# Aspirin Used Incorrectly for Cardioprotection

## BY SHARON WORCESTER Tallahassee Bureau

ORLANDO, FLA. — Many primary care physicians do not prescribe aspirin appropriately for cardioprotection, a national survey suggests.

Many of the 1,000 primary care physicians who responded are unaware of-or disregard-data about the use of aspirin for cardioprotection and recommend to their patients doses that are too high,

William D. Chey, M.D., said at the annual meeting of the American College of Gastroenterology.

The lowest cardioprotective dose of aspirin is 81 mg/day in healthy patients and in those at risk for gastrointestinal complications. Those with gastrointestinal risk should receive gastroprotection, such as a proton pump inhibitor (PPI), Dr. Chey said

About half of those responding to the Internet survey were internists, and half were family physicians or general practitioners. Respondents, generally between 35 and 54 years old and evenly distributed geographically across the United States, had previously agreed to participate in survey research.

Overall, 95% said they recommend aspirin for cardioprotection in patients over age 60 years, with 62% always recommending aspirin therapy and 33% usually recommending aspirin therapy, said Dr. Chey of the University of Michigan, Ann

References: 1. Scharf MB, Roh T, Vogel GW, Wakh JK. A multicenter, placebo-controlled study evaluating zolpidem in the treatment of chronic insomnia. J Clin Psychiotry. 1994;55:192-199. 2. Roh T, Roehrs T, Vogel G. Zolpidem in the treatment of transient insomnia: a double-lining and/monieed comparison with placebo. Step. 1995;18:246-231. 3. Elie R, Rühr F C, Farr I, Emilien G, Salmas E, for the Zalegion J, Roehrs S, Weight J, Barros H, Song J, Song J

# Ambien<sup>®</sup> 🕅 (zolpidem tartrate

# **BRIEF SUMMARY**

INDEATIONS AND USAGE (colpiden tartrate) is indicated for the short-term treatment of insomnia, has been shown to decrease sleep latency and increases the duration of our up to 35 days in controlled clinical studies, dicks should generally be limited to 7 to 10 days of use, and reevaluation datent is ecommended if they are to be taken for more than 2 to 3 weeks which do to be presented in quantities exceeding a 1-month supply (see the date of the tart of the statence of the statence of the statence of the date of the statence of the statence of the statence of the statence of the date of the statence of the statence of the statence of the statence of the date of the statence of the date of the statence of the

## CONTRAINDICATIONS None known.

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I with windrawal from other CNS-depressant drugs isse *urug Ausse wur* enderzeil. mibien, like other sedative/hyponotic drugs, has CNS-depressant effects. Due te rapid onset of action, Ambien should only be ingested immediately profi-tion to bed. Patients should be cautioned against engaging in hazardous support on the second control of the second second second second profile the second second second second second second second profile and second second second second second second second divergence of Ambien. Ambien showed additive effects when corru-d with alcohol and should not be taken with alcohol. Patients should also be ioned about possible combined effects with other CNS-depressant drugs, age adjustments may be necessary when Ambien is administered with such the because of the potentially additive effects. PRECAUTIONS and

The address of the potentially address the transfer of the address of the addres

These, and user's should be closely intentioned. Use in degression: As with other sedative, hypnotic drugs, Ambien should be store. Statical tendencies may be present in such patients and protective mass-user may be required. Intertional overdosage is more common in this group of patients; therefore, the least amount of drug that is feasible should be prescribed for the patient at any one time.

Information for patients: Patient information is printed in the complete prescrib-ing information.

## tory tests: There are no specific laboratory tests recommended.

Laboratory texts. Investigation of the second secon

Initiatization cose in previous one previous performance between alcohol and zoip-in additive effect on psychomotor performance between alcohol and zoip-a single-toses interaction study with zoiptiem 10 mg and fluxetine 30 mg at systele levels in male volunteres di not demonstrate any clinically signifi-it pharmacolinetic or pharmacodynamic interactions. When multiple doses of softem and fluxedime is staad-state concentrations were veloculated in hadility are was no evidence of an additive effect in psychomotor performance. Toilowing five concentive nightly doses of zolpidem 10 mg in the presence of trailine 30 mg (17 consecutive dialy doses, at 730 m, in healthy female vol-esci, zolpidem c\_was significantly higher (453) and r\_, was significantly affected by zolpidem. Since the systematic evaluations of Ambien in combination who the trocks-ve drugs have been limited, careful consideration should be given to the amacology of any CSA-struck engls to used with zolpidem. Arv drug with picture.

Drugs that affect drug metabolism via cytochrome P450: A randomized, double-lind, crossover interaction study in tan healthy volunteers between irraconacide india crossover interaction study in tan healthy volunteers between irraconacide hours after the last close of irraconacide resulted in a 34% increase in AUC\_\_\_\_\_\_ objidem. There were no significant pharmacodynamic effects of zolodem on subjective drowsinese, poetrual sava, or psychomotor performance, increase the drowsinese increase and the same study of the same single close of zolpidem (20 mg) given 17 hours after the last close of rafompin solwed significant reductions in the pharmacodynamic effects of zolpidem together with significant reductions in the pharmacodynamic effects of *Other drowsine*.

zolpidem. Other drugs: A study involving cimetidine/zolpidem and ranitidine/zolpidem combinations revealed no effect of eight and on effect or diregion intentes and dire microdynamics of zolpidem. Zolpidem tain of effect or diregion intentes and dire Zolpidem's sedatively-protor effect was reversed by furmazeni, however, no sig-miticant alterations in zolpidem pharmacokinetis were found. DrugsLaboratory test interactions. Zolpidem is not known to interfere with com-monly employed inicial babratory tests. In addition, clinical data indicate thera zolpidem does not cross-reade with themodelappins, optates, harbitrates, Decinocamenter. Interactions of testifications of testifications of testifications of testifications.

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Pregnancy Teratogenic effects: Category B. Studies to assess the effects of zolpidem on human reproduction and development have not been conducted.

emagement effects of zapidem of the status to assess the effects of zapidem on unuman reproduction and development have not hose no conducted. In rats, adverses maternal and fetal effects occurred at 20 and 100 mp baselog in included doss-related remain of included doss-related remain effects addition and doss-related tenden in ratbits, doss-related remains addition and doressed weight gain courred at all dose tested. At the high dose, if mg baselog the ratio is a discretised maternal learned and underossification of stretzense at the high feature.

increase in postimplantation tetal ibus and uncurrent and the postimplantation tetal ibus and uning pregnancy only if clearly needed. Montratogonie fielders: Studies to assess the effects on childrine whose mothers took zolgidem during pregnancy have not been conducted. However, children bom of mothers tains gestakive/hyponoi drugs may be assee risk for with drawal symptoms from the drug during the postnatal period. In addition, neona-tal flacially has been reported in inflatts bom of mothers who received selective/ hyponoic drugs during pregnancy. Labor and delivery: Ambien has no established use in labor and delivery.

have not been established. Genetric use: A total of 154 patients in U.S. controlled dinical trials and 697 patients in non-U.S. clinical trials who received zalphdem were 360 years of ago, the trial of the second second second second second second second second dem and for which the zalphdem incidence was at least twice the placebo inci-dence (is, they could be considered drug related).

Adverse Event	Zolpidem	Placebo
Dizziness	3%	0%
Drowsiness	5%	2%
Diarrhea	3%	1%

A total of 30/1,959 (1.5%) non-U.S. patients receiving zolpidem reported falls, including 28/30 (93%) who were ≥70 years of age. Of these 28 patients, 23 (82%) were receiving zolpidem doses >10 mg. A total of 24/1,959 (1.2%) non-U.S. patients receiving zolpidem reported conflusion, including 18/24 (75%) who were 270 years of age. Of these 18 patients, 14 (17%) were receiving zolpidem doses

0 mg. ADVERSE REACTONS sociated with discontinuation of treatment: Approximately 4% of 1,701 tients who received topidem at all does 11,25 to 90 mg in U.S. premarkening inclar Iraia discontinued treatment because of an adverse dinical event. Events near the sociated with discontinuation from U.S. trials were deplined oversiness (0,5%), dizziness (0,4%), headache (0,5%), nausea (0,6%), and vomit-(0,5%).

ing (0.5%). Approximately 4% of 1,359 patients who received zolpidem at all doses (1 to 50 mg in similar foreign trials discontinued treatment because of an adverse were. Events more common le second with discontinuation form these trials second treatment and the second with discontinuation form these trials sea (0.5%), headche (0.4%), and falls (0.4%). Data from a clinical study in which sective servotion resplate inhibitor (SSRI) treated patients were given zolpidem revealed that four of the serven dis-continuations during double-All of treatment with zolpidem in-5% were associ-manic reaction; one patient treated with placebo (n-97) was discontinued after an attempted suicide.

nic reaction; one patient treated with placebo (m-97) was discontinued after atomptets suices. dense in controlled Chical trials: dense in controlled Chical trials: the submitted of the submitted trials of the submitted trials. During both submitted trials are also as up to 10 mg, the most com-my observed adverse events associated with the use of zopioiden and seen at itsically significant differences from placeborterated patients were droves is reported by 2% of zopioiden patients), diszinass (Tish), and diarrhess (Tish), and diarrhess (Tish) and drugged technique trials are also as the total of the submitted trials are placed and seen at statistically significant differences from U.S. Alacebor-treated density were discrease (Si) and drugged technique trials. I failowing are treatmore emergent adverse events associated with the use of 10 lowing are treatmore emergent adverse events associated with the use of 10 lowing are treatmore emergent adverse events associated with the use of 10 lowing are treatmore emergent adverse events associated of this dis-lin short-term trials, events assen in zopioidem patients (m-653) at an incidence allo 1% or greater compared to placebor (m-47) were. Haadeahor (%) weight placebor, droweinase 12% v 90%, disziness (1% v 90%), nausea 12% vs 3%), not avoide the patients (m-553) at an incidence of the or greater compared to the top blacebord based to (%) weight (%) of placebord) effects were the submitted or zopiodem patients (m-553) at an incidence of 1% or greater compared to the top blacebord based to (%) weight (%) of placebord) effects or submitted to zebord (m-161) were. dry mouth (3% vs 1%) for placebord) effects or zebord (%) effects or the submitted to zebord (m-161) were. dry mouth (3% vs 1%) for placebord) effects or zebord (%) ef

back pain (2% vs. 2%), influenza-like symptoms (2% vs. 9%), orbest pain (1% vs. 9%), folgue (1% vs. 2%), polytotation (2% vs. 9%), haadcahe (1%), vs. 2%), droved-mess (2% vs. 5%), droved-tempory (2% vs. 1%), droved-ness (2% vs. 5%), droved-tempory (2% vs. 1%), droved-tempory (2% vs. 1%), dopression (2% vs. 1%), anoremul draams (1% vs. 9%), amouting (1% vs. 9%), droved (1% vs. 9%), droved (1% vs. 9%), steps disorder (1% vs. 9%), indication (1% vs. 1%), vs. 9%), anorem (1% vs. 9%), anorem (1% vs. 9%), indication (1% vs. 1%), vs. 9%), anorem (1% vs. 1%), apper respiratory indication (1% vs. 1%), unable (1% vs. 2%), planyingtis (3% vs. 5%), indication (1% vs. 5%), resh (2% vs. 1%), and urinary tract indication (2% vs. 2%).

Intercure 1.27% VS 27%. Does relationship for adverse events: There is evidence from dose comparisor trials suggesting a dose relationship for many of the adverse events associated with zolpidem use, particularly for certain CNS and gastrointestinal adverse protect.

Des relationship for adverse events. There is evidence from does comparison that is suppetting at does relationship for mary of the adverse events associated volume. Adverse events associated volume. Adverse events are subtract calculated for certain CRS and gatronnetinal adverse volumes are further calculated and enumerated in order of decreasing frequency using the following definitions: frequent adverse events are defined associated with the patients in the comparison of the subsects infrared adverse events are used as the subsect and the calculated adverse events are defined associated with the patients in the comparison of the comparison of the subsects infrared adverse events are defined associated adverse events are defined associated adverse events are defined associated adverse events are used as the subsects infrared adverse events are used as the subsects infrared adverse events are used as the subsects infrared adverse events are used as a subsect adverse events and used as a subsect adverse events and used as a subsect adverse events adverse events and adverse events are used as a subsect adverse events are used as a subsect adverse events and used as a subsect adverse events adverse even

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ZSS-5A

VORDOSACE Signa ad symptoms: In European potentiareling reports of overdose with zolpi-dam alone, impairment of consciourness has ranged from somolence to light coma, with one case each of cardiovacular and registrative compromise, Individuals have fully recovered from zolpidem transfer overdoses up to 400 mg (discuss the maximum recommendual case). Vorticals eases incluing multiple (discuss the maximum recommendual case). Vorticals eases incluing multiple recommended transmers commendual case. Note that are served symptometalogy, including fattal outcomes. Recommended transmers Carenal symptomatic and supportive measures should be used along with immediate gastric lavage where appropriate. Intervanous fluids and ba administered as needed. Humanell may bu useful Respiration, puble, Blood pressue, and other appropriate signs should be mor-withhelf following optidem overdosage. Zolpidem is not (diavabili. The possibility of multiple drug ingestion should be considered. Re orly

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Arbor. Nearly 70% said they recommend 81 mg daily, but 30% said they recommend 325 mg daily. "This is relevant because there may be a dose-response relationship between aspirin and the likelihood of developing ulcer disease and, consequently, gastrointestinal bleeding," Dr. Chev said.

Another troubling finding was that 62% of respondents said they would recommend enteric-coated aspirin for a patient at high risk for gastrointestinal bleeding due to a previous ulcer bleed despite a lack of data showing any benefit of coated aspirin over regular aspirin. Also only 28% recommended concurrent gastroprotective therapy, such as with a proton pump inhibitor or misoprostol. Most said they would put the patient on aspirin alone, he said.

"I guess the good news is that [gastroenterologists] are going to stay in business if this is truly representative of primary care physicians," he said, noting that a study last year showed that the likelihood of such a high-risk patient developing recurrent gastrointestinal bleeding when put on aspirin therapy alone is about 15%.

Aspirin cardioprotection in those who require treatment with an NSAID is more controversial, Dr. Chey said. In one study of patients with a history of ulcer bleeding, the use of a PPI and NSAID and the use of a cyclooxygenase-2 (COX-2) selector alone were both associated with a recurrent bleeding rate of about 5% at 6 months

The withdrawal of Vioxx from the market has highlighted concerns about COX-2 inhibitors and myocardial infarction risk. For now, avoid using COX-2 inhibitors in those with known coronary artery disease, Dr. Chey advised. In those without coronary artery disease who are at high risk for gastrointestinal complications, the use of a COX-2 inhibitor and PPI is warranted, but there is little or no incremental gastrointestinal safety benefit from aspirin and a COX-2 inhibitor vs. a traditional NSAID alone.

When physicians in the survey were asked about their knowledge of the effects of aspirin in patients using a COX-2 inhibitor, 69% of respondents said they were aware of the data showing that aspirin decreases or eliminates the gastrointestinal safety benefits of the COX-2 inhibitors (31% were unaware, or thought that aspirin improved the effects of COX-2 inhibitors).

Yet when asked how they would manage a patient with no history of peptic ulcer disease, but with a need for nonsteroidal antiinflammatory drug treatment for arthritis, 45% said they would recommend aspirin and a COX-2 inhibitor.

"Even more interesting, in a high-risk patient with a history of ulcer bleeding, 60% said they would recommend a proton pump inhibitor with a coxib and aspirineven though there are no published data to support this strategy, and 24%, disturbingly, would choose a coxib and aspirin without gastroprotection," Dr. Chey said.

There is no logic to this combination, he said, adding that further educational efforts are necessary to correct these "important knowledge deficits."