On examination, the patient was not febrile, pale, jaundiced or cyanosed. The patient was of average body built and well oriented in place, person and time.

Abdominal examination revealed a left groin swelling at the lateral end of the previous caeserian section scar (Pfannestiel incision). It was a well defined mass about 2 x 2cm in size, firm in consistency, not tender and not warm. Tensing the abdominal wall muscle made the anterior abdominal wall mass more prominent. Further examination of the abdomen was normal. Rectal and vaginal examination was normal.

All other systems were essentially normal. A clinical diagnosis of desmoid tumour was made with subcutaneous lipoma as differential diagnosis.

Complete blood count showed: Hb 11.2g/dl; WBC 4.6 x 10^3 / uL; platlets 241 x 10^3 / Ul.

Ultrasound of the anterior abdominal wall (figure 1) was performed and showed a predominately hypoechoic intramuscular lesion measures 2.5x1.5 cm in the left lower quadrant underneath the left end of the surgical scar. Internal echoes were noted in this lesion. The inner margins of the lesion showed some irregularity. However, there was no speculation or invasion through the abdominal wall.

ABSTRACT
Asymptomatic incisional endometrioma of the anterior abdominal wall is rare. Clinical diagnosis may be difficult. We present a 26 year old woman with incisional abdominal wall endometrioma discovered 5 years after caeserian section. It was painless and there was no change in size with menstruation. The patient's body size was average with a palpable lump at the edge of the caeserian section scar. Clinically desmoid tumour was suspected. The patient underwent surgical excision. Histopathology confirmed endometrioma. There was no recurrence on three months follow-up.

KEY WORDS: endometriosis, endometrioma, abdominal wall, asymptomatic, caeserian scar.

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INTRODUCTION
When endometrial glands and stroma are found outside the endometrial cavity and uterine musculature, it is known as endometriosis. Though it can occur anywhere in the body, it is usually located in the pelvis. Endometrioma is a well defined form of endometriosis\(^1\). Endometriosis is found in 15% of menstruating women\(^2\). Localization to the anterior abdominal wall is rare\(^3\). It is found mainly in a scared abdomen; though involving different previous procedures but mostly after caeserian section.\(^4\) Rarely it's found in patients without any history of surgery.\(^5\)

This paper is aimed at reporting a rare case of asymptomatic abdominal wall endometrioma found in an incisional scar after 5 years of previous caeserian section.

CASE REPORT
We present a 26-year old female divorced patient who presented with a year history of painless slowly growing swelling in the anterior abdominal wall in the left groin at the site of previous caeserian section. There was no gastrointestinal or urinary symptom. Her menstrual cycles were regular and no change in the size of the abdominal wall mass in relation to menstruation.

Patient had her menarche at 15 years. She was para 1+0 1 alive. She had an emergency caeserian section for breech presentation 5 years earlier.

On examination, the patient was not febrile, pale, jaundiced or cyanosed. The patient was of average body built and well oriented in place, person and time.

Abdominal examination revealed a left groin swelling at the lateral end of the previous caeserian section scar (Pfannestiel incision). It was a well defined mass about 2 x 2cm in size, firm in consistency, not tender and not warm. Tensing the abdominal wall muscle made the anterior abdominal wall mass more prominent. Further examination of the abdomen was normal. Rectal and vaginal examination was normal.

All other systems were essentially normal. A clinical diagnosis of desmoid tumour was made with subcutaneous lipoma as differential diagnosis.

Complete blood count showed: Hb 11.2g/dl; WBC 4.6 x 10^3 / uL; platlets 241 x 10^3 / Ul.
The size of anterior abdominal wall endometrioma varies. The patient presented had a 2.5cm mass, which is within the reported size in the literature of 1-12 cm in the literature. The patient had a single lump though it can be multiple. The diagnosis can be difficult because there is no specific finding, however in symptomatic patients, presence of pain and change in size during menses can be helpful. The differential diagnoses include abscess, granuloma, hernia, haematoma, subcutaneous lipoma and tumours (desmoids tumour, sarcoma, lymphoma, melanoma).

As a result of difficulty in clinical diagnosis; ultrasound scan, Doppler, computed tomography (CT), and magnetic resonance imaging (MRI) have been found to be useful imaging techniques. The ultrasound findings in this patient showed hypoechoic lesion with internal echoes. Sometimes the lesion may be vascular, solid with or without cystic changes. MRI performs better than CT for identifying hemorrhage and soft tissue plane.

There is usually difficulty in distinguishing abdominal wall endometrioma from other surgical conditions. Fine needle aspiration (FNA) may confirm the diagnosis. This may sometimes be ultrasound-guided especially when the lump is very small. Fine needle aspiration usually yields chocolate-coloured fluid, though is contraindicated if hernia is a possibility.

Surgical excision is the only effective treatment and a wide clear margin is the key point to prevent recurrence. The patient in this report benefitted from excision with clear margin though part of the anterior rectus sheath had to be excised to achieve this. There was no recurrence. Surgical excision as in this case was both diagnostic and therapeutic.

Of importance in the management of patients with abdominal wall endometrioma is the prevention of malignant transformation and recurrence after excision. Recurrence is closely related to the size and depth of the lesion. About 4% recurrence rate has been reported.

Some authors have suggested that at the end of caeserian section and before closure of wound, the abdominal wall incision should be thoroughly cleaned and generously irrigated with high-jet saline solution to prevent abdominal wall endometrioma.

In patients with previous gynaecological procedures presenting with a mass close to a previous scar, endometrioma should be considered as a rare differential diagnosis. The pathologists can also help with information about the margin in predicting recurrence.

DISCUSSION

Incisonal abdominal wall endometrioma is commonly associated with previous scars. It is associated with a caeserian section scar in 57% and hysterectomy in 11% of cases. It constitutes about 4% of endometriosis and 0.2 to 0.8% of patients with previous caeserian section. The age of the patient was 26 years old which is within the reported average figure of 20-34 years in the literature.

Though the pathogenesis of endometriosis is not clear, there are several proposed theories. The three main theories are: implantation theory, the direct transplantation and the coelomic metaplasia theory. Local endometrial cell transplant seems to be the most probable pathophysiological mechanism in anterior abdominal wall endometrioma.

The patient was seen 5 years after previous caeserian section. The average interval between previous surgery and presentation with endometrioma is 1.9 to 7 years though an isolated case of 15 years after previous surgery was reported in the literature.
We've presented a 26 year old woman with abdominal wall endometrioma who was asymptomatic and benefited from surgical excision without recurrence.

**Competing Interest**
No competing interest

**Author's Contributions**
All the authors contributed to the concept of the manuscript, reviewed the literature, wrote and reviewed the manuscript; M. Al-Shraim and G. Alshumrani evaluated the histopathology and radiology reports, respectively.

**REFERENCES**