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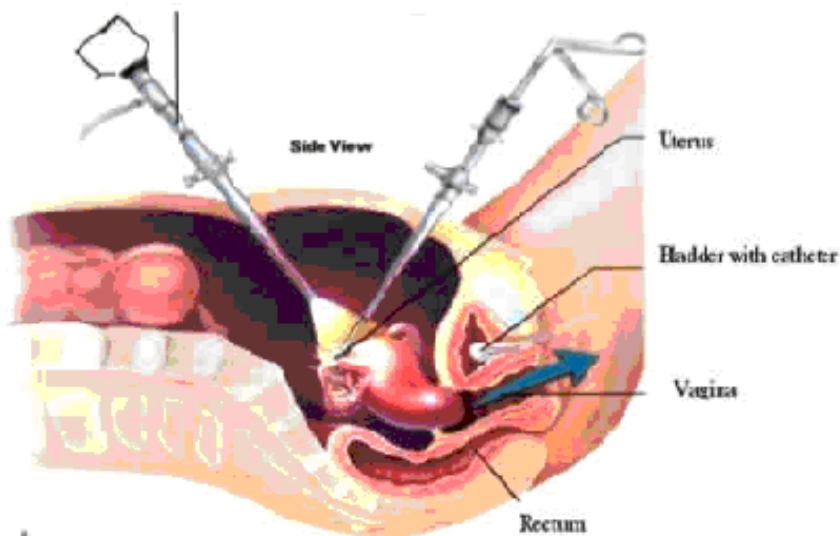
## **How to decide if you might need: Hysterectomy - removal of the uterus**

Any surgery should be done for a very good reason, by the most appropriate surgical route, in the least debilitating way, allowing the speediest recovery of function. Deciding if the uterus or ovaries should be removed is two separate processes, for two different sets of reasons. So, hysterectomy will be considered first, and removal of the ovaries will be discussed later in this paper. First are listed a few definitions, then some background information about hysterectomy and then a section on all the reasons why some women would benefit from surgical removal of the uterus while others may happily avoid surgery.

**Total Abdominal Hysterectomy (TAH):** This most performed surgery requires a four-to-eight-inch abdominal incision (vertical if cancer or large mass, and horizontal for benign and smaller masses) to remove the uterus, and ovaries, if needed. It can be done for any size uterus, for women who have had children (which relaxes and loosens the pelvic organ connections and widens the vagina), and those who have not. There will be a four-to-eight-inch abdominal scar, either sideways or up-and-down, as required for the specifics of each case. This procedure usually entails two to four days in the hospital and four to six weeks away from work to recover. This type is still done but is the least preferred route by patients because of length of stay, abdominal scar, pain, and disability. It is sometimes the only route possible, or for women who cannot or should not have the less invasive techniques listed below.

**Total Vaginal Hysterectomy (TVH):** This is the next most frequent employed technique of hysterectomy. The surgeon operates entirely through the vagina, pulling the uterus down through the vagina into view, disconnecting the cervix and then the rest of the uterus from their internal supports. To use the vaginal route, a woman must not have a cancer or large mass, and must usually have had a baby or two, which widens the vagina and relaxes the connections of the uterus so it can be pulled down into the vagina to do the operation. There is no abdominal scar. It usually requires only two days in the hospital and about two weeks away from work. Vaginal hysterectomy is a preferred route if all the specific requirements are met: smallish uterus, no cancer, vaginal laxity. The only problems with this route is that uterus cannot be significantly enlarged, the surgeon cannot always get the ovaries out (because they are attached much higher in the pelvis) when they absolutely need to come out in certain occasions, cannot examine the upper abdomen, cannot perform it if adhesions are present, cannot

examine for and remove endometriosis, and the patient has a 5-fold higher likelihood of developing stress urinary incontinence later on.



**To the Left: Cutaway of abdomen inflated with gas to allow surgical removal of the uterus and ovaries in a LAVH and TLH.**

### **Laparoscopic Assisted**

**Vaginal Hysterectomy (LAVH):** The LAVH also involves removal of the pelvic organs through the vagina but includes starting with cutting the ovarian attachments by working through the laparoscopes in the abdomen. It is done this way because the surgeon thinks that the ovaries probably cannot be disconnected by operating only through the vagina. LAVH is performed on women who can have a vaginal hysterectomy but need to be certain the ovaries are removed, or who have had surgeries which make the vaginal route alone more risky or less successful, or who have a cancer. There still must be vaginal laxity and openness, as seen after childbirth. Abdominal scars consist of two to four half-inch incisions. Usually, two days in the hospital are needed with two weeks away from work. Most operating OB/GYN doctors can do this procedure, but not all. The only problem with this route is that research tells us that it takes longer and entails a higher blood loss than a total laparoscopic hysterectomy (see below) and there is still the problem of 5-fold increased risk of prolapse and urinary incontinence later on.

**Laparoscopic Supra-cervical Hysterectomy (LASH):** This type of hysterectomy means that the opening of the uterus was cut from the uterine body and left attached to the vagina. It is touted as preserving a woman's sexual function and preventing prolapse, but research shows that it does neither. Studies comparing women with total hysterectomy compared to supra-cervical hysterectomy had similar sexual function, satisfaction, and frequency. Research results on many women confirm that there is no benefit for sexual enjoyment or prevention of urinary incontinence or saggy vagina. The women with supra-cervical hysterectomies had more monthly bleeding (their periods) and needed the progesterone supplements in their menopause to prevent hyperplasia and cancer of the cervix. Many had to have their cervix removed later to alleviate pain or bleeding that persisted after hysterectomy. A few have developed fibroids, adenomyosis or cervical carcinoma.

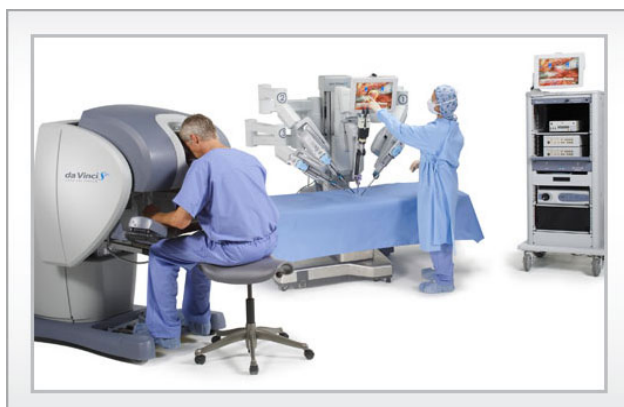
**Total Laparoscopic Hysterectomy (TLH):** This procedure involves removing the uterus by operating through the scopes in the abdomen and passing the tissue out through the vagina or through one of four of the tiny half-inch abdominal incisions. Large uteri and ovarian cysts, cancer and pre-cancer conditions can all be treated by laparoscopic hysterectomy. Because there is no operating through the vagina (though tiny pieces of tissue can be passed down through it), there is no requirement for a wide

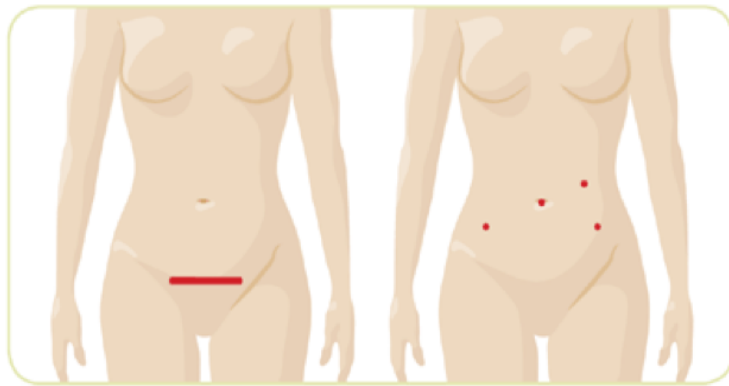
vagina or loose ligaments from childbirth, and no problem with increased urinary incontinence risk later. Hospital stays are shorter and blood loss is about half. Pain is less and time off from work is only two weeks, not six. There is no increase in risk of urinary leakage after this type of procedure, and some report that mild leakage was corrected. This is because your physician connects the inner end of the vagina where the uterus was attached to the three ligaments that originally held up the uterus (Round ligament, Uterosacral ligament, and Cardinal ligament).



A. In the operating room  
B. These are the usual incisions for a laparoscopic hysterectomy. The fourth incision is inside the bellybutton

**Robotic-Assisted Laparoscopic Hysterectomy:** This is the newest form of laparoscopic hysterectomy. Similar to traditional laparoscopy, small one-inch incisions are made in the abdomen, and the laparoscopic instruments are placed into the pelvis. The difference between traditional laparoscopic surgery and robotic assisted laparoscopic surgery is the precision of the robotic instruments. The da Vinci System provides surgeons with enhanced visualization-including high-definition 3D vision and a magnified view of the surgical site, increased precision, and better control. While sitting at the control console, the surgeon controls the system, which translates his or her hand movements into smaller, more precise movements of the tiny laparoscopic instruments inside the patient's body. The blood loss is minimal, the patient has less post-operative pain, and the patient usually goes home the next day and is back to normal activities in about two weeks. You can also go to [www.daVinciHysterectomy.com](http://www.daVinciHysterectomy.com), [www.YouTube.com](http://www.YouTube.com), [www.daVinciStories.com](http://www.daVinciStories.com), and [www.HysterSisters.com](http://www.HysterSisters.com) to learn more. |





Open Hysterectomy Incision

da Vinci Hysterectomy Incisions

**Now a few facts about hysterectomy:** No matter what you have read or found on the internet or heard from your friends—what follows are the facts for the vast, vast majority of women. All the women who had a hysterectomy and are so happy with their results do not make websites, write books, or talk about their surgery, so the internet and books are not a reliable source for most outcomes. In medicine, we report patients' opinions and their experiences by analyzing hundreds of questionnaires and publishing the results so that you know what the probable results of your surgery will be and are not misinformed or biased by the individual stories that you have heard or read. In addition, the stories that you have heard or read may have had multiple other factors that were not accounted for, such as whether the ovaries were removed, and if so, was hormone therapy prescribed afterward? In the correct dose? Why was the hysterectomy done in the first place? Was it necessary? Was there a cancer? Was radiation given after the surgery? Were there adhesions? Was there an infection? Was there endometriosis? All of these factors can impact a woman's postoperative comfort and sexual function. So, what follows are the facts.

- A. **Your Uterus is not a filter:** There is a common misperception that there is a need for women to have a cycle every month to cleanse their bodies. If that were the case, then what would women who have already had a hysterectomy use? Or what would be the analogous male organ and function? The only true filters your body has are the liver and kidneys, and to a lesser extent, the lungs and skin. Medically speaking, the only reason you have a uterus is as an incubator, and the reason you have a cycle every month is to get the uterus ready for a possible pregnancy next month. If that is not a desire or concern of yours, then there is no need to worry about not having a cycle because you have had a hysterectomy.
- B. **Hysterectomy does not ruin your sex life.** Orgasms will be the same. Lubrication will be the same. Your libido will not change. But be aware that these things do change as you age, and particularly as a function of your hormone status. But a hysterectomy is 5 inches away from any of the nerves of orgasm and will not ruin any sexual function. Neither will removal of the cervix with the uterus. If you know someone who claims her sexual function was worse after hysterectomy, suggest that she see another gynecologist to make sure that she is hormonally well tuned and medically well-tuned (thyroid and hormones and other things checked). From so very many studies, including this 1999 study of 1,299 Maryland women undergoing hysterectomy, the overwhelming evidence is that

women thrive sexually and emotionally after hysterectomy when the hormones are tuned, and cancer therapy is not needed. In the Baltimore study, most women had sex more often, and more regularly after their surgery. 71% had resolution of their previously diminished libido, while 4.3% reported a new problem with low libido after the surgery. 84% had resolution of pain during intercourse, while 2.3% developed a new pain during intercourse. 65% of women who had few or no orgasms before surgery noted improved orgasmic ease and frequency afterwards, while 2.6% developed a new problem with orgasm frequency. After hysterectomy, more women had stronger orgasm, and fewer women were sexually inactive. (Rhodes et al, Hysterectomy and sexual functioning, JAMA, 1999). Your physician won't operate on you if you don't stand to benefit with a strong statistically significantly proven likelihood.

- C. **Hysterectomy will not cause prolapse of your organs or bladder leakage.** Studies of over 27 thousand women in the Women's Health Initiative confirm that hysterectomy does not increase the risk of bladder leakage, prolapse of the bladder, or prolapse of the rectum. (Hendrix, AJOG, 2002, Hendrix, JAMA, 2005) Having children, smoking and obesity were the strongest risk factors to predict for incontinence and prolapse. In fact, research also shows that weight loss is one of the most effective non-surgical remedies for urinary leakage of all types.
- D. **Hysterectomy will not result in your aging faster.** Neither will removal of the ovaries. If you are under or around age 50, you will probably want to take hormones for a short while to mimic your natural gradual transition into menopause. But remember that no matter what, you will continue to age! (That's a good thing.) And about 90% of women find they do not need hormones to feel like their normal selves after their early fifties, even though most take hormones for until then. The menopausal symptoms simply go away for most, so the hormones are no longer needed. The hormones would not and could not prevent aging, wrinkles, or arthritis.
- E. **Hysterectomy will not make you get fat.** Neither will removal of the ovaries. Research tells us that many women gain weight as they age, especially if they don't exercise and modify their eating habits. So, if you are going to be one of those women and eat more than you need and exercise less than you should, then you will gain weight. Hormones won't make you gain weight or overeat. In a research project in which women took a pill for three years, half receiving estrogen and half a placebo or blank pill, the women on the blank pill gained about 6 pounds and the women on the estrogen gained half as much. Conclusion: you must exercise all your life and eat no more than you need all your life.
- F. **Hysterectomy will not harm your sense of womanhood or femininity.** Some women are afraid that they will no longer be womanly or appear womanly to their spouses. Nothing could be farther from the truth. Your sense of womanhood is in your brain, your soul, and your heart, but not in your genitals. No surgery can alter that. If you are under age 50 or so and have your ovaries removed, you will continue to feel normal with low dose hormone therapy that mimics your ovarian function until you would have naturally entered menopause. Please read much more about hormone

therapy in the other brochures. Removing only your uterus creates no hormonal changes. Your sexual partner cannot specifically tell that you have had a hysterectomy unless you choose to say so.

- G. **Hysterectomies should not leave the cervix in.** Research (Thakar NEJM2003, Kim AAGL2003) comparing outcomes of women who had a supracervical hysterectomy or total hysterectomy confirm that urinary frequency, stress incontinence, bowel symptoms, enjoyment of sexuality, frequency of sexual activity and of orgasm were the same whether the cervix came out with the uterus or not...but in all reports of supracervical hysterectomies, up to 25% of women having a sub-total hysterectomy had cyclical menstrual bleeding and 2% had cervical prolapse (van der Stege, JSLS,'99) and all of them needed to take a progesterone if they needed estrogens after their surgery because 23% have estrogen sensitive endometrium left in (Okaro, BJOG, 2001). There are many reports about fibroids, chronic pain, and cervical cancer in the cervical stump long after the surgery, necessitating re-operation to remove the cervix in 24% (Okaro, BJOG, 2001).

## **Why Would You Need a Hysterectomy?**

Removal of the uterus is performed to prevent, alleviate, or treat pain, pressure, bleeding, or cancer. Each reason is described in detail in the following pages.

### **1. Cancerous or pre-cancerous problems of the ovaries, uterus, or cervix:**

**Cancer or pre-cancer of the uterus** – When cancer grows inside the uterus, both the womb and the ovaries must be removed in their entirety because they are lymphatically connected and can allow easy spread to the other organ. The cervix cannot be left in as any type of uterine or ovarian cancer can spread to the cervix, making it Stage II rather than I. If a pre-cancer of the uterine lining is present, it is appropriate in many cases to employ one or two 3-month trials of progesterone to regress the overgrowth of the lining. This therapy is successful in about 80% of women who do not have tiny areas of early cancer reported in their uterine biopsy. If there is still precancerous overgrowth of the lining after two progesterone trials, then a laparoscopic hysterectomy will be useful in preventing the progression to a cancer later on.

**Pelvic mass, infection, cancer, or pre-cancer of the ovaries** – A pelvic mass must be examined by both physician and sonographer to determine if it is a cancer of the ovary. If the strict criteria for a benign growth are met and no worry for cancer is present, then no surgery is needed, unless the mass is huge and imposes by its size or causes pain by twisting. Many women's ultrasound picture falls into the gray area of pelvic masses – that is, their ovarian masses have one or two features of a malignancy but appear otherwise probably benign. These tumors must be surgically investigated by removing them laparoscopically and giving the tumor tissues to the pathologist to examine under the microscope

during the surgery to see if a malignancy is present. While most are indeed benign, some are found to be malignant in the earliest stages.

If a cancer is found in an ovary, then the entire uterus and both ovaries must be removed, with the appendix, the lymph nodes and a fatty pad in the abdomen called the omentum because ovarian cancer likes to spread there. This is not negotiable, except for one case; unless you have a very rare, early stage of ovarian cancer that is a very mild type and you have never had any babies, and plan to. In this rare situation, the ovary can be removed and the cancer staging procedures done, but the other ovary and the uterus are left in for fertility without risk to the patient.

**Pre-cancer and cancer of the cervix** – Recurrent abnormal pap smears which have been fully investigated by thorough colposcopic (magnified) examination can often be treated by removal of the uterus. This reduces likelihood that the pre-cancer will return and reduces chances of either ovarian or uterine cancer. It is an optional treatment, however, and can sometimes be avoided by careful colposcopic Laser or Loop treatments, unless so many cervical treatments have already failed and there is very little cervix left. When cancer of the cervix is present, a specialized “radical” hysterectomy with a lymph node dissection is performed through the laparoscopes.

## **2. Benign problems of the uterus and ovaries, and pain**

**Fibroids of the Uterus** – Fibroids are round swirls of overgrown benign muscular fibers in the wall of the uterus. The only reasons to remove a uterus for fibroid growth are if it causes heavy or chronic bleeding, pain or pressure, frequent urination, blockage of the ureters (tubes that bring the urine from the kidneys), grows during the menopause while not on hormones, or concerns the fibroids might be cancerous (<0.5% or ½ of 1% are cancerous). Then a total hysterectomy should be done, usually through the laparoscopes.

But most fibroids DO NOT BOTHER ANYONE!!! The rule is that fibroids that do not bother anyone should be left alone. Many gynecologists have been too quick to tell a woman she needs a hysterectomy when her fibroids are not bothering her, or not bothering her very much. Each woman should be the judge for herself. Some women prefer to avoid hysterectomy because menopause is near, and their symptoms are not too significant. This is reasonable because fibroids usually shrink about 30% in early menopause. Other women grow fibroids that are huge or cause discomfort and avoid hysterectomy either because they have heard awful things about hysterectomies, or they don't choose to take the time off from their busy lives to make their life a little more comfortable. Some women feel they cannot take this amount of time for themselves or draw attention from their family to have surgery. They should honor their body and value their life experience and provide for themselves as well as they provide for their families.

**Heavy bleeding can be caused by fibroids** or polyps on the inner mucous lining of the uterine cavity either at the wrong times or in huge quantities, even when the fibroids are small. Uterine polyps, which are small skin tags inside the cavity, can also cause bleeding, but an ultrasound can show these as separate from the fibroids. A biopsy will need to be done to confirm that any bleeding is not due to a cancer in the endometrial cavity. When bleeding is very heavy each month, many women spend the next few weeks after the period regaining

strength as they use their energy to make new blood to replace the losses. This cycle, if repeated, or is heavy, can cause anemia, severe fatigue and even depression this way. A endometrial ablation or laparoscopic hysterectomy can stop the hemorrhage, prevent anemia, and allow blood stores to replenish, restoring energy and vitality, and a life free of monthly hemorrhage.

If fertility is desired in a young woman, it is appropriate to remove smaller fibroids under the uterine lining from a hysteroscopic approach (a scope passed through the cervix up into the uterus). When fertility is not desired, then the safest, simplest single approach is to remove the uterus.

**Pelvic pain or pressure can be caused by fibroids** on the outside of the uterus. These can become quite large and create a mass effect in your pelvis, which you can often feel. The larger fibroids can be felt above the pubic bone, but still may not cause symptoms of pelvic pain, bladder pressure, low back pain or frequency of urination. When the uterus can be felt below the bellybutton, many women notice pressure on their bladder or have low back pain. Laparoscopic hysterectomy is the easiest and safest procedure for them, with minimal blood loss and maximal probability of resolving the problem with one procedure.

If a younger woman has large fibroids and realistically desires to preserve her fertility, it is appropriate to laparoscopically remove the larger outer fibroids. This should be done about 8 weeks before she desires to become pregnant, so she will not prevent implantation of the pregnancy or cause pain during the pregnancy. Removal of the fibroids should be done through a horizontal incision, which is a bigger surgery because the surgeon must cut into the uterus and not sever any of the major arteries to the uterus. Blood should be donated in anticipation of this procedure, as the blood loss can be large. Our physicians do not perform this surgery on peri-menopausal women unless conception is the clear goal, because it entails taking on major risk for nil benefit except fertility.

***Pain in the pelvis can be relieved by hysterectomy with oophorectomy.***

**Pain before or during periods** - Pain can be caused by large fibroids, endometriosis of the uterus, or adhesions. Endometriosis is the tissue that is identical to endometrial lining tissue, located in extra-uterine locations. It usually grows thick and bleeds each month just like the endometrial cavity lining, only it hurts much more to have this tissue bleeding and sloughing monthly in the wrong locations. Monthly pain in the pelvis just before and during the period is common and likely due to endometriosis if it cannot be alleviated by Naprosyn (Aleve). Always try Naprosyn for gynecologic pain before seeing the doctor, as surgery can be avoided this way. When Naprosyn does not alleviate the pain, and the pain is causing a woman to miss work or simply feel awful, she should consider how long she will keep having the pain without any surgery: usually until menopause, usually age 51. If this sounds like too long, then consider the surgery.

When endometriosis is suspected as the cause of monthly pain, then it is advisable to remove not just the uterus, but also the ovaries, because they can easily stimulate new growth of endometriosis with the high levels of estrogen that the ovaries secrete. When the ovaries are left in there is a 50% chance of relief



from pelvic pain. When the ovaries are removed, the relief from pelvic pain is over 90% likely.

If fertility is desired and endometriosis is suspected based on the pain profile, then laparoscopic removal of endometriosis is reasonable with conservation of the ovaries. Preserving the ovaries is essential if fertility is desired, but it also allows the endometriosis to re-grow over the next year or so, with recurrence of pain and need for repeat surgery in about 50-75%. This is due to two reasons: first, the ovaries put out much more estrogen than HRT involves, stimulating re-growth, and secondly, the ovaries often harbor microscopic or deep nests of endometriosis that progress and cause more pain or ovarian masses and need for repeat surgery. Unless fertility is the clear goal, the most effective surgery for painful periods and pelvic pain in general must include removal of the ovaries.

In addition, the most effective surgery for pain in the pelvis or severe monthly cramps must involve removal of the uterus. As a woman ages past 40, the uterine lining can begin grow *inside the muscular wall of the uterus* (adenomyosis) and cause pain either all month long or in cycles. This is called adenomyosis, and it is commonly diagnosed in the mid to late 40's. This pain does not respond well to Naprosyn, making endometrial ablation or laparoscopic hysterectomy/oophorectomy a welcome choice for relief of pain.

**Pain during sex.** Painful sexual activity involving deep thrusting into the vagina is usually caused by endometriosis, adenomyosis or, possibly adhesions from a prior surgery. If Naprosyn doesn't relieve pain during sexual activity, then an anatomic cause is suspected, and surgery can relieve this pain with reasonable effectiveness.

**Infection of the uterus, tubes, or ovaries.** Because pelvic infections are frequently recurrent and occasionally associated with malignant changes, surgery to remove the uterus, tubes and ovaries is standard, especially if fertility is completed.

**Quality of life: do you deserve it?** Hysterectomy causes short-term morbidity but appears to increase average life expectancy slightly among peri-menopausal women and is cost-saving. Medical outcomes and economic consequences favor the hysterectomy over trying to preserve the uterus as medical remedies are most often unsuccessful, and ultimately the surgery needs to be done. Research on women undergoing hysterectomy shows that 78% are symptom free after their operation, and another 14% have reduced symptoms, while 8% have new symptoms. Fully 95% report that they were pleased with their HRT (Hormone Replacement Therapy), or it exceeded expectations, 5% reported not liking their HRT because for some it contained or did not contain testosterone. Physical well-being was improved in 80% and unchanged in 15% and worse in 4.6%. 32% noted less depression than before the surgery, while 65% had no depression, and 4% became more depressed. Overall, 3% were dissatisfied. Satisfaction was associated with understanding the need for the surgery, a positive outlook, removal of the ovaries, taking HRT for at least the short-term, complete symptom relief, a quick recovery, improved physical well-being, and the absence of depression. (Khastgir et al, Am J Ob/Gyn, 2000) In another study, at 12 and 24 months after their hysterectomy 95.8% and 96.0%, respectively, reported that the hysterectomy had completely or mostly resolved the problems or symptoms they

had before surgery; 93.3% and 93.7%, respectively, reported that the results were better than or about what they expected; 85.3% and 81.6%, respectively, reported that their health was better than before the hysterectomy; and 87.9% and 93.1%, respectively, reported being totally recovered.

After reviewing your symptoms that have led you to review this document, it is only you who can decide whether your life could be significantly improved by eliminating the gynecologic problems that brought you to this point. If your problems do not impact the quality of your life, then there is no benefit to surgery. If you have significant room for improvement, then make the decision to create a new life for yourself. You deserve it.

## **FAQ's (Frequently Asked Questions)**

### **Will I be happy after I have a hysterectomy?**

The highest probability is that you will forget that you had a hysterectomy because your uterus will no longer be a source of pain or pressure or bleeding or cancer. Because we only do hysterectomies on women who, based on medical evidence, will benefit from them; our patients are healthier after their surgery than they were before. Ask any of them.

### **How safe is having a hysterectomy?**

A hysterectomy is a major surgery, and all surgeries have risks associated with them. Your doctor will discuss the risks, benefits, and alternative options with you prior to your surgery. Different surgical indications and individual patient's circumstances and preferences direct surgeons to prefer one hysterectomy over another. Rest assured, your surgeon will offer the hysterectomy that gives you the best chance to achieve the best results for you, with the least risks, and the quickest recovery.

### **How much pain will I have after the Hysterectomy?**

There will be some discomfort when you wake up from surgery, less with laparoscopic hysterectomies and the traditional open abdominal hysterectomies. Some measures are taken during the surgery and before you wake up to minimize the discomfort, and medicine will be given in recovery and during your hospital stay to minimize your discomfort. You will be given a prescription for medication when you leave the hospital to take while you are home. If you need additional refills, please call our office, and let us know and we will be happy to call in a refill for you.

### **How long will the procedure take?**

Depending on the type of hysterectomy and the reason for the hysterectomy, along with any unforeseen problems, can contribute to the length of your surgery.

If you are having a robotic procedure, it usually takes a little longer to get everything in its proper place once you have been put to sleep. Tell your family members and support team to expect about 2 ½ hours, but your doctor will let you and them know specifically when they see and talk to you and your family members prior to your surgery.

### **What happens after the surgery?**

Usually, you can expect to go home either the same day (50%) or the next day (50%) after surgery, however if your doctor thinks or you feel you need to stay an additional day, most insurances will pay for the additional day. When you get home, you are encouraged to begin walking the next day. Nothing strenuous, just causal walking. You can begin driving at one week from your surgery. By two weeks, you should be able to resume your normal activities. Unless you have a strenuous job, you can return to work if you like. By four weeks, you should be able to do anything you like, except for intercourse (see below).

### **How soon can I have intercourse after my hysterectomy?**

With traditional hysterectomies, you can usually resume vaginal intercourse after 4 weeks. With robotic-assisted hysterectomies, you will need to wait 8 weeks to resume vaginal intercourse. The reason is the way the vagina is opened to remove the uterus and the way it is closed. It takes longer to heal using robotic instrumentation. It is a small price to pay for you (your husband/partner might disagree) for the quicker recovery. If you have vaginal intercourse too soon, you risk the end of your vagina tearing open and potentially your intestines coming partially out of your vagina. We have seen it happen! Other forms of intimacy are fine, just nothing in the vagina until 8 weeks.

### **How long will I need to be off work?**

If you do not have a physically strenuous job, you can potentially return after 2 weeks from a robotic hysterectomy, 4 weeks after a traditional hysterectomy. You can take off up to 4 weeks without a note from your doctor. More than 4 weeks will require a medical reason and your doctor will have to exam you to determine if additional recovery time is needed. We will be happy to fill out your short-term disability and/or FMLA. It usually can be completed in 7-10 business days and will cost \$50.

### **Are there any risks to the surgery?**

There are always risks to surgery, there is no such thing as a risk-free surgery. While these complications are rare, they do happen. Sometimes complications are seen during surgery and are fixed at that time. Sometimes they do not occur until weeks later. These complications will be fixed at a later date, sometimes requiring additional surgeons not were not involved in the initial surgery. Sometimes the complication may require multiple procedures or surgeries. Injury to the ureters (uterus drain urine form the kidneys to the bladder), vaginal cuff problems (scar tissue in the vaginal incision, infection, bacterial skin infection, pooling/clotting of blood, incision opens, separates, or has connection to bladder, ureters, or rectum), injury to bladder, bowel, colon, or rectal injury, vaginal shortening, problems urinating, vaginal tear, or deep cut when surgeon removing the uterus.

### **If my doctor recommends a robotic-assisted hysterectomy, will my insurance cover the procedure?**

We will always your call your insurance to pre-certify your procedure. While the insurance industry, in general, will not guarantee payment for any procedure prior to the procedure; we have not had any problems with coverage for the procedure. We will not do any procedures without contacting your insurance company and doing everything in our power to assure coverage and payment.

### **How do I schedule my procedure?**

All you need to do is call the office and ask to speak with Dr. Salter's surgery scheduler, Sarah. Once you instruct Sarah to schedule your procedure, she will take care of the rest for you. We ask you to call us at a minimum of four weeks before you want your surgery to give us time to contact your insurance to pre-certify your surgery. Dr, Salter is usually booked at least that far in advance, so call us as early as possible. If you have time constraints, please make us aware of these and we will do our best to schedule your procedure at your convenience.

### **Conclusions**

Many women choose to keep their gynecologic symptoms because the symptoms are not bothersome, but those few women disabled by significant symptoms can have great improvement in their lives with surgery. When the reasons are real and strong for a hysterectomy and/or removal of the ovaries, women usually emerge from the surgery and recover their normal whole-life function with ease and vigor. We don't fix what ain't broken, so no one will have a hysterectomy/oophorectomy unless she really stands to benefit from one! Always be certain that you agree with all the reasons for any surgery proposed, and that all your questions have been thoroughly answered. Do not have any surgery unless you are convinced of the need for it, and aware of the risks/benefits.



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## **How to decide if you might need: Oophorectomy - removal of the Ovary**

Removal of one or both of your tubes and ovaries (unilateral or bilateral salpingo-oophorectomy) can be performed at the same time as your hysterectomy; or if needed, at a later date. However, there is no need to remove the tubes and ovaries at the same time of your hysterectomy unless there is a problem. Listed below are different reasons to keep your tubes and ovaries, and reasons to have them removed.

**If you are still involved in your fertility years**, an ovary should be removed only if there is a large, complex, or persistent mass on it or if you have intolerable pain from endometriosis. There should be an attempt to preserve the portion of the ovary that is normal, and to make sure the other ovary is also normal. While relief from your pain is not guaranteed, and cysts or tumors may recur, surgery is effective in making certain that there is no cancer and can reduce or eliminate the pain temporarily for conception. However, the pain or mass may re-develop in the future whenever the ovaries and uterus are left in for fertility purposes.

**If you are past your fertility years and need surgery for a mass or for pain and have normal ovaries**, then consideration should be focused on permanent relief of pain, reduction in need for further surgery, preventing ovary cancer and reducing risk for breast cancer.

**If a woman undergoing hysterectomy is over 50**, and has no problems with her ovaries, no pain suggestive of endometriosis or adenomyosis and no family history of breast or ovarian cancer, she should still consider having the ovaries removed *incidental to her hysterectomy*. It is recommended only because the risk of ovarian cancer in her lifetime is about 1.7% with a 1.5% chance of dying of it. Among the risk factors for ovarian cancer are increasing age, obesity, prior breast cancer, endometriosis, prior infertility treatments, never having had a baby, and a family history of ovary or breast cancer. In one study of women who developed ovarian cancer, 14% of the women had previously had a hysterectomy and had preserved their ovaries. While it is impossible to say that all 14% could have prevented their ovarian cancer by having the ovaries removed earlier, it is reasonable to assume that most cases would have been prevented by removal of the ovaries.

**Removing the ovaries will put you into menopause**, but the hormone therapy to keep you feeling normal is now done well and will keep you feeling normal. The goal would be for you to take bio-identical estrogen in a lower dose than your ovaries released, but enough to keep you feeling yourself, tapering the dose so you enter a natural menopause at about age 51 when most women enter menopause. Normally, the ovaries cease function at about age 51, with no known functional benefit after that age, only risk. Therefore, the standard of care is to recommend removal of ovaries incident to hysterectomy for women over age 50. This is the softest reason for removing the ovaries. This reason should be a very individualized decision for each woman. Ask for the information brochure on hormones for women around their menopause.

Estrogen replacement therapy can be done easily and safely, and simply eases a woman into the same transition that she will enter during the next few years of her life. In fact, replacement therapy doses of pure estrogen are *much lower* than the levels normally made daily up to age 51 by the ovaries. These low doses of pill, ring or patch, lotion, or pellets of estrogen are lower than the levels that the ovaries naturally secrete, and can easily prevent hot flashes, and protect bone density without any increased risk of heart disease or breast cancer, until age 60, according to the Women's Health Initiative reports. There is a lifelong decrease in new and recurrent breast cancer risk after removal of the ovaries, even if women take low doses of pure estrogen to prevent hot flashes. It is entirely safe for women to use estrogen after their hysterectomy/oophorectomy until the age that the ovaries naturally quit, 51; and safe for even ten more years, the Women's Health Initiative tells us. Heart disease and breast cancer risk were slightly lower for women using estrogen alone between ages 50 and 60.

**Pelvic mass is not cancer:** Your ovaries **should be removed** if there is a mass greater than 6 cm, or a cyst of any size that has solid parts, or if there is a significant chance that a benign cyst can recur later (e. g. endometriosis) requiring repeat surgery. If you have completed your fertility, eliminating pain, avoiding further surgery, and preventing a cancer become the priorities. If there is a complex overgrowth of tissue replacing the bulk of your ovary, then it should be removed to rule out the possibility of cancer. Ultrasound or sonography (same) is used by both the abdominal view--a wand is moved over the skin of your abdomen, and the vaginal view--a small wand is placed inside your vagina-- to obtain precise measurements of the ovaries and the uterus. This is the best tool for examining the pelvic organs.

**Relieve significant pain, during menses, during sex or other activity**, which can result from tumor growth, adhesions, or endometriosis. Leaving even a normal appearing ovary inside when treating endometriosis or pelvic pain reduces the chance of successful pain relief from over 90% to under 50%. This is because the normal ovary secretes high levels of estrogen and can re-stimulate growth of endometriosis in the pelvic organs, and because the ovary itself is a popular site for endometriosis to grow at any time, even if it looks normal to the surgeon during surgery. For this reason, it is advisable to remove both ovaries for greatest success in relief, if pelvic pain is the reason for surgery.

**Relieve disability from premenstrual symptoms (PMS)**, including premenstrual migraines and mood disorders such as severe anxiety, rage, and depression. Very few

women have such severe symptoms that their lives are seriously impacted, but for some, these symptoms can be quite disruptive to their orderly living, PMS emotional changes can make some women do things they regret or have to undo or apologize for out-of-control behavior, scheduling vacations and important events to avoid their episodes of PMS. Other symptoms such as depression, over-eating, lethargy, rage, tender breasts, migraines, etc. during the 3-10 days before your period starts may simply be bothersome. When birth control pills and antidepressants have not caused relief, removal of the ovaries is necessary, and providing pure estrogen in even daily doses. This can restore a woman to her even, normal, best function. For those few women with this degree of symptoms, removal of the ovaries can be life-restoring.

**Prevention of Hormone-related migraines**, which typically occur just after ovulation, and just before the menstrual flow, can be accomplished by removal of the ovaries. This stops estrogen fluctuations completely and reduces or eliminates the cycle-related migraines. Both the uterus and ovaries must be removed, however, to obviate the need to balance any estrogen with progesterone which can cause PMS symptoms. After the removal of both ovaries and uterus, one only needs to take estrogen alone, which is the hormone that dominates during the second week of the cycle, when women feel most normal, even, and free of migraines.

**To prevent ovarian cancer.** If a woman is not from a family with a known high-risk for ovarian cancer, her risk is about 2% and reduced to zero by ovary removal. Given the high mortality rate (80%) of ovarian cancer, primary prevention strategies for ovarian cancer should be used whenever possible. From another research report: by removing women's ovaries who are having surgery and past their fertility, the overall incidence of ovary cancer would decrease by 15%, breast cancer rates would decrease by 50%, and colon cancer rates would decrease by 15% (Cape, Eur J Cancer Prev 1999). Research shows that few women undergoing prophylactic oophorectomy have regret about their decision.

**To prevent ovarian cancer in women from families with cancers of the breast, ovary, colon, stomach, lung, and lymphomas.** The risk of ovarian cancer was increased 50% in women with a family history of cancer of the stomach, 70% with intestinal cancer, 30% with lung cancer, and more than 200% with breast cancer or lymphomas. (Negri, et al. Eur J Cancer, 2003) Risk of ovary cancer is 17-fold, or nearly 10% lifetime risk, when the family history is positive for relatives with ovarian cancer. (Burgfeldt et al, Lancet, 2002) The chance of developing ovarian cancer associated with a family history of breast cancer was 2-10 times that of women not reporting a family history of breast cancer.

**To prevent ovary and breast cancer in women with hereditary cancer genes.** Among women who have a gene mutation for inherited breast and ovarian cancer (BrCa 1, 2, or HNPCC) removing the ovaries reduces ovarian cancer risk from about 27-44% to about 2-3%. (Rebbeck et al, NEJM, 2002)

Such women need annual rectovaginal pelvic examination, testing of CA 125 level, and transvaginal ultrasonography until completion of fertility. Oral contraceptive use appears to reduce the risk of ovarian cancer while fertility is being conserved. Once fertility is no longer needed, prophylactic oophorectomy/hysterectomy is suggested.

Women found to have a genetically increased risk of breast cancer should be counseled about options for management, including close surveillance, lifestyle modifications, chemoprevention with tamoxifen, enrollment in a breast cancer prevention clinical trial, and prophylactic mastectomy and/or oophorectomy.

**To reduce risk of *new breast cancer*** in the general population. Having the ovaries removed, especially early before menopause, reduces risk of new breast cancer by 50%, a benefit which lasts a lifetime. This may be because ovulations with progesterone secretion are eliminated, or because subsequent estrogen levels are lower, even with ERT.

***To reduce breast cancer recurrence in women with prior breast cancer. Survival from breast cancer is improved, and the risk of ovarian cancer is greatly reduced by oophorectomy.*** Oophorectomy reduces new same-sided and opposite-sided breast cancer and recurrent breast cancer. The risk of new breast cancer was reduced in women who underwent bilateral oophorectomy with hysterectomy by 30-50%. The protection tended to increase with time since surgery, (Schairer et al, Int J Cancer, 1997, and Parazzini et al, Obstet Gynecol, 1997). The risks of subsequent breast cancer from low-dose ERT are not elevated over normal. It is shown that prophylactic oophorectomy may have a substantial protective effect on breast cancer risk despite subsequent low-dose or non-low-dose ERT, especially when prophylactic oophorectomy is performed at an early age.

**Quality of life: do you deserve it?** Hysterectomy causes short-term morbidity but appears to increase average life expectancy slightly among perimenopausal women and is cost-saving. Medical outcomes and economic consequences favor the procedure. Research on women undergoing hysterectomy shows that 78% are symptom free after their operation, and another 14% have reduced symptoms, while 8% have new symptoms. Fully 95% report that they were pleased with their HRT (Hormone Replacement Therapy), or it exceeded expectations, 5% reported not liking their HRT because for some it contained testosterone. Physical well-being was improved in 80% and unchanged in 15% and worse in 4.6%. 32% noted less depression than before the surgery, while 65% had no depression, and 4% became more depressed. Overall, 3% were dissatisfied. Satisfaction was associated with understanding the need for the surgery, a positive outlook, removal of the ovaries, taking HRT for at least the short-term, complete symptom relief, a quick recovery, improved physical well-being, and the absence of depression. (Khastgir et al, Am J Ob/Gyn, 2000)

After reviewing your symptoms that have led you to review this document, it is only you who can decide whether your life could be significantly improved by eliminating the gynecologic problems that brought you to this point. If your problems do not impact the quality of your life, then there is no benefit to surgery. If you have significant room for improvement, then make the decision to create a new life for yourself. You deserve it.

**Will I be happy after I have a hysterectomy/oophorectomy?**



The highest probability is that you will forget that you had this surgery because your uterus/ovaries will no longer be a source of pain or pressure or bleeding or cancer. Because we only do hysterectomies on women who, based on medical evidence, will benefit from that surgery; our patients are healthier and happier after their surgery than they were before. Ask them.

### **Are there any risks to the surgery?**

There are always risks to surgery, there is no such thing as a risk-free surgery. While these complications are rare, they do happen. Sometimes complications are seen during surgery and are fixed at that time. Sometimes they do not occur until weeks later. These complications will be fixed at a later date, sometimes requiring additional surgeons not were not involved in the initial surgery. These complications may require multiple procedures or surgeries. Injury to the ureters (uterus drain urine form the kidneys to the bladder), pelvic infection, bacterial skin infection, pooling/clotting of blood, incisions open, separate, or has connection to bladder, ureters, or rectum), injury to bladder, bowel, colon, or rectal injury, problems urinating.

### **Conclusions.**

Many women choose to keep their gynecologic symptoms because the symptoms are not bothersome, but those few women disabled by significant symptoms can have great improvement in their lives with surgery. When the reasons are real and strong for a hysterectomy and/or removal of the ovaries, women usually emerge from the surgery and recover their normal whole-life function with ease and vigor. We don't fix "what ain't broke", so no one will have a hysterectomy/oophorectomy by our physicians unless she really stands to benefit from one! Always be certain that you agree with all the reasons for any surgery proposed, and that all your questions have been thoroughly answered. Do not go to any surgery unless you are convinced of the need for it, aware of the benefits, have run out of non-surgical alternatives, and understand all the risks. If your doctor doesn't answer all your questions, hire another doctor!