New hemodynamics study findings have been reported by researchers at University of Arizona, Department of Medicine

A new study, 'Association of blood pressure and heart rate response during exercise with cardiovascular events in the Heart and Soul Study,' is now available. "We sought to evaluate the association of blood pressure and heart rate response during exercise with myocardial infarction (MI), heart failure, stroke, transient ischemic attack (TIA) and death in ambulatory adults with coronary artery disease. A study population of 937 patients with stable coronary artery disease underwent treadmill exercise stress testing and was followed for 5 years," scientists in the United States report (see also ).

Participants were divided into quartiles based on peak SBP change, peak SBP and heart rate. We used multivariable Cox proportional hazards models to evaluate the association of change in SBP and heart rate with subsequent cardiovascular events. The participants with SBP increases in the highest quartile had a decreased rate of hospitalization for heart failure [hazard ratio 0.38, 95% confidence interval (CI), 0.21-0.7; p=0.002], MI [hazard ratio 0.3, 95% CI 0.15-0.58; p=0.0004], stroke or TIA [hazard ratio 0.39, 95% CI 0.15-0.98; p=0.04], and all cause mortality [hazard ratio 0.5, 95% CI 0.33-0.76; p=0.001]. After adjusting for age, history of MI and HTN, use of β blockers, statins and calcium channel blockers, resting heart rate, and SBP, participants with SBP change in the highest quartile remained at lowest risk of MI [hazard ratio 0.31, 95% CI 0.15-0.66, p=0.002], hospitalization for heart failure [hazard ratio 0.46, 95% CI 0.22-0.97, p=0.04] and death [hazard ratio 0.52, 95% CI 0.32-0.86, p=0.01]. This association was largely explained by greater exercise capacity in those with the highest SBP change. Change in heart rate had a similar association with cardiovascular events. In ambulatory patients with coronary artery disease, the group with the greatest blood pressure and heart rate increase had the lowest risk of MI, heart failure, stroke or TIA and death," wrote M.R. Habibzadeh and colleagues, University of Arizona, Department of Medicine.

The researchers concluded: "These findings support the notion that a robust blood pressure response predicts favorable outcomes." Habibzadeh and colleagues published their study in the Journal of Hypertension (Association of
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BUT THE ARIZONA CANCER CENTER IN TUCSON IS TAKING PART IN A 5 YEAR 26-MILLION DOLLAR STUDY CALLED THE I-SPY2 TRIAL.
12/08/2010
Good Morning Tucson - KGUN-TV

DECEMBER 8TH. FAMILY AND FRIENDS ARE MOURNING THE PASSING OF ELIZABETH EDWARDS. THE WIFE OF FORMER VICE PRESIDENTIAL CANDIDATE JOHN EDWARD LOST HER BATTLE AGAINST BREAST CANCER. THE WHITE HOUSE IS SCRAMBLING TO GET DEMOCRATS TO BACK PRESIDENT OBAMA AFTER CUT A TAX AL WITH REPUBLICANS. AND IT'S BACK TO THE DRAWING BOARD FOR THE FEDERAL RESERVE AFTER A COSTLY PROBLEM WITH THE NEW HIGH TECH 100-DOLLAR BILLS. GOOD MORNING TUCSON, I'M KIMBERLY ROMO. AND I'M IAN REITZ. ANCHORS TOSS TO BRIAN BRIAN DOES WX FROM THE WX CENTER AND TOSSES TO ALLEN AT BAM ALLEN DOES TRAFFIC AT BAM AND TOSSES BACK TO ANCHORS TRIBUTES ARE POURING IN THIS MORNING FOR ELIZABETH WARDS WHO LOST HER BATTLE WITH CANCER AFTER SIX YEARS. MANY ARE REMEMBERING HER COURAGE IN THE FACE OF CERTAIN DEATH. ABC'S EMILY SCHMIDT HAS MORE. THERE IS PROMISE IN TREATING ADVANCED CASES OF BREAST CANCER. WOMEN WITH LARGE, AGGRESSIVE TUMORS USUALLY HAVE DIFFICULT TREATMENT OPTIONS AND LOW SURVIVAL RATES. BUT THE ARIZONA CANCER CENTER IN TUCSONS TAKING PART IN A 5 YEAR 26-MILLION DOLLAR STUDY CALLED THE I-SPY2 TRIAL. THE CENTER EXPECTS TO ENROLL 18 WOMEN A YEAR IN THE STUDY. SO AGAIN, IT'S THE I-SPY 2 CLINICAL TRIAL AT ARIZONA CANCER CENTER. TO SEE WHETHER YOU QUALIFY, YOU MUST HAVE TUMOR OF 2-POINT-5 CENTIMETERS. FOR MORE INFORMATION, HEAD TO KGUN9.COM. ARIZONA DEMOCRATS ARE HOPING TO UNDO ONE OF THE GOVERNOR'S BUDGET CUTS THAT THEY SEE AS PUTTING LIVES OVER MONEY. THE GOVERNOR AND THE LEGISLATURE'S REPUBLICAN MAJORITY CUT COVERAGE FOR MEDICAL TRANSPLANTS FOR LOW INCOME ARIZONANS IN THE STATE'S ACCESS MEDICAL PLAN. THAT'S DASHING EMILY CAMERON'S HOPES FOR A STEM CELL TRANSPLANT TO CURE HER MULTIPLE SCLEROSIS.

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