## MEDICINE | New Heart Guidelines

## nmation worse for health than cholestero

guidelines for major risk factor in attacks to rewrite testing Doctors scramble

By Daniel Q. Hancy

even bigger trigger of heart attrumped by what doctors say is an perhaps, but the top health concholesterol cern of millions of Americans -- Hard to believe, is about to be

millions of middle-aged Ameriten that will urge doctors to test recommendations are being writthroughout the body. New federal in a variety of unlikely places flammation, which may originate The condition is low-grade in-

ory through the modern era of clogged arteries, the standard thetom rethinking of the origins and lem blamed on cholesterolkiller as largely a plumbing probture from viewing the world's top tors call it a revolutionary deparprevention of heart trouble. Docill effects is causing a top-to-bot-The discovery of its surprising

> because of our focus solely on cholesterol." disease that was essentially missed targeting and preventing heart an entire other way of treating, en's Hospital. "It means we have of Boston's Brigham and Womenormous," says Dr. Paul Ridker "The implications of this are

find and treat it? is: How aggressively should otherminimal. Now the main question overwhelming that inflammation say, the evidence has become wise healthy people be tested to when clogging in the arteries is mon trigger of heart attacks, even hidden deep in the body is a com-In the past year or two, experts

ommend broad testing. say they will almost certainly recin the fall. Doctors writing them answer this, probably sometime offer the first formal blueprint to being drawn up, but they will The recommendations are still

statin drugs, which lower inflammany that increase during inflamlow risk will probably be put on people ordinarily considered at ical exams. As a result, many ly become a standard part of physmation. Experts expect it to quickcalled C-reactive protein, one of for high levels of a chemical with a generic \$10 test that looks Inflammation can be measured

a ninefold increase in risk.

unusual risk of heart attacks and middle-aged Americans have norinflammation, putting them at mal cholesterol but above average 25 million and 35 million healthy Ridker estimates that between

cholesterol. of C-reactive protein have twice tion is more important than choning in 1997, suggests inflammahis team of researchers, beginthe risk of people with elevated They found those with high levels esterol at triggering heart attacks A series of landmark studies by

Circulation

is especially ominous, resulting in also predict increased risk of heart levels are low. Having both inthey occur, even when cholesterol attacks and strokes years before flammation and high cholesterol High amounts of the protein

suggests it becomes threatening if weakened heart arteries. The new evidence age has some degree of fatty buildup, called plaque, in the Everyone who reaches middle by inflammation,

No one disputes the impact of cholesterol. Yet half of all heart normal or even low. Clearly, attack victims have levels that are something big was missing from the equation, and that appears to

strokes. be inflammation.

8.7 times the risk as of cholesterol and C highest combination lowest. reactive protein has risk

ile. Even a small lump of plaque can burst like an overripe pimple, prompting the formation of a clot and causes a heart attack. that in turn chokes off blood flow becomes inflamed as white blood

Many people with no outward

signs of anything wrong have ness during infections or allergic high levels of internal inflammathat causes swelling, heat and redtion. It is exactly the same sort

which makes it squishy and fragflammation has many possible Doctors believe the internal in-

low-level infections,

mation as well as cholesterol.

## Inflammation and heart disease

measured by C-reactive protein, is an even more important trigger heart attacks. New research suggests that inflammation, as High cholesterol was thought to be the major underlying cause of

Sumcone with the inflammation level of cholesterol and Risk of heart attack by Cardiovascular

sources. Often, the plaque itself Associated Press Graphic

ssociated Press

such as chronic gum disease.

weight is so bad for the heart that arises elsewhere apparently can be as bad, for it bombards the high blood pressure, smoking and Other possible triggers include helps explain why being overout inflammatory proteins, which plaque with damaging chemicals. fense attempt. But inflammation cells invade in a misguided de-For instance, fat cells churn the CDC's chief of cardiovascular widely," says Dr. George Mensah disseminate that information and use all available means to to have a broad-based consensus nary people about it. "Our goal is paign to leach doctors and ordi-November, followed by a camommendations ready for publication in the journal Circulation in Doctors hope to have the rec-

## **High-risk conditions**

recognized risk factor for coronary heart disease. Among the other Inflammation is a newly risk factors

- Increasing age
- \* Being male Having parents with heart dis
- ▶ Smoking.
- ► Total cholesterol over 239 ► HDL, the good cholesterol, be-
- ▶ High blood pressure

low 35

- Lack of physical activity
- ▶ Being overweight

▶ Diabetes