Gynecology

Expert Offers Hysteroscopic Myomectomy Pointers

Uterine perforation is the most common complication of operative hysteroscopic, occurring in 1%-10%.

BY JANE SALODOF MACNEIL

Contributing Writer

SANTA FE, N.M. - Although the complication rate for hysteroscopic myomectomy is relatively low, physicians must guard against uterine perforation and hyponatremia during the procedure, Stephen M. Cohen, M.D., advised at a conference on gynecologic surgery sponsored by Omnia Education.

All but the smallest fibroids should be removed in an operating room, according to Dr. Cohen, chief of the division of gynecology and director of women's minimal access surgery at Albany (N.Y.) Medical College. In cases in which a large vascular fibroid is detected, Dr. Cohen also recommended allowing time to shrink it with a GnRH agonist before attempting removal.

He noted that patients should be forewarned that a second operative procedure might be necessary to remove the entire fibroid

Uterine perforation—usually during cervical dilation—is the most common complication of operative hysteroscopic, occurring in 1%-10% of cases, according to Dr. Cohen. Patients with Asherman's syndrome and cervical stenosis are most at risk.

He advised physicians to prevent perforation by withdrawing the resectoscope as soon as advancing it becomes difficult.

"Back out, redilate, and make it go easy. Don't keep pushing ahead if you can't see where you're going," he said.

The hyponatremia risk stems from the pumping of low-viscosity fluids containing sorbitol, mannitol, or glycine to distend the uterus during the procedure. Younger women are at greater risk for permanent brain damage and death from severe sodium depletion, according to Dr. Cohen.

He cited the theoretical effects of estrogen's possible interference with sodium balance, the decreased effect of vasopressin in the reduction of cerebral edema, and the smaller intracranial space in young women.

Dr. Cohen said intrauterine pressure ideally should be kept to a mean arterial pressure of 75 mm Hg. This may not be adequate in some patients, however, so he

To avoid perforation, withdraw the resectoscope when advancing becomes difficult. 'Don't keep pushing ... if you can't see where you're going.'

occasionally starts as high as 120 mm Hg and titrates down until he sees the uterus beginning to collapse.

Physicians need to have a system for keeping meticulous track of the intake and output of fluids, noted Dr. Cohen. Some patients absorb more

fluid than do others, he said, and the amount can increase substantially during a

If the imbalance reaches 1,000 mL, he recommended giving intravenous Lasix (furosemide). If the amount reaches 1,500 mL, the operation should be stopped immediately, he said.

"When they absorb 1,500 mL, that's done—case over. ... It's better to go back a second time for a fibroid than to be reporting a death," Dr. Cohen said, advising that extreme cases of fluid overload may need to be treated in the intensive care unit.

If the patient is under general anesthesia, Dr. Cohen advised watching for decreased oxygen saturation and dilated pupils as the first signs of hyponatremia. Should the plasma sodium level fall below 120 mEa/L, he recommended infusion of a 3% saline solution monitored in the ICU.

Under local anesthesia, symptoms of mild hyponatremia (130-135 mEq/L) include apprehension, disorientation, irritability, twitching, nausea, vomiting, and shortness of breath. As sodium levels drop, the list grows to include pulmonary edema, moist skin, polyuria, hypotension, bradycardia, cyanosis, mental changes, encephalopathy, chronic heart failure, lethargy, confusion, twitching, and convulsion.

With sodium less than 115 mEq/L, the patient faces brain stem herniation, respiratory arrest, coma, and death, he said.■

BRIEF SUMMARY

NUVARING®

(etonogestrel/ethinyl estradiol vaginal ring) delivers 0.120 mg/0.015 mg per day

Patients should be aware that this product does not protect against HIV infections (AIDS) and other sexually transmitted diseases

Read this leaflet carefully before you use NuvaRing® so that you understand the benefits and risks of using this form of birth control. The leaflet gives you information about the possible serious side effects of NuvaRing®. This leaflet will also tell you how to use NuvaRing® properly so that it will give you the best possible protection against pregnancy. Read the information you get whenever you get a new prescription or refili, because there may be new information. This information does not take the place of talking with your healthcare provider.

What is Nuvraling®?

Nuvraling® (NEW-valt-ring) is a flexible combined contraceptive vaginal ring. It is used to prevent prepanary. It does not protect against HIV infection (AIDS) and other sexually transmitted diseases (STD's) such as chlamydia, genital herpes, genital warts, gonorrhea, hepatitis B, and syphilis.

your body.

Contraceptives that contain both an estrogen and a progestin are called combination hormonal contraceptives. Most studies on combination contraceptives were used oral (kalen by mouth) contraceptives. NuvaRinge? may have the same risks that have been found for combination oral contraceptives. This latest will tell you about risks of taking combination oral contraceptives. This latest will tell you about risks of taking combination oral contraceptives that may also apply to NuvaRing® program out the second contraceptives that may also apply to NuvaRing® program you will be protected to against pregnancy.

When should not use NuvaRing® program.

Who should not use NuvaRing®?

Cigarette smoking increases the risk of serious cardiovascular side effects when you use combination oral contraceptives. This risk increases even more if you are over age 35 and if you make 15 or more cigarettes a day. Women who use combination hormonal contraceptives, including NuvaRing®, are strongly advised not to smoke.

- Do not use **NuvaRing®** if you have any of the following conditions:

 pregnancy or suspected pregnancy

 blood clots in your legs (thrombosis), lungs (pulmonary embolism), or eyes now or the past

- eyes now or in the past chest pain (anging pectoris) heart attack or stroke severe high blood pressure diabetes with complications of the kidneys, eyes, nerves, or blood

- diabetes with complications of the natures, e.gs., toward, to average wessels headaches with neurological symptoms version of the past cervic, or vagina (now or in the past) unexplained vaginal beeding unexplained vaginal beeding unexplained vaginal beeding limited beeding the past to be the past of the skin (jaundice) during pregnancy or during past use of oral contraceptives (birth control pills) liner tumnors or active liver disease of the heart valves with complications need for a long period of bedetes following major surgery an allergic reaction to any of the components of NuvaRing® Calliums healthese, nowider if win labe weet had any of the conflictions.

- an allergic reaction to any of the components of NuvaRing®
 Tell your healthcare provider if you have ever had any of the conditions
 just listed. Your healthcare provider can suggest another method of birth
 control.
 Talk with your healthcare provider about when to start NuvaRing® if you
 are recovering from the birth of a child or a second trimester miscarriage
 or abortion or if you are breast feeding.

us autumn or in you are breast feeding.
In addition, talk to your healthcare provider about using NuvaRingo® I you have any of the following conditions. Women with any of these conditions should be checked often by their doctor or healthcare provider if they choose to use fundaments.

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- diabetes high blood pressure high cholesterol or triglycerides
- headaches or epilepsy mental depression
- mental depression "
 gallbladder or kidney disease
 major surgery (You may need to stop using NuvaRing® for a while to
 reduce your chance of getting blood clots.)
 any condition that makes the vagina get irritated easily
 prolapsed (dropped) uterus, dropped bladder (cystocele), or rectal prolapse (restroped).

How should I use NuvaRing®?

now snoutol use NuvaRing®?
For the best protection from prepanary, use NuvaRing® exactly as directed, Insert one NuvaRing® in the vagine and keep it in place for three weeks in a now. Remove if to a one-week break and then insert a new ring During the one-week break, you will usually have your menstrual period. Your healthcare provider should examine you at least once a year to see if there are any signs of side effects of NuvaRing® use.

When should is Land NuvaRing® use.

when should I start NuvaRing®?
Follow the instructions in one of the sections below to find out when to start using NuvaRing®:

start using Nuvalking®: If you did not use a hormonal contraceptive in the past month Counting the first day of your mentstrial period as: Day 1*, insert your first Nuvalking® between Day 1 and Day 5 of the yole, but at the latest Day 5, even if you have not finished bleeding. During this flatest one Day 5, even if you have not finished bleeding. During this first cycle, use an extra method of birth controls, such as male condoms or spemiicide, for the first seven days of ring use.

If you are switching from a combination oral contraceptive (birth control pill containing both propestin and estrogen) insert hurstlings anytime during the first seven days after the last combined (estrogen and progestin) oral contraceptive tablet and no later than the day when you would have started a new pill cycle. No extra birth control method is needed.

If you are switching from a progestin-only contraceptive (mini-pill, implant

- vection, or 1007)
 When switching from a mini-pill, start using NuvaRing® on any day of the month. Do not skip days between your last pill and first day of

the month. Do not sop pasy services you may have been with survivaling use. When switching from an implant, start using NuvaRing® on the same day you have your implant removed, outraceptive, start using NuvaRing® on the day when your next injection is due. When switching from a progestin-containing IUD, start using NuvaRing® on the same day you have your IUD removed.

on us same any you new your IUU removed. When you are switching from a progestift-only contraceptive, use an extra method of birth control, such as male condoms or spermicide, for the first seven days after inserting Nukralling*. Following first trimester abortion or miscarriage if you start using Nurshling* within the days after a complete first trimester abortion or miscarriage, you do not need to use an extra method of contracention.

contraception.

If NuvaRing® is not started within five days after a first trimester abortion or miscarrage, begin NuvaRing® at the time of your next menstrual period. Counting the first day of your menstrual period as "Day 1", insert NuvaRing® on or before Day 5 of the cycle, even if you have not finished bleeding. During this first cycle, use an extra method of birth control, such as male condoms or spermicide, for the first seven days of ring use.

When do I insert a new ring?

After a one-week ring-free break, insert a new ring on the same day of the week as it was inserted in the last cycle. For example, if MwaRing® was inserted on a Sunday at about 1000 PM, after the one-week break you should insert a new ring on a Sunday at about 1000 PM.

If NuvaRing® sips out:
Rarely, NuvaRing® sips out:
Rarely, NuvaRing® can slip out of the vagina if it has not been inserted properly, or while removing a tampon, moving the bowels, straining, or with severe constitution.

If NuvaRing® slips out of the vagina, and it has been out less than three hours, you should still be protected from pregnancy. NuvaRing® can be rinsed with pool to be because (real half). If NuvaRing® slips out of the vagina, and it has been out less than three hours, you should still be protected from pregnancy. NuvaRing® can be rinsed with cool to Likewarm (not holy water and should be reinserted as soon as possible, and at the latest within three hours, I you have lost NuvaRing®, you must insert a new NuvaRing® and use it on the same schedule as you would have used the lost ring. If NuvaRing® has been out of the vagina for more than three hours, you may not be adequately profund to the process of the lost result in the process of the lost result in the lost

ring-free break.

If NuvaRing® has been left in place for more than four weeks, you may not be adequately protected from pregnancy and you must check to be sure you are not pregnant. You must use an extra method of birth control, such as male condoms or spermicide, until the new NuvaRing® has been in place for severe days in a row.

- If you miss a menstrual period:
 You must check to be sure that you are not pregnant if:
 1. you miss a period and NuvaRiing® was out of the vagina for more than
 three hours during the three weeks of ring use
 2. you miss a period and you had waited longer than one week to insert a
 per virior.

- 3. you have followed the instructions and you miss two periods in a row
 4. you have left NuvaRing® in place for longer than four weeks

4. you have left huvaning—in public words.

Overdose
What should I avoid while using NuvaRing=?
Smoking may increase your risk of heart attack or stroke while using combination hormonal contraceptives, including NuvaRing*. The risk increases with age and number of logarettes smoked a day.

Cigarette smoking increases the risk of serious cardiovascular side effects when you use combination oral contraceptives. This risk increases even more if you are over age 35 and if you smoke 15 or more cigarettes a day. Women who use combination hormonal contraceptives, like NuvaRing*, are strongly advised not to smoke.

Do not breast feed while using NuvaRing®. Some of the medicine may pass through the milk to the baby and could cause yellowing of the skin (jaundice) and breast enlargement. NuvaRing® could also decrease the amount and quality of your breast milk.

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The hormones in Nurshingo ean interact with many other medicines and herbal supplements. Tell your healthcare provider about any medicines you are taking, including prescription medicines, over-the-counter medicines, herbal remedies, and vitaminis.

herbal remedies, and vitamins.

The blood levels of the hormones released by NuvaRingo® were increased when women used an oil-based vaginal medication (miconazole uitrate) for a yeast intection while hivanRingi® was in place. The preparancy protection of NuvaRingi® is not likely to be changed by use of these products. The blood levels of the hormones released by NuvaRingi® were not changed when women used vaginal, water-based spermicides (nonoxynol or N-9 products) along with NuvaRingi®. Wolf is used to the product of the product of the products of the products of the product of the products of the

If you are scheduled for any laboratory tests, tell your doctor or healthcare provider you are using NuvaRing®. Contraceptive hormones may change certain blood tests results.

What are the possible risks and side effects of NuvaRing®?

• Blood clots

Blood clots

The hormones in NuvaRing® may cause changes in your blood clotting

wetern which may allow your blood to clot more easily. If blood clots system which may allow your blood to clot more easily. If blood clots form in your legs, they can trave to the lungs and cause a sudden block-age of a vessel carrying blood to the lungs. Rarely, clots occur in the blood vessels of the eye and may cause blindness, double vision, or other vision problems. The risk of getting blood clots may be greater with the type of progestin in Nuvalfing[®] than with some other progestins? in certain low-dose birth control pills. It is unknown if the risk of blood clots is different with NuvaRing® use than with the use of certain birth Heart attacks and strokes

Heart attacks and strokes hormonal contraceptives may increase your risk of strokes (blockage of blood flow to the brain) or heart attacks (blockage of blood flow to the heart). Any of these conditions can cause death or serious disability. Smoking greatly increases the risk of having heart attacks and strokes. Furthermore, smoking and the use of combination hormonal contraceptives, like NuvaRing®, greatly increases the chances of developing and dying of heart disease. If you use combination hormonal contraceptives, including, NuvaRing®, you should not smoke. High blood pressure and heart disease Combination hormonal contraceptives, including NuvaRing®, can worsen conditions like high blood pressure, diabetes, and problems with cholesterol and triglycerides.

terol and triglycerides.

Cancer of the Preast inclining reports on the relationship between breast cancer and hormonal contraceptive use. Combination hormonal contraceptives, including NuvaRing®- may slightly increase your chance of having breast cancer diagnosed. After you stop using hormonal contraceptives, the chance of having breast cancer diagnosed begins to go back down. You should have regular breast examinations by a healthrear provider and examine your own breasts monthly. Tell your healthcare provider and examine your own breasts monthly. Tell your healthcare breast cancer or if you have had breast nodules or an abnormal mammogram.

Gallbladder disease
Combination hormonal contraceptive users may have a higher chance of having gallbladder disease.

Liver tumors
In rare cases, combination hormonal contraceptives, like NuvaRing®, can cause non-cancerous (benign) but dangerous liver tumors. These benign liver tumors can break and cause fatal internal bleeding. In addi benign liver tumors can break and cause that internal bleeding, in addition, it is possible to the cause that internal bleeding, in addition, it is possible to the captives, like liverAling® have a higher chance of getting liver cancer. However, liver cancers are extremely rare.

The common side effects reported by NuvaRing® users are: vaginal infections and irritation vaginal discharge (leukorrhea) headache uvegint am and and irritation vaginal closharge (leukorrhea) headache

- rash weight changes depression intolerance to contact lenses

- depression
- depression
- infolerance to contact lenses
Call your healthcare provider right away if you get any of the symptoms
Istade below. They may be signs of a serious problem:
- sharp chest pain, coupling blood, or sudden shortness of breath (possible clot in the lung)
- pain in the calf (back of lover leg; possible clot in the leg)
- pain in the calf (back of lover leg; possible clot in the leg)
- crushing chest pain or heaviness in the chest (possible heart attack)
- sudden serier leadache or vomiting, dizziness or fainting, problems
- ble strole)
- bleed, bl

By comparison, the chances of getting pregnant in the first year of typical use (not always following directions exactly) of other methods of birth

trol are as follows:	
Vo birth control method:	85%
Spermicides alone:	26%
Periodic abstinence methods	
(calendar, ovulation, thermometer):	25%
Vithdrawal:	19%
Cervical Cap with spermicides:	20 to 40%
/aginal sponge:	20 to 40%
Diaphragm with spermicides:	20%
Condom alone (male):	14%
Condom alone (female):	21%
Oral contraceptives:	5%
UD:	less than 1 to 2%
mplants:	less than 1%
niection:	less than 1%

Other Information

Medicines are sometimes prescribed for conditions that are not mentione
in patient information leaflets. Do not use NuvaRing® for a condition for
which it was not prescribed. Do not give NuvaRing® to anyone else who
may want to use

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