

To vasectomy candidates of Dr. Doug Stein:

Once a vasectomy patient myself, I have enjoyed the benefits of my own vasectomy for 17 years. Impressed with the benefits of vasectomy, both personal and social, I promote and provide vasectomy services at a number of county health departments and Planned Parenthood facilities. Because of some variation in the counseling information provided in these facilities, I like to standardize the information received and have patients sign the same permit that I use in my private office.

Vasectomy provides the most effective, permanent means of surgical contraception. When compared with other contraceptives, it has one of the lowest incidences of side effects, considering that pregnancy is a side effect of alternative contraceptive failure. No deaths have been attributed to vasectomy in developed countries. Large-scale studies show that the overall incidence of complications is less than 5 per 100 vasectomies performed.

Minor side effects immediately following vasectomy may include discomfort, swelling and/or bruising of the scrotal skin, all of which usually disappear without treatment. Some men (about 1 in 20) will experience swelling and a low-grade ache in one or both testes anywhere from two weeks to six months after the procedure. This is probably due to an exaggerated form of the body's natural response to the obstruction caused by the vasectomy. It usually responds nicely to an anti-inflammatory drug (such as ibuprofen) 400-600 mg 3 times per day and almost never lasts for more than a week or two but for rare patients, fewer than 1 in 100, **swelling and discomfort** will occur more than once and/or will be severe enough to require prescription pain medications, stronger anti-inflammatory drugs, and one or more days off from work.

Early complications such as hemorrhage and infection can occasionally occur after any surgery. Based on large-scale studies, the overall incidence of either hematoma (a blood clot in the scrotum) or infection is less than 2% of the vasectomies performed. As of June 2006, I have performed over **13,000 vasectomies**. Eight patients have developed **blood clots** in the scrotum; six did not require surgical drainage, but swelling did keep them quite tender for 2 to 4 weeks post-op; one man did require admission to the hospital and surgical drainage of the blood clot under general anesthesia in the operating room, and another required surgical drainage through a 1-2 inch incision in the office. Two severe **infections** have occurred: the patients had prolonged discomfort and progressive swelling on one side, not responsive to oral antibiotics, eventually maturing to a painful walnut-sized abscess requiring office drainage through a half-inch incision and a two-week period of local wound care. Two milder infections caused vasectomy site swelling and, in one case, even discomfort with urination, but they responded quickly to antibiotics.

Long term, vasectomy can lead to the following **conditions**:

1. A **sperm granuloma** is a pea sized tender mass which results when the body reacts to and walls off sperm which may leak from the lower (testicular) end of the cut vas. Occasionally this will be tender enough that removal is required, but most patients do not experience discomfort unless they are actually squeezing on the small mass. A sperm granuloma may enhance the likelihood of reversal success.
2. A few (perhaps 5%) of patients will experience **periodic tenderness of the epididymis**, the tube behind the testis in which sperm are resorbed by white blood cells after vasectomy. Since this resorption process is a form of inflammation, it nearly always responds to a short course (3-7 days) of an over-the-counter anti-inflammatory drug such as ibuprofen. **Chronic testis pain** occasionally occurs after vasectomy. Medical literature and Internet reports claim that this is a significant problem for less than 1% of vasectomy patients and that removal of the epididymis may be required to alleviate the discomfort. One of my own vasectomy patients has been bothered enough by low-grade discomfort on one side that he is now considering removal of the epididymis on that side, and another has had intermittent discomfort on both sides severe enough that he is considering vasectomy reversal. Since 1983, three patients have experienced prolonged **vasectomy site pain**. For one patient, the pain was so severe that he was unable to work for a month after the procedure. Two other patients had prolonged vasectomy site tenderness for which they eventually chose to undergo another vasectomy procedure on one side to remove the tender spot. Thus, out of over 11,000 patients, four have considered or required a second procedure to manage pain.
3. **Recanalization** is the re-establishment of sperm flow from the testis up to the rest of the reproductive tract by virtue of the cut ends of the **vas growing back together** after vasectomy. Most **early** recanalizations occur during the healing process and are detected at the time of follow-up semen checks (live sperm are seen). It obviously requires that the procedure be repeated and there is no charge for the second procedure. Up until late 1990, when we started separating the vas ends with a tiny clip, we had 3 patients with this complication out of about 1500 (1 in every 500). Since then, and of about 8000 vasectomies, we have had another 4 early failures (**1 in every 2000**). One was in a man who presented quite a vasectomy challenge because of scarring from scrotal surgery as a baby. Two other men had live sperm on all samples checked for 6 months after their vasectomies, and a fourth had no live sperm but enough non-living sperm eight months after vasectomy that we chose to repeat the procedure. **Late** recanalization, return of live sperm to the semen at some time after the semen has been confirmed to be sperm-free by microscopic examination, is exceedingly rare. I have had direct experience with this only twice: (1) a man whose vasectomy was performed in 1988 and whose semen was sperm-free three months later got his wife pregnant in 1991 and his semen at that time showed live sperm (she never got pregnant again and he returned for a vasectomy reversal in 2005 at which time he was again sperm-free), and (2) another patient whose vasectomy was performed in 2000 had no sperm in his semen two months later, but his wife became pregnant nearly 4 years later and a semen check revealed a very low sperm count. From these two cases and reports in the literature, late failure resulting in pregnancy is possible but rare, odds being **less than one in 5000**, a rate of failure much lower than with any other form of contraception. My office does not require another semen check after the absence of sperm has been confirmed, but patients are encouraged to return with or mail a second sample 4 months after vasectomy to achieve an added index of confidence; and we will examine semen at no charge on any vasectomy patient throughout his lifetime as often as he desires.

4. Antisperm antibodies do appear in the blood of about half of the patients who undergo vasectomy and patients who develop antibodies have a lower chance of causing a pregnancy even when a successful vasectomy reversal allows sperm to re-enter the ejaculate. These antibodies have no influence on health status otherwise.

5. The February 17, 1993 issue of the Journal Of The American Medical Association contained 2 studies (by the same research group) that suggest that vasectomy was associated with a small increased risk of prostate cancer in their study groups (almost 30,000 patients in 1 study and almost 40,000 patients in the other study). Because the question was initially raised by 2 studies back in 1990, the World Health Organization convened a 1991 meeting of 23 international experts to review all research regarding vasectomy and prostate cancer. They concluded that there was no plausible biologic mechanism for a relationship between vasectomy and prostate cancer. Some medical researchers interpreted the small increased risk noted in the 1993 studies as a weak association that may be due to chance or bias. A systematic review of the medical literature in 1998 (Fertility & Sterility, **70**: 191) further documented the lack of a significant relationship between vasectomy and prostate cancer. Additional convincing evidence of no relationship has been published in the Journal of Urology in June 1999 (**161**: 1848-1853), in the Journal of the American Medical Association in June 2002 (**287**:3110-3115), in the Journal of Urology in October 2002 (**168**: 1408-1411), and in Fertility and Sterility in November 2005 (**84**:1438-1443). Because the question of a relationship has been raised, however, the American Urologic Association recommends that men who have had vasectomy and are over 40 have an annual rectal exam and prostate cancer screening blood test (PSA). This is the same recommendation made by the AUA for all men of age 50-70. My office has copies of these and other research studies, available to any patient upon request.

6. There are reports on the Internet in which contributors claim that they experienced a decrease in erectile function, libido, or climax intensity after vasectomy. In 2006, we mailed 400 surveys to men whose vasectomies had been done more than six months prior to the survey. One hundred two surveys were returned and these are the results:

Since your vasectomy, how have the following changed?	Much less	Slightly less	No change	Slightly more	Much more
Sex drive (libido)	2	3	79	14	1
Ability to obtain and maintain erections	0	3	96	3	0
Rigidity (stiffness) of erections	0	4	95	2	1
Strength of orgasm (climax) sensation	0	4	87	10	1
Semen volume (the amount of fluid that comes out when you ejaculate)	4	13	75	8	1

There is no physiological explanation for these changes, either positive or negative, but men should consider the slight possibility of a negative influence of vasectomy on their sexual responses.

There are a number of **alternatives to vasectomy**:

- Barrier methods.** You could wear a *condom*, your partner could use a *diaphragm*, or you could use *both together*.
- Spermicides.** There are *foams and creams* that can be placed into the vagina before intercourse to kill sperm before they can fertilize your partner's eggs. Spermicides can be used alone or in combination with barrier methods.
- Hormonal methods.** Your partner may use birth control *pills, shots, or patches* to prevent the release of eggs from the ovaries or the implantation of fertilized eggs into the uterus (womb). *Emergency Contraception* (EC, or the "morning-after" pill) will prevent pregnancy if taken within 72 hours of intercourse during which no contraception was used.
- Intrauterine device (IUD).** Your partner may have a small device placed into her uterus to decrease the likelihood of fertilization (sperm and egg coming together) and to prevent implantation of fertilized eggs into the uterus.

All of these alternatives are less effective than vasectomy, but they are reversible. You should be familiar with them before proceeding with vasectomy. Please ask us if you would like more information, and feel free to postpone your vasectomy if you need more time to evaluate information about alternatives.

There is no form of fertility control except abstinence that is free of potential complications. Vasectomy candidates must weigh the risks of vasectomy against the risks (for their partners) of alternative means of contraception as well as the risks associated with unplanned pregnancy and either induced abortion or childbirth. Vasectomy provides a means of permanent birth control with a minimum likelihood of complications and maximum chances of effectiveness and safety.

CONSENT FOR STERILIZATION

I, the undersigned, request that Dr. Douglas G. Stein, and whomever he may designate as his assistants or monitored students, perform a bilateral vasectomy, a procedure to produce obstruction of the vas deferens for the purpose of producing sterility. I understand that there can be no absolute guarantee that this or any procedure will be successful. It is understood, however, that my semen will be checked following the operation. I understand that contraception must be practiced until there are no sperm present. I also understand that vasectomy reversal attempts are not all successful and that vasectomy should therefore be considered a permanent and not reversible procedure. I recognize a small chance that I might have to drive to Dr. Stein's Tampa office or go the hospital for evaluation and treatment of a very rare complication, and that this would be at my expense. By consenting to vasectomy and accepting the risks above, I release Dr. Stein and the facility in which my vasectomy is performed from liability for time lost from work and salary unearned.

Patient's signature _____ Print name _____

Witness _____ Date _____ Patient's Telephone (_____) _____ - _____

(vaspmt outfield.doc: revised 6/14/06)