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ABOUT COVER

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The primary aim of World Journal of Clinical Cases (WJCC, World J Clin Cases) is to provide scholars and readers from various fields of clinical medicine with a platform to publish high-quality clinical research articles and communicate their research findings online.

WJCC mainly publishes articles reporting research results and findings obtained in the field of clinical medicine and covering a wide range of topics, including case control studies, retrospective cohort studies, retrospective studies, clinical trials studies, observational studies, prospective studies, randomized controlled trials, randomized clinical trials, systematic reviews, meta-analysis, and case reports.

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CASE REPORT

Huge Bartholin's cyst managed by primary marsupialization: A case report

Hao-Yu Li, Dah-Ching Ding

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Abstract

BACKGROUND

We report on the case of a 21-year-old female who could not walk due to a huge Bartholin's cyst occupying the right vulvar region. The patient was treated by marsupialization of the Bartholin's cyst and postoperative antibiotic therapy.

CASE SUMMARY

A 21-year-old female without a medical history of sexually transmitted diseases presented to our outpatient clinic with complaints of a painful vulvar lump and a green-yellowish discharge for 4 d. A large Bartholin's cyst, 10 cm in diameter, was suspected over the right side of the vulva. She was advised to be admitted to the ward for intravenous antibiotic treatment and to perform marsupialization several days later. However, the patient requested immediate surgery because of time limitations. The patient underwent marsupialization under local anesthesia. The procedure was well-tolerated. After making the incision, a significant amount of malodorous pus (approximately 30 mL) was removed from the abscess. The patient was followed up for 1 wk postoperatively. The Bartholin's cyst regressed, and the surgical wound healed well.

CONCLUSION

Our case shows that an initial marsupialization followed by oral antibiotic therapy can be an appropriate treatment option for a large Bartholin's cyst. However, depending on the patient's condition, a suitable treatment, either cystectomy or marsupialization, can be considered.

Key Words: Bartholin's cyst; Huge; Marsupialization; Cystectomy; Antibiotics; Case report

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Core Tip: We report on a case of a large Bartholin's cyst. We present updated information regarding the symptoms, signs, diagnosis, and treatment of this condition. Because of the rarity of large Bartholin's cysts, we developed a strategy to diagnose and treat this type of cyst.

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INTRODUCTION

Bartholin's cysts occur when the ducts of the Bartholin's glands are blocked, preventing fluid drainage. This blockage leads to the formation of a fluid-filled cyst. These cysts can vary in size and may or may not cause symptoms[1].

The Bartholin's glands are located on either side of the vaginal opening and respond to vaginal lubrication. The most common symptoms include pain or discomfort in the vaginal area, swelling near the vaginal opening, and sometimes redness or tenderness[2].

The exact cause of a Bartholin's cyst is unclear; however, they can result from infection, trauma, or irritation of the Bartholin's glands. In some cases, they may develop spontaneously without an apparent cause.

A physical examination can be performed to diagnose Bartholin's cysts. In some cases, further tests, such as a biopsy, may be required to rule out other conditions. Bartholin's cysts or abscesses are vulvar lesions in 2%-3% of adult females. Bartholin's cysts are usually 2–4 cm in diameter[3].

Treating large Bartholin's cysts can be controversial in the medical field owing to several factors and considerations^[4]. One controversy is deciding when to intervene. Some doctors argue for immediate surgical drainage to relieve patient discomfort and prevent infection. Others believe in a more conservative approach, opting to wait and see if the cyst resolves independently before pursuing surgical intervention[5].

Treatment options depend on the size of the cyst and the presence of symptoms. Small asymptomatic cysts may not require treatment and can resolve spontaneously. Warm sitz baths and pain relievers can help ease the discomfort. If the cyst is large, painful, or infected, drainage may be recommended, which involves making a small incision to drain the fluid. Surgery to remove the cyst or the entire Bartholin's gland may sometimes be necessary. A simple Bartholin's cyst may require marsupialization and antibiotic therapy is not usually recommended[6].

However, the standard treatment for a large Bartholin's cyst is poorly understood [7,8]. Herein, we report on the case of a 21-year-old female with a large Bartholin's cyst occupying the right vulvar region, which was treated with marsupialization and postoperative antibiotic therapy.

CASE PRESENTATION

Chief complaints

A 21-year-old female presented to our hospital with a 4-d history of a painful vulval lump with green-yellowish discharge.

History of present illness

The patient visited the emergency room because she could not walk owing to the painful vulvar mass and required a wheelchair. She had a sickly appearance. A vulva abscess was suspected, and the patient was subsequently transferred to our outpatient department for further evaluation. Her medical history indicated an absence of recent sexual activity and no reported incidents of trauma or injury. She reported regular menstrual periods and was noted to be nulliparous.

History of past illness

No known drug allergy history was noted. She had no surgical history.

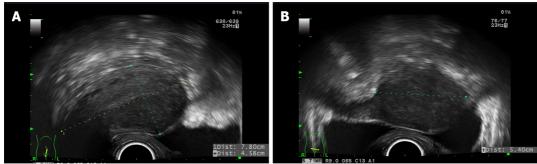
Personal and family history

The patient experienced menstrual cycles lasting approximately 7 d every 28-30 d. No notable medical conditions in her family history existed, and she had no previous history of sexually transmitted diseases.

Physical examination

Vital signs were as follows: temperature of 36 °C; respiration of 16 breaths/min; pulse rate of 58 beats/min; and blood pressure of 95/62 mmHg. No pale conjunctiva was noted. The heart-lung examination was normal. Additionally, no tenderness or rebound pain over the abdomen was noted. A vaginal examination revealed a painful, tender lump on the right side of the vulva, approximately 10 cm in diameter. We observed redness in the area on the right side of the vulva. Additionally, there was a slight green-yellowish vaginal discharge present.





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Figure 1 Pelvic ultrasound. A: Sagittal view of the uterus; B: Coronal view of the uterus.

Laboratory examinations

Complete blood and differential counts were all within normal limits (white blood cell: 9.62 10³/mL, and neutrophil and lymphocyte percentages were 65.4% and 26.0%, respectively). Electrolytes and coagulation profiles were all within normal limits. The above values indicated that no systemic infection was present.

Imaging examinations

Pelvic ultrasound revealed an anteverted 7.8 cm × 4.5 cm × 5.4 cm uterus with a thin endometrium (Figure 1). The adnexa appeared normal.

FINAL DIAGNOSIS

The patient was diagnosed with a large Bartholin's cyst in the right vulvar region (Figure 2A).

TREATMENT

Admission to the ward for initial intravenous antibiotic treatment, followed by marsupialization scheduled for a few days later, was recommended. Nevertheless, the patient declined admission because of time constraints and instead requested immediate surgery. Marsupialization was performed under local anesthesia (Figure 2B and C). The patient was placed in a lithotomy position, and the Bartholin's gland abscess was exposed. Local anesthesia using 1% xylocaine was administered in the introitus area near the Bartholin's duct. A scalpel was used to create an incision in the cyst wall to facilitate fluid drainage and alleviate pressure. After making the incision, a significant amount of malodorous pus (approximately 30 mL) was removed from the abscess. To maintain ongoing cyst drainage into the vaginal cavity, the edges of the incision were sutured using 2-0 Vicryl (Ethicon, Raritan, NJ, United States), effectively forming a small pouch. Oral amoxicillin (500 mg every 8 h) and naproxen (250 mg thrice daily) were prescribed for 1 wk.

OUTCOME AND FOLLOW-UP

The patient was followed up for 1 wk postoperatively. The Bartholin's cyst regressed, and the surgical wound healed well (Figure 2D).

DISCUSSION

In our case, a large Bartholin's cyst occupied the right hemivulvar region and was accompanied by tenderness and purulent discharge. We initially suggested intravenous antibiotic therapy. However, the patient decided to undergo marsupialization. Postoperative oral antibiotics were administered. At the 1-wk follow-up, the vulvar region had a normal appearance upon examination. Initial marsupialization and subsequent antibiotic therapy for large Bartholin's cysts can be an appropriate treatment for this type of case.

Benign vulvar masses are frequently observed in adult women[9,10]. Among these, glandular cysts are the most common[11]. Bartholin's gland lesions, such as cysts and abscesses, are the most prevalent and the primary representations of such lesions. Notably, abscesses occur at a rate three times higher than that of cysts[12].

The Bartholin's glands are small, pea-sized glands located on either side of the vaginal opening, and they are responsible for secreting fluid to lubricate the vaginal area. When the ducts of these glands become blocked or obstructed, a cyst can form[4]. Some common causes and factors that may contribute to developing a Bartholin's cyst include duct





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Figure 2 Bartholin's cyst before and after marsupialization. A: Huge Bartholin's cyst in the left vulval region; B: Marsupialization; C: Left vulval region after marsupialization; D: Postoperative image 1 wk after marsupialization.

obstruction, infection, trauma or injury, hormonal change, foreign bodies, chronic inflammation, and idiopathic causes [13]. In our case, no apparent inflammation existed, as indicated by a normal white blood cell count. Nevertheless, pus was discovered within the Bartholin's cyst, although it had not progressed to systemic inflammation. Incomplete patient-provided information, such as any potential trauma or injury associated with sexual activity, makes it difficult to speculate the cause of this illness. However, we believe that the cyst's substantial size may have originated from an initial duct obstruction, followed by pus formation, possibly in an environment conducive to developing a large cyst within the duct. In this case, the etiology may include idiopathic factors.

The initial approach involves performing an incision and drainage procedure and placing a Word catheter[6]. This procedure provides immediate pain relief by draining the accumulated pus. The Word catheter is typically left in place for 4–6 wk to facilitate epithelization. Alternatively, Jacobi rings can also be utilized for drainage and re-epithelization of the cysts. In a randomized study comparing the treatment of Bartholin cysts using Jacobi rings and Word catheters, similar outcomes were observed, although patients reported greater satisfaction with the rings. However, in the same study, 4%–17% of cases experienced recurrence when the catheter was left in place, and premature dislodgment of the catheter before epithelialization of the tract was common[14]. This treatment approach may not be advisable for deep cysts and abscesses[14]. Antibiotics are not routinely administered because cultures from Bartholin's cysts are sterile in > 80% of all cases, and approximately 33% of cultures from Bartholin's abscesses also show no bacterial growth[12].

Another commonly employed method for treating Bartholin gland cysts involves marsupialization, which entails making a small incision, typically 1.5–3 cm, directly over the cyst, allowing for the drainage of accumulated secretions[4]. In a randomized prospective study (2009) involving 83 women who underwent marsupialization, the most frequently reported postoperative symptoms included discharge at the surgical site and swelling of the labia[15]. Additionally, 24.1% of patients experienced recurrence; scar formation occurred in 68.7% of cases[16].

Other therapies, including alcohol sclerotherapy, silver nitrate sclerotherapy, and incision and drainage, can also be used[15].

In a randomized prospective study (2009) that compared marsupialization with the application of silver nitrate in treating Bartholin's cysts and abscesses, both methods appeared to be equally effective[15]. However, using silver nitrate resulted in complete healing with less scar formation.

In a 2012 study that explored the management of Bartholin's cysts using CO_2 laser vaporization, out of 127 patients, only 86.6% were cured after a single laser treatment. The cyst sizes in this study ranged from 1.5–5.0 cm[17]. Managing larger cysts with CO_2 laser ablation has not been extensively discussed in the literature.

In a systematic review conducted in 2020, the authors concluded that all available treatments for Bartholin's cysts were associated with lower recurrence rates, faster healing, and minimal adverse events^[2]. However, the optimal treatment approach for larger cysts has not been definitively identified in the existing literature.

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Table 1 Review of the previous literature regarding huge Bartholin cysts					
Ref.	Size	Treatment	Pathology		
Kozawa <i>et al</i> [18], 2008	10 cm × 9 cm	Cyst excision	Bartholin cyst		
Díaz de la Noval <i>et al</i> [7], 2019	10 cm × 8 cm	Cyst excision	Dermoid cyst		
Kallam et al[12], 2017	10 cm × 7 cm	Cyst excision	Infected Bartholin cyst with hemorrhage		
	23 cm × 11 cm, 6 cm × 6 cm	Cyst excision	Dermoid cyst		
Karaman <i>et al</i> [9], 2015	11 cm × 8 cm × 10 cm	Cystectomy	Epidermoid cyst		
Lilungulu <i>et al</i> [5], 2017	10 cm	Antibiotic treatment for 1 wk, then Marsupial- ization	None		
This study, 2023	10 cm	Marsupialization	None		

Nevertheless, the treatment of huge Bartholin's cysts is not well understood. We reviewed case reports, and only five patients with giant Bartholin's cysts were reported (Table 1). Four cases underwent total Bartholin's cyst excision, and one underwent marsupialization. Kozawa et al[18] (2008), Kallam et al[12] (2017), and Karaman et al[9] (2015) suggested that excision is the best way to treat large Bartholin's cysts. Moreover, in another report, Noval et al[7] (2019) also suggested cyst removal. Lilungulu et al[5] (2017) suggested that marsupialization is an effective method for treating large Bartholin cysts. All patients in the previous reports received broad-spectrum antibiotics after surgery, and no recurrence was noted. Regarding the treatment time for a large Bartholin cyst, most case reports recommended to commence promptly. Only one case report[5] prescribed 1 wk of antibiotics before marsupialization. In our case, marsupialization was performed immediately, followed by 1 wk of oral antibiotics.

A limitation of our report is that the findings of this single case may not be universally applicable to all other patients. Gathering data from a more extensive case series in the future may be beneficial.

CONCLUSION

While Bartholin's cyst abscesses typically present as a vulval mass, those involving a giant cyst, as seen in our case, are exceptionally rare. The approach to managing these cases may differ from standard presentations depending on the discomfort level experienced by the patient and the size and extent of the mass. A diagnosis can often be made through a physical examination. Surgical management involving marsupialization with antibiotic prophylaxis remains the definitive treatment.

FOOTNOTES

Author contributions: Ding DC contributed to the conceptualization, methodology, formal analysis, writing of the original draft, review and editing; Li HY contributed to data curation and writing of the original draft; All authors have read and agreed to the published version of the manuscript.

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