



Las Vegas Urogynecology

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Urinary Incontinence in Women

Urinary incontinence is an inability to hold your urine until you get to a toilet. More than 13 million people in the United States--male and female, young and old--experience incontinence. It is often temporary, and it always results from an underlying medical condition.

Women experience incontinence two times more often than men. Pregnancy and childbirth, menopause, and the structure of the female urinary tract account for this difference. But both women and men can become incontinent from strokes, multiple sclerosis, and physical problems associated with old age.

Older women, more often than younger women, experience incontinence. But incontinence is not inevitable with age. Incontinence is treatable and often curable at all ages.

If you experience incontinence, you may feel embarrassed. It may help you to remember that loss of bladder control can be treated. You will need to overcome your embarrassment and see a doctor to learn if you need treatment for an underlying medical condition.

Incontinence in women usually occurs because of problems with muscles that help to hold or release urine.

The body stores urine--water and wastes removed by the kidneys--in the bladder, a balloon-like organ. The bladder connects to the urethra, the tube through which urine leaves the body.

During urination, muscles in the wall of the bladder contract, forcing urine out of the bladder and into the urethra. At the same time, sphincter muscles surrounding the urethra relax, letting urine pass out of the body. Incontinence will occur if your bladder muscles suddenly contract or muscles surrounding the urethra suddenly relax.

In this fact sheet, the term "incontinence" will be used to mean urinary incontinence.

Types of Incontinence

Stress Incontinence

If coughing, laughing, sneezing, or other movements that put pressure on the bladder cause you to leak urine, you may have stress incontinence. Physical changes resulting from pregnancy, childbirth, and menopause are common events that cause stress incontinence. It is the most common form of incontinence in women, and is treatable.

Pelvic floor muscles support your bladder. If these muscles weaken, your bladder can move downward, pushing slightly out of the bottom of the pelvis toward the vagina. This prevents muscles that ordinarily force the urethra shut from squeezing as tightly as they should. As a result, urine can leak into the urethra during moments of physical stress. Stress incontinence also occurs if the muscles that do the squeezing weaken.

Stress incontinence can worsen during the week before your menstrual period. At that time, lowered estrogen levels might lead to lower muscular pressure around the urethra, increasing chances of leakage. The incidence of stress incontinence increases following menopause.

Urge Incontinence

If you lose urine for no apparent reason while suddenly feeling the need or urge to urinate, you may have urge incontinence. The most common cause of urge incontinence is inappropriate bladder contractions.

Medical professionals describe such a bladder as "unstable," "spastic," or "overactive." Your doctor might call your condition "reflex incontinence" if it results from overactive nerves controlling the bladder.

Urge incontinence can mean that your bladder empties during sleep, after drinking a small amount of water, or when you touch water or hear it running (as when someone else is taking a shower or washing dishes).

Involuntary actions of bladder muscles can occur because of damage to the nerves of the bladder, to the nervous system (spinal cord and brain), or to muscles themselves.

Multiple sclerosis, Parkinson's disease, Alzheimer's disease, stroke, brain tumors, and injury--including injury that occurs during surgery--all can harm bladder nerves or muscles.

Functional Incontinence

People with functional incontinence may have problems thinking, moving, or communicating that prevent them from reaching a toilet. A person with Alzheimer's disease, for example, may not think well enough to plan a timely trip to a restroom.

A person in a wheelchair may be blocked from getting to a toilet in time. Conditions such as these are often associated with age and account for some of the incontinence of elderly women in nursing homes.

Overflow Incontinence

If your bladder is always full so that it continually leaks urine, you have overflow incontinence. Weak bladder muscles or a blocked urethra can cause this type of incontinence.

Nerve damage from diabetes or other diseases can lead to weak bladder muscles. Tumors and urinary stones can block the urethra. Overflow incontinence is rare in women.

Other Types of Incontinence

Stress and urge incontinence often occur together in women. Combinations of incontinence--and this combination in particular--are sometimes referred to as "mixed incontinence."

"Transient incontinence" is a temporary version of incontinence. It can be triggered by medications, urinary tract infections, mental impairment, restricted mobility, and stool impaction (severe constipation), which can push against the urinary tract and obstruct outflow.

Diagnosis

The first step toward relief is to see a doctor who is well acquainted with incontinence to learn the type you have. A urologist specializes in the urinary tract. Gynecologists and obstetricians specialize in the woman's reproductive tract and childbirth.

A urogynecologist focuses on urological problems in women. Family practitioners and internists see patients for all kinds of complaints. Any of these doctors may be able to help you.

To diagnose the problem, your doctor will first ask about symptoms and medical history. Your pattern of voiding and urine leakage may suggest the type of incontinence.

Other obvious factors that can help define the problem include straining and discomfort, use of drugs, recent surgery, and illness. If your medical history does not define the problem, it will at least suggest which tests are needed.

Your doctor will physically examine you for signs of medical conditions causing incontinence, such as tumors that block the urinary tract, stool impaction, and poor reflexes or sensations, which may be evidence of a nerve-related cause.

Your doctor will measure your bladder capacity and residual urine for evidence of poorly functioning bladder muscles. To do this, you will drink plenty of fluids and urinate into a measuring pan, after which the doctor will measure any urine remaining in the bladder.

Your doctor may also recommend:

- Stress test--You relax, then cough vigorously as the doctor watches for loss of urine.
- Urinalysis--Urine is tested for evidence of infection, urinary stones, or other contributing causes.
- Blood tests--Blood is taken, sent to a laboratory, and examined for substances related to causes of incontinence.
- Ultrasound--Sound waves are used to "see" the kidneys, ureters, bladder, and urethra.
- Cystoscopy--A thin tube with a tiny camera is inserted in the urethra and used to see the urethra and bladder.
- Urodynamics--Various techniques to measure pressure in the bladder and the flow of urine.

Your doctor may ask you to keep a diary to record when you void for a day or more, up to a week. This diary should note the times you urinate and the amounts of urine you produce. To measure your urine, you can use a special pan that fits over the toilet rim.

Treatment

Exercises

Kegel exercises to strengthen or retrain pelvic floor muscles and sphincter muscles can reduce or cure stress leakage. Women of all ages can learn and practice these exercises, which are taught by a health care professional.

Most Kegel exercises do not require equipment. However, one technique involves the use of weighted cones. For this exercise, you stand and hold a cone-shaped object within your vagina. You then substitute cones of increasing weight to strengthen the muscles that help keep the urethra closed.

Electrical Stimulation

Brief doses of electrical stimulation can strengthen muscles in the lower pelvis in a way similar to exercising the muscles. Electrodes are temporarily placed in the vagina or rectum to stimulate nearby muscles. This will stabilize overactive muscles and stimulate contraction of urethral muscles. Electrical stimulation can be used to reduce both stress incontinence and urge incontinence.

Biofeedback

Biofeedback uses measuring devices to help you become aware of your body's functioning. By using electronic devices or diaries to track when your bladder and urethral muscles contract, you can gain control over these muscles. Biofeedback can be used with pelvic muscle exercises and electrical stimulation to relieve stress and urge incontinence.

Timed Voiding or Bladder Training

Timed voiding (urinating) and bladder training are techniques that use biofeedback. In timed voiding, you fill in a chart of voiding and leaking. From the patterns that appear in your chart, you can plan to empty your bladder before you would otherwise leak. Biofeedback and muscle conditioning--known as bladder training--can alter the bladder's schedule for storing and emptying urine. These techniques are effective for urge and overflow incontinence.

Medications

Medications can reduce many types of leakage. Some drugs inhibit contractions of an overactive bladder. Others relax muscles, leading to more complete bladder emptying during urination. Some drugs tighten muscles at the bladder neck and urethra, preventing leakage. And some, especially hormones such as estrogen, are believed to cause muscles involved in urination to function normally.

Some of these medications can produce harmful side effects if used for long periods. In particular, estrogen therapy has been associated with an increased risk for cancers of the breast and endometrium (lining of the uterus). Talk to your doctor about the risks and benefits of long-term use of medications.

Pessaries

A pessary is a stiff ring that is inserted by a doctor or nurse into the vagina, where it presses against the wall of the vagina and the nearby urethra. The pressure helps reposition the urethra, leading to less stress leakage. If you use a pessary, you should watch for possible vaginal and urinary tract infections and see your doctor regularly.

Implants

Implants are substances injected into tissues around the urethra. The implant adds bulk and helps to close the urethra to reduce stress incontinence. Collagen (a fibrous natural tissue from cows) and fat from the patient's body have been used. Implants can be injected by a doctor in about half an hour using local anesthesia.

Implants have a partial success rate. Injections must be repeated after a time because the body slowly eliminates the substances. Before you receive collagen, a doctor must perform a skin test to determine whether you would have an allergic reaction to the material.

Surgery

Doctors usually suggest surgery to alleviate incontinence only after other treatments have been tried. Many surgical options have high rates of success.

Most stress incontinence results from the bladder dropping down toward the vagina. Therefore, common surgery for stress incontinence involves pulling the bladder up to a more normal position. Working through an incision in the vagina or abdomen, the surgeon raises the bladder and secures it with stitches attached to muscle, ligament, or bone under the pelvis.

The surgeon may also raise the bladder with a sling. The sling is a band of tissue that is placed under the urethra and tacked to the pubic bone or abdominal wall fascia. This holds the urethra up in the correct position, even when you cough or sneeze, preventing urine leakage.

The sling can be made of various materials including synthetic materials or a tissue called 'fascia' either from the patient's abdominal muscles or from a donor animal source. The source of most slings is currently cadaver tissue, which comes from tissue banks. Like blood banks, the donors are carefully screened and the tissues tested for transmissible diseases. The tissues are specially treated to kill any bacteria or viruses which could be present, and are felt to be very safe. The sling is becoming the most popular choice for the surgical correction of incontinence in women.

In rare cases, a surgeon implants an artificial sphincter, a doughnut-shaped sac that circles the urethra. A fluid fills and expands the sac, which squeezes the urethra closed. By pressing a valve implanted under the skin, you can cause the artificial sphincter to deflate. This removes pressure from the urethra, allowing urine from the bladder to pass.

Catheterization

If you are incontinent because your bladder never empties completely (overflow incontinence) or your bladder cannot empty because of poor muscle tone, past surgery, or spinal cord injury, you might use a catheter to empty your bladder.

A catheter is a tube that you can learn to insert through the urethra into the bladder to drain urine. Catheters may be used once in a while or on a constant basis, in which case the tube connects to a bag that you can attach to your leg. If you use a long-term (or indwelling) catheter, you should watch for possible urinary tract infections.

Other Procedures

Many women manage urinary incontinence with pads that catch slight leakage during activities such as exercising. Also, you often can reduce incontinence by restricting certain liquids, such as coffee, tea, and alcohol.

Finally, many women who could be treated resort instead to wearing absorbent undergarments, or diapers--especially elderly women in nursing homes. This is unfortunate, because diapering can lead to diminished self-esteem, as well as skin irritation and sores.

If you are an elderly woman, you and your family should discuss with your doctor the possible effectiveness of treatments such as timed voiding, pelvic muscle exercises, and electrical stimulation before resorting to absorbent pads or undergarments.

Tips

- Urinary incontinence is common in women.
- All types of urinary incontinence can be treated.
- Incontinence can be treated at all ages.
- You need not be embarrassed by incontinence.