Leiomyoma of the vagina: Report of two cases

Vajina leiyomiyomu: iki olgu sunumu

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Abstract
Leiomyoma of the vagina is an uncommon neoplasm, but they are the most common mesenchymal tumors of the vagina. In this article, we present two cases of vaginal leiomyoma at 39 years old and 75 years old. The tumors were easily excised totally with a vertical incision through the vaginal wall with the vaginal approach. Surgical excision is the most chosen treatment of these tumors. A urethral catheter may aid in dissection and help to prevent urethral injury.


Key words: Leiomyoma of the vagina, surgical excision, histological examination.

Introduction
Neoplasms of the vagina are not frequent, and most are benign. Leiomyoma and fibroma are rare tumors. They are the most common mesenchymal tumors of the vagina. The tumors may be found in any location within the vagina, but they are most commonly located on the anterior wall, and least commonly on the lateral vaginal wall. Their size varies from 0.5 to 15 cm [1]. We report two cases of vaginal leiomyoma which could not be diagnosed clinically but only on histological examination.

Case 1
A-39- year-old multigravid woman presented to the gynecology outpatient clinic, with a-10-day history of left groin pain, discharge, dysparunea. She had no urinary or defecation difficulties. She had five vaginal deliveries, one miscarriage and two legal abortions. Otherwise her general medical history was unremarkable. There was a round-shaped, mobile, painless mass, about 2 cm, on the left lateral vaginal wall on gynecologic examination. There was no cystourethrocele, rectocele, enterocele or uterovaginal prolapse. Chronic cervicitis was detected. Uterus and adnexia was

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unremarkable. Under general anesthesia the mass was easily excised totally with a vertical incision through the left lateral vaginal wall with vaginal approach (Figure 1A and 1B). Single-layer closure was performed and she was discharged without further symptoms.

Gross pathological examination of the vaginal mass showed a 2 x 2 x 1.5 cm oval, whitish, firm nodule and there was no area of hemorrhagia, necrosis, or degeneration on the surface of it. Histologic examination showed the mass was not encapsulated, consisted of a uniform population of spindle smooth muscle cells arrayed in an indistinct fascicular pattern, with eosinophilic cytoplasm. There was no cellular atypia or mitotic activity (Figure 1C).

Case 2

A 75 years old multigravid woman presented to the gynecology outpatient clinic with a history of a palpable mass hanging out of the vagina. She had no urinary or defecation difficulties. She had five vaginal deliveries. Her general medical history was unremarkable. There was total uterovaginal prolapsus and a round-shaped, mobile, painless mass, about 2 cm, on the anterior vaginal wall on gynecologic examination. Uterus and adnexa was unremarkable. Under spinal anesthesia after vaginal hysterectomy, the mass was easily excised totally with a vertical incision through the anterior vaginal wall with vaginal approach and cystocele was repaired. Single-layer closure was performed and she was discharged without further symptoms.

Gross pathological examination showed a vaginal mass of 1.8x1.0x0.8 cm size. The cut surface was white, firm and rubbery texture composed of whorled bundles. Microscopic examination revealed fusiform smooth muscle cells with abundant pink cytoplasm and spindle-shaped nuclei (Figure 2A). The chromatin was uniformly dispersed and nucleoli was small and inconspicuous. Mitotic figures were rare (Figure 2B).
Leiomyoma of the vagina

Discussion

Vaginal leiomyomas are benign smooth muscle tumors in the vagina, and extremely rare [2,3]. But uterine leiomyomas are common and may present clinically in 20-30% of females. In fact 75% of women have these benign tumors following careful histologic examination of the uterus [4]. Some authors think that vaginal leiomyomas develop from deeply penetrating uterine leiomyomas which subsequently become detached from the uterus. And some of the others postulate that they arise from vascular smooth muscle or embryonal cell rests within the vagina [5,6].

These tumors are most often found in Caucasian women [7]. Since the first report by Denys de Leyden in 1733, approximately 300 cases of vaginal leiomyoma have been reported worldwide. Bennett and Ehrlich found only nine cases in 50,000 surgical specimens and only one case in 15,000 autopsies reviewed at Johns Hopkins Hospital [8].

Leiomyoma of the vagina occurs most frequently between the ages of 35 and 50. Though the tumor begins at a much earlier age, slow growth characteristic of the tumor and the good distensibility of the vagina results in production of symptoms and awareness of the mass only around the age of 40 [3,9].

Usually the tumor is located in the anterior vaginal wall, and less commonly in the lateral walls like our case [9]. No correlation is shown between the occurrence of leiomyomas in the vagina and any other sites like the uterus [3]. These tumors generally produce mobile, pain-free and well defined bordered masses. Most vaginal fibromyomata vary between 1 and 5 cm, but some may reach 10 cm in size and weigh up to 1450 g. A careful histological examination is essential to exclude malignancy since malignant transformation is more common in extra uterine leiomyomas [9]. A 9.1% incidence of sarcoma, in a series of 11 cases with vaginal leiomyoma was reported [3,10].

Vaginal leiomyomas have variable clinical presentations such as; pelvic pain, bladder outlet obstruction, constipation, difficulty with coitus, dyspareunia or frequency, urgency, dysuria, urinary retention and incontinence [9-12]. Patients are commonly asymptomatic in the early stages [1]. Ulceration with subsequent necrosis, purulent discharge and bleeding are the other rare symptoms [3,10].

Vaginal surgical enucleation is the preferred treatment, but careful histological examination is required to exclude malignancy. A urethral catheter may aid in dissection and help prevent urethral injury.

Conflict of Interest: The authors report no conflict of interest.

References