, and he was in his average growth and development. He was performed the definite surgery on the day at the age of 6 months 23 days, the frozen pathology report showed unidentified ganglion cells at the rectum so that the sigmoid colostomy was pull downward to anastomose at 0.7 cm. above the dentate line. Then all the pathological slides were reviewed and showed the immaturity of ganglion cells, which were transformed to maturity over time.

BIOGRAPHY

Tawan Imvised has been working as an Assistant Professor of Pediatric Surgery at Thammasat University Hospital, Pathum Thani, Thailand since 2009. Her special areas of interests are pediatrics gastrointestinal surgery and neonatal surgery. Her research Interest is functional intestinal obstruction, which are



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Hirschsprung disease and its allies.

After the graduation from Khon Kaen University (1996 - 2001) and then training of Pediatric Surgery at King Chulalongkorn Memorial Hospital (2005 - 2009), Thailand. She went to participate in a research fellow of Pediatric Surgery and Laboratory at Hannover Medical School, Germany (2013 – 2015). She has been a membership of the Royal College of Surgeons of Thailand and the Association of Pediatric Surgeons of Thailand since 2009.

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