Society Issues Backwoods Cardiac Care Guidelines

BY BRUCE JANCIN Denver Bureau

SNOWMASS, COLO. — You're camping in remote backcountry when someone in your party develops chest pain that you believe is due to an acute coronary syndrome. Now what?

New practice guidelines from the Wilderness Medical Society tackle this issue for the first time. It's a topic that was long overdue for a thoughtful look by ex-

INDICATIONS AND USAGE LUNESTA is indicated for the treatment of insomnia. In controlled outpatient and sleep laboratory studies, LUNESTA administered at bedtime decreased sleep latency and

WARNINGS Because eleep disturbances may be the presenting manifestation of a physical and/or psychiatric disorder, symptomatic treatment of insomnia brould be initiated only after a careful evaluation of the patient. The failure of insomnia to remedical illness that should be evaluated. Worsening of insomnia or the emergence of new thinking or behavior abnormalities may be the consequence of an unrecognized psy-chiatric or physical disorder. Such findings have emerged during the course of tradi-ment with sedative/hyponic drugs, including LUNESTA. Because some of the impor-tant adverse effects of LUNESTA appear to be dose-related, it is important to use the lowest possible effective dose, sepecially in the elderly (see DOSAGE AND ADMINIS-TRATION in the Full Prescribing Information).

INATION in the Full Prescribing Information). A variety of abnormal tinking and behavior changes have been reported to occur in association with the use of sedative/hyponotics. Some of these changes may be char-acterized by decreased inhibition (e.g., aggressiveness and extroversion that seem out of character), similar to effects produced by alcohol and other CNS depressants. Other reported behavioral changes have included bizare behavior, aglitation, halluci-nations, and depersonalization. Annesis and other neuropsychiatric symptoms may occur unpredictably. In primarily depressed patients, worsening of depression, including suicidal thinking, has been reported in association with the use of seda-tive/hyponotics.

twe/hyponotics. It can rarely be determined with certainty whether a particular instance of the abnor-mal behaviors listed above are drug-induced, spontaneous in origin, or a result of an underlying psychiatric or physical disorder. Nonetheless, the emergence of any new behavioral sign or symptom of concern requires careful and inmediate evaluation. Following rapid dose decrease or abrupt discontinuation of the use of sedative/hyp-notics, there have been reports of signs and symptoms similar to those associated with withdrawal from other CNS-depressant drugs (see DRUG ABUSE AND DEPENDENCE).

withdrawal from other CNS-depressant drugs (see DRUG ABUSE AND DEPENDENCE). LUNESTA, like other hypotics, has CNS-depressant effects. Because of the rapid onset of action, LUNESTA should only be ingested immediately prior to going to bed or after the patient has gone to bed and has experienced difficulty failing asleep. Patients receiving LUNESTA should be cautioned against engaging in hazardous occupations requiring complete mental alertness or motor coordination (e.g., oper-ating machinery or driving a motor vehicie) after ingesting the drug, and be cautioned about potential impairment of the performance of such activities on the day follow CNS-depressant effects when ccadministered with other psychotropic medications, anticonvulsants, antihistamines, ethanol, and other drugs that themselves produce CNS depression. LUNESTA is administered with other CNS-depressant agents, be encessary when LUNESTA is administered with other CNS-depressant agents, because of the potentially additive effects.

FIGEOROTORING General Timing Of Drug Administration: LUNESTA should be taken immediately before bedtime. Taking a sediative/hypnotic while still up and about may result in short-term memory impairment, hallucinations, impaired coordination, dizziness, and lightheadedness. Use In The Elderly And/Or Debilitated Patients: Impaired motor and/or cognitive performance after repeated exposure or unusual sensitivity to sedative/hypnotic drugs is a concern in the treatment of elderly and/or debilitated patients. The recom-mended starting dose of LUNESTA for these patients is 1 mg (see DOSAGE AND ADMINISTRATION in the Full Prescribing Information). Use In Patients With Concomitant Illness: Clinical experience with eszopiclone in patients with diseases or conditions that could affect metabolism or hemodynamic responses.

responses. A study in healthy volunteers did not reveal respiratory-depressant effects at doses 2-fold higher (7 mg) than the recommended dose of eszopicione. Caution is advised, however, if LUNESTA should be reduced to 1 mg in patients with severe hepatic impairment, because systemic exposure is doubled in such subjects. No dose adjust-ment appears necessary for subjects with mild or moderate hepatic impairment. No dose adjustment appears necessary in subjects with any depres of renal impairment, since less than 10% of eszopicione is excreted unchanged in the urine. The dose of LUNESTA should be reduced in patients who are administered potent inhibitors of CVP3A4, such as ketoconazole, while taking LUNESTA. Downward dose adjustment is also recommended when LUNESTA is administered with agents hav-ing known CNS-depressant effects.

ing known CNS-depressant effects. Use In Patients With Depression: Sedative/hypnotic drugs should be administered with caution to patients exhibiting signs and symptoms of depression. Suicidal ten-dencies may be present in such patients, and profective measures may be required. Intentional overdose is more common in this group of patients; therefore, the least around 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 prescribing detormation

information. Laboratory Tests: There are no specific laboratory tests recommended. Drug Interactions CMS-Active Drugs Erthanot. In additive effect on psychomotor performance was seen with coadministra-tion of eszopicione and ethanol 0.70 g/kg for up to 4 hours after ethanol administration.

tion of escopicione and ethanol 0.70 g/kg for up to 4 hours after ethanol administration. Paroxetine: Coadministration of single doses of escopicione 3 mg and paroxetine 20 mg daily for 7 days produced no pharmacokinetic or pharmacodynamic interaction. Lorazepan: Coadministration of single doses of escopicione 3 mg and lorazepan 2 mg dia oft have clinically relevant effects on the pharmacodynamic or pharmaco-kinetics of either drug. Olarazepine: Coadministration of escopicione 3 mg and olarazepine 10 mg produced a decrease in DSST scores. The interaction was pharmacodynamic; there was no alter-ation in the pharmacokinetics of either drug. Drugs That Inhibit CYP344 (fetoconazole): CYP344 is a major metabolic pathway for eliministration of escopicione. The AUC of escopicione was increased 2.2-fold by coad-timistration of textoporazed 1.4-fold and 1.3-fold, respectively. Other strong inhibitors of CYP344 (e. altraconazole, clarithornycin, nefazodome, triberadomycin, intonavir, nefinavir) would be expected to behave similarly. Drugs That Induce CYP344 (Ritampicin): Racemic, zopicione exposure was

neffinavity would be expected to behave similarly. Drugs That Induce CYP3A4 (Rifampicin): Racemic zopicione exposure was decreased 80% by concomitant use of rifampicin, a potent inducer of CYP3A4. A similar effect would be expected with escopicione. Drugs Highly Bound To Plasma Protein: Escopicione is not highly bound to plasma proteins (52-59% bound); therefore, the disposition of escopicione is not expected to a patient taking another drug that is highly protein-bound would not be expected to cause an alteration in the free concentration of either drug. Druge With A Mercyn Drosenoutic Indow.

to cause an atteration in the free concentration of either drug. Drugs With A Narrow Therapeutic Index Digoxin: A single dose of escopiclone 3 mg did not affect the pharmacokinetics of digoxin measured at steady state following dosing of 0.5 mg twice daily for one day and 0.25 mg daily for the next 6 days.

and 0.25 mg daily for the next 6 days. Warrain: Escopicione 3 mg administered daily for 5 days did not affect the pharma-cokinetics of (R)- or (S)-warfarin, nor were there any changes in the pharmacody-namic profile (prothrombin time) following a single 25-mg oral dose of warfarin. **Carcinogenesis:** In a carcinogenicitly study in Sprague-Dawley rats in which escopi-cione was given by oral gavage, no increases in tumors were seen; plasma levels (AUC) of escopicione at the highest dose used in this study (16 mg/kg/day) are esti-mated to be 80 (females) and 20 (males) times those in humans receiving the max-imum recommended human dose (MRHD). However, in a carcinogenicity study in s

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BRIFF SUMMARY

CONTRAINDICATIONS

WARNINGS

PRECAUTIONS

perts on medical care in the outdoors, William W. Forgey, M.D., said at the annual meeting of the Wilderness Medical Society (WMS).

"We've had a lot of feedback that at our society meetings we didn't do enough to address this particular issue," according to Dr. Forgey, a family physician at Indiana University, Indianapolis, and editor of the fifth edition of the practice guidelines.

The guidelines stress that immediate evacuation to a hospital saves lives in patients with acute coronary syndrome (ACS). If that can't be accomplished expeditiously by helicopter, litter, or another form of assisted transport, the patient should self-evacuate when possible via slow walking while taking 0.4 mg of prophylactic sublingual nitroglycerin every 10-15 minutes to prevent angina during exertion.

The WMS guidelines recommend early and aggressive use of four medications: ► Aspirin. Four chewable 81-mg tablets immediately, then one per day.

Sprague-Dawley rats in which racemic zopiclone was given in the diet, and in which plasma levels of eszopiclone were reached that were greater than those reached in the above study of eszopiclone, an increase in mammary gland adenocariomas in males were seen at the highest dose of 100 mg/kg/day. Plasma levels of eszopiclone at this dose are estimated to be 150 (females) and 70 (males) times those in humans receiving the MRHD. The mechanism for the increase in mammary adenocarionomas is unknown. The increase in thyroid tumors is thought to be due to increased levels of TSH secondary to increase of therability of the adenomenation and that is not considered to be relevant to humans.

anism that is not considered to be relevant to humans. In a carcinogenicity study in B6C3F1 mice in which racemic zopicione was given in the diet, an increase in pulmoary carcinomas and carcinomas plus adenomas in females and an increase in skin fibromas and sarcomas in males were seen at the highest disc of 100 mg/kg/day. Plasma levels of escopicione at this does are estimat-ed to be 8 (females) and 20 (males) times those in humans receiving the MRHD. The skin tumors were due to skin lesions induced by aggressive behavior, a mechanism that is not relevant to humans. A carcinogenicity study was also performed in which CD-1 mice were given escopicione at doese up to 100 mg/kg/day by oral gavage; athough this study did not reach a maximum tolerated doese, and was thus inadequate for overall assessment of carcinogenic potential, no increases in either pulmonary or skin tumors were seen at doese producing plasma levels of eszopicione estimated to be 90 times those in humans receiving the MRHD—i.e., 12 times the exposure in the racemate study. Eszopiclone did not increase tumors in a p53 transgenic mouse bioassay at oral doese up to 300 mg/kg/day.

toese up to 300 mg/quay. *Mutagenesis:* Eszopicione was positive in the mouse lymphoma chromosomal aberration assay and produced an equivocal response in the Chinese hamster ovary cell chromosomal aberration assay. It was not mutagenic or clastogenic in the bacterial Ames gene mutation assay, in an unscheduled DNA synthesis assay, or an an *in vivo* mouse bone marrow micronucleus assay.

(S)-N-desmethyl zopiclone, a metabolite of eszopiclone, was positive in the Chinese hamster ovary cell and human lymphocyte chromosomal aberration assays. It was negative in the bacterial Ames mutation assay, in an *in vivo* "P-postlabeling DNA adduct assay, and in an *in vivo* mouse bone marrow chromosomal aberration and micronucleus assay.

micronucleus assay. Impairment Of Fertility: Eszopicione was given by oral gavage to male rats at doses up to 45 mg/kg/day from 4 weeks premating through mating and to female rats at doses up to 180 mg/kg/day from 2 weeks premating through day 7 of pregnancy. An additional study was performed in which only females were treated, up to 180 mg/kg/day. Eszopicione decreased fertility, probably because of effects in bdth males and females, with no females becoming pregnant when bdth males and females were treated with the highest dose; the no-effect dose in bdth sexes was 5 mg/kg (16 times the MRHD on a mg/m² basis). Other effects included increased preimplantation loss (no-effect dose 25 mg/kg), abnormal estrus cycles (no-effect dose 25 mg/kg), and decreases in sperm number and motility and increases in mor-phologically abnormal sperm (no-effect dose 5 mg/kg).

Pregnancy Pregnancy Category C: Eszopicione administered by oral gavage to pregnant rats and Pregnancy Pregnancy Category C: Eszopicione administered by oral gavage to pregnant rats and rabbits during the period of organogenesis showed no evidence of teratogenicity up to the highest doses tested (250 and 16 mg/kg/day in rats and rabbits, respectively; these doses are 800 and 100 times, respectively, the maximum recommended human dose [MHHD] on a mg/m² basis). In the rat, slight reductions in felal weight and evidence of developmental delay were seen at maternally toxic doses of 125 and 150 mg/kg/day, but not at 62.5 mg/kg/day (200 times the MHHD on a mg/m² basis). Eszopicione was also administered by oral gavage to pregnant rats throughout the pregnancy and lactation periods at doses of up to 180 mg/kg/day. Increased post-implantation loss, decreased postnatal pup weights and survival, and increased post-implantation loss, decreased postnatal pup weights and survival, and increased post-implantation loss, decreased postnatal pup weights and survival, and increased post-implantation loss decreased postnatal pup weights and survival, and increased pust-ial toxicity. Escopicione had no effects on other behavioral measures or reproductive function in the offspring. There are no adequate and well-controlled studies of eszopicione in pregnant women. Eszopicione should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Labor And Definery: LUNESTA has no established use in labor and delivery. *Nursing Mothers*: It is not known whether LUNESTA is excreted in human milk, Because many drugs are excreted in human milk, caution should be exercised when LUNESTA is and effectiveness of eszopicione in children below the age of 18 have not hene established.

LUNES1A is administered to a nursing woman. *Pediatric Use:* Safey and effectiveness of eszopiclone in children below the age of 18 have not been established. *Geriatric Use:* A total of 287 subjects in double-blind, parallel-group, placebo-con-trolled clinical trials who received eszopiclone were 65 to 86 years of age. The over-all pattern of adverse events for elderly subjects (median age = 71 years) in 2-week studies with nightlime dosing of 2 mg eszopiclone was not different from that seen in younger adults. LUNESTA 2 mg exhibited significant reduction in sleep latency and improvement in sleep maintenance in the elderly population. **AUVERSE FRACTIONS** ADVERSE REACTIONS

PERSE REACTIONS premarketing development program for LUNESTA included eszopicione soures in patients and/or normal subjects from two different groups of studies; normately 400 normal subjects in clinical pharmacology/pharmacokinetic lies, and approximately 1550 patients in placebo-controlled clinical effectiveness lies, corresponding to approximately 266 patient-exposure years. The conditions duration of treatment with LUNESTA varied greatly and included (in overlapping gories) open-label and double-blind phases of studies, inplatients and valents, and short-term and longer-term exposure. Adverse reactions were issed by collecting adverse events, results of physical examinations, vital signs, pits, laboratory analyses, and ECGs.

weights, adoratory analyses, and EUSS. Adverse events during exposure were obtained primarily by general inquiry and recorded by clinical investigators using terminology of their own choosing. Consequently, it is not possible to provide a meaningful estimate of the proportion of individuals experiencing adverse events without first grouping similar types of events into a smaller number of standardized event categories. In the stabulations that follow, COSTART terminology has been used to classify reported adverse events.

Notify the terminology in as been task to classify reported averse events. The stated frequencies of adverse events represent the proportion of individuals who experienced, at least once, a treatment-emergent if in courred of the type listed. An event was considered treatment-emergent if it occurred for the first time or worsened while the patient was receiving therapy following baseline evaluation.

event was considered treatment-emergent if it occurred for the first time or worsened while the patient was receiving therapy following baseline evaluation. Adverse Findings Observed in Placebo-Controlled Trials Adverse Functions in the intervention of Treatment: In placebo-controlled, parallel-group clinical trials in the elderly, 38% of 208 patients who received placebo, 2.3% of 215 patients who received 2 mg LUNESTA, and 1.4% of 72 patients who received in mg LUNESTA discontinued treatment due to an adverse event. In the 6-week parallel-group study in adults, no patients in the 3 mg arm discontinued because of an adverse event. In the long-term 6-month study in adult insomnia patients, 7.2% of 195 patients who received placebo and 12.8% of 593 patients who received 3 mg LUNESTA discontinued due to an adverse event. In the 6-week parallel-group study in adults, no patients in the 3 mg arm discontinued because of an adverse event. In the long-term 6-month study in adult insomnia patients, 7.2% of 195 patients who received placebo and 12.8% of 593 patients who received 3 mg LUNESTA discontinued due to an adverse event. No event that resulted in discontinuation occurred at a rate of greater than 2%. Adverse Events Observed at an Incidence of 2.2% in Controlled Trials. The follow-ing lists the incidence (% placebo, 2 mg, 3 mg, respectively) of treatment-emergent adverse events from a Phase 3 placebo-controlled study of LUNESTA at doses of 2 or 3 mg in non-elderly adults. Treatment duration in this trial was 44 days. Data are limited to adverse events that occurred in 2% or more of patients treated with LUNESTA are (n=13%, 5%, 7%), dyspepsia (4%, 4%, 5%), nussea (4%, 5%, 4%), wornting (1%, 5%, 7%), dys, bepessia (4%, 4%, 5%), somaling (1%, 5%, 7%), dys, beginsia (4%, 4%, 5%), contin-sion (7%, 0%, 5%), depression (7%, 6%, 7%), dys, backs (4%, 5%, 5%), own, 3%), <u>Diserbive system</u>, dry mouth (3%, 5%, 7%), dys, backs (4%, 5%, 5%), own, Junesa (4%, 5%, 5%), own, Junesa (4%, 5%, 5%), own, Junesa (4 *Gender-specific adverse event in females **Gender-specific adverse event in males

'Events for which the LUNESTA incidence was equal to or less than placebo are not listed, but included the following: abnormal dreams, accidental injury, back pain, diarrhea, flu syndrome, myalgia, pain, pharyngtis, and rhinitis. Adverse events that suggest a dose-response relationship in adults include viral infection, dry mouth, dizzness, hallucinations, infection, rash, and unpleasant taste, with this relationship clearest for unpleasant taste. The following lists the incidence (% placebo, 2 mg, 3 mg, respectively) of treatment-emergent adverse events from combined Phase 3 placebo-controlled studies of UNESTA at doess of 1 or 2 mg in elderly adults (ages 65-46). Treatment duration in these trials was 14 days. Data are limited to events that occurred in 2% or more of platents treated with LUNESTA may arget than the incidence in placebo-treated patients.

patients¹ Body as a whole: accidental injury (1%, 0%, 3%), headache (14%, 15%, 13%), pain (2%, 4%, 5%), Digentie system diarrhea (2%, 4%, 2%), dry nouth (2%, 3%, 7%), dyspepsia (2%, 6%, 2%), <u>Nervous system</u> abnormal dreams (0%, 3%, 1%), dizzi-ness (2%, 1%, 6%), nervousness (1%, 0%, 2%), neuralgia (0%, 3%, 0%), <u>Skin and</u> <u>appendages</u>, prurfus: (1%, 4%, 1%), <u>Dipedia Joness</u>, unpeasant layed (1%, 3%, 0%), <u>Skin and</u> appendages, prurfus; (1%, 4%, 1%), <u>dizzi-1%), <u>Urogential system</u>; unhary trac infection (0%, 3%, 0%).</u>

Events for which the LUNESTA incidence was equal to or less than placebo are not listed, but included the following: abdominal pain, asthenia, nausea, rash, and

somnolence. Adverse events that suggest a dose-response relationship in elderly adults include pain, dry mouth, and unpleasant taste, with this relationship again clearest for unpleasant taste. These figures cannot be used to predict the incidence of adverse events in the course of usual medical practice because patient characteristics and other factors may differ from those that prevailed in the clinical trials. Similarly, the cited frequencies cannot be compared with figures obtained from other clinical inves-tigations involving different treatments, uses, and investigators.

cled frequencies cannot be compared with figures obtained from other clinical inves-tigations involving different treatments, uses, and investigators. The cited figures, however, do provide the prescribing physician with some basis for estimating the relative contributions of drug and non-drug factors to the adverse event incidence rate in the population studied. **Other Events Observed During The Premarketing Evaluation Of LUNESTA.** All is list of modified COSTART terms that reflect treatment-emergent adverse events as defined in the introduction to the **ADVERSE REACTIONS** section and reported by approximately 1550 subjects treated with LUNESTA at doses in the range of 1 to 3.5 mg/day during Phase 2 and 3 clinical triats throughout the United States and Canada. All reported events are included except these already listed here or listed elsewhere in labeling, minor events common in the general population, and events unlikely to be drug-related. Although the events reported occurred during treatment with LUNESTA, they were not necessarily caused by I. Events are listed in order of decreasing frequency according to the following defini-tions: **frequent** adverse events are those that occurred in field that 1/100 patients; **interguent** adverse events are those that occurred in field based on their incidence for the appropriate gender. **Frequent**: Lotest pain, migraine, peripheral edema.

Frequent: chest pain, migraine, peripheral edema.

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Frequent: chest pain, migraine, peripheral edema.
Infrequent: acne, agitation, allergic reaction, alopecia, amenorrhea, anemia, anorexia, apathy, arthritis, asthma, ataxia, breast engorgement, breast enlargement, breast neoplasm, breast pain, breast engorgement, breast endorgement, presenties, concordination, increased appette, insonnia, joint disorder (mainly swelling, stiffness, and pain), kidney calculus, kidney pain, laryngits, leg cramps, timitus, media, metrorshesia, photosensitivity, reflexes decreased, skin discoloration, sveating, thinking abnormal (mainly dificulty concentration), thrist, tinnitus, twitching, ulcerative stomatilis, unirary frequency, unirary incontinence, upinta, institis, melan, anexis, possibilis, verigo, vesitibular disorder, weight gain, weight loss, gastritis, gout, hepatitis, hepatomegal, herps zoster, instumis, hyperacultis, spelatemia, hypothesia, initis, surgor, theorabophlebitis, tongue edema, tremor, urethritis, vesiculobullous rash.

vesiculobullous rash. PRUG ABUSE AND DEPENDENCE Controlled Substance Class: LUNESTA is a Schedule IV controlled substance under the Controlled Substances Act. Other substances under the same classification are benzodiazepines and the nonbenzodiazepine hypotics zakepion and zolpidem. While scopicione is a hypotic agent with a chemical structure unrelated to benzodi-azepines, it shares some of the pharmacologic properties of the benzodiazepines.

escopicione is a riymouc agent wirn a chemica structure unrelated to berzcoin-azpines, its hares some of the pharmacologic properties of the benzcoitazepines. Abuse and Dependence: na study of abuse liability conducted in individuals with known histories of benzcoitazepine abuse, escopicione at doses of 6 and 12 mg pro-duced euphorc effects similar to those of diazepam 20 mg. In this study at doses 2-fold or greater than the maximum recommended doses, a dose-related increase in reports of annesia and hallucinations was observed for both LUNESTA and diazepam. The clinical trial experience with LUNESTA revealed no evidence of a serious withdrawal syndrome. Nevertheless, the following adverse events included in DSM-1V citreria for uncomplicate deadative/hypnotic withdrawal were reported during clinical trials following placebo substitution occurring within 48 hours following the last LUNESTA treatment: anxiety, abnormal dreams, nausea, and upset stomach. These reported adverse events occurred at an incidence of 2% or less. Use of theracdiazepines and similar agents may lead to physical and psychological dependence. The risk of abuse and dependence increases with the dose and duration of treatment and concomitant use of other psychoactive drugs. The risk is also greater for patients who have a history of alcohol or drug abuse or history of psychiatric disorders. These patients should be under careful surveiliance when receiving LUNESTA treagents may develop after repeated use of these groups for a few weeks. No development of tolerance to any parameter of sleep measurement was observed merers in mortes. Tolerance to the effect of 1104F5TA to mu as easeesed the Ju-week

There are sub-relieved to the relieved of the repeated use of these drugs for a few weeks. No development of tolerance to any parameter of sleep measurement was observed over six months. Tolerance to the efficacy of LUNESTA3 mg was assessed by 4-week objective and 6-week subjective measurements of time to sleep onset and sleep main-tenance for LUNESTA in a placebo-controlled 4-d-ay study, and by subjective assess-ments of time to sleep onset and WASO in a placebo-controlled 4-d-ay study, and by subjective assess-ments of time to sleep onset and WASO in a placebo-controlled 4-d-ay study, and by subjective assess-ments of time to sleep onset and WASO in a placebo-controlled 4-d-ay study, and by subjective assess-ments of time to sleep onset and WASO in a placebo-controlled 4-d-ay study, and by subjective assess-ments of time to sleep onset and WASO in a placebo-controlled 4-d-ay study, and by subjective assess-ments of time to sleep onset and WASO in a placebo-controlled 4-d-ay study, and by subjective assess-ments of time to sleep onset and was one of the subject fully recovered. Individuals have fully recovered from racemic zopicione, one case of overdose with up to 36 mg of eszopicione of eszopicione, one case of the plarmacological effects noted in preclinical testing. Impairment of consciousness ranging from somolence to coma has been described. Arai individual instances of talad outcomes following overdose with racemic zopicione have been reported in European postmarketing reports, most often associated with overdose with other CNS-depressant agents.

A source associated with overduces with other CNS-depression agents. Recommended Treatment General symptomatic and supportive measures should be used along with immediate gastric lavage where appropriate. Intravenous fluids should be administered as needed. Immazenii may be useful. As in all cases of drug overdose, respiration, pulse, blood pressure, and other appropriate signs should be monitored and general supportive measures employed. Hypotension and CNS depression should be monitored and treated by appropriate medical intervention. The value of dialysis in the treatment of overdosage has not been determined.

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▶ Nitroglycerin. Sublingual 0.4 mg every 10 minutes unless the patient has a heart rate below 60 bpm, no palpable pulse in the standing position, signs of hypotension, or a systolic blood pressure below 100 mm Hg.

► Clopidogrel. A 300-mg loading dose immediately, then 75 mg per day. An obese individual may require a 600-mg loading dose.

β-Blocker. Metoprolol or atenolol at 25 mg beginning 30 minutes after chest pain onset and continuing every 6 hours, even if chest pain improves. β-Blocker drugs should not be given to a patient with a heart rate below 60 bpm, severe shortness of breath, or wheezing.

The guidelines also advocate a number of adjunctive measures including treatment of pulmonary edema with nitro-

The guidelines also address managing botanical encounters, orthopedic injuries, burns, high-altitude illnesses, and more.

glycerin and/or rotating extremity tourniquets tight enough to impede venous return but not arterial flow. Other recommended adjunctive measures include supplemental oxygen, having a patient who feels faint cough deeply and repeatedly in order to prevent loss of conscious-

ness during bradycardia or ventricular tachycardia, and having the patient in shock sit head down/feet up to prevent progressive coronary hypoperfusion.

Dr. Forgey pointed out that the guidelines are written for use by generalist physicians. Specialists such as cardiologists or cardiac surgeons may opt to act more aggressively.

Managing ACS in the wilderness is 1 of 26 topics addressed in the practice guidelines. Others range from what to store in a wilderness medical kit to managing botanical encounters, orthopedic injuries, burns, high-altitude illnesses, anxiety and stress reactions in the wilderness, and the thorny issue of hyponatremia as a consideration in oral fluid and electrolyte replacement.

The new edition for the first time adopts an evidence-based medicine approach, with all recommendations graded based upon the quality of the supporting evidence.

Dr. Forgey is particularly excited about the first-ever chapter on eye pathology.

"I think this guideline is one of the most important we've ever developed," he declared. "You cannot go into the wilderness without running into the problem of the red eye. It's a topic noticeably lacking from the wilderness medicine literature. Knowing how to handle traumatic and nontraumatic eye problems in the wilderness—and having the correct medications along-saves you so often."

The practice guidelines, free with membership in the Wilderness Medical Society, also can be purchased at www.wms.org.