# Heart Patients Don't Link Weight to CVD Risk

## BY MIRIAM E. TUCKER Senior Writer

WASHINGTON — Obese patients with coronary disease don't always see their excess weight as being part of the problem, Francisco Lopez-Jimenez, M.D., and his associates reported in a conference on cardiovascular disease epidemiology and prevention, sponsored by the American Heart Association.

A prospective survey of 229 patients

who had recently been hospitalized for a coronary syndrome or revascularization revealed that, despite being aware of their excess weight, few actually perceived that it was related to their heart problems.

"Don't assume your patients understand this. You must make them aware of the implications of obesity with regard to heart disease, because how people perceive themselves drives their behavior," Dr. Lopez-Jimenez told FAMILY PRACTICE NEWS.

The patients had a mean age of 66 years and a mean body mass index of 30.5 kg/m<sup>2</sup>. Most were either overweight (45%) or obese (33%); 77% were male. On average, the patients perceived themselves as being 22 pounds overweight, which was fairly accurate. "It was interesting . . . people were more or less realistic in estimating how overweight they were," Dr. Lopez-Jimenez, of the Mayo Clinic and Mayo Foundation, Rochester, Minn., said.

The investigators looked for factors that

Brief summary of prescribing information		
VIAGRA	antidepressants), thiazide and related diuretics, ACE inhibitors, and calcium channel blockers. The AUC of the active metabolite, N-desmethyl sildenafil, was increased 62% by loop and potassium-sparing diuretics and 102% by nonspecific bits blockers. These diverses are accessed and a second se	
(sildenafil citrate) whees	beta-blockers. These effects on the metabolite are not expected to be of clinical consequence. Effects of VIAGRA on Other Drugs	
INDICATION AND USAGE	In vitro studies: Sildenafil is a weak inhibitor of the cytochrome P450 isoforms 1A2, 2C9, 2C19, 2D6, 2E1 and 3A4 (IC50	
VIAGRA is indicated for the treatment of erectile dysfunction. CONTRAINDICATIONS	>150 µM), Given sildenafil peak plasma concentrations of approximately 1 µM after recommended doses, it is unlikely that VIAGRA will after the clearance of substrates of these iscenzymes. In vivo studies: When VIAGRA 100 mg oral was coadministered with amlodipine, 5 mg or 10 mg oral, to hypertensive	
insistent with its known effects on the nitric oxide/cGMP pathway (see <b>CLINICAL PHARMACOLOGY</b> ), VIAGRA was own to potentiate the hypotensive effects of nitrates, and its administration to patients who are using organic rate, either resultady and/criterioriteristic in a nut form is therefore contraindicated	patients, the mean additional reduction on supine blood pressure was 8 mmHg systolic and 7 mmHg diastolic. No significant interactions were shown with tolbutamide (250 mg) or warfarin (40 mg), both of which are metabolized	
own to potentiate the hypotensive effects of nitrates, and its administration to patients who are using organic rates, either regularly and/or intermittently, in any form is therefore contraindicated. After patients have taken VIAGRA, it is unknown when nitrates, if necessary, can be safely administered. Based on the armacokinetic profile of a single 100 mg oral dose given to healthy normal volunteers, the plasma levels of sidenafit at 24 use post dose are approximately 2 ng/mL (compared to peak plasma levels of sproximately 440 ng/mL) (see CLINCAL ARMACOLOGY: Pharmacokinetics and Metabolism). In the following patients: age >65, hepatic impairment (e.g., Detroic) ensure neal impairment (e.g., exclusion declarge). 24	by CVP2C9. VIAGRA (50 mg) did not potentiate the increase in bleeding time caused by aspirin (150 mg). VIAGRA (50 mg) did not potentiate the hypotensive effect of alcohol in healthy volunteers with mean maximum blood	
urs post dose are approximately 2 ng/mL (compared to peak plasma levels of approximately 440 ng/mL) (see CLINICAL ARMACOLOGY: Pharmacokinetics and Metabolism). In the following patients: age >65, hepatic impairment (e.g.,	alcohol levels of 0.08%. In a study of healthy male volunteers, sildenafil (100 mg) did not affect the steady state pharmacokinetics of the HIV	
rhosis), severe renal impairment (e.g., creatinine clearance <30 mL/min), and concomitant use of potent cytochrome P450 4 inhibitors (erythromychi), plasma levels of sildenafi at 24 hours post dose have been found to be 3 to 8 times higher m those seen in healthy volunieers, Although plasma levels of sildenafi at 24 hours post dose are much lower than at peak	protease inhibitors, saquinavir and ritonavir, both of which are CYP3A4 substrates.	
ncentration, it is unknown whether nitrates can be safely coadministered at this time point. VIAGRA is contraindicated in patients with a known hypersensitivity to any component of the tablet.	Sildenafil was not carcinogenic when administered to rafts for 24 months at a dose resulting in total systemic drug exposure (AUCs) for unbound sildenafil and its major metabolite of 29- and 42-times, for male and female rats, respectively, the exosourse observed in human makes given the Maximum Recommended Human Dose (MRHD) of 100 mo. Sildenafil was	
WARNINGS There is a potential for cardiac risk of sexual activity in patients with preexisting cardiovascular disease. Therefore	exposures observed in human males given the Maximum Recommended Human Dose (MRHD) of 100 mg. Sildenafi was not carcinogenic when administered to mice for He21 months at dosages up to the Maximum Tolerated Dose (MTD) of 10 mg/kg/day, approximately. 0.6 times the MRHD on a mg/m² basis.	
There is a potential for cardiac risk of sexual activity in patients with preexisting cardiovascular disease. Therefore, atments for erectile dysfunction, including VIAGRA, should not be generally used in men for whom sexual activity is dyisable because of their underlying cardiovascular status.	Sildenatil was negative in <i>in vitro</i> bacterial and Chinese hamster ovary cell assays to detect mutagenicity, and <i>in vitro</i> human lymphocytes and <i>in vitro</i> mouse micropucleus assays to detect clastogenicity.	
Video because of whom hand may also be a set of the set	There was no impairment of fertility in rate given sildenail up to 60 mg/kg/day for 36 days to females and 102 days to males, a dose producing an AUC value of more than 25 times the human male AUC.	
s normany would be expected to be on the consequence in most patients, prior to prescribing vineary, physicians should efully consider whether their patients with underlying cardiovascular disease could be affected adversely by such collatory effects, especially in combination with sexual activity.	There was no effect on sperm motility or morphology after single 100 mg oral doses of VIAGRA in healthy volunteers. Pregnancy, Nursing Mothers and Pediatric Use VIAGRA is not indirected for use in pendomes, children, or women	
Voltatory critects, especially in commandon with exact a certify a particularly sensitive to the actions of vasodilators including VGRA – those with left ventricular outflow obstruction (e.g. aortic stenosis, idiopathic hypertrophic subaortic stenosis)	Pregnancy Category B. No evidence of teratogenicity, embryotoxicity or fetotoxicity was observed in rats and rabbits which received up to 200 mg/kg/day during organogenesis. These doses represent respectively about 20 and 40 times the	
I those with severely impaired autonomic control of blood pressure. There is no controlled clinical data on the safety or efficacy of VIAGRA in the following groups; if prescribed, this should	Pregnancy, nursing woulders and requirant use VIAGRA is not indicated for use in newborns, children, or women. Pregnancy Category B. No evidence of teratogenicity, embryotoxicity or fetotoxicity was observed in rats and rabbits which received up to 200 mg/kg/day during organogenesis. These doses represent, respectively, about 20 and 40 times the MRHD on a mg/m <sup>2</sup> basis in a 50 kg subject. In the rat pre- and postnatal development study, the no observed adverse effect dose was 30 mg/kg/day during in for 36 days. In the nonpregnant rat the AUC at this dose was about 20 times human AUC. There are no adequate and well-controlled studies of sidenafil in pregnant women. Cereiter is evident would be the very side side side adverse of the side side side side side side side sid	
done with caution. • Patients who have suffered a myocardial infarction, stroke, or life-threatening arrhythmia within the last 6 months; • Patients with resting hypotension (BP =90/50) or hypertension (BP s170/110);	PHARMACOLOGY: Pharmacokinetics in Special Populations). Since higher plasma levels may increase both the efficacy	
<ul> <li>Patients with cardiac failure or coronary artery disease causing unstable angina;</li> <li>Patients with retinitis pigmentosa (a minority of these patients have genetic disorders of retinal phosphodiesterases).</li> </ul>	and incidence of adverse events, a starting dose of 25 mg should be considered (see DOSAGE AND ADMINISTRATION). ADVERSE REACTIONS	
Prolonged erection greater than 4 hours and priapism (painful erections greater than 6 hours in duration) have been norted infrequently since market approval of VIAGRA. In the event of an erection that persists longer than 4 hours, the	PRE-MARKETING EXPERIENCE: VIAGRA was administered to over 3700 patients (aged 19-87 years) during clinical trials worldwide. Over 550 patients were	
ient should seek immediate medical assistance. If priapism is not treated immediately, penile tissue damage and manent loss of potency could result.	treated for longer than one year	
The concomitant administration of the protease inhibitor ritonavir substantially increases serum concentrations of lenafil (11-101 increase in AUC). If VIAGRA is prescribed to patients taking ritonavir, caution should be used. Data from piects exposed to high systemic levels of sidemail are limited. Visual disturbances occurred more commonly at higher	In placebo-controlled clinical studies, the discontinuation rate due to adverse events for VIACR (2.5%) was not significantly different from placebo (2.3%). The adverse events were generally transient and mild to moderate in nature. In trials of all designs, adverse events reported by patients receiving VIACRA were generally similar, in fixed-dose	
els of sildenafil exposure. Decreased blood pressure, syncope, and prolonged erection were reported in some healthy unteers exposed to high doses of sildenafil (200-800 mg). To decrease the chance of adverse events in patients taking	studies, the incidence of some adverse events increased with dose. The nature of the ädverse events in flexible-dose studies, which more closely reflect the recommended dosage regimen, was similar to that for fixed-dose studies. When VIAGRA was taken as recommended (on an as-needed basis) in flexible-dose, placebo-controlled dinical trials,	
navir, a decrease in sildenafil dosage is recommended (see Drug Interactions, ADVERSE REACTIONS and DOSAGE AND _ MINISTRATION).	the following adverse events were reported: TABLE 1. ADVERSE EVENTS REPORTED BY ≥2% OF PATIENTS TREATED WITH VIAGRA AND MORE FREQUENT ON	
PRECAUTIONS	DRUG THAN PLACEBO IN PRN FLEXIBLE-DOSE PHASE II/III STUDIES	
teral evaluation of erectile dysfunction should include a determination of potential underlying causes and the identification of orpriate treatment following a complete medical assessment.	Adverse Event Percentage of Patients Reporting Event VIAGRA PLACEBO	
Before prescribing VIAGRA, it is important to note the following:	N=734 N=725 Headache 16% 4%	
Patients on multiple antihypertensive medications were included in the pivotal clinical trials for VIAGRA. In a separate drug raction study, when amlodipine, 5 mg or 10 mg, and VIAGRA, 100 mg were orally administered concomitantly to	Flushing 10% 1%	
ertensive patients mean additional blood pressure reduction of 8 mmHg systolic and 7 mmHg diastolic were noted (see <u>u Interactions</u> ).	Dyspepsia         7%         2%           Nasal Congestion         4%         2%           Urinary Tract Infection         3%         2%           Abnormal Vision*         3%         0%           Diarrhea         3%         1%	
When the alpha blocker doxazosin (4 mg) and VIAGRA (25 mg) were administered simultaneously to patients with benign	Urinary Tract Infection         3%         2%           Abnormal Vision*         3%         0%	
static hyperplasia (BPH), mean additional reductions of supine blood pressure of 7 mmHg systolic and 7 mmHg diastolic re observed. When higher doses of VIAGRA and doxazosin (4 mg) were administered simultaneously, there were	Diarrhea 3% 1% Dizziness 2% 1%	
equent reports of patients who experienced symptomatic postural hypotension within 1 to 4 hours of dosing	Bash 2% 1%	
multaneous administration of VIAGRA to patients faking alpha-blocker therapy may lead to symptomatic hypotension in me patients. Therefore, VIAGRA doses above 25 mg should not be taken within 4 hours of taking an alpha-blocker. The safety of VIAGRA is unknown in patients with bleeding disorders and patients with active patic ulceration.	*Abnormal Vision: Mild and transient, predominantly color tinge to vision, but also increased sensitivity to light or blurred vision. In these studies, only one patient discontinued due to abnormal vision.	
The state of MAODA is related by a first of the dia direction and state the state of the plant biotom.	studies, only one patient discontinued due to abnormal vision. Other adverse reactions occurred at a rate of >2%, but equally common on placebo: respiratory tract infection, back pain,	
The safety or VIAGRA is unknown in patients with bleeding disorders and patients with active peptic ulceration.	Onici auverse reactions occurred at a rate of >2 %, but equally common on placebo. respiratory tract intection, back pain,	
VIAGRA should be used with caution in patients with anatomical deformation of the penis (such as angulation, cavernosal	flu syndrome, and arthralgia	
The satery of VAGFA is unknown in patients with obcening obsoreers and patients with active peptic uncertation. VAGRA should be used with aution in patients with anatomical deformation of the penis (such as angulation, cavernosal prosis or Peyronie's disease), or in patients who have conditions which may predispose them to priapism (such as sickle all anemia, multiple myeloma, or leukemia). The satety and efficacy of combinations of VIAGRA with other treatments for erectile dysfunction have not been studied.	It synchrome, and arthraigia. It synchrome, and arthraigia. At doses above the recommended dose range, adverse events were similar to those detailed above but generally were reported more frequently.	

Inference, the use of such combinations is not recommended, In humans, VIAGRA has no effect on bleeding time when taken alone or with aspirin. *In vitro* studies with human platelets indicate that sildenafit potentiates the antiaggregatory effect of sodium nitroprusside (a nitric oxide donor). The combination of heparin and VIAGRA has an additive effect on bleeding time in the anesthetized rabbit, but this interaction has not been studied in humans.

studied in humans. Information for Patients Physicians should discuss with patients the contraindication of VIAGRA with regular and/or intermittent use of organic initrates. Physicians should discuss with patients the potential cardiac risk of sexual activity in patients with preexisting cardiovascular risk factors. Patients who experience symptoms (e.g., angina pectoris, dizziness, nausea) upon initiation of sexual activity should discuss with patients the potential cardiac risk of sexual activity in patients with preexisting cardiovascular risk factors. Patients who experience symptoms (e.g., angina pectoris, dizziness, nausea) upon initiation of sexual activity should actives petients to stop use of all PDEs inhibitors. Including VIAGRA, and seek medical attention in the event of a sudden loss of vision in one or both eyes. Such an event may be a sign of non-arteritic anterior ischemic optic marketing in temporal association with the use of all PDEs inhibitors. It is not possible to determine whether these events are related directly to the use of PDEs inhibitors (see PDE'AMARKETING EXPERIENCE/Special Benses). Physicians should avan patients that prolonged erections greater than 6 hours in duration have been reported inferquently since market approval of VIAGRA. In the event of an erection that persists longer than 4 hours, the patient should seek immediate medical assistance. If priapism is not treated immediately, penile tissue damage and permanent loss of potency may result. Physicians should divise patients that simultaneous administration of VIAGRA doses above 25 mg and an alpha-blocker. The use of VIAGRA doses above 25 mg on an alpha-blocker. The use of VIAGRA doses no protection against sexually transmitted diseases, counseling of patients about the protective measures necessary to guard against sexually transmitted diseases, including the Human Immunodeficiency Virus (HIV), may be considered.

The use of VIAGRA offers no protection against excually transmitted diseases. Counseling of patients about the protective measures necessary to guard against sexually transmitted diseases, including the Human Immunodeficiency Virus (HIV), may be considered. Drug Interactions Effects of Uhter Drugs on VIAGRA In transmitted diseases, including the Human Immunodeficiency Virus (HIV), may be considered. Drug Interactions Effects of Uhter Drugs on VIAGRA In transmitted diseases, including the Human Immunodeficiency Virus (HIV), may be considered. In viro studies: Sidenafil metabolism is principally mediated by the cytochrome P450 (CYP) isoforms 3A4 (major route) and 2C9 (minor route). Therefore, inhibitors of these isoenzymes may reduce sidenafil clearance. In vivo studies: Cimetidine (800 mg), a nonspecific CYP inhibitor, caused a 56% increase in plasma sidenafil concentrations when coadministered with VIAGRA (50 mg) to healthy volunteers. When a single 100 mg dose of VIAGRA was administered with erythromycin, a specific CYP344 inhibitor, at steady state (120 mg tid) with VIAGRA (100 mg single dose) resulted in a 140% increase in sidenafil (Lonxa and a 210% increase in sidenafil (Joura and 210% increase) in distantial systemic exposure (AIC). In a dista part offect on saguinavir pharmacokinetics. Stronger CYP344 inhibitors such as ketoconazole or itraconazole would be expected to have still greater effects, and population data from patients in clinical trials did indicate a eduction in sleady patient situation of the HIV protease inhibitor such as ketoconazole, evolution evolution was an object (S00 mg) bid) with VIAGRA (100 mg single dose) resulted in a 300% (4-fold) increase in sidenafil (Lonax and a 100% (11-fold) increase in sidenafil data 212 hours the plasma levels of sildenafil were evolution when the sidenafil desaration of the P450 inhibitor, at steady state (500 mg bid) with VIAGRA (100 mg single dose) resulted in a 300% (4-fold) increase in sidenafil charant and indiverse in sindivation between othe

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In cases of overdoes, standard supportive measures should be adopted as required. Renal dialysis is not expected to accelerate clearance as sildenafil is highly bound to plasma proteins and it is not eliminated in the urine. Rev 10, July 2005

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were correlated with self-perception of risk for heart disease. After adjustment for sex, comorbidities, socioeconomic status, and other potential confounders, only four factors-age, history of diabetes, and levels of readiness to change for weight loss and exercise-were significantly correlated with the patient's perceived risk for heart disease.

There was no such correlation with selfperception of obesity, despite 67% of patients endorsing the general concept that obesity is a risk factor for MI.

"It is complicated. ... In general, we end to recognize risky habits, but fail to ecognize ourselves at risk," he said, dding that studies in patients who smoke, ave AIDS, and engage in other risky beaviors have shown similar tendencies.

At the 6-month follow-up, the belief hat obesity is a risk factor for heart disease as the strongest predictor of weight loss.

History of diabetes and self-perceived xcess weight were also significantly cor-



ew patients with coronary disease view neir obesity as part of the problem.

elated with weight loss, but self-perceived risk for heart disease was not, the investigators reported.

Although these data suggest some denial on the part of patients, a previous study by Dr. Lopez-Jimenez and his associates indicated that underappreciation of obesity as a cardiovascular disease risk factor extends to clinicians as well. In a randomly selected sample of 627 patients discharged after an MI during 2001-2002 from five U.S. teaching hospitals, BMI had been documented in the charts of only 14% and waist circumference in none, despite the fact that 83% were overweight, including 55% who were obese and 8% who were morbidly obese (Int. J. Obes. Relat. Metab. Disord. 2005;29:137-41).

In only 20% of patients with a BMI at or above 30 was the diagnosis of obesity documented as a current medical problem, part of the past medical history, or as a final diagnosis. The proportion that received dietary counseling (61%) was identical for those with a BMI at or above 25 and for those with a BMI below 25.

Weight loss was described as part of treatment or among goals at discharge for just 7% of overweight and 9% of obese patients.

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The following events occurred in <2% of patients in controlled clinical trials; a causal relationship to VIAGRA is uncertain. eported events include those with a plausible relation to drug use; omitted are minor events and reports too imprecise to

be meaningful: Body as a whole: face edema, photosensitivity reaction, shock, asthenia, pain, chills, accidental fal, abdominal pain, allergic reaction, chest pain, accidental injury. Cardiovascullar: angina pectoris, AV block, migraine, syncope, tachycardia, palpitation, hypotension, postural hypotension, myocardial ischemia, cerebral thrombosis, cardiac arrest, heart failure, abnormal electrocardiogram, redrigencement

pmyopathy. pestive: vomiting, glossitis, colitis, dysphagia, gastritis, gastroenteritis, esophagitis, stomatitis, dry mouth, liver on tests abnormal, rectal hemorrhage, gingivitis. mic and Vymphatic: anemia and deukopenia. tabolic and Nutritional: thirst, edema, gout, unstable diabetes, hyperglycemia, peripheral edema, hyperuricemia, tabolic and Nutritional: thirst, edema, gout, unstable diabetes, hyperglycemia, peripheral edema, hyperuricemia, tabolic and Nutritional: thirst, edema, gout, unstable diabetes, hyperglycemia, peripheral edema, hyperuricemia, tabolic and Nutritional: thirst, edema, gout, unstable diabetes, hyperglycemia, peripheral edema, hyperuricemia, tabolic and Nutritional: the second seco

metadonic and Nurritomat: trinst, edema, gout, unstatue diadeetes, hypergytoermia, penpinera edema, nyperuncema, yogdytoemic reaction, hyperantermia. Nursculoskeletal: artintriss, artinrosis, myałgia, tendon rupture, tenosynovitis, bone pain, myasthenia, synovitis. Nervous: ataxia, hypertonia, neuralgia, neuropathy, paresthesis, termor, vertigo, depression, insomnia, somnolence, hormal dreams, reflexes decreased, hypesthesia. Respiratory: asthma, dyspene, karyngitis, pharyngitis, sinustis, bronchitis, sputum increased, cough increased. Skin and Appendages: urticaria, herpes simplex, pruritus, sweating, skin ulcer, contact dermatitis, exfolative dermatitis. Special Senses: mydrasis, conjunctivitis, photophola, tinnitus, ee pain, dearleses, ar pain, eye hemorrhage, cataract, dry eyes. Urogenitat: cystitis, nocturia, urinary frequency, breast enlargement, urinary incontinence, abnormal ejaculation, genital dema and anoroasemia.

edema and anorgasmia. POST-MARKETING EXPERIENCE:

r USI-IMARKELING EXPERIENCE: Cardiovascular and cerebrovascular Serious cardiovascular, cerebrovascular, and vascular events, including myocardial infarction, sudden cardiac death, ventricular arrhythmia, cerebrovascular hemorrhage, transient ischemic attack, hypertension, subarachnoid and intracerebrai hemorrhages, and pulmonary hemorrhage have been reported post-marketing in temporal association with the use of VIAGRA, Most, but not all, of these patients had preexisting cardiovascular risk factors. Many of these events were reported to occur during or shortly after sexual activity, and a few were reported to occur shortly after the use of VIAGRA and sexual activity. It is not possible to determine whether these events are related directly to VIAGRA, to sexual activity, to the patient's underlying cardiovascular information).

Dissibility of the second seco