POSITIVE AND NEGATIVE CONSEQUENCES OF DIURETICS

Mirzaalimov Sirajidin Talibjanovich

Andijan State Medical Institute, Uzbekistan

Annotation: Diuretics, also called water pills, are medications designed to increase the amount of water and salt expelled from the body as urine. The most common condition treated with diuretics is high blood pressure. The drugs reduce the amount of fluid in your blood vessels, and this helps lower your blood pressure.

Key words: diuretic, blood, kidney, angiotenzine, aldosterone.

Other conditions are also treated with diuretics. Congestive heart failure, for instance, keeps your heart from pumping blood effectively throughout your body. This leads to a buildup of fluids in your body, which is called edema. Diuretics can help reduce this fluid buildup.

The three types of diuretic medications are called thiazide, loop, and potassium-sparing diuretics. All of them make your body excrete more fluids as urine.

Thiazide diuretics

Thiazides are the most commonly prescribed diuretics. They're most often used to treat high blood pressure. These drugs not only decrease fluids, they also cause your blood vessels to relax.

Thiazides are sometimes taken with other medications used to lower blood pressure. Examples of thiazides include:

- chlorthalidone
- hydrochlorothiazide (Microzide)
- metolazone
- indapamide

Loop diuretics

Loop diuretics are often used to treat heart failure. Examples of these drugs include:

- torsemide (Demadex)
- furosemide (Lasix)
- bumetanide

Potassium-sparing diuretics

Potassium-sparing diuretics reduce fluid levels in your body without causing you to lose potassium, an important nutrient.

The other types of diuretics cause you to lose potassium, which can lead to health problems such as arrhythmia. Potassium-sparing diuretics may be prescribed for people at risk of low potassium levels, such as those who take other medications that deplete potassium.

Potassium-sparing diuretics don’t reduce blood pressure as well as the other types of diuretics do. Therefore, your doctor may prescribe a potassium-sparing diuretic with another medication that also lowers blood pressure.

Examples of potassium-sparing diuretics include:

- amiloride
- triamterene (Dyrenium)
- spironolactone (Aldactone)
- eplerenone (Inspra)

Side effects of diuretics

When taken as prescribed, diuretics are generally well tolerated. However, they can still cause some side effects.

More common side effects

The more common side effects of diuretics include:

- too little potassium in the blood
- too much potassium in the blood (for potassium-sparing diuretics)
- low sodium levels
- headache
- dizziness
- thirst
- increased blood sugar
- muscle cramps
- increased cholesterol
- skin rash
- gout
- diarrhea

Serious side effects

In rare cases, diuretics may cause serious side effects. These can include:

- allergic reaction
- kidney failure
- irregular heartbeat

What you can do

If you have side effects that bother you while taking diuretics, talk to your doctor. They may prescribe a different medication or combination of medications to help reduce your side effects.

Whether or not you have side effects, don't stop taking your diuretic without first talking to your doctor.

Risks of diuretics

Diuretics are generally safe, but there are some risks if you have other medical conditions or take certain medications.

Conditions of concern

Before you take a prescribed diuretic, be sure to tell your doctor if you have any of the following conditions or issues:

- diabetes
- pancreatitis
- lupus

- gout
- menstrual problems
- kidney problems
- frequent dehydration

Drug interactions

When you begin a new medication, make sure to tell your doctor about any other medications, supplements, or herbs you're taking. Some medications that might interact with a diuretic include:

- cyclosporine (Restasis)
- antidepressants such as fluoxetine (Prozac) and venlafaxine (Effexor XR)
- lithium
- digoxin (Digox)
- other drugs for high blood pressure

Herb and plant diuretics

Some herbs and plants are considered "natural diuretics," including:

- hawthorn
- green and black tea
- parsley

These substances aren't meant to be used to replace a prescription diuretic. If you have questions about diuretics and other treatment options, talk to your doctor.

Talk with your doctor

Prescription diuretics can be helpful in treating serious conditions, such as heart failure, to less-pressing conditions, such as mild high blood pressure.

If your doctor prescribes a diuretic, feel free to ask them any questions you may have. Consider discussing these questions:

- How will I know my diuretic is working the way it's supposed to work?
- Am I taking any medications that might interact with a diuretic?
- Should I follow a low-salt diet while taking a diuretic?
- Should I have my blood pressure and kidney function tested while taking this drug?
- Should I take a potassium supplement or avoid foods that contain potassium?

Also known as "water pills," these drugs help your kidneys get rid of extra water and salt from your body through your urine. Because you have less total fluid in your blood vessels, like a garden hose that's not turned on all the way, the pressure inside will be lower. This also makes it easier for your heart to pump.

Diuretics are commonly used to control blood pressure.

Examples of diuretics include:

- Aldactone (spironolactone)
- Bumex (bumetanide)
- Demadex (torsemide)
- Esidrix (hydrochlorothiazide)
- Lasix (furosemide)
- Zaroxolyn (metolazone)

Diuretics come in different categories:

- Thiazide-like. These get rid of a moderate amount of water. They can be used for a long time.
- Loop. They're more powerful and are very useful in emergencies.
- Potassium-sparing. They help you keep potassium as you're getting rid of water and salt.

Make sure to follow your doctor's and pharmacist's instructions. It's a fine balance to maintain healthy levels of fluid and electrolytes.

Ask how much water and salt you should have in your diet each day if you take diuretics. You may need to limit salt in your diet or weigh yourself daily.

If you take loop diuretics, you might need to eat foods that are high in potassium, such as bananas and tomatoes. If you take potassium-sparing diuretics, you might need to avoid these foods. Always talk to your doctor about any changes to your diet you make when taking diuretics or any other regular medication.

Tell your doctor if you're having trouble keeping up your fluids, for example, if you have diarrhoea. They may tell you not to take your diuretic until you get better.

Diuretics can make you urinate more frequently than usual, so it's often advised to take diuretics early in the day to avoid having to pass urine during the night.

References:

1. Mozimjon o'g'li, S. S., & Makhmudovich, A. H. (2023). Causes of the Origin of Cardiovascular Diseases and their Protection. *AMALIY VA TIBBIYOT FANLARI ILMIY JURNALI*, *2*(2), 185-187.
2. Nozimjon o'g'li, S. S. (2022). INFORMATION ABOUT THE STRUCTURE OF THE MEMBRANE OF EPITHELIAL TISSUE AND GLANDS. *British Journal of Global Ecology and Sustainable Development*, *10*, 65-69.
3. Nozimjon o'g'li, S. S. (2022). Emergency medical care in case of drowning and measures to restore the patient's health. *Academia open*, *7*, 10-21070.
4. Nozimjon o'g'li, S. S., & Xasanboy o'g'li, A. A. (2021). Quantitative Indicators of Villi Cells in the Intraepithelial Part of the Small Intestine. *EUROPEAN JOURNAL OF INNOVATION IN NONFORMAL EDUCATION*, *1*(2), 19-21.
5. Mahmudova, N. R., & Adkhamova, R. K. (2023). FUNCTIONAL-SEMANTIC PROPERTIES OF GRADATION. *Ethiopian International Journal of Multidisciplinary Research*, *10*(11), 42-43.
6. Mahmudova, N. R., & Dadzhonova, S. S. (2023). LINGUISTIC AND EXTRALINGUISTIC FEATURES OF GRADATION. *Ethiopian International Journal of Multidisciplinary Research*, *10*(11), 52-53.
7. Mahmudova, N. R. (2023). STATIC AND DYNAMIC INDICATORS THAT REPRESENT GRADATION IN ENGLISH AND UZBEK. *International Multidisciplinary Journal for Research & Development*, *10*(10).
8. Makhmudova, N. R. (2021). FUNCTIONAL-SEMANTIC FIELD OF GRADUAL CATEGORY. *РОЛЬ ИННОВАЦИЙ В ТРАНСФОРМАЦИИ И УСТОЙЧИВОМ РАЗВИТИИ СОВРЕМЕННОЙ*, 87.
9. Makhmudova, N. R. (2017). Comparative analysis of the concept" woman" in English and Uzbek proverbs. In *Современная филология* (pp. 59-62).
10. Sayfiyev, H., & Saidova, M. (2023). EFFECTS OF GYMNASTICS ON FUNDAMENTAL MOTOR SKILLS (FMS), POSTURAL (BALANCE)

CONTROL, AND SELF-PERCEPTION DURING GYMNASTICS TRAINING. *Modern Science and Research*, *2*(9), 204-210.

11. Khairullayevich, S. H. Development of gymnastics in Uzbekistan and attention to gymnastics. *International scientific-educational electronic magazine" OBRAZOVANIE I NAUKA*, *21*(12), 204-210.

12. Xayrullayevich, S. H. (2023). Use of Acrobatic Exercises and Their Terms In The Process of Teaching Gymnastics. *Intersections of Faith and Culture: American Journal of Religious and Cultural Studies (2993-2599)*, *1*(9), 80-86.

13. Sayfiyev, H. X. (2023). SPORT GIMNASTIKASI ORQALI YOSH BOLALARNING HARAKAT KO ‘NIKMASI RIVOJLANTIRISH PEDAGOGIK MUAMMO SIFATIDA. *Educational Research in Universal Sciences*, *2*(11), 300-306.

14. Saidova, M., & Sayfiyev, H. (2023). CONTENT-IMPORTANCE AND PRINCIPLES OF PHYSICAL EDUCATION CLASSES. *Modern Science and Research*, *2*(9), 192-199.

15. Ayubovna, S. M., & Komiljonova, K. I. (2022). Features of Application of Sports Games in Preschool Children. *International Journal of Culture and Modernity*, *16*, 17-23.

16. Saidova, M. (2023). THE CONCEPT OF PHYSICAL QUALITIES. *Modern Science and Research*, *2*(10), 251-254.

17. Sayfiyev, H., & Saidova, M. (2023). EFFECTS OF GYMNASTICS ON FUNDAMENTAL MOTOR SKILLS (FMS). *POSTURAL (BALANCE) CONTROL, AND SELF-PERCEPTION DURING gymnastics. International scientificeducational electronic magazine" OBRAZOVANIE I NAUKA*, *21*.

18. Ayubovna, S. M. (2023). Physiological Basics of Forming Movement Skills and Teaching Sports Techniques. *Intersections of Faith and Culture: American Journal of Religious and Cultural Studies (2993-2599)*, *1*(9), 87-94.

19. CHULIEVA, V. E. (2021). THE PRINCIPLES OF COMMONALITY AND SPECIFICITY IN THE PHILOSOPHICAL TEACHINGS OF BAHA UD-

DIN WALAD AND JALAL AD-DIN RUMI. *THEORETICAL & APPLIED SCIENCE Учредители: Теоретическая и прикладная наука*, (9), 566-573.

20. Erkinovna, C. V. (2023). The Philosophical and Mystical Views of Jaloliddin Rumi. *EUROPEAN JOURNAL OF INNOVATION IN NONFORMAL EDUCATION*, *3*(1), 121-124.

21. Chuliyeva, V. E. (2020). THE PROBLEM OF PERSONALITY IN PHILOSOPHICAL AND ANTHROPOLOGICAL VIEWS OF BAHA AL-DIN WALAD AND JALAL AD-DIN RUMI. *Theoretical & Applied Science*, (11), 186-191.