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RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: Ying-Yi Yuan, Production Department Director: Xu Guo, Editorial Office Director: Jin-Lei Wang.

NAME OF JOURNAL

World Journal of Clinical Cases

ISSN 2307-8960 (online)

LAUNCH DATE

April 16, 2013

FREQUENCY

Thrice Monthly

EDITORS-IN-CHIEF

Bao-Gan Peng, Jerzy Tadeusz Chudek, George Kontogeorgos, Maurizio Serati, Ja Hveon Ku

EDITORIAL BOARD MEMBERS

https://www.wjgnet.com/2307-8960/editorialboard.htm

PUBLICATION DATE

October 26, 2022

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INSTRUCTIONS TO AUTHORS

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GUIDELINES FOR ETHICS DOCUMENTS

https://www.wjgnet.com/bpg/GerInfo/287

GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH

https://www.wjgnet.com/bpg/gerinfo/240

PUBLICATION ETHICS

https://www.wjgnet.com/bpg/GerInfo/288

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ARTICLE PROCESSING CHARGE

https://www.wignet.com/bpg/gerinfo/242

STEPS FOR SUBMITTING MANUSCRIPTS

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ONLINE SUBMISSION

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World J Clin Cases 2022 October 26; 10(30): 11204-11209

DOI: 10.12998/wjcc.v10.i30.11204

ISSN 2307-8960 (online)

CASE REPORT

Ventral hernia after high-intensity focused ultrasound ablation for uterine fibroids treatment: A case report

Jung-Woo Park, Hwa Yeon Choi

Specialty type: Obstetrics and gynecology

Provenance and peer review:

Unsolicited article; Externally peer reviewed.

Peer-review model: Single blind

Peer-review report's scientific quality classification

Grade A (Excellent): 0 Grade B (Very good): 0 Grade C (Good): C, C Grade D (Fair): 0 Grade E (Poor): 0

P-Reviewer: Yao J, China; Zhao K, China

Received: August 16, 2022 Peer-review started: August 16,

First decision: September 5, 2022 Revised: September 7, 2022 Accepted: September 23, 2022 Article in press: September 23, 2022 Published online: October 26, 2022



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Abstract

BACKGROUND

High-intensity focused ultrasound (HIFU) ablation is a minimally invasive approach in gynecology that is used to manage uterine fibroids. Although this procedure is safe and effective, adverse outcomes are becoming a major problem.

CASE SUMMARY

We present a case of ventral hernia that occurred as a rare and delayed complication of HIFU ablation for uterine fibroids treatment. The patient came to the hospital with abdominal bloating that occurred 6 mo after ultrasound-guided HIFU ablation for managing uterine fibroids. The ventral hernia, which occurred due to atrophied muscle layers following the procedure, was confirmed by imaging studies and intraoperative findings. She required a hernia repair with mesh and hysterectomy for definitive treatment of uterine fibroid.

CONCLUSION

High-intensity ultrasound ablation should be performed only on appropriate candidates. Patients should be educated about potential complications of the procedure and the possibility of subsequent treatment. Post-procedural long-term follow-up for detecting delayed adverse effects is important.

Key Words: Uterine fibroids; High-intensity focused ultrasound ablation; Conservative treatment; Ventral hernia; Complication; Case report

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Core Tip: We report a case of ventral hernia induced by ultrasound-guided high-intensity focused ultrasound (HIFU) ablation for the management of uterine fibroids. The case highlights the importance of long-term follow-up for delayed and rare complications after HIFU ablation.

Citation: Park JW, Choi HY. Ventral hernia after high-intensity focused ultrasound ablation for uterine fibroids treatment: A case report. World J Clin Cases 2022; 10(30): 11204-11209

URL: https://www.wjgnet.com/2307-8960/full/v10/i30/11204.htm

DOI: https://dx.doi.org/10.12998/wjcc.v10.i30.11204

INTRODUCTION

High-intensity focused ultrasound (HIFU) is a nonsurgical therapeutic technique for uterine fibroids. It is a desirable option for patients who want to save the uterus, regardless of fertility preservation. Recent studies reported favorable clinical outcomes in HIFU compared to conventional surgery and other noninvasive treatments[1-3]. However, despite the proven safety and efficacy of HIFU, adverse responses remain a concern. Here, we present the case of a patient who presented with delayed abdominal bloating after ultrasound-guided HIFU (USgHIFU) ablation.

CASE PRESENTATION

Chief complaints

A 43-year-old woman presented to the outpatient clinic with abdominal bloating, which had started 6 mo prior.

History of present illness

She had undergone USgHIFU for treatment of uterine fibroids at a private hospital 1 year prior to presentation.

History of past illness

The patient had a uterine fibroid with a maximal diameter of 8 cm. She underwent USgHIFU ablation to reduce the size of the uterine fibroid, which decreased to 6.2 cm after the procedure. She did not have any history of trauma or weight change. She had no history of previous surgical procedures or relevant illnesses.

Personal and family history

The patient denied having any relevant personal or familial history.

Physical examination

Her body mass index was 23.8 kg/m². Her abdominal exam was significant for distension without tenderness and a 10 cm palpable mass in the lower left quadrant. She had no fever. The cervical examination presented no remarkable findings, such as vaginal discharge or odor.

Laboratory examinations

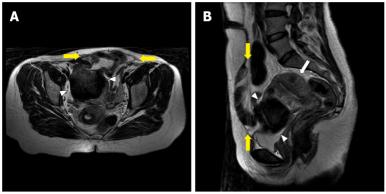
Findings of laboratory examinations in blood and urine were unremarkable.

Imaging examinations

Transvaginal sonography revealed a 7-cm-sized uterine fibroid and a fascial defect in the left lower abdomen. Subsequent magnetic resonance imaging scans revealed that the uterine fibroid and the defect measuring 11 cm × 10 cm in the left rectus abdominis muscle were located at the USgHIFU treatment site (Figure 1A and B).

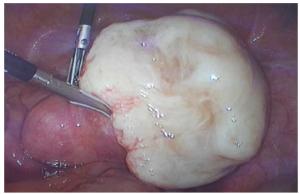
FURTHER DIAGNOSTIC WORK-UP

A diagnostic laparoscopy was performed, and subserosal fibroid and ventral hernia were identified in the operating room (Figures 2 and 3). The defect of the left rectus abdominis muscle measured 13 cm × 12 cm.



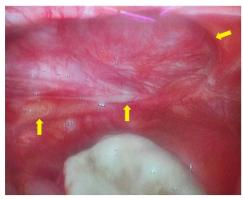
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Figure 1 Pelvic magnetic resonance imaging shows thin skin and a fascial defect (yellow arrows) at the anterior pelvic wall. The right rectus abdominis muscle is intact, but the left rectus abdominis muscle is atrophied. The subserosal uterine fibroid (white arrowheads) was located at the anterior of the uterus (white arrow). A: Axial T2-weighted image; B: Sagittal T2-weighted image.



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Figure 2 7-cm-sized protruding subserosal uterine fibroid is located in the anterior of the uterus.



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Figure 3 The defect (yellow arrows) in the left rectus abdominis muscle was identified.

FINAL DIAGNOSIS

Considering intraoperative findings, the final diagnosis was a ventral hernia induced by USgHIFU.

TREATMENT

We performed a total laparoscopic hysterectomy with bilateral salpingectomy for curative treatment of



the uterine fibroid at the patient's request. Concurrently, ventral herniorrhaphy was performed with a 20 cm × 15 cm sized composite mesh. Pathological examination confirmed the diagnosis of leiomyoma with red degeneration. The patient was discharged in good condition on postoperative day 5.

OUTCOME AND FOLLOW-UP

All the symptoms, including abdominal bloating and palpable mass, improved after the surgery. Follow-up was performed for 3 years in an outpatient setting, and no further complications were

DISCUSSION

Uterine fibroid is one of the most common gynecologic diseases in reproductive women, with prevalence varying widely from 4.5% to 68.6% depending on countries and diagnostic methods[4]. The treatment goal is to improve fibroid-related symptoms, such as abnormal uterine bleeding, dysmenorrhea, and bulk symptoms, considering the patient's health status and need for fertility preservation [5]. Management options include medical, interventional, and surgical therapies [5-6]. Traditionally, hysterectomy is an effective and definitive surgical treatment for uterine fibroid [6]. As the patient's desire to retain the uterus increases regardless of fertility preservation, myomectomy and interventional treatments, which include myolysis, uterine artery embolization, and HIFU, tend to increase in all age groups, even in perimenopausal women[7].

HIFU ablation is a novel therapeutic modality that induces coagulative necrosis of the uterine fibroid and treats it. It has been widely used since the 2000s and has gained acceptance as an effective noninvasive treatment[8-10]. A recent study reported long-term outcomes of up to 8 years of HIFU treatment for symptomatic fibroids[11]. Patients who underwent HIFU ablation showed higher symptom relief rates, lower symptom recurrence rates, and fewer complications compared to those who underwent uterine-sparing surgeries[11].

Although the safety and efficacy of HIFU have been demonstrated, adverse outcomes remain a concern. Complications of HIFU ablation vary from mild to severe. The commonly experienced minor complaints include lower abdominal pain and vaginal discharge, which subside in most patients within one week[12-13]. However, major adverse effects are uncommon with incidences of 0.14% to 0.38%, including skin burns, leg pain, sciatic nerve injury, and bowel injury [12-13]. Given the advancements of HIFU since its introduction, the major complications have seemingly decreased[10]. However, unexpected and serious problems, such as vertebral osteomyelitis and incarcerated internal hernia, have been reported[14-15].

In our case, the abdominal muscles were atrophied following HIFU ablation, resulting in late ventral hernia, which is a rare and critical complication requiring surgical repair. An acquired ventral hernia is common after surgery but rare after a non-invasive procedure. It may be caused by inaccurate targeting and use of excessive power during USgHIFU. However, immediate detection of inappropriate power settings that cause thermal damage in USgHIFU is challenging, as it is difficult to monitor real-time temperature[9]. Yin et al[16] reported several susceptibility factors for thermal damage to the wall structure, including thick abdominal wall, presence of abdominal scar, and excessive total energy for ablation. Thermal injury following HIFU ablation can occur in any abdominal structure, but extensive destruction of the muscle layers is uncommon.

In addition to critical side effects, the possibility of requiring subsequent therapy is an inherent limitation of HIFU ablation as an interventional treatment for uterine fibroid. Choe et al [17] analyzed the characteristics of patients who underwent additional surgery after HIFU ablation to treat uterine fibroids[16]. Patients with uterine fibroids measuring greater than 10 cm and in multiple numbers, as well as persistent symptoms after HIFU ablation, have a higher risk of post-procedural operation[17]. In a recent study, the risk factors for reintervention, including secondary HIFU ablation and conventional surgeries, were reported as young age, large-sized uterine fibroid, and submucosal uterine fibroid [18]. In 72.2% of the patients, the reintervention occurred mainly between 2-4 years after the procedure [18]. Therefore, this period is critical for judging the patient's progress during the follow-up period, particularly for patients who have risk factors for reintervention.

CONCLUSION

Enjoying the advantages of new treatments should not prevent efforts to achieve better outcomes. Therefore, HIFU ablation must only be performed on carefully selected patients. Although HIFU ablation is considered an optimal, conservative therapy, physicians should discuss the possible need for subsequent intervention with their patients. Patients must be educated and encouraged to report complaints after HIFU therapy to detect unexpected complications. A long-term follow-up may be required to monitor for delayed adverse outcomes and decide on appropriate additional treatment.

FOOTNOTES

Author contributions: Choi HY contributed to the data collection and the manuscript writing; Park JW treated the patient and contributed to the conceptualization and supervision of the entire work; all authors have read and approved the final manuscript.

Informed consent statement: A written informed consent was obtained from the patient for publication of this case report.

Conflict-of-interest statement: The authors have nothing to disclose.

CARE Checklist (2016) statement: All authors have read the CARE Checklist (2016), and the manuscript was prepared and revised according to the CARE Checklist (2016).

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Country/Territory of origin: South Korea

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S-Editor: Wang DM

L-Editor: A

P-Editor: Wang DM

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