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#### Contents

#### Thrice Monthly Volume 9 Number 29 October 16, 2021

#### **REVIEW**

8627	Time to give up traditional methods for the management of gastrointestinal neuroendocrine tumours
	Yozgat A, Kekilli M, Altay M

#### **MINIREVIEWS**

- 8647 Healthcare practice strategies for integrating personalized medicine: Management of COVID-19 Liu WY, Chien CW, Tung TH
- 8658 Clinical application of repetitive transcranial magnetic stimulation for post-traumatic stress disorder: A literature review

Cheng P, Zhou Y, Xu LZ, Chen YF, Hu RL, Zou YL, Li ZX, Zhang L, Shun Q, Yu X, Li LJ, Li WH

8666 Pros and cons of continuous glucose monitoring in the intensive care unit Sun MT. Li IC. Lin WS. Lin GM

#### **ORIGINAL ARTICLE**

#### **Clinical and Translational Research**

8671 Prognostic implications of ferroptosis-associated gene signature in colon adenocarcinoma Miao YD, Kou ZY, Wang JT, Mi DH

#### **Retrospective Study**

8694 Cefoperazone sodium/sulbactam sodium vs piperacillin sodium/tazobactam sodium for treatment of respiratory tract infection in elderly patients Wang XX, Ma CT, Jiang YX, Ge YJ, Liu FY, Xu WG

8702 Modified Gant procedure for treatment of internal rectal prolapse in elderly women Xu PP, Su YH, Zhang Y, Lu T

- 8710 Clinical and imaging features of desmoid tumors of the extremities Shi Z, Zhao XM, Jiang JM, Li M, Xie LZ
- 8718 Retrospective analysis of surgically treated pT4b gastric cancer with pancreatic head invasion Jin P, Liu H, Ma FH, Ma S, Li Y, Xiong JP, Kang WZ, Hu HT, Tian YT

8729 Development of a random forest model for hypotension prediction after anesthesia induction for cardiac surgery

Li XF, Huang YZ, Tang JY, Li RC, Wang XQ



World Journal of Clinical Cases Contents Thrice Monthly Volume 9 Number 29 October 16, 2021		
8740	Effects of mindful breathing combined with sleep-inducing exercises in patients with insomnia	
	Su H, Xiao L, Ren Y, Xie H, Sun XH	
	Observational Study	
8749	Chronic hepatitis-C infection in COVID-19 patients is associated with in-hospital mortality	
	Ronderos D, Omar AMS, Abbas H, Makker J, Baiomi A, Sun H, Mantri N, Choi Y, Fortuzi K, Shin D, Patel H, Chilimuri S	
8763	Midazolam dose is associated with recurrence of paradoxical reactions during endoscopy	
	Jin EH, Song JH, Lee J, Bae JH, Chung SJ	
	CASE REPORT	
8773	Isolated mass-forming IgG4-related sclerosing cholangitis masquerading as extrahepatic cholangiocarcinoma: A case report	
	Song S, Jo S	
8782	Samonella typhi infection-related appendicitis: A case report	
	Zheng BH, Hao WM, Lin HC, Shang GG, Liu H, Ni XJ	
8789	ACTA2 mutation is responsible for multisystemic smooth muscle dysfunction syndrome with seizures: A case report and review of literature	
	Yang WX, Zhang HH, Hu JN, Zhao L, Li YY, Shao XL	
8797	Whole-genome amplification/preimplantation genetic testing for propionic acidemia of successful pregnancy in an obligate carrier Mexican couple: A case report	
	Neumann A, Alcantara-Ortigoza MA, González-del Angel A, Zarate Díaz NA, Santana JS, Porchia LM, López-Bayghen E	
8804	Is mannitol combined with furosemide a new treatment for refractory lymphedema? A case report	
	Kim HS, Lee JY, Jung JW, Lee KH, Kim MJ, Park SB	
8812	Successful treatment of floating splenic volvulus: Two case reports and a literature review	
	Sun C, Li SL	
8820	Removal of "ruptured" pulmonary artery infusion port catheter by pigtail catheter combined with gooseneck trap: A case report	
	Chen GQ, Wu Y, Zhao KF, Shi RS	
8825	Isolated neutropenia caused by copper deficiency due to jejunal feeding and excessive zinc intake: A case report	
	Ohmori H, Kodama H, Takemoto M, Yamasaki M, Matsumoto T, Kumode M, Miyachi T, Sumimoto R	
8831	Diagnosis and treatment of eosinophilic fasciitis: Report of two cases	
	Song Y, Zhang N, Yu Y	
8839	Familial left cervical neurofibromatosis 1 with scoliosis: A case report	
	Mu X, Zhang HY, Shen YH, Yang HY	



World Journal of Clinical Cases		
Contents Thrice Monthly Volume 9 Number 29 Octob		
8846	Successful treatment after toxic epidermal necrolysis induced by AZD-9291 in a patient with non-small cell lung cancer: A case report	
	Li W, He X, Liu H, Zhu J, Zhang HM	
8852	Anesthesia management in a pediatric patient with Becker muscular dystrophy undergoing laparoscopic surgery: A case report	
	Peng L, Wei W	
8858	Diagnosis of upper gastrointestinal perforation complicated with fistula formation and subphrenic abscess by contrast-enhanced ultrasound: A case report	
	Qiu TT, Fu R, Luo Y, Ling WW	
8864	Adenomyoepithelioma of the breast with malignant transformation and repeated local recurrence: A case report	
	Oda G, Nakagawa T, Mori M, Fujioka T, Onishi I	
8871	Primary intracranial synovial sarcoma with hemorrhage: A case report	
	Wang YY, Li ML, Zhang ZY, Ding JW, Xiao LF, Li WC, Wang L, Sun T	
8879	Lumbar infection caused by Mycobacterium paragordonae: A case report	
	Tan YZ, Yuan T, Tan L, Tian YQ, Long YZ	
8888	Primary intratracheal neurilemmoma in a 10-year-old girl: A case report	
	Wu L, Sha MC, Wu XL, Bi J, Chen ZM, Wang YS	
8894	Ovarian pregnancy rupture following ovulation induction and intrauterine insemination: A case report	
	Wu B, Li K, Chen XF, Zhang J, Wang J, Xiang Y, Zhou HG	
8901	Delayed diagnosis of imperforate hymen with huge hematocolpometra: A case report	
	Jang E, So KA, Kim B, Lee AJ, Kim NR, Yang EJ, Shim SH, Lee SJ, Kim TJ	
8906	Acute pancreatitis with hypercalcemia caused by primary hyperparathyroidism associated with paraneoplastic syndrome: A case report and review of literature	
	Yang L, Lin Y, Zhang XQ, Liu B, Wang JY	
8915	Use of a modified tracheal tube in a child with traumatic bronchial rupture: A case report and review of literature	
	Fan QM, Yang WG	
8923	Isolated liver metastasis detected 11 years after the curative resection of rectal cancer: A case report	
	Yonenaga Y, Yokoyama S	
8932	Severe bleeding after operation of preauricular fistula: A case report	
	Tian CH, Chen XJ	
8938	Secondary aortoesophageal fistula initially presented with empyema after thoracic aortic stent grafting: A case report	
	Wang DQ, Liu M, Fan WJ	



Contor	World Journal of Clinical Cases
Conter	Thrice Monthly Volume 9 Number 29 October 16, 2021
8946	Disruption of sensation-dependent bladder emptying due to bladder overdistension in a complete spinal cord injury: A case report
	Yoon JY, Kim DS, Kim GW, Won YH, Park SH, Ko MH, Seo JH

#### Contents

Thrice Monthly Volume 9 Number 29 October 16, 2021

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Editorial Board Member of World Journal of Clinical Cases, Jiiang-Huei Jeng, DDS, PhD, Professor, School of Dentistry and Department of Dentistry, National Taiwan University Medical College and National Taiwan University Hospital, School of Dentistry, College of Dental Medicine, Kaohsiung Medical University, Taipei 100, Taiwan. jhjeng@ntu.edu.tw

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CASE REPORT

# Delayed diagnosis of imperforate hymen with huge hematocolpometra: A case report

Eunbi Jang, Kyeong A So, Bomin Kim, A Jin Lee, Nae Ri Kim, Eun Jung Yang, Seung-Hyuk Shim, Sun Joo Lee, Tae Jin Kim

ORCID number: Eunbi Jang 0000-0002-4709-4257; Kyeong A So 0000-0002-3566-8436: Bomin Kim 0000-0003-1383-8235; A Jin Lee 0000-0001-5456-5195; Nae Ri Kim 0000-0001-8310-9674; Eun Jung Yang 0000-0001-9826-3519; Seung-Hyuk Shim 0000-0001-8043-2257; Sun Joo Lee 0000-0002-7665-1323; Tae Jin Kim 0000-0002-5322-2745.

#### Author contributions: Jang EB

contributed to manuscript writing and reviewed the literature; Kim BM, Lee AJ, Kim NR, and Yang EJ contributed to acquisition of data and images; Shim SH, Lee SJ, and Kim TJ reviewed images and the manuscript; So KA was responsible for supervision, reviewed and edited the manuscript.

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Eunbi Jang, Kyeong A So, Bomin Kim, A Jin Lee, Nae Ri Kim, Eun Jung Yang, Seung-Hyuk Shim, Sun Joo Lee, Tae Jin Kim, Department of Obstetrics and Gynecology, Konkuk University School of Medicine, Seoul 05030, South Korea

Corresponding author: Kyeong A So, MD, PhD, Assistant Professor, Department of Obstetrics and Gynecology, Konkuk University School of Medicine, 120-1 Neungdong-ro, Gwangjin-gu, Seoul 05030, South Korea. joyfulplace@hanmail.net

### Abstract

#### BACKGROUND

Imperforate hymen is a rare obstructive anomaly of the female reproductive tract. It is associated with complications, such as cyclical abdominal pain, urinary retention, and pelvic mass.

#### CASE SUMMARY

A 13-year-old girl presented several times to the emergency room with lower abdominal pain for a year. She received conservative treatment, such as pain control, at each visit. She visited our gynecological clinic for worsening pain, and a 14-cm hematocolpos was found on ultrasonography. She was finally diagnosed with an imperforate hymen with hematocolpometra. Hymenectomy was performed, which resulted in event-free regular cyclical menstruation.

#### CONCLUSION

Imperforate hymen should be considered in a premenarcheal adolescent girl with periodic abdominal pain.

Key Words: Hematocolpos; Imperforate hymen; Abdominal pain; Amenorrhea; Case report

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Core Tip: Imperforate hymen is a rare obstructive disease of the female reproductive tract. Unlike other congenital anomalies, an imperforate hymen can be diagnosed late in the adolescence. It is important to suspect imperforate hymen in premenarcheal adolescent girls with cyclical abdominal pain.



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## INTRODUCTION

Imperforate hymen is a rare anomaly of the reproductive tract with a prevalence of approximately 0.1% in female newborns[1]. Although an imperforate hymen usually does not accompany other genitourinary tract anomalies, it is associated with severe complications if detected late[2]. Adequate treatment is necessary because complications, such as endometriosis, subfertility, infection, hydronephrosis, and renal failure, can occur in rare cases[3,4]. We report the case of a 13-year-old girl with a huge hematocolpometra and an imperforate hymen.

#### CASE PRESENTATION

#### Chief complaints

A 13-year-old girl visited our clinic with periodic lower abdominal pain.

#### History of present illness

The patient visited the emergency room several times over the previous year due to lower abdominal pain. At each visit, she received conservative treatment, such as pain control. She complained of urinary frequency but no nausea, vomiting, diarrhea, or fever. The lower abdominal pain persisted for 7 d each month with worsening severity of pain over the year. She had not attained menarche.

#### History of past illness

There was no history of past illnesses.

#### Personal and family history

The personal and family histories were unremarkable.

#### Physical examination

The patient's blood pressure, heart rate, and body temperature were within the respective normal ranges. On physical examination, Tanner stage III-IV secondary sexual characteristics were observed. The lower abdomen was mildly distended, and a tender pelvic mass was palpable. On pelvic examination, the hymen was found to be imperforated with bulging of the membrane that completely occluded the vaginal canal. No external genital anomalies were noted.

#### Laboratory examinations

Initial laboratory findings were as follows: Leukocytosis (12150/µL with 80% neutrophils); elevated serum C-reactive protein level (194.4 mg/L; normal range < 3 mg/L); and erythrocyte sedimentation rate was 30 mm/h (normal range < 20 mm/h).

#### Imaging examinations

Initial imaging included transabdominal ultrasonography; it revealed a hypoechoic pelvic mass below the bladder, which was suggestive of hematocolpos (Figure 1A). The vaginal cavity was grossly distended with hypoechoic contents. The uterus was not identified on ultrasonography because of the huge hematocolpos. Magnetic resonance imaging (MRI) revealed severe dilatation of the vagina and uterus with high signal intensity on T1-weighted images and low signal intensity on T2-weighted images. These findings suggested hematometra with huge hematocolpos with no other urogenital abnormalities (Figure 1B).

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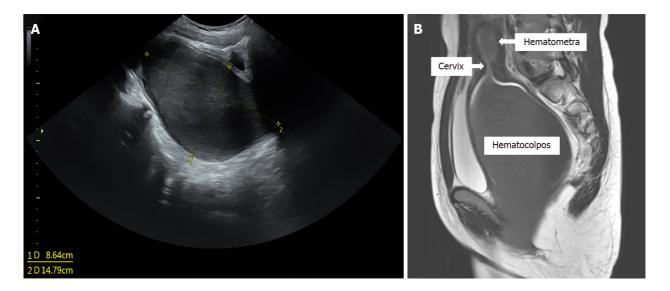


Figure 1 Radiological images. A: Transabdominal ultrasound shows a hypoechoic cystic mass below the bladder (14.79 cm × 8.64 cm); B: Pelvic magnetic resonance imaging shows marked distention of the uterus and vagina with blood clots.

#### **FINAL DIAGNOSIS**

The patient was diagnosed with a huge hematocolpometra with imperforate hymen.

#### TREATMENT

Under general anesthesia, the patient underwent hymenectomy with a cruciate incision on the obstructing membrane. Approximately 800 mL of dark red blood was drained immediately after the incision. After adequate drainage and irrigation, no other abnormalities were found on examination of the vaginal canal. The edges of the incised vaginal mucosa were everted and sutured using 3-0 Vicryl (Ethicon Inc., Somerville, NJ, United States) (Figure 2). Intravenous antibiotics were administered for 3 d after the surgery.

#### OUTCOME AND FOLLOW-UP

The abdominal pain resolved completely after the surgery, and she had regular menstruation subsequently. The uterus and vagina were normal in appearance on follow-up sonography.

#### DISCUSSION

During the later stages of embryonic development, the hymen becomes perforated to connect the uterus with the vaginal canal. A failure of this stage of development results in an imperforate hymen, which is a remnant of mesodermal tissue[4,5]. Imperforate hymen is a rare anomaly of the reproductive tract. Although most cases of imperforate hymen are sporadic, some cases can be due to familial inheritance. A previous report suggested that imperforate hymen can have recessive and dominant inheritance patterns[6]. Most patients with imperforate hymen are asymptomatic until menarche, and early diagnosis is difficult before this period. Abdominal pain is the most common clinical symptom associated with an imperforate hymen. Abdominal pain develops after an asymptomatic period during which the menstrual blood becomes accumulated. The accumulation of blood in the uterus and vagina results in a huge pelvic mass. The frequency of hematocolpos is 0.14% in patients with an imperforate hymen<sup>[7]</sup>. Primary amenorrhea, cyclical abdominal pain, palpable pelvic mass, and non-specific symptoms, such as abdominal distension, constipation, and urinary retention are observed in adolescent girls with an imperforate hymen. The diagnosis of an imperforate hymen can be easily missed without careful history taking



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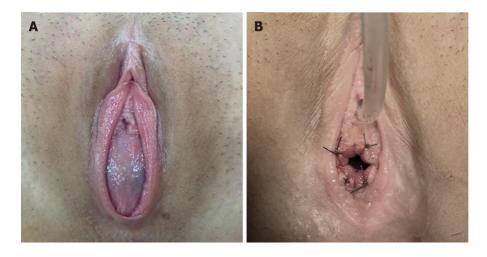


Figure 2 Clinical findings. A: Imperforate hymen shows a bulging and bluish obstructing membrane; B: Surgical findings after hymenectomy using a cruciate incision

and a thorough physical examination. Early diagnosis and appropriate treatment are important because complications, such as endometriosis, subfertility, infection, hydronephrosis, and renal failure, can occur in rare cases[3,4].

Imperforate hymen can be readily diagnosed on pelvic examination. A bluish bulging hymen is observed at the vaginal introitus in patients with hematocolpos. Ultrasound can help in differentiating pelvic cystic masses. Additionally, MRI may help to identify other diagnoses, such as cervical atresia, vaginal septum, and vaginal agenesis<sup>[8]</sup>. Generally, an imperforate hymen is not accompanied by other Müllerian abnormalities. The treatment of choice for an imperforate hymen is surgery, such as hymenectomy (cruciate incision or excision of hymen)[3]. After adequate drainage of menstrual blood and irrigation, the incised vaginal mucosa may be sutured to form a hymenal ring. The possible complications of this procedure include reclosure, vaginal adhesion, and vaginal adenosis[5]. The incidence of recurrence can be reduced by everting the edges of the incised vaginal mucosa[9]. The prognosis following surgery is generally excellent, and the fertility rate in patients with an imperforate hymen is within the normal range.

#### CONCLUSION

Imperforate hymen is a rare obstructive disease of the female reproductive tract. Surgical treatment provides excellent outcomes. Therefore, early diagnosis of an imperforate hymen is essential for successful treatment. Diagnosis of an imperforate hymen can be easily missed without careful history taking and physical examination, which can lead to delayed treatment. It is important to consider imperforate hymen in adolescent girls with cyclical pelvic pain and primary amenorrhea.

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