

BY ROGER

may be quite helpful for de-Ascreening calcium coronary artery such as score,

fence" for this treatment drug in people who are otherwise "on the therapy with aspirin and a lipid-lowering to start lifelong ciding whether

aspirin and a lipid-lowering drug, such as who could benefit from a daily regimen of heart disease event and identify the people tomatic person's risk for a future coronary The Framingham risk score (FRS) is But the FRS has some serious limita-

age means that while the FRS works reaperson's chronologic age rather than their biologic age. The focus on chronologic coronary heart disease, and it relies on a not take into account a family history of tions when it's the only tool used. It does

Measurement of

way to gauge is an effective volumetric score an Agatston or and expressed as using cardiac CT coronary calcium disease risk. cardiovascular

> tifying young adults and midease dle-aged are vascular risk of cardionificant lifetime who face a sigaged, it's less efmost men who fective for idenmiddle.

ease events first manifestation of cardiovascular dissent with a myocardial infarction as the fully account for gender differences. Men than total atherosclerotic, vascular risk of coronary heart disease events, The FRS was designed to predict only the or angina that requires revascularization. have other presentations, such as stroke ease, while women are more likely to are more likely than women are to preas myocardial infarctions, FRS

it's designed to estimate the risk of years, a feature that might underestimate risks that develop over a longer period of coronary disease event over the next 10 Another problem with the FRS is that

much higher. years, it may give them and their physicians a false sense of security about the attack is only 1% or 2% over the next 10 though their longer-term need to reduce their risk factors, even If people hear that their risk of a heart

Results from several studies reported during the past few years indicate that pharmacologic treatment and more agthe FRS and refine decision making about gauge cardiovascular disease risk and proor volumetric score is an effective way to cardiac CT and expressed as an Agatston measurement of coronary calcium using information that can complement

Get Better Cardiac Risk Estimates S H EDITORIAL

gressive lifestyle changes. Plus the cost for obtaining a coronary artery calcium score has dropped dramatically. Today in Baltimore, I can order one of these tests for \$95-\$200.

know their coronary artery calcium score. People with an FRS that identifies a 10ing a daily, lifelong regimen of aspirin and event are already good candidates for startyear risk of more than 10% for a coronary Most middle-aged adults do not need to

> 100 mg/dL. In most people with an FRS of less than 5%, their absolute cardiovasa statin to get their serum level of lowenough that a calcium score is also not density lipoprotein cholesterol to less than cular risk over the next 10-15 years is low

efit by having their risk fine-tuned by a 10-year risk of an event, who might benwith an FRS that translates into a 5%-10% It's the people in between, the ones

> pecially those with a family 40-65 and selected women aged 50-70, benefit the most are selected men aged al, people in this gray zone who might apy is unclear. treat with lifelong aspirin and statin thercoronary disease in whom the decision to

a study that I collaborated on with Dr. sively with the FRS were documented in The limitations of assessing risk exclu-

ZEGERID is the only oral PPI that combines

with the POWER of continued acid control mmediate release

Rapid Roleaso

Also,

the

☞ Peak plasma levels reached in ~30 Minutes¹²

Confined Conto

≕ Gastric pH >4 maintained for a median of 18.6 hours*್

Effective nighttime acid control^{3,4‡}

The correlation of pharmacodynamic data to clinical effect has not been established.

armacobjeanic study measured the median percer values for the time gastric pH >4 for patients tud for crall suspension.

pH >4 ranged from 12 2 to 18.6 hours on Day 7. y massured the median percentage of time gasetic pit >4 as 18,6 hours over 24 hours with ZEGEND 40 mg Poinder for final Suspension in healthy subjects (N=24) gastric pit >4 for patients taking ZEGEND Powder for Grad Suspension and Capsuless 20 mg and 40 mg doses, ranged from 12.2 to 18.6 hours on Day 7.

lications and Dosing for ZEGERID

and ether symptoms associated with gastrossophageal reliux diseass (GERO) (20 mg OD); for the short-term treatment (4-8 weeks) of diseasop (20 mg OD); for maintenance of healing of crosive escophagitis (20 mg OD); controlled studies do not seled beyond 12 months); diseasop of the controlled studies of not seled beyond 15 months of reliable of the controlled studies of mg OD); and the diseasop of the controlled studies of the contr

Important Safety Information about ZEGERID

PRID as fixalizhe, diarriba, and skotominal pain in rificially. Ill pasinist realed with ZEGRID, diverses sevens generally of the patients, and were similar for patients realed with ZEGRID and with the comparison (aside controlling) drug the presence of gastric malignancy. Alognite gastrills has been nobed occasionally in gastric corpus objects from patients

STATIS

age of 53. Khurran Nasir, Dr. Erin Micho, and Dr. Paolo Raggi. We analyzed the coronary artery calcium scores for 2,000 asymptomatic men and women with an average

About 10% of the subjects had a coronary calcium score of 400 or more, which indicates severe atherosclerotic plaque

2005;46:1931-6). not qualify for aspirin and statin therapy based on their FRS (J. Am. Coll. Cardiol. In this subgroup, 60% of the people did

erate coronary plaque burden. In this sub-Another 12% of the study group had a calcium score of 100-399, denoting a mod-

group, 65% didn't qualify for drug therapy based on their FRS.

Very few women younger than 65 have

have relatively high levels of coronary calcium and could benefit from knowing women, especially those with a family history of premature coronary heart disease enough risk factors to produce a FRS of their score and starting more aggressive more than 10%, lifestyle changes as well as considering a and components of metabolic syndrome, but some of these

Many health care professionals don't consider ordering a cardiac CT because of the ionizing radiation used, but technoregimen of aspirin and a statin.

logic improvements are imminent that will lower the radiation exposure.

examination lower the exposure for a calcium-score will probably be in place that will further ly next year, technology improvements sure of about 15 chest x-rays, but by earposure equivalent to the radiation exposcore examination required radiation ex-Up to now, a single coronary calcium

posits in the carotid artery by an ultratein, or measuring atherosclerotic a cardiac CT, such as measuring serum levels of high-sensitivity C-reactive procould avoid the radiation exposure from Other tests have been proposed that

sound examination of carotid intimal-medial thickness.

However, in middle-aged people, calci-um scores appear more reliable for pre-IIIcIII. skill of the person making the measureducible way than is carotid intimal-medial thickness, which depends more on the reactive protein. In addition, calcium scores are easier to measure in a reprothan do serum levels of high-sensitivity Cdicting future coronary disease events In addition, calcium

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