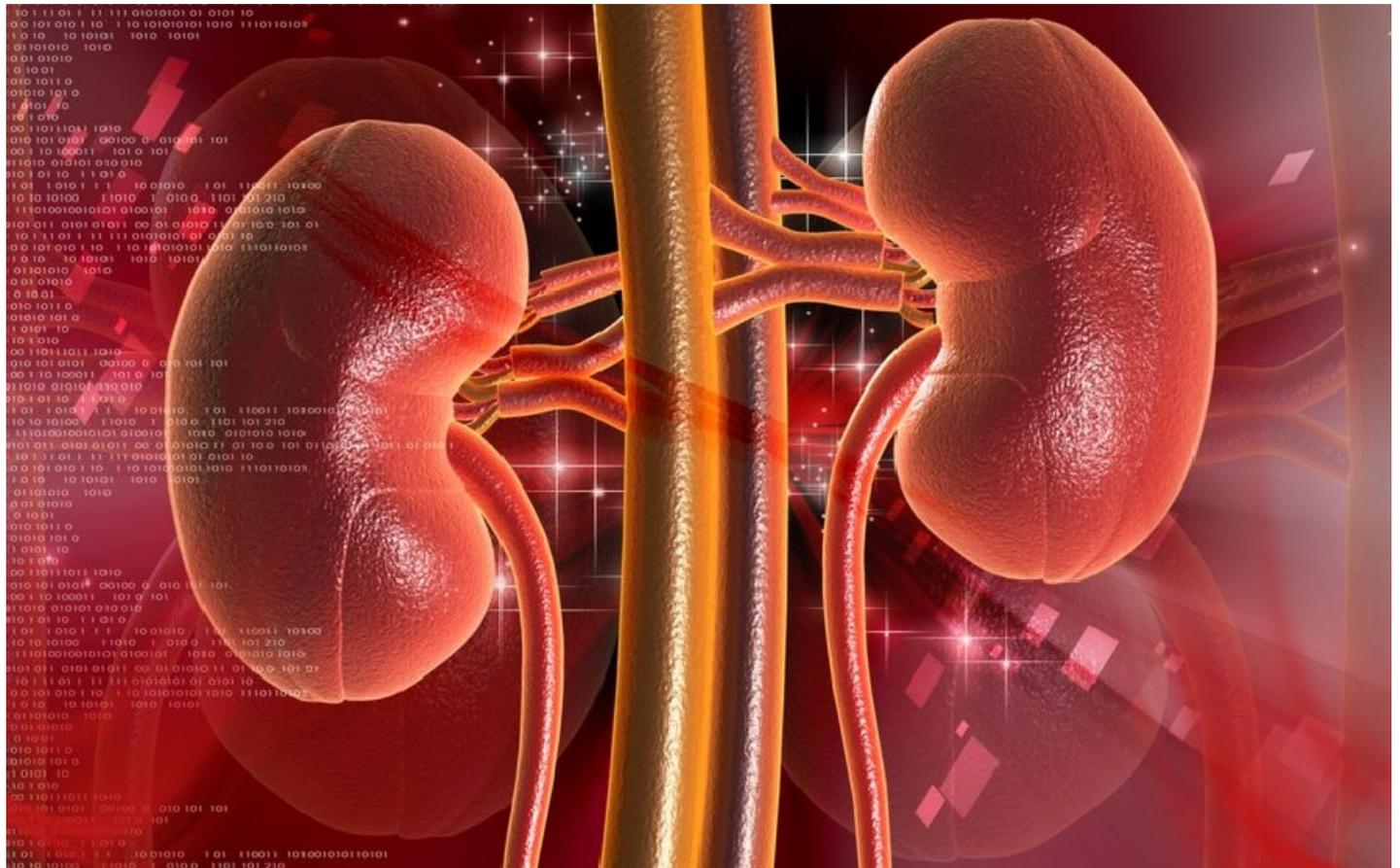


New breakthrough treatment for kidney disease offers hope for diabetes patients

<https://www.biovoicenews.com/new-breakthrough-treatment-for-kidney-disease-offers-hope-for-diabetes-patients/>

By : BioVoice Correspondent - April 15, 2019



New Delhi: A new treatment for people with diabetes and kidney disease reduced kidney failure rates by a third, according to a landmark study.

The results, published in the New England Journal of Medicine, also showed heart failure was reduced by over 30 percent, and major cardiovascular events by about 20 percent.

The drug canagliflozin was developed to lower glucose levels for people with diabetes but today has been shown to protect against kidney failure. It also significantly reduced the risk of cardiovascular complications including heart failure, which are common among people with kidney disease.

Around 70 million people in India have diabetes and up to 40% will go onto develop kidney disease.

Lead author Professor Vlado Perkovic, of The George Institute for Global Health, said there was an urgent need for this new treatment given the surging rates of diabetes.

“Diabetes is the leading cause of kidney failure worldwide but for almost two decades there have been no new treatments to protect kidney function. This definitive trial result is a major medical breakthrough as people with diabetes and kidney disease are at extremely high risk of kidney failure, heart attack, stroke and death. We now have a very effective way to reduce this risk using a once daily pill.”

Researchers say the results, which were presented at the ISN World Congress of Nephrology in Melbourne today, can be implemented immediately as the drug is already available.

The study recruited 4,401 patients with diabetes and kidney disease from 34 countries. Half were given canagliflozin on top of best available current care for kidney disease – using either angiotensin-converting enzyme (ACE) inhibitors or angiotensin receptor blockers (ARBs). The control group received best available care according to current guidelines, and a placebo.

Key Findings

- **The number of people developing kidney failure or dying from either renal failure or cardiovascular disease was reduced by 30 percent.**
- **Hospitalization for heart failure was reduced by 39 percent.**
- **The risk of major cardiovascular outcomes – (heart attack, stroke and cardiovascular death) was reduced by 20 percent.**
- **There was no increased risk of major side effects.**

Professor Vivekanand Jha, Executive Director of The George Institute India and President of the International Society of Nephrology, said: “What the trial has shown is that this drug not only protects people with diabetes from developing kidney failure, but it also protects them from heart disease, heart failure and other cardiovascular complications. Importantly, it helps people who already have reduced kidney function and are at particularly high risk.

“With five million people predicted to have kidney failure by 2035 this is a major breakthrough.”

The researchers found the drug canagliflozin, a sodium glucose transporter 2 (SGLT2) inhibitor, was less effective at lowering blood sugar in people with reduced kidney function but still led to less kidney failure, heart failure and cardiovascular events such as heart attacks, strokes and death from cardiovascular disease.

Professor Perkovic said the results were impressive. “The substantial benefit on kidney failure despite limited effects on blood glucose suggest that these drugs work in a number of different ways beyond their effects on blood sugar. This is an area of intense ongoing research.”