Fibroids Impact on Fertility

Dr. Francisco Ruiz, MD

IVF Specialist, ART Fertility Clinics, Abu Dhabi

ART FERTILITY CLINICS

Science Assisting Nature

Uterine Fibroids or leiomyoma

What is a fibroid?

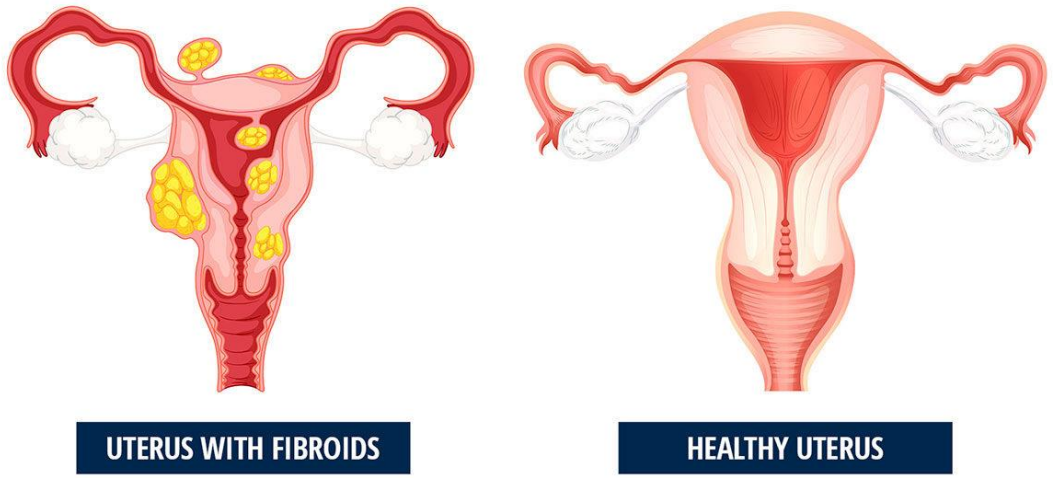
Most common benign pelvic tumor in women of reproductive age

How frequent?

Up to 70% in white women and 80% in black women

Cause?

- Genetic predisposition
- Environmental factors
- Hormones



Nguyen, et al. 2021

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Uterine Fibroids

Do they affect fertility?

Their presence **does not** imply a negative impact,

The real question is…

When do they affect fertility?

- If there is abnormal expression of:
  Receptivity genes
  Growth factors

- Myometrial contractility

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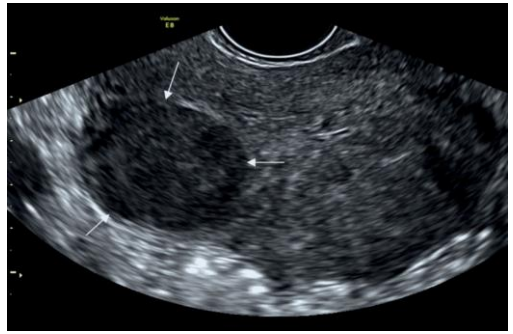
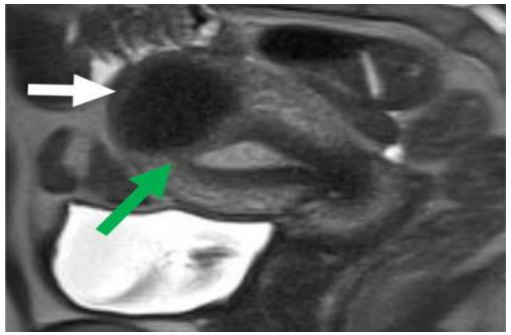
Uterine Fibroids

How are they diagnosed?:



- Ultrasound scan



- MRI



- Hysteroscopy

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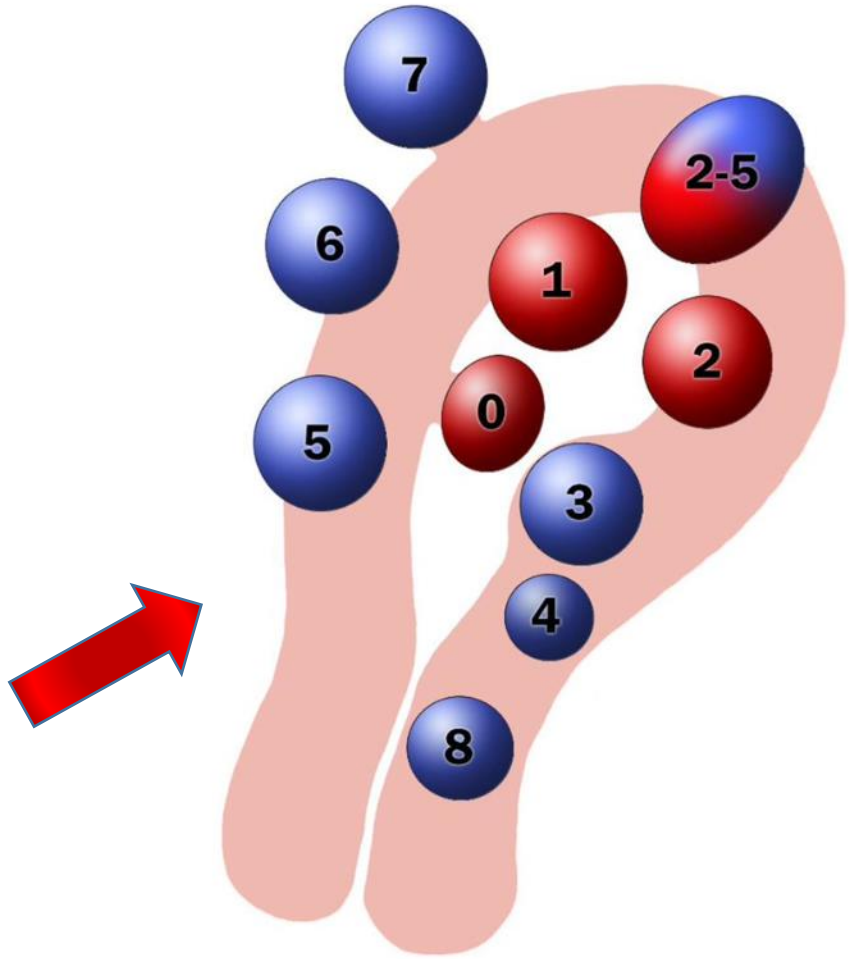
Uterine Fibroids

Location is important:

- **Submucous fibroids**: Reduced chance of embryo implantation

- Intramural fibroids: Impact is not clear

Removing FIGO type **0**, **1** and **2** fibroids should **improve fertility**



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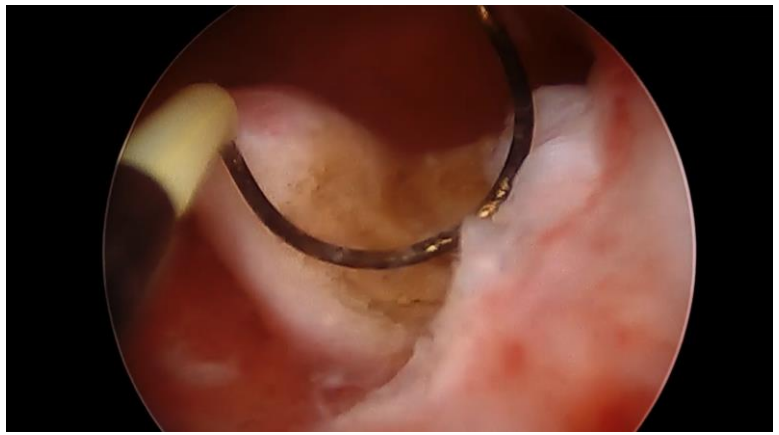
Leiomyoma classification system International Federation of Obstetrics and Gynecology (FIGO)

Uterine Fibroids

How are they removed?:



- Surgical hysteroscopy for submucosal location

Other approaches:

- Laparoscopy
- Uterine Artery Embolization
- Radiofrequency ablation
- MRI guided focused ultrasound

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Key Messages

Removing a fibroid can be performed through a hysteroscopy at ART Fertility Clinics depending on size and location

Submucosal fibroids may impact fertility; current evidence supports removing them

Fibroids may impact fertility depending on size and location

Fibroids can initially be evaluated through transvaginal scan at ART Fertility Clinics

Thank You



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artfertilityclinics
www.artfertilityclinics.com
hello@artfertilityclinics.com