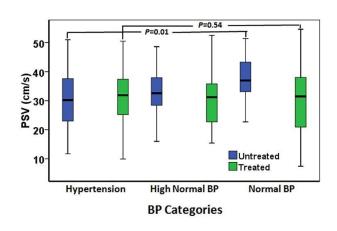


How to treat high blood pressure without ruining your sex life

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Credit: European Society of Cardiology

Men with untreated high blood pressure have poorer penile blood flow than those with normal blood pressure, according to research presented today at ESC Congress 2020. The differences disappeared with blood pressure medication. The results provide reassurance to men concerned about the effects of blood pressure-lowering medications.

Hypertension (high blood pressure) affects more than one billion people worldwide and is the leading cause of premature death. A healthy lifestyle is advised, including salt restriction, alcohol moderation, exercise, weight control, and smoking cessation. Most patients also require drug treatment, which is linked to reduced risks of patients do not take their pills. Sexual dysfunction is one reason why patients stop medication.

Men with hypertension are almost twice as likely to have impaired penile blood flow and erectile dysfunction compared to men with normal blood pressure, increasing their risk of heart disease and death. High blood pressure damages artery walls,

causing them to harden and narrow, and reducing blood flow to the penis. Erectile dysfunction is an early warning sign of damaged blood vessels.

However, previous studies have shown that erectile dysfunction is more common in treated, than untreated, men with high blood pressure. And certain antihypertensive drugs-notably diuretics and beta blockers—have been linked with deterioration in sexual function. This study examined the association between blood pressure level and penile blood flow, and whether blood pressure-lowering medication had an effect on the relationship.

The study included 356 men with erectile dysfunction and no history of diabetes or cardiovascular disease who attended a clinic between 2006 and 2019. The cohort was divided into three categories according to blood pressure: normal, high-normal, and hypertension. A total of 164 (46%) patients were being treated with antihypertensive medications.

All patients underwent a penile colour Doppler ultrasound which is the standard method for evaluating penile blood vessels and erectile dysfunction. The method involves injecting a drug into the base of the penis to open the blood vessels then measuring blood flow. Penile blood flow is considered impaired when the velocity is lower than 25 cm/s.

Among men not receiving antihypertensive death, stroke, and heart disease—but around half of medication, penile blood flow velocity progressively decreased with rising blood pressure—i.e. blood flow was fastest in those with normal blood pressure, slower in those with high-normal blood pressure, and slowest in those with hypertension (see Figure). In contrast, among men taking antihypertension therapy, there was no difference in penile blood flow velocity between the three blood pressure categories.



"The progressive decrease in penile blood flow velocity across the three blood pressure categories guarantee either the restoration or improvement of in men not taking antihypertensive medication indicates significant structural changes in the penile to patients in advance to avoid unreasonable blood vessels from longstanding hypertension," said study author Professor Charalambos Vlachopoulos of the National and Kapodistrian University of Athens, Greece. "The blood flow differences across the three blood pressure categories disappeared with treatment, suggesting a medication effect."

An additional analysis compared treated and untreated men within each blood pressure group. In between office blood pressure, antihypertensive the hypertension category, treated and untreated patients had similar penile blood flow velocities. However, in the high-normal category, treated men had worse penile blood flow than untreated men. Similarly, in the normal blood pressure category, treated men had worse penile blood flow than untreated men.

Professor Vlachopoulos said: "These results imply that hypertensive patients already have significant structural damage in the penile arteries and adding antihypertensive drugs does not further reduce penile blood flow. But in men with normal or highnormal blood pressure, the penile arteries have minimal structural damage and medications could have a negative impact on penile blood flow."

He urged men with concerns about sexual dysfunction to discuss it with their doctor. "For men with as yet untreated hypertension, older medications (beta blockers and diuretics) are not ideal and should be used only if absolutely indicated," he said.

Professor Vlachopoulos noted that changing hypertensive medications in men with erectile dysfunction must be handled with caution. He said: "First, if a co-existing disease dictates using a specific drug category (for example, beta blockers for coronary artery disease and heart failure, diuretics for heart failure), then switching is not advocated. Alternatives might be considered if patients are at risk of stopping lifesaving therapy because of the detrimental impact of erectile dysfunction on their life."

"Second, switching to another drug class does not erectile function. This has to be carefully explained expectations," he said.

Professor Vlachopoulos concluded: "Our study shows that high blood pressure can be treated without causing erectile dysfunction. Patients and doctors need to have open discussions to find the best treatment option."

More information: Abstract title: Association medication use and male sexual dysfunction: A penile Doppler study.

Provided by European Society of Cardiology



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