International Journal of Science and Research (IJSR) ISSN: 2319-7064

Impact Factor 2024: 7.101

Multiple Fibroid Uterus

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Abstract: Multiple fibroids in the uterus, also known as uterine leiomyomas, are common benign tumours that affect a significant portion of women, particularly those of reproductive age. These tumours can vary in size, number, and location within the uterus and may cause a wide range of symptoms, including heavy menstrual bleeding, pelvic pain, urinary frequency, and reproductive challenges such as infertility or pregnancy complications. The exact aetiology of uterine fibroids remains unclear, but genetic, hormonal, and environmental factors are thought to contribute to their development. Diagnosis is typically achieved through pelvic examination, ultrasound, and MRI, while treatment options vary depending on symptom severity, size, and location of the fibroids. Management approaches include medical therapy (e.g., GnRH agonists, progestins), minimally invasive procedures (e.g., uterine artery embolisation, myomectomy), and in severe cases, hysterectomy. Multiple fibroids complicate treatment decisions and require a personalised approach to ensure optimal outcomes. Continued research into the pathophysiology and treatment modalities of multiple fibroid uteri remains crucial for improving patient care.

Keywords: fibroid uterus, gynaecological disorder, aetiology, diagnosis, treatment, complication, management

1. Introduction

Uterine fibroids, also known as leiomyomas or myomas, are benign smooth muscle tumours that develop in the uterus. They are the most common benign gynaecological tumours, affecting a significant percentage of women, particularly those of reproductive age. The exact prevalence of uterine fibroids varies, with studies suggesting that up to 70-80% of women may develop fibroids during their lifetime. The condition is more common among women of African descent and those in their 30s and 40s.

Uterine fibroids can occur as solitary or multiple tumours, which can vary in size, number, and location within the uterus. These fibroids may be asymptomatic or cause a range of symptoms, including heavy menstrual bleeding (menorrhagia), pelvic pain, urinary frequency, and, in some cases, infertility or pregnancy-related complications. The presence of multiple fibroids can complicate the clinical picture, making diagnosis and management more challenging.

2. Indication of Multiple Fibroids Uterus

Hormonal imbalance Genetic factors Age Obesity Diet Environment factors Pregnancy Other Hormonal Disorders

3. Diagnosis

Medical history
Physical examination
Ultrasound
MRI
Hysterosonography
Hysterosalpingography
Endometrial biopsy
Hysteroscopy

Case study of Mrs. X,

Mrs. X, a 34-year-old woman, was admitted to KJK Hospital with complaints of Nulligravida with primary infertility came with an ultrasound suggestive of a multiple fibroid uterus. She was found to be conscious and oriented. Her vital signs were as follows:

Temperature:98.6 Blood pressure:130/90mm Hg Pulse:108 beats /min Spo2:99%°F Respiration:22 breaths/min

The Transvaginal Scan report showed that the uterus is enlarged, measuring 12 cm in length, and revealed an intramural fibroid at the fundus measuring 6 cm in size, along with multiple small intramural fibroids measuring between 1.5 cm and 5 cm in size in both the anterior and posterior walls. No significant degenerative changes are seen. The uterine cavity is clear, and the endometrial thickness measures 4 mm. The ovaries are normal on both sides, with no suggestion of PCOD, and the pouch of Douglas is clear. Impression: Multiple fibroids with thin endometrium.

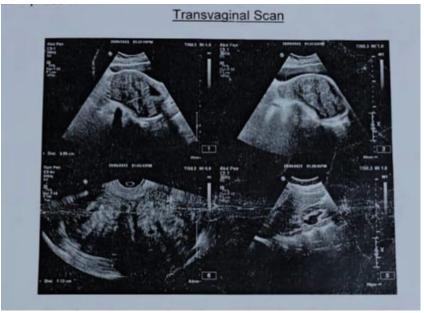
Investigation

The Transvaginal Scan report was the results are as follows:

Volume 14 Issue 8, August 2025
Fully Refereed | Open Access | Double Blind Peer Reviewed Journal
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International Journal of Science and Research (IJSR)

ISSN: 2319-7064 **Impact Factor 2024: 7.101**



Figures: Transvaginal Scan image of a multiple-fibroid uterus

Lab Reports Hb:12.7g/dl

Blood group: B Positive Serology: Negative TSH:4.85Miu/ml WBC:13800 cell/cu.mm

Platelet Count: 3.04 lakhs/cumm

CRP:17.3 Mg/L

Serum Potassium: 3.810 MMOL/L Serum Sodium:136.950 mEg/L

Echo: Normal Study

Procedure

The surgery procedure performed on the patient was a Laparoscopic Myomectomy Operative Hysteroscopy

Complication

Bleeding

Infection

Injury to the surrounding organs

Uterine rupture

Conversion to open surgery

Recurrence of fibroids

Uterine perforation

Infertility is seen in about 30% of women

Pain during sex

Pregnancy complication

Signs and Symptoms

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	Book Picture	Patient Picture
	Lower Abdominal Pain	Present
	Irregular Periods	Not Present
	Backache	Present
ĺ	Heavy Menstrual Bleeding	Not Present
ĺ	Constipation	Not Present
ĺ	Infertility	Present
ĺ	Pain During Intercourse	Present
ĺ	Frequency Urination	Not Present

Nursing management

Assess and monitor the blood volume (Hb). Promote a highfibre diet, adequate hydration, and regular physical activity to prevent constipation.

Advise the patient to reduce stress levels, which may help reduce the risk of fibroids

Advise the patient to avoid sexual intercourse

Assessment

- Assessment of vaginal bleeding
- Palpation for any masses or tenderness present in the
- Complete blood count (CBC) to check for anaemia.
- Hormonal assays if indicated (e.g to rule out other causes of menstrual irregularities)

Nursing Diagnosis

- Pain related to pelvic pressure from fibroids.
- Impaired Urinary Elimination related to pressure on the bladder from the enlarged uterus
- Constipation related to bowel compression.
- Risk for Deficient Fluid Volume related to heavy menstrual bleeding (menorrhagia)
- Anxiety related to diagnosis and the potential need for surgery
- 6) Knowledge Deficit related to unfamiliarity with the condition and treatment options
- 7) Impaired Sexual Function related to pain or discomfort during intercourse associated with uterine fibroids.
- Risk for Impaired Fertility related to the potential impact of uterine fibroids on reproductive organs and fertility.

Planning

- 1) The patient will demonstrate improved comfort with reduced need for analgesics.
- The patient will maintain normal voiding patterns within 3 days of treatment.
- The patient will report regular bowel movements within 3 days.
- Risk for deficient fluid volume related to potential heavy menstrual bleeding.

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International Journal of Science and Research (IJSR) ISSN: 2319-7064

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- Anxiety related to diagnosis and potential need for surgery.
- 6) Knowledge deficit related to unfamiliarity with the condition and treatment options.
- 7) The patient will report improved comfort during sexual activity over time.
- The patient will verbalise understanding of fertility preservation options.

Implementation

- Administer prescribed analgesics as per the physician's order.
- 2) Monitor urinary output and frequency.
- 3) Encourage a high-fibre diet and adequate fluid intake.
- 4) Encourage oral fluids and administer IV fluids as needed.
- 5) Provide emotional support and encourage questions.
- 6) Use visual aids (e.g., scan images) to enhance understanding.
- Educate on the physical effects of fibroids on sexual function.
- 8) Explain the relationship between fibroids and infertility.

Evaluation

- 1) Patient reports reduced pain from 8/10 to 3/10 within 48 hours.
- 2) Urinary output is within normal limits (1500–2000 mL/day).
- 3) Patient reports normal bowel function by day 3 of hospitalization
- Stable vital signs, Hb maintained at 12.7 g/dL. No signs of hypovolemia noted.
- 5) Patient verbalises understanding of the condition and feels more confident post-counselling.
- The patient can correctly explain her diagnosis and treatment.
- Patient reports increased awareness and willingness to address sexual concerns.
- 8) Patient understands fertility risks and treatment options.

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Volume 14 Issue 8, August 2025
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