The bladder is a hollow muscular organ shaped like a small balloon that is located in the lower abdomen. The kidneys, (bean-shaped organs near the middle of the back), normally remove excess water and waste products from the bloodstream and store it as urine in the bladder. The rate at which urine is produced depends on fluid intake, activity, and environmental temperature. As the bladder fills with urine over several hours, a normal bladder will send signals to the brain that the bladder is full and needs to empty.

Most people empty their bladders by voluntarily going to the bathroom four or five times a day. This is called urinating or voiding. When the bladder is not emptied of all urine, problems can occur.

Intermittent Self-Catheterization (ISC) is a safe and effective alternative method to empty the bladder. ISC involves inserting a catheter (a flexible hollow tube) into the urethra (the urine channel that drains urine from the bladder) several times a day. ISC is used to help protect the kidneys, prevent incontinence (urine leakage) and lessen the number of infections by promoting good drainage of the bladder while lowering pressure inside the bladder. It has been used successfully for individuals with injury to the nerves of the bladder, spinal cord and brain as well as in persons with diabetes, multiple sclerosis, spina bifida, myelodysplasia, enlarged prostate and continent urinary diversion. It can be done on a short or long term basis, depending on the bladder’s ability or inability to return to normal function.

How to perform ISC:

ISC is performed by intermittently inserting a catheter into the urethral opening (meatus) and advancing it into the bladder to allow the bladder to empty. Only persons who know the correct technique of proper insertion and care of the catheter should perform catheterization.

It is recommended that ISC be performed at regular intervals throughout the day depending on the person’s fluid intake and as directed by the healthcare provider. The ability to perform catheterization and adhere to a schedule is essential to success of the ISC program. You may need to catheterize every four to six hours to keep the amount of urine in your bladder less than 400-500 milliliters (13 to 15 ounces). If you are urinating but continue with high residual urine volumes (the amount left in your bladder after urinating) your healthcare provider may ask you to increase the number of times per day you catheterize.

Many persons will catheterize using a “clean” method, which means you do not need to wear gloves, just wash your hands with soap and water before catheterizing. It is recommended that you use a new catheter each time you catheterize. For alternatives to using each catheter only once, discuss this with your healthcare provider who prescribed the ISC for you.

Materials needed to prepare:

- Soap and water to wash hands and the urethral opening. If soap and water are not readily available, waterless alcohol-based hand rub or towelettes may be used.
- Urethral catheter (male or female). The size of the catheter should be the smallest size (called a “French” size) to pass easily into the bladder and allow adequate drainage.
- The correct type and size of the catheter to be used will be determined by the healthcare provider.
- Lubricant (water soluble jelly) packet or tube.
- Urinal or appropriate container to collect drained urine (if not emptying into a toilet).
- Mirror (for women to locate the opening of the urethra).

Set up:

- Gather all the necessary products before beginning the procedure.
- Males and females must be instructed on the locations of basic structures in the area of the genital anatomy and urinary opening with proper procedure before they do the procedure on their own.

Females:

- Wash hands thoroughly with soap and water or use a waterless alcohol-based hand rub or towelette.
- Find a comfortable position.
- Spread the labia apart using the hand you will not be using to hold the catheter.
- Clean the entire urethral opening (meatus) area from front to back with warm, soapy water and a clean washcloth or towelette (when away from home).
- Use a mirror initially to aid in the location of the meatal opening if needed. It is located below the clitoris and just above the vagina in most females, visually seen as “V”.
- Lubricate the tip of the catheter with the water-soluble jelly.
Intermittent Self-Catheterization Tips:

- Rotate the tip to spread the lubricant along the entire length of the catheter.
- With a collection container ready, slowly and gently insert the catheter (2-4 inches) into the meatus until urine begins to flow.
- If resistance is felt at the internal sphincter, hold firm, gentle, steady pressure and the muscles should relax allowing the catheter to pass. You can also cough or take a few slow, deep breaths to relax your sphincter.
- Allow the urine to empty into the collection container or into the toilet.
- When the urine flow stops, slowly withdraw the catheter allowing the lower parts of the bladder to drain. When there is no further flow of urine, remove the catheter.
- If requested by the healthcare provider prescribing the catheterization, record the amount of urine.
- Wipe yourself with tissue from front to back and discard the used catheter.
- Wash hands thoroughly with soap and water.

Males:
- Wash hands thoroughly with soap and water or use a waterless alcohol-based hand rub or towelette.
- Find a comfortable position. Some men prefer to stand for the procedure but it can be done just as easily in the sitting position.
- Hold the penis in an upright position (pointing towards the belly button) and wash the urethral opening (meatus) with soapy water and a clean washcloth or towelette (when away from home). For uncircumcised men, pull back the foreskin first and clean the meatus in the same way.
- Lubricate the tip of the catheter with the water-soluble jelly.
- Rotate the tip to spread the lubricant along the entire length of the catheter.
- With a collection container ready, slowly and gently insert the catheter into the meatus, approximately 6-8 inches or until urine begins to flow. Often the entire length of the catheter must be inserted (to the hub or end of the catheter) for urine flow to occur.
- There may be some resistance to the passage of the catheter half way through the urethra, at the part of the urethra where the sphincter (valve) and prostate gland is found. If this happens, hold firm, gentle, steady pressure and the sphincter will open. Muscle relaxation will be felt and the catheter will advance through this part of the urethra. You can also cough or take a few slow, deep breaths to relax your sphincter.
- There may also be resistance at the bottom of the bladder (called the “bladder neck”) which has another sphincter. Using firm, gentle, steady pressure should cause this part of the bladder to open and allow the catheter to pass into the bladder. If not, bearing down or pushing down or a strong cough may also relax this muscle so you can pass the catheter.
- Once inside the bladder, keep the catheter in place until the flow of urine stops. As soon as urine starts to flow, point your penis downwards over collection container or toilet. Slowly and gently withdraw the catheter allowing for any pockets of urine at the base of the bladder to drain. When there is no further flow of urine, remove the catheter.
- If requested by your healthcare provider, record the amount of urine drained from your bladder.
- Discard the used catheter.
- Wash hands thoroughly with soap and water.

Points to remember:
- Do not remove the catheter from the package until ready to use.
- Check the catheter for defects such as cracks or color changes before use.
- Avoid touching the tip of the catheter and avoid letting it touch other surfaces.
- A prescription or order from a healthcare provider is needed to state the number of times an individual catheterizes each day. Check with your individual insurance carrier to see which benefits are available to you.
- This fact sheet focuses on the adult patient. Children require special assessment and teaching to be successful. Contact your Pediatric Urologist for guidance.
- If you perform ISC and encounter any problems, call your Pediatric Urologist for guidance.

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