Updated approaches for management of uterine fibroids

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Abstract: Uterine anatomy and uterine fibroids (UFs) characteristics have been classically considered as almost a unique issue in gynecology and reproductive medicine. Nowadays, the management of UF pathology is undergoing an important evolution, with the patient’s quality of life being the most important aspect to consider. Accordingly, surgical techniques and aggressive treatments are reserved for only those cases with heavy symptomatology, while the clinical diagnostic based on size and number of UFs remains in a second plane in these situations. Moreover, the development of several noninvasive surgical techniques, especially the appearance of ulipristal acetate as a medical etiological treatment, has substantially changed the clinical indications. As a consequence, after almost 2 decades without relevant updates, it has been necessary to update the protocols for the management of UFs in the Spanish Society of Gynecology and Obstetrics twice. Accordingly, we believe that it is necessary to translate our experience to protocolize the medical care for patients with UFs, incorporating these new therapeutic options, and selecting the best treatment for them. We highlight the importance of achieving the patient’s goals and decisions by improving the clinical diagnosis for these type of pathologies, allowing enhanced personalized treatments, as well as the reduction of potential risks and unnecessary surgeries.

Keywords: uterine fibroids, UFs, selective progesterone receptor modulator, sPRM, ulipristal acetate, UPA

Introduction

To date, therapeutic options for long-term treatment of uterine fibroids (UFs) have been very limited, with surgery being the main medical treatment for >100 years, with large recurrences of tumors. In accordance with a statistical analysis, 200,000 hysterectomies, 30,000 myomectomies, and thousands of selective uterine artery embolizations (UAEs) are performed annually in the USA to eliminate UFs, with a psychological load and economic costs to the patient and the health care system.1,2

Nowadays, the development of several noninvasive surgical techniques and the recent clinical introduction of selective progesterone receptor modulators (sPRMs) like ulipristal acetate (UPA) have implicated that some of these patients, who initially had surgical indication, may have an alternative and conservative treatment.3,4 As a consequence, the management of UF pathology is currently undergoing an important evolution, and after almost 2 decades without relevant updates, several scientific societies have found it necessary to actualize the protocols for the management of UFs. For instance, the Spanish Society of Gynecology and Obstetrics (SEGO) has done it twice.

The main issue to consider, regarding the diagnosis of UFs, is the general condition of the patient, considering the clinical symptoms not only in terms of health threat but also in terms of discomfort. As a consequence, we should look for the most efficient
treatment according to the patient’s preferences and clinical situation. Thereby, an accurate pelvic examination may give us the suspicion of these benign tumors. As a consequence, the number, size, and location of UFVs are essential for understanding the symptomatology and the evaluation of potential surgical techniques.

Although transvaginal ultrasound is the gold standard method for UFV diagnosis in terms of accuracy and availability, it may be necessary to perform abdominal ultrasound and/or magnetic resonance imaging (MRI) to complete the study of these benign tumors. Additionally, hysteroscopy remains the most accurate method to diagnose and plan the specific treatment in submucosal UFVs, and hemoglobin evaluation can also be a cheap and easy method to determine iron deficiency anemia in women with heavy menstrual bleeding.

In this review, we aim to offer a broad overview of UFV management in our medical institutions, which includes classical surgery and noninvasive procedures, as well as medical treatment for 4 years. Consequently, we believe that it is convenient to share our knowledge to protocol the medical care for patients with UFVs, incorporating these new therapeutic options and selecting the best indications for them.

**Current management options for UFVs**

**Medical options**

The first-line option for UFVs is usually reserved to medical therapies because initially symptomatology is usually mild. We must discriminate between etiological and symptomatic treatment depending on whether the effect is directly on the UFVs or only on their symptoms (Figure 1).

Classically, nonsteroidal anti-inflammatory drugs (NSAIDs) have been a regular solution for pain, in addition to hormones, either estroprogestins or progestogens, acting on the endometrium. In fact, the levonorgestrel intrauterine system (LNG-IUS) has become a success in gynecological therapy, and it is the reference for the progestin treatment. Although it does not act directly on the UFVs, it reduces menstrual blood loss in women with this pathology. Therefore, it may be an excellent solution for mild and even severe bleeding when it is well tolerated.

Tranexamic acid is a procoagulant drug that has also shown good results by reducing blood loss during menstruation, and it is very useful in women with UFVs who have mild bleeding. It is only prescribed for 3 or 4 days per month and its dose may be adaptable according to each woman’s needs. It is usually well tolerated with few side effects.

Gonadotropin-releasing hormone agonists (GnRHa) have been used to shrink UFVs; however, they have been relegated because of their side effects such as hot flushes and bone loss.

Currently, with the incorporation of sPRMs like UPA, a new horizon has emerged in the management of fibroids.

In our country, UPA is currently authorized by the Ministry of Health, Social Services and Equality, by the Spanish Agency of Medicines and Medical Devices and Health Products, and by the European Medicines Agency, for presurgical use and/or as a chronic treatment of UFVs in women in reproductive age. The clinical recommendation

![Figure 1](https://www.dovepress.com/)

**Figure 1** Surgical, nonsurgical, and medical therapy currently used for the management of UFVs. *Abbreviations:* GnRHa, gonadotropin-releasing hormone agonists; IUD, intrauterine device; MRgFUS, magnetic resonance-guided focused ultrasound surgery; NSAIDs, nonsteroidal anti-inflammatory drugs; RF, radiofrequency ablation; sPRMs, selective progesterone receptor modulators; UAE, uterine artery embolization; UFVs, uterine fibroids.
suggests 3 months of treatment, 5 mg daily, alternating with two menses during four cycles as an intermittent treatment, or one or two cycles prior to surgery if the patient has anemia. It allows the rapid control of the symptoms caused by these benign tumors, decreasing their volume by 50% after 12 months of treatment, in a similar manner as GnRH analogs, but presenting an excellent safety and tolerability profile. In addition, it produces amenorrhea in 80% of the patients, thus improving the clinical and analytical status of the patients. Therefore, it must be considered as a first-line treatment once symptomatic treatment is not effective.

For the past 4 years, our department has been providing UPA as a medical treatment for UFs. In our experience, UPA has shown results similar to those in the literature, although the mean reduction of volume in our results has been around 30%. Nevertheless, this measure must be carefully considered, because it correlates to 10% in diameter and may discourage the clinician expectations (Figure 2). On the other side, an excellent control of bleeding, causing amenorrhea, in most of the patients has been achieved. Tolerance and safety have been also good, with few patient withdrawals due to side effects, and no severe adverse effects. Likewise, surgery, when necessary, is not compromised after treatment with UPA.

Regarding long-term treatment, UPA is planned in four cycles; however, for patients with mild symptoms, two cycles of 3 months may be sufficient. Thus, the indication of intermittent treatment with UPA should comprise two steps: the first one regarding the stabilization and recovery of anemia and the second one related to maintenance. Finally, once the patient is stabilized after two or four cycles and recovered from the general condition, we can reevaluate the situation, considering several options. Occasionally, we may start a follow-up without medication if conditions have improved significantly. However, in the cases where a relapse of the symptomatology is predictable, we should plan more treatments. A combination with another treatment method, like LNG-IUS, is recommended after finishing UPA.

Surgical options

Surgical interventions still represent the main strategies for UF management, with hysterectomy, laparoscopic myomectomy, and hysteroscopic myomectomy being the most widely used (Figure 1). Nevertheless, all things considered, the surgeon’s experience is the key factor to contemplate when we plan the surgical approach.

Hysterectomy

This option is a radical and definitive treatment for UFs, particularly for women who do not wish to conceive and/or women aged above 40–50 years. We must point out that vaginal route allows hysterectomy in most of the cases, even

\[
D_f = \sqrt[3]{1 - \delta} D_i
\]

where \( \delta \) is % of total reduction of volume, \( D_i \) is final diameter and \( D_i \) is initial diameter

**Figure 2** Diagram showing the relationship and the expected changes in uterine fibroids’ diameter corresponding to the changes in volume (A), both in percentage (B) and fixed values (C). As volume is proportional to the radius to the cube, significant changes in volume mean smaller differences in radius or diameter.
with big myomas, and it is the cheapest and less invasive one. Supracervical hysterectomy is indicated if surgical complications are present, but as there are no differences in sexual and urinary function, it is our thought that total hysterectomy should be preferred.\textsuperscript{20–22}

**Abdominal myomectomy (laparoscopy or laparotomy)**

Excision of the fibroids and anatomical reconstruction of the uterus have been for decades the only technique available for women who wanted to retain their uterus.\textsuperscript{23–31} Depending on the number, size, and location of fibroids, we will choose the optimal surgical approach.

**Hysteroscopic myomectomy**

Hysteroscopy is the elective method to remove submucous UFs by using minimally invasive surgical procedures.\textsuperscript{32–36} Currently, the use of new devices (myosure, truclear, and so on) to perform hysteroscopic procedures in the outpatient setting has completely changed the clinical approach. But, it is important to balance the expectation of success and the length of surgery, and if it is not adequate, we should perform a classic surgical intervention with resectoscope. Moreover, we should always try to enucleate the UFs of their pseudocapsules before their fragmentation and elimination. This method could give us better fertility results after surgery, reaching rates of 45\% and reducing complications.\textsuperscript{32,37–40}

**Nonsurgical alternatives: UAE and magnetic resonance-guided focused ultrasound surgery**

The alternatives to surgical interventions are shown in Figure 1.

**Uterine artery embolization**

Embolization of uterine arteries is a safe and minimally invasive technique, with similar results in terms of satisfaction compared with the surgical procedures (both hysterectomy and myomectomy). A lower rate of minor complications have been reported, although the probability of the need for a new surgical procedure to be done in 2–5 years is increased compared to surgical procedures including myomectomy and hysterectomy (15\%–32\% vs 7\%). Besides, the fact that ovarian reserve and healthy myometrium may be compromised still discourages its use prior to pregnancy.\textsuperscript{41} From our point of view, UAE is indicated for patients wishing to preserve their uterus, because in our experience, the results are similar to surgery in terms of discomfort and pain, and much worse than hysterectomy according to the rate of reinterventions in the long term.\textsuperscript{32–44}

**Fibroid ablation**

The term ablation refers to tissue destruction with concentrated energy. It is also called myolysis and there are different sources of energy, such as ultrasound, radiofrequency (RF), and laser. Initially, surgical procedures were required, but nowadays ultrasound or MRI selects the point where the energy must be guided.\textsuperscript{42} Ultrasound-guided puncture with RF or/and high-frequency magnetic resonance-guided focused ultrasound surgery (MRgFUS) are minimally invasive alternatives that decrease menstrual bleeding and the size of UFs.\textsuperscript{43} However, fertility seems not to be compromised with these techniques and surgical intervention may be needed at a higher rate than UAE. According to our experience, both procedures are more suitable for UFs with a component of pain or compression.

**Algorithm for the management of UFs**

**Basis of management**

There is a great variability among the patients with UFs. Differences in age, severity of symptoms, and characteristics of these benign tumors make it difficult to suggest a general rule of treatment, and the individual assessment of each case is necessary. Nevertheless, we may clarify some general issues that should always be considered in the management.\textsuperscript{1,46}

While several classifications can be found in the literature,\textsuperscript{40,47} the International Federation of Gynecology and Obstetrics (FIGO) classification is the most employed nowadays because it offers a broad fibroid distribution map.\textsuperscript{48} FIGO employs a nine-point numerical system to describe the location of UFs in relation to the endometrium and the serosal surface. Pedunculated UFs localized in the submucosa, extending inside the uterine cavity, are classified as type 0, while type 1 and type 2 are submucosal UFs that have $\pm$50\% of intramural location. Type 3 UFs are completely located intramural with contact to the endometrium, whereas type 4 UFs are intramural lying entirely in the myometrium. Types 5–6 represent subserosal UFs with $\pm$50\% of intramural location and type 7 is attached to the serosa by a stalk (pedunculated). Type 8 covers all other UFs not related to the myometrium such as cervical or parasitic lesions (Figure 3).

Fibroids are benign tumors and they often grow during fertile age, until the woman reaches menopause, which causes sexual hormone depletion. Thus, menopause means...
a “spontaneous cure,” avoiding the need for treatment with few exceptions.

Good quality of life and patient satisfaction must be our goals in the management of fibroids. Therefore, the number of interventions should be minimized, and if radical treatment is needed (hysterectomy), it is better to perform it as soon as possible. Treatment should be efficient with the maximum efficacy and the minimum risk and cost. It should also be indicated proportionally according to the severity of symptoms, and may be increased gradually. We should be as non-aggressive and noninvasive as possible. For instance, if a symptomatic medical treatment is effective enough we should maintain it.

In addition, it is not necessary to emphasize that asymptomatic UFs do not require treatment regardless of their size. However, the bigger the size, the more probable it is that they cause symptomatology. Nevertheless, follow-up is required, and 6 months seems reasonable, extending it to 1 year if there is no growth detected. Finally, fibroids that have not been modified during a 1-year period after menopause will not require further control unless symptoms appear.

The probability of malignancy is extremely rare. Although it is not completely clear, the current belief is that UFs do not change to leiomyosarcomas, but the latter are malignant from the beginning.49,50 The incidence of leiomyosarcoma is extremely low, and it has been estimated at 1:400 (0.23%) in women who undergo surgery for UFs.51 However, in menopausal women, the probability of malignancy increases in growing fibroids, reaching 1% of hysterectomy specimens in women in their 60s.49,50 Then, we should not suspect for leiomyosarcoma unless ultrasound or clinical characteristics suggest it. In these specific cases, MRI may be helpful, although there is no reliable diagnostic test at this moment that differentiates between leiomyosarcoma and UFs.32

In brief, it is important to design a global plan of management considering the whole reproductive age. We must do an initial assessment of the patient, considering the medical condition and symptomatology, the characteristics of the uterus and UFs, and the patient’s desires, especially pregnancy, as well as the patient age and proximity to menopause. We must also try to foresee the evolution of the pathology, pondering the odds of different possible developments, as well as the available treatments balancing benefits, risks, and probabilities of success, and communicate all this information to the patient. Then, we will choose the more efficient treatment, according to her needs, desires, and decisions.

Stages of management

Patients with symptomatic UFs may initially be divided into two big groups, in terms of objectives, symptomatology, and age. Most of them demand treatment during the perimenopause because of symptomatic UFs (pain, bleeding, bulky effect, and so on) that affect their quality of life. There are also a relevant number of patients, generally at a younger age, consulting for infertility, which requires specific management. However, it should be remembered that both groups can often overlap and participate in both situations.

The two stages of management are: 1) The first question in the management of symptomatic UFs should consider if there is a hysteroscopic solution. When symptomatology is a consequence of a UF accessible by hysteroscopic approach, we believe that its excision is the preferred option, regardless
of other characteristics of the patient.\textsuperscript{53} Sometimes, despite the persistence of other subserosal or intramural fibroids, both in perimenopausal and potentially pregnant patients, a partial solution of removing one or several submucosal fibroids, and cleaning the cavity, may solve the problem.\textsuperscript{54,55} Nonetheless, depending on the difficulty of the case, a two-stage approach may be considered.

In brief, optimal diagnosis is essential in hysteroscopy, and the classification system (STEP-w) for hysteroscopic myomectomies, based on the degree of technical difficulty in carrying out the procedure, should be recommended for the most suitable course of action in each situation.\textsuperscript{56} For example, in simple cases, we may perform endometrial preparation with progestogens or oral contraceptives to facilitate intervention. Conversely, in complicated cases, we should plan a prior treatment with one or two cycles of UPA before the surgery. For example, in those situations, where there is a poor health condition and especially when the patient is anemic, we will proceed to administer a UPA cycle to delay surgery and recover hemoglobin levels, as well as the patient’s condition. In these cases, hysteroscopy may be performed on the last days of treatment or even after the first menstruation. In our experience, around 2 weeks after finishing the treatment, menstruation is avoided and an adequate surgical technique is enabled.\textsuperscript{55,57}

2) When the hysteroscopic resection is not possible or adequate, we have a wide range of options for treatment, and we should adopt them according to the characteristics and preferences of the patients. First, we have to identify the patient’s profile regarding whether her problem is symptomatology or infertility. It is also relevant to consider the age and proximity to menopause, as well as the desire for pregnancy, and the preferences of the patient.

We highlight the importance of a comprehensive diagnosis considering specific factors and circumstances such as number, location, and type of UFs, associated symptomatology, quality of life, and health condition, among others. Considering all these premises, we have established an algorithm for each group of patient profile, either patients with symptomatology and patients who do not wish to be pregnant or those whose problem is mainly infertility. These two groups will include most of the patients in a general perspective, although we still emphasize the need of personal counseling.

**Medical algorithm according to the patient’s profile**

**Perimenopausal women without gestational desire**

Symptomatology in this group of women may be classified into mild or moderate–severe. It should be noted that in real patients, there is an endless number of situations between being asymptomatic and having a severe symptomatology.

Then, in mild conditions, many fibroids that had been asymptomatic start producing mild bleeding or pain. In most cases, symptomatic treatment is enough to maintain an adequate quality of life. If the main symptom is hypermenorrhea, drugs such as tranexamic acid,\textsuperscript{38} progestogens (oral or LNG-IUS),\textsuperscript{59–61} or oral contraceptives (estroprogestogens) are eligible.\textsuperscript{62,63} If the patient refers mainly pain, NSAIDs should be prescribed, which could also have a limited effect on bleeding.\textsuperscript{64–66} Notwithstanding, the assessment of the patient, at least every 6 months, following evaluation and satisfaction with the treatment, should be recommended (Figure 4).

However, moderate–severe conditions are considered if symptomatic treatments are not enough to provide an adequate quality of life, and surgery has been classically the preferred solution. Nowadays, we can count on different options that provide good results and make it not necessary to remove the uterus.

Age and proximity to menopause are the most important factors to consider. It is also important to know the opinion of the patient about losing her uterus. For example, when a patient is 48 years or older, we estimate as a general rule that medical treatment will be sufficient to reach menopause, and UPA in intermittent cycles will be our first option, relegating hysterectomy and other methods to a second option. In fact, health economic-related studies indicate that the economic impact is lower with UPA treatment than hysterectomy at 4 years after diagnosis of UFs.\textsuperscript{67}

Nevertheless, bulky effect and dysfunction of neighboring organs may modify this general approach. When the patient without gestational desire is younger than 42–44 years, the first option indicated would be hysterectomy. Hysterectomy provides a radical and definitive therapy because a long period of time is expected until menopause. Therefore, the risk and invasiveness seem justified. We should also remark that myomectomy is not indicated in perimenopausal woman who do not want to get pregnant because it is often more bloody and riskier than hysterectomy, and the recurrence of UFs and symptoms can still occur. Alternatively, if the patient wants to conserve her uterus, UAE or UF ablation (with MRgFUS or RF) may be the good approach and intermittent medical treatment with UPA may be a good option for willing patients aware of the duration of the treatment (Figure 4).

In summary, it is taken for granted that all these treatment options are assessed with the patient, informing the pros and cons and pondering her desires. Finally, the patient’s decision and expectations should determine our attitude.
Women with gestational desire

We have to differentiate those patients who wish to gestate immediately from those who do not wish to gestate in the short-term, but want to in the future. We should also add the group of patients already diagnosed with infertility where UFs are the etiological condition (Figure 4).

Regarding patients with short-term desire of gestation, we should clearly differentiate those who may try to get pregnant despite the fibroids, and those who should undergo a treatment before becoming pregnant. Approximately, half of the UFs will not cause problems in the gestation, but on the other hand, a third could induce abortions and premature births. In both cases, it is not easy to correctly assess these patients, although compromise of the endometrial cavity and the location of fibroids are essential to define. As a general rule, submucous UFs (0, 1, and 2) should be operated on by hysterectomy. However, type 4 intramural UFs larger than 5 cm and types 5 and 6 larger than 6–7 cm should be treated by hysteroscopy. However, type 4 intramural UFs larger than 5 cm and types 5 and 6 larger than 6–7 cm should be treated (Figure 4).

In general, we still consider myomectomy as the standard treatment in this group, where the patient may gestate between 4 and 6 months after surgery, or even earlier. We also prescribe one or two cycles of UPA presurgically only in case of anemia because of hypermenorrhea. In this case, the consistency of the UF is usually softer after UPA, but the surgical plane on the pseudocapsule is preserved, so this does not hinder treatment and laparoscopic surgery is adequate.

We obviously reject hysterectomy as an option for treatment, but it should be noted and included in the informed consent as an unexpected consequence if a myomectomy is to be performed. However, the risk is low and should never exceed 2%–3% of myomectomies.

We do not recommend UAE either, because of potential commitment of the ovarian reserve or healthy myometrium. And, only in cases of a single, symptomatic fibroid with a difficult surgical access, ablation (either MRgFUS or RF) may be indicated, considering that gestation does not seem to be affected and UF growth stops.

However, the treatment with one or two UPA cycles could be the solution in patients with type 3 myomas or those where a slight decrease in size may improve cavity condition. In these cases, the volume reduction of the UF may achieve a regular endometrial cavity free of UF. Patients could then safely gestate after the second, and probably the first menstruation. The effects in gestation seem to be beneficial because gestation appears to inhibit fibroids’ growth through apoptosis that occurred during the treatment period. No adverse teratogenic effect has been reported.

UPA treatment should be a valid alternative also in polymyomatous uterus and those presenting myometrial scars,
with uncertain surgical outcome. In any case, the situation could be reassessed after treatment, evaluating the effect on UFs and the influence on the endometrial cavity.

When the desire of pregnancy is deferred over time, it is recommended to delay the intervention until the moment when the patient is willing to gestate. Recurrence of fibroids is frequent and surgery becomes more difficult each time, worsening the prognosis and increasing the risks of hysterectomy. Therefore, we should follow-up and assess the growth of UFs. If the patient presents symptoms, symptomatic treatment (progestogens and tranexamic acid) or UPA is recommended. However, myomectomy should be indicated if the patient does not have a good quality of life. UPA administration may be considered in asymptomatic patients as secondary prevention, especially in young women who do not want to get pregnant in 5 or 10 years. UF growth would stop and possibly the size would decrease, and this will allow delaying of a potential surgery in order to prevent UF complications during pregnancy (Figure 4).

**Discussion**

UFs represent a prevalent problem with different degrees of effect on patients, involving a large personal and social cost. In fact, a range of possible patient states are displayed, from those who are asymptomatic to others with severe symptoms that can produce anemia and serious complications. On the other hand, the fact that it is a benign pathology with several options of treatment has contributed to understimating the attention of this pathology.

Classically, the attention of UFs has focused on their study and characteristics by guiding the treatment, often without going deeply into the specific needs and preferences of the patient.

The treatment of these benign tumors has been eminently surgical. However, UFs with mild symptoms could be managed with drugs aimed to attend to the specific symptom, usually bleeding or pain.

Recently, the huge information available as well as the demand for clinical results contributes to a greater power of decision from patients, resulting in the search for less-invasive and costly methods. Moreover, surgical procedures have also evolved, being less aggressive and having a better recovery. Finally, alternative methods of interventional radiology such as UAE and ablation have been developed, with good results.

Two decades ago, with the emergence of GnRH analogs, a curtain of hope was opened, with a treatment that finally acted directly on UFs. Nevertheless, the side effects and the briefness of the medical effect resulted in them being abandoned progressively. Recently, a new drug has appeared, with a direct effect on UFs and barely any side effects, allowing a long-term treatment. UPA treatment also causes amenorrhea as a side effect in a high percentage of patients, by monitoring the bleeding, which is the most frequent symptom. In summary, this is a real milestone in the management of UF pathology, which may allow patients to be treated by avoiding surgery in many cases.

As a consequence, after almost 2 decades without relevant updates, it is necessary to update the protocols for the management of UFs. In fact, the SEGO has changed its protocol twice, and the Canadian and other societies, have reflected their interest in several articles.

However, it is crucial to transfer the experience to the gynecologist, who will handle the greatest number of cases, given the characteristics of the pathology. Frequently, it is difficult to introduce new ways of acting in deeply rooted habits. For this reason, we believe that it is important to establish specific protocols that facilitate the implementation of the new therapies. Therefore, it is necessary to establish several profiles or groups of patients with common characteristics, arranging for a couple of treatment possibilities and creating a putative algorithm.

It is easy to see that the clear majority of patients are from their 40s to the early 50s. They are usually women with reproductive desire fulfilled and whose main symptoms are bleeding and pain. Alongside them there is another group, a decade younger, where the main concern is infertility, generally with little incidence of symptomatic. Addressing the problem requires different points of view. Nevertheless, in all cases, a detailed diagnosis with a meticulous description of UFs and their topography is crucial.

We believe that surgical treatment remains an excellent option. However, in those cases where the UFs are amenable to hysteroscopy, other considerations should be taken into account. In addition, the use of UPA as an adjunctive treatment prior to hysteroscopy has been shown to be beneficial in the reduction of UFs and recovery of the patient prior to surgery. It also modifies the approach of fibroids with greater surgical complexity, by making the intervention easier. Nevertheless, in patients where the hysteroscopic solution is not possible, we must consider the different profiles mentioned above. Additionally, it is important to consider the woman’s fertile life so that we can project the most probable scenarios in her pathology. In that way, doctors could recommend the solution that is considered more
We believe that after two regimens, once the treatment is finished, the safety for gestation is maximum. Additionally, RF ablation and MRgFUS do not appear to affect fertility, and are also good methods for UFs with difficult surgical access.4,45

Acknowledgments
The participation of AM was supported by a grant (CD15/00058) from the Spanish Ministry of Economy and Competitiveness. The funders had no role in study design, data collection and analysis, decision to publish, or preparation of the manuscript.

Author contributions
AM and JM conceptualized the study and MT, JDC, GE, and IC were involved with the implementation process. All authors contributed toward data analysis, drafting and critically revising the paper, gave final approval of the version to be published, and agree to be accountable for all aspects of the work.

Disclosure
The authors report no conflicts of interest in this work.

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