

Cheap combo pill cuts heart, stroke risks, study finds

23 August 2019, by Maria Cheng



In this Nov. 5, 2018 file photo, a drugstore employee reaches for medicine from shelf in downtown Tehran, Iran. According to a study published in the British journal *Lancet* on Thursday, Aug. 22, 2019, researchers say a cheap daily pill that combines four drugs cut the risk of heart attacks, strokes and heart failure in a large study, suggesting it could be a good way to prevent heart problems. (AP Photo/Ebrahim Noroozi)

A cheap daily pill that combines four drugs cut the risk of heart attacks, strokes and heart failure in a large study, suggesting it could be a good way to help prevent heart problems especially in poor countries.

The pills contained two blood pressure drugs, a cholesterol medicine and aspirin. Many people can't afford or don't stick with taking so many medicines separately, so doctors think a [polypill](#) might help. A previous study testing one in India found it lowered cholesterol and blood pressure. The new study is much larger and gives stronger evidence because it tracked heart attacks, strokes and other problems—not just risk factors.

It involved about 6,800 people in Iran, ages 50-75, some with previous [heart problems](#) and others

without them. All got advice on healthy lifestyles and half also were given polypills. After five years, 6% of those in the pill group had suffered a [heart attack](#), stroke or [heart failure](#) versus 9% of the others. That worked out to a 34% lower risk with the polypill, and a 22% [lower risk](#) after researchers took into account other heart drugs that participants were taking.

People who took the polypill most faithfully, at least 70% of the time, had even bigger reductions in heart risks.

The benefit mostly seemed to come from lowering cholesterol; blood pressure didn't significantly change. Side effects were similar in both groups. Some who developed a cough while on the polypill were switched to another version that substituted one of the four drugs. All of the drugs are cheap generic medicines now.

Results were published Thursday in the British journal *Lancet*. The study was paid for by Tehran University of Medical Sciences, a foundation and Alborz Darou, the company that makes the polypills.

"This is an important step in the right direction," said Dr. Salim Yusuf of McMaster University in Canada, who leads another polypill study expected to finish next summer. "This could be used in every sensible country where we want to save lives."

One study leader, Dr. Tom Marshall of Britain's University of Birmingham, said the results show the polypill is a "viable strategy" to prevent [heart](#) disease in developing countries.

"It's much simpler to give people one medication that manages a couple of risk factors at the same time," he said.

Marshall said, however, that the benefits would be minimal for people who already have access to

good health care.

"But if you're in a system where people don't have great access, then this is a significant advantage," he said.

Dr. Amit Khera, director of preventive cardiology at Southwestern Medical School in Texas who had no role in the study, said he expected that polypills would start to be used more widely in the next few years if they're shown to work in other groups besides the people of central Asian ancestry tested in the Lancet study.

"The biology is different in different populations, so before we apply it to all of India or all of North Africa, we need to know these polypills are actually safe in these populations," he said.

More information: Gholamreza Roshandel et al. Effectiveness of polypill for primary and secondary prevention of cardiovascular diseases (PolyIran): a pragmatic, cluster-randomised trial, *The Lancet* (2019). [DOI: 10.1016/S0140-6736\(19\)31791-X](https://doi.org/10.1016/S0140-6736(19)31791-X)

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