Kidney stone can be prevented

DRWAHEED ZAMAN

Kidney stone is one of the most painful disorders that lead a person to expensive and unpleasant emergency may prescribe. visits, hospitalisations and undergo surgical procedures.

Half of all untreated people will form additional stones and some will form stones chronically. Preventing kidney stones is the primary goal and we have peer-reviewed clinical data for last 20 years proving that the treatment guideline can help reducing kidney stone formation rates up to 80 percent.

Kidney stones form when urine has too many crystalforming chemicals and/or not enough substances that protect against crystal formation. If the crystals do not rapidly pass through the urinary tract, they can accumulate and form stones. When the volume of urine is too low, stone-forming materials become concentrated helping to promote stones.

Kidney stones can be prevented if measures taken properly. During the last 30 years, treatment plans incorporating diet, fluids and medications have been developed to prevent or stall the formation of new stones.

have been proven in con-ries, grapes, lemon peel,

preventive treatment may consist of fluid, diet, and/or medications. Diet changes are just as essential as any medications your urologist

General kidney stone prevention guidelines

Increase fluid intake: A very common question is how much water should I drink each day? You should be producing at least 2.5 liters of urine a day. How much you need to produce that much urine will vary depending on many things.

1. Activity level (The more active you are the more you perspire and need to replenish your body with fluids)

2. Living/working in a hot/dry environment

3. Frequent flying (Pilots, flight attendants, business travelers etc.) and flying all day can cause dehydration

4. Salt intake (High salt intakes increases water retention)

Increasing your fluid intake keeps urine diluted and helps keep crystals from forming. Low oxalate diet: Unfor-

tunately, oxalate is found in healthy plant foods. High oxalate containing foods are tea, beans, nuts, peanuts, peanut butter, soybean curd (tofu), sunflower seeds, chocolate milk, pepper, The primary treatment ginger, soy sauce, blackbertrolled clinical trials. Your bread, whole wheat etc.



If you have other medical conditions like heart related problems, diabetes, high blood pressure, etc. you may have been advised by another physician to eat a diet low in fat and sugar but rich in vegetables that may

contain high oxalate. should be everything in moderation. Cut on the portion size of the high oxalate containing foods As a rule, if salt and several and the number of times a day or week you are eating these foods.

Here and there you will indulge and when you do, make sure you flush out the extra oxalate with an added 8 ounce glass of water - before and after your treat.

Low salt diet: Your sodium intake should be between 2300-3300 mg per day.

of our foods that we buy in restaurants or at the store. A contain anywhere from 1000 to 4000 milligrams of Then your key to diet sodium! It is important to read the nutrition labels on all packaged foods and to look at the ingredients listed. sodium compounds are listed as ingredients, the product contains more salt than is advisable on a low-

> Low purine diet: Purine is a compound that is mainly found in animal protein and when metabolised, breaks

sodium diet.

down into uric acid. When you eat a diet that is high in protein (beef, poultry, pork Sodium is added to many and chicken), you have

higher uric acid levels. The normal diet contains single restaurant meal can from 600 to 1000 milligrams of purines daily. A lowpurine diet is restricted to approximately 100 to 150 milligrams daily.

Current treatments

The current treatments available for kidney and ureteric stones include conservative management (waiting for spontaneous passage), extracorporeal shockwave lithotripsy (ESWL), endoscopic techniques (rigid and flexible ureteroscopic lithotripsy), and percutaneous treat-

ments.

The American Urologic Association Stone Guidelines Panel has identified ESWL as a potential first-line treatment for both proximal and distal ureteric stones and for Kidney stones smaller than 2 cm.

ESWL is a noninvasive procedure that uses shock waves to break up the kidney stone into small pieces that can more easily travel through the urinary tract and excreted from body. However, complex presentations frequently are treated best endoscopically.

Following its introduction in 1980, ESWL dramatically changed the management of Kidney stone disease. ESWL is a procedure in which kidney and ureteric stones are pulverised into smaller fragments by shock waves. These small fragments then can pass spontaneously in urine.

ESWL can not be performed in patients with acute urinary tract infection, uncorrected bleeding disorders, pregnancy, sepsis, and uncorrected obstruction distal to the stone. Otherwise, this noninvasive approach allows patients to be rendered stone-free without surgical intervention or endoscopic procedures.

The writer is a Consultant, Urology, Apollo Hospitals Dhaka.

For many decades, people blood sugar. have been using garlic to prevent a countless of health conditions from cold - flu to complicated Garlic is believed to be heart problems and certain helpful in preventing and cancers (especially colon).

DR RUBAIUL MURSHED

A medicinal food

Garlic:

against plague by monks triglyceride levels. in the Middle Ages. Great Hippocrates used garlic vapors to treat cervical cancer. It was used during World War-II as an inexpensive and apparently quite effective replacement for antibiotics. Allicin from crushed raw garlic is a very strong antibiotic that kills even MRSA staph on contact.

Today, researchers have shown that garlic can kill many types of bacteria, viruses and in some cases even intestinal parasites. Some believe that this is also considered a useful antioxidant that can boost the body's immune system.

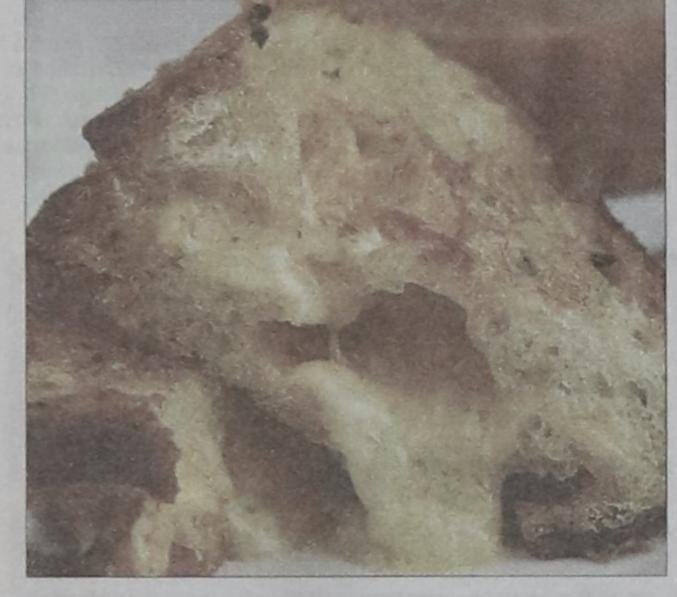
Some scientists found, this can reduce LDLs or "bad cholesterol and is a good blood-thinning agent to avoid blood clots which could potentially lead to heart attack or stroke. And, epidemiological and medical studies also suggest that individuals regularly consuming garlic show a lower incidence of stomach cancer and show lower blood lipid levels. Studies or indomethacin, you have also shown that con- should avoid from having suming garlic generally large amounts of garlic or

Among general people, garlic is well known for its good effects on heart. treating high lipid profile It was used to protect or cholesterol and

> This is also effectual in atherosclerosis and respiratory infections. One study reported that garlic was able to reduce arterial plaque formation by nearly 20 percent in some participants, especially in women.

Allicin and its derivatives are responsible for its special odor and many of its medicinal effects. Interestingly, Allicin is found when garlic bulbs are crushed. There are different kinds of garlic oils, garlic powder capsules, garlic pills with enteric coatings are available these days. Some are not genuine as well. In fact, garlic oils are the oldest kind of manufactured preparation.

There have been some reports of a possible interaction between garlic and warfarin that could increase risk of bleeding. Therefore, if you are taking anticoagulant (blood-thinning) medications such as aspirin, warfarin, dipyridamole, lowers or helps to regulate consult a qualified doctor.



DR MD RAHB HOSSAIN

Most foods contain several different kinds of fats including saturated, polyunsaturated, monounsaturated and trans fats — and some kinds are better for your health while some are harmful. When choosing fats, pick unsaturated fat over saturated or trans fat. Here's how to know the difference.

Healthy fats

Unsaturated fats: Monounsaturated and polyunsaturated fats are considered as healthy fats. These fats, if used in place of others, can lower your risk of heart disease by reducing the total cholesterol and low-density lipoprotein (LDL) cholesterol levels in your blood. One type of polyunsaturated fat - omega-3 fatty acids may be especially beneficial to your heart.

Omega-3s appear to decrease the risk of coronary artery disease. They may also protect against irregular heartbeats and help lower blood pressure levels. Below are the best food sources of these healthy fats:

Monounsaturated fat include olive oil, peanut oil, canola oil, avocados, nuts and seeds. Polyunsaturated fat are vegetable oils (such as safflower, corn, sunflower, soy and cottonseed oils), nuts and seeds.

Another kind of good fat is omega-3 fatty acid which is found in fatty, cold-water fish (such as salmon), flaxseeds, flax oil and walnuts.

Harmful fats

(trans-fatty acids) are less healthy kinds of fats. They can increase your risk of heart disease by increasing your total and LDL (bad cholesterol). Dietary cholesterol is not technically a fat, milligrams a day.

but it is found in food derived from animal sources.

Intake of dietary cholesterol increases blood cholesterollevels, but not as much as saturated and trans fats do and not to the same degree in all people. Below are common food sources of harmful fats:

·Saturated fat: Animal products (such as meat, poultry, seafood, eggs, dairy products, lard and butter), and coconut, palm and other tropical oils.

•Trans fat: Partially hydrogenated vegetable oils, commercial baked goods (such as crackers, cookies and cakes), fried foods (such as dough nuts and french fries), shortening and margarine.

·Dietary cholesterol: Animal products (such as meat, poultry, seafood, eggs, dairy products, lard and butter). **Daily limits for fat intake**

The U.S. Department of Agriculture (USDA) and the Department of Health and Human Services (HHS) recommend that fat make up no more than 35 percent of your daily calories.

This means that if you consume 1,800 calories a day; eat no more than 70 grams of fat daily. (To figure: Multiply 1,800 by 0.35 to get 630 calories, and divide that number by 9, the number of calories per gram of fat, to get 70 grams of total fat.)

Keep in mind, however, that this is an upper limit and that most of these fat calories should come from monounsaturated and polyunsaturated sources. In addition, the USDA and HHS Saturated and trans fats recommend these upper limits for saturated fat and dietary cholesterol for healthy adults: Saturated fat should be less than 10 percent of your total daily calories and dietary cholesterol less than 300

Anger really can kill you: study Yale University in New called T-Wave Alternans that mia in follow-up," she said.

REUTERS, Chicago

Anger and other strong emotions can trigger potentially deadly heart rhythms in certain vulnerable people, U.S. researchers said.

Previous studies have shown that earthquakes, war or even the loss of a World Cup Soccer match can increase rates of death from sudden cardiac arrest, in which the heart stops circulating blood.

"It's definitely been shown in all different ways that when you put a whole population under a stressor that sudden death will increase," said Dr. Rachel Lampert of

ABU SIDDIQUI

Cervical cancer is a malig-

nant cancer of the cervix

uteri or cervical area, It may

present with vaginal bleed-

ing but symptoms may be

absent until the cancer is in

Why the cervical cancer

Cervical cancer is caused by

women, called genital warts.

Genital warts are not a life-

threatening disease. But

they can cause emotional

stress and their treatment

Who should get the

The HPV vaccine is recom-

mended for 11 and 12 year-

old girls. It is also recom-

mended for girls and women

can be very uncomfortable.

vaccine?

vaccine is important?

its advanced stages.

Haven, Connecticut, whose measures electrical instabilstudy appears in the Journal of the American College of Cardiology.

and implantable heart defibrillators or ICDs that can detect dangerous heart rhythms or arrhythmias and deliver an electrical shock to restore a normal heart beat.

know already had some vulnerability to arrhythmia," Lampert said. Patients in the Lampert's team did a test one else to have an arrhyth- abnormalities," she said.

Cervical cancer vaccine:

vaccinated or completed the vaccine.

Will sexually active HPV vaccine is?

women benefit from HPV vaccine targets the

What we need to know

Ideally women should get

vaccinated before they

become sexually active.

Women who are sexually

active may get less benefit

from it. This is because they

vaccine series.

the vaccine?

ity in the heart.

Lampert said the team specifically asked questions who are already vulnerable to She and colleagues studied to get people to relive the this type of electrical distur-62 patients with heart disease angry episode. "We found in bance in the heart. the lab setting that yes, anger did increase this electrical instability in these patients,' she said. Next, they followed patients for three years to see which patients later had a "These were people we cardiac arrest and needed a

defibrillator. study took part in an exercise highest anger-induced elec-

age who have not yet been find out if they should get the vaccine protection will last a

How much effective the

types of HPV that most com-

monly cause cervical cancer

and genital warts. The vac-

cine is highly effective in

preventing those types of

HPV in young women. The

vaccine is less effective in

Lampert said the study suggests that anger can be deadly, at least for people

"It says yes, anger really does impact the heart's electrical system in very specific ways that can lead to sudden death," she said.

But she cautioned against extrapolating the results to shock from their implantable people with normal hearts. "How anger and stress may "The people who had the impact people whose hearts are normal is likely very differin which they recounted a trical instability were 10 ent from how it may impact recent angry episode while times more likely than every- the heart which has structural



Dr. Prathap C Reddy, Executive Chairman, Apollo Hospitals Group with a patient.

CyberKnife introduced at Apollo Speciality Cancer Hospital, Chennai

introduced the most certreatment." advanced CyberKnife® release.

brings an unparalleled mentduringtreatment. approach to treating inoperable tumors in patients who has significant benefits. previously had no options or Many of the complications only high-risk options for associated with other contreatment now have a safer ventional cancer therapies

most advanced CyberKnife® CyberKnife® treatment.

Apollo Speciality Cancer in the Asia Pacific. Undoubt-Hospital at Chennai has edly the next frontier in can-

The advanced technology Robotic Radio Surgery Sys- behind CyberKnife® uses tem recently, says a press real time image guidance technology and computer-Robotic radiosurgery controlled robotics to deliver system is a breakthrough an extremely precise dose of technology which is radiation to targets, avoiding designed to treat tumors the surrounding healthy anywhere in the body with tissue and adjusting for sub-millimeter accuracy. It patient and tumor move-

The CyberKnife® system are minimized or eliminated As unveiled Asia's most by the CyberKnife® system. advanced CyberKnife® In addition, it is possible to Robotic Radio Surgery Sys- treat multiple tumors at tem, Dr Prathap C Reddy, different locations in the Executive Chairman, Apollo body during a single treat-Hospitals Group said, "In our ment session. Patient norcontinuing endeavor to fight mally experiences dramatic cancer, we have brought the pain relief after the

preventing HPV-related Human Papillomavirus may have already gotten an (HPV) which is spreads through sexual contact. Most sexually active women get HPV at some time in their lives. It is most common in women in their late teens and early 20s. Most HPV types cause no symptoms and go away on their own. There are about 40 types of HPV that can infect the genital areas of women. Some types can cause cervical cancer, while the other types of HPV can cause warts in the genital areas of

HPV type targeted by the disease in young women vaccine. Few sexually active who have already been women are infected with all exposed to one or more HPV HPV types covered by the types. That is because the vaccine so they would still vaccine does not treat existget protection from those ing HPV infections or the types they have not yet got- diseases they may cause. It

Should girls be screened for cervical cancer before getting vaccinated? No. Girls do not need to get

a person gets it.

How long does vaccine protection last? Will a booster shot be needed? It has been suggested that and can be reached at abujujad (by ahoo.com age 13 through 26 years of an HPV test or Pap test to

women will need a booster vaccine many years after getting vaccinated to boost protection. Will girls/women be protected against HPV even if they don't get all

long time. More research is

being done to find out if

three doses?

It is not yet known how much protection girls/ women would get from receiving only one or two doses of the vaccine. For this reason, it is very important that girls/women get all three doses of the vaccine.

What vaccinated women need to know?

Vaccination is not a substitute for regular cervical screening or for precautions against exposure to HPV and sexually transmitted diseases. Women will still need regular cervical cancer screening (Pap tests) because the vaccine will not protect against all HPV types that cause cervical cancer. Women who got the vaccine after becoming sexually can only prevent HPV before active may not get the full benefit of the vaccine if they had already acquired HPV.

> The writer is an Immunologist working in a multinational healthcare company in the U.S.A.

