CLINICAL

Occult CAD in Intracranial Ischemia

People who have a transient ischemic attack or nondisabling ischemic stroke but are not thought to have heart disease often harbor occult coronary artery disease, reported Juan F. Arenillas, M.D., and his associates at Vall d'Hebron University Hospital, Barcelona, Spain.

They assessed 65 patients with a recent, nondisabling ischemic stroke and 22 with a recent TIA in what they described as the first study to assess myocardial perfusion in patients with intracranial atherosclerosis. The patients were found to have a toCAPSULES

tal of 175 intracranial stenoses. None of the subjects were thought to have CAD (Stroke 2005;36:1201-6).

Myocardial perfusion single-photo emission CT revealed that 34 patients (52%) had significant myocardial ischemia, including anterior, septal, or apical defects, as well as inferior or lateral perfusion defects. Patients whose stroke or TIA was attributed to middle cerebral artery or vertebrobasilar stenoses and who were found to have asymptomatic internal carotid artery stenoses had a 100% chance of having silent CAD. "We suggest that this pattern of distribution ... may serve as an indicator of a generalized atherosclerotic disease," the researchers said. Coronary testing should be considered for these patients because they are at high risk for occult CAD, they said.

Impaired Cognition Predicts CHD, Stroke

Low cognitive function predicts cardiovascular events independent of established cardiovascular risk factors, said Jacob S. Elkins, M.D., of the University of California, San Francisco, and his associates.

The researchers used data on 12,096 middle-aged subjects enrolled in a population-based prospective study to evaluate

whether below-normal cognitive function could be an early manifestation of vascular end-organ injury to the brain, and could therefore identify people at risk for impending CV events. During a mean followup of 6.4 years, there were 292 incident MIs, 50 deaths from coronary heart disease, and 174 strokes in the study population (Neurol. 2005;64:1750-5).

Subjects in the lowest quartile of cognitive performance for their demographic backgrounds had a 50% higher risk of such events than did those in the highest quartile of cognitive performance, after the data were adjusted for known CV risk factors. The magnitude of this association was comparable to that for other major risk factors such as left ventricular hypertrophy or low HDL cholesterol. This suggests that simple cognitive testing might prove useful for risk stratification, the investigators said.

ICDs Perform Outside Clinical Trials

In routine medical practice with diverse patient populations, implantable cardioverter-defibrillators reduce mortality as much as in clinical trials with highly selected subjects who received optimal care, according to Paul S. Chan, M.D., of the University of Michigan, Ann Arbor, and his associates.

They assessed mortality in 6,996 patients treated at Veterans Administration hospitals who had preexisting ischemic heart disease and clinical heart failure at the onset of ventricular arrhythmia. About 20% of the patients received ICDs; the others were managed medically. Both all-cause and cardiac-specific mortality were significantly lower in the ICD group, with an overall risk reduction of 28% (J. Am. Coll. Cardiol. 2005;45:1474-81).

Only 4.2 patients needed to be treated with an ICD to avert a single cardiovascular death. "Few therapies in all of medicine have shown such striking benefits for overall survival," the researchers noted.

Can Hair Loss Signal CVD?

Sometimes a prosaic symptom such as hair loss provides the clue that is crucial to diagnosis, according to Yvo Smulders, M.D., of VU University Medical Center, Amsterdam, and his associates.

They reported on a 39-year-old man who felt fine but mentioned at a routine physical exam that he had more hair loss than usual during the previous year. The only abnormalities found on the exam were alopecia and hypertension. But testing revealed ECG abnormalities, high cholesterol, elevated serum creatine phosphokinase, and renal insufficiency. Silent ischemic heart disease was suspected.

Clinicians at a cardiology clinic where the patient was referred thought that the combination of hair loss and high creatine phosphokinase indicated hypothyroidism instead. Daily thyroxine therapy led to normalization of the patient's blood pressure, ECG readings, renal function, and serum enzymes—and hair regrowth, the investigators said (Lancet 2005;365:544).

Hypothyroidism often involves hypertension due to increased systemic vascular resistance, high cholesterol due to reduced hepatic clearance of LDL cholesterol, and renal insufficiency, presumably due to a hypodynamic circulation, they said.

Lunesta (oszopidono)

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 improved sleep maintenance.

WARNINGS

Because sleep disturbances may be the presenting manifestation of a physical and/or psychiatric disorder, symptomatic treatment of insomnia should be initiated only after a careful evaluation of the patient. The failure of insomnia to remit after 7 to 10 days of treatment may indicate the presence of a primary psychiatric and/or medical liness that should be evaluated. Worsening of insomnia or the emergence of new thinking or behavior abnormalities may be the consequence of an unrecognized psychiatric or physical disorder. Such findings have emerged during the course of treatment with sedative-hyponic drugs, including LUMESTA. Because some of the important adverse effects of LUMESTA appear to be dose-related, it is important to use the lowest possible effective dose, sepecially in the lederly (see DOSAGE AND ADMINISTRATION in the Full Prescribing Information).

INATURE IN THE Full Prescribing Information).

A variety of abnormal thinking and behavior changes have been reported to occur in association with the use of sedetive/hypnotics. Some of these changes may be characterized 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 bizarre behavior, agitation, hallucriations, and depersonalization. Annesia and other neuropsychiatric symptoms may occur unpredictably. In primarily degressed patients, worsening of depression, including suicidal thinking, has been reported in association with the use of sedative/hypnotics.

tive/hyprofics. It can rarely be determined with certainty whether a particular instance of the abnormal 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 immediate 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 droug (see DRUG ABUSE AND DEPENDENCE). LUNESTA, like other hypnotics, has CNS-depressant effects. Because of the rajed onset of action, LUNESTA should only be ingested immediately prior to going to bed or after the patient seeking LUNESTA should be cautioned against engaging in hazardous occupations requiring LUNESTA ishould be cautioned against engaging in hazardous occupations requiring complete mental alertness or motor coordination (e.g., operating machinery or driving a motor vehicle) after ingesting the droig, and be cautioned about potential impairment of the performance of such activities on the day following ingestion of LUNESTA. LUNESTA like other hypnotics, may produce additive CNS-depressant effects when coadministered with other psychotropic medications, anticonvulsaris, arthinistamies, ethanol, and other drugs that themselves produce CNS depression. LUNESTA should not be taken with alcohol. Dose adjustment may be necessary when LUNESTA is administered with other CNS-depressant agents, because of the potentially additive effects.

Timing 01 Drug Administration: LUNESTA should be taken immediately before bedtime Taking a sedative/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/hyponicularity in the properties of the p

Administration in the run Prescribing Information).

Wes In Patients With Concomitant Illness: Clinical experience with escopiolone in patients with corcomitant Illness is limited. Escopiolone should be used with caution in patients with diseases or conditions that could affect metabolism or hemodynamic

A study in healthy volunteers did not reveal respiratory-depressant effects at doses 2.5-fold higher (7 mg) than the recommended dose of excepcione. Caution is advised, however, if LUNESTA is prescribed to patients with compromised respiratory function. The dose of LUNESTA should be reduced to 1 mg in patients with severe hepatic impairment, because systemic exposure is doubled in such subjects. No dose adjustment appears necessary for subjects with mild or moderate hepatic impairment, sonce less than 10% of excepcione is excreted unchanged in the urine. The dose of LUNESTA should be reduced in patients who are administered potent inhibitors of CYPSA4, such as ketoconazole, while taking LUNESTA. Downward dose adjustment is also recommended when LUNESTA, is administered with agents having known ONS-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 tendencies may be present in such patients, and protective measures may be required. Intentional overdose is more common in this group of patients, therefore, the estal 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 prescribing information.

Laboratory Tests: There are no specific laboratory tests recommended.

Ethanol. An additive effect on psychomotor performance was seen with coadministra-tion of eszopiclone and ethanol 0.70 g/kg for up to 4 hours after ethanol administration. Paroxetine: Coadministration of single doses of eszopiclone 3 mg and paroxetine. 20 mg daily for 7 days produced no pharmacokinetic or pharmacodynamic interaction. Lorazepam: Coadministration of single doses of eszopicione 3 mg and lorazepam 2 mg did not have clinically relevant effects on the pharmacodynamics or pharmacokinetics of either drug.

kinetics of either drug.

dlanzapine: Coadministration of eszopiclone 3 mg and olanzapine 10 mg produced a decrease in DSST scores. The interaction was pharmacodynamic; there was no alteration in the pharmacokinetics of either drug.

Drugs That Inhibit CYP3A4 (Ketoconazole): CYP3A4 is a major metabolic pathway for elimination of eszopicione. The AUC of eszopicione was increased 2.2-fold by condination of eszopiclone. The AUC of eszopiclone was increased 2.2-fold by coad-istration of ketoconazole, a potent lightbir of CVP3A4, 400 mg daily for 5 days. and t_{ox} were increased 1.4-fold and 1.3-fold, respectively. Other strong inhibitors

initistration of ketoconazole, a potent inhibitor of CVP34A, 400 mg dally for 5 days. Cm. and It, were increased 14-fold and 13-fold, respectively. Othef strong inhibitors of CVP34A (e.g., intaconazole, clarithromycin, nefazodone, trolandomycin, ritonavir, neflinavir) would be expected to behave similar.

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Sprague-Dawley rats in which racemic zopicione was given in the diet, and in which plasma levels of escopicione were reached that were greater than those reached in the above study of eszopicione, an increase in mammary gland adenocarcinomas in females and an increase in thyroid gland follicular cell adenomas and carcinomas in females were seen at the highest dose of 100 mg/kg/day. Plasma levels of eszopicione 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 adenocarcinomas is unknown. The increase in thyroid tumors is thought to be due to increased levels of TSH secondary to increased metabolism of circulating thyroid hornness, a mechanism that is not considered to be relevant to humans.

In a carcinogenicity study in B6CSF1 mice in which racemic zopicione was given in the diet, an increase in pulmorary carcinomas and carcinomas plus adenomas in females and an increase in skin fibromas and sarcomas in males were seen at the highest dose of 100 mg/kg/day. Plasma levels of eszopicione at this dose are estimated to be 8 (females) and 20 (males) times those in humans receiving the MRHD. The skin tumors ware 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 eszopicione at doses up to 100 mg/kg/day by oral gazage; although this study did not reach a maximum tolerated dose, and was thus inadequate for overall assessment of carcinogenic potential, no increases in either pulmonary or skin tumors were seen at doses producing plasma levels of eszopiclone estimated to be 90 times those in humans receiving the MRHD—i.e., 12 times the exosoure in the reacemast study.

Eszopiclone did not increase tumors in a p53 transgenic mouse bioassay at oral doses up to 300 mg/kg/day.

uboses up to soor ingraying.

Mutagenesis: Escopicione 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 in an in vivo mouse bone marrow micronucleus assay.

an *in vivo* mouse bone marrow micronucleus assay.

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

adduct assay, and in an *in vivo* mouse bone marrow chromosomal aberration and 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 45 mg/kg/day from 4 weeks premating through mating and to female rats at doses up to 180 mg/kg/day. Foron 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 both males and females, with no females becoming pregnant when both males and females were treated with the highest dose; the no-effect dose in both 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), and decreases in sperm number and motility and increases in morphologically abnormal sperm (no-effect dose 5 mg/kg).

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 recommendad human dose (JRHPID) on a mg/m² basis). In the rat, sight reductions in fetal weight and evidence of developmental fetal were seen at maternally toxic doses of 125 and 150 mg/kg/day, but not at 62.5 mg/kg/day (200 times the MRHD 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 pust-implantation loss, decreased postmatal pup weights and survival, and increased pust-implantation loss, decreased postmatal pup weights and survival, and increased pust-implantation loss, decreased postmatal pup weights and survival, and increased pust-implantation in the offspring.

There are no adequate and well-controlled st

There are no adequate and well-controlled studies of eszopictone in pregnant women. Eszopictone should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Labor And Delvery: LUNESTA has no established use in labor and delivery.

Nursing Motives: 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 administered to a nursing woman.

LUNESTA is administered to a nursing woman.

Pediatric Use: Safety and effectiveness of eszopicione in children below the age of 18 have not been established.

Geriatric Use: A total of 287 subjects in double-blind, parallel-group, placebo-controlled clinical trials who received eszopicione were 65 to 86 years of age. The overall pattern of adverse events for elderly subjects (median age = 71 years) in 2-week studies with nighttime dosing of 2 mg eszopicione was not different from that seen in younger adults. LUNESTA 2 mg exhibited significant reduction in sleep hatency and improvement in sleep maintenance in the elderly population.

in younger adults. LUNESTA 2 mg exhibited significant reduction in sleep hatency and improvement in sleep maintenance in the elderly population.

ADVERSE REACTIONS

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ADVERSE IREACTIONS

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ADVERSE REACTIONS

The premarketin of the elderly population of the propertion of studies; approximately 400 normal subjects in clinical pharmacology/pharmacokinetic studies, and approximately about no placebo-controlled clinical effectiveness studies, corresponding to approximately 263 patient-exposure years. The conditions and duration of treatment with LUNESTA varied greatly and included (in overlapping categories) open-label and double-blind phases of studies, inpatients and outpatients, and short-term and longer-term exposure. Adverse reactions were assessed by collecting adverse events, results of physical examinations, vital signs, weights, laboratory analyses, and ECGs.

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 the proportion of individuals experiencing adverse events represent the proportion of individuals who experienced, al least once, a treatment-emergent adverse event 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.

Adverse Events Resulting in Discontinuation of Treatment: In placebo-controlled, parallel-group clinical trials in the elderly, 3.8% of 208 patients who received a mg LUNESTA discontinued the treatment due to an adverse event. In the 6-week parallel-group study in adults, no patients in the 3 mg arm discontinuation accurred

resulted in discontinuation occurred at a rate of greater than 2%.

Adverse Events Observed at an Incidence of 22% in Controlled Trials. The following lists the incidence (%) placebo, 2 mg, 3 mg, respectively) of treatment-emergent adverse events from a Phase 3 ofacebo-controlled study of LUNESTA at doses of 2 of 3 mg in no-relderly 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 2 mg (n=104) or 3 mg in no-105) in which the incidence in patients treated with LUNESTA 2 mg (n=104) or 3 mg in no-105) in which the incidence in platents treated with LUNESTA 2 mg (n=104) or 3 mg in no-105) in which the incidence in platents treated with LUNESTA 2 mg (n=104), which was greater than the incidence in placebo-treated patients (n=99). Body as a whole; headache (13%, 21%, 17%), viral infection (1%, 3%, 3%), boggestie vsystem; dry mount (3%, 5%, 7%, 9%), espensia (1%, 4%, 5%, 7%), vinding (1%, 3%, 0%). Megression (0%, 4%, 5%), dry (1, ciziness (4%, 5%, 7%), halloriations (0%, 1%, 3%), libid of decreased (0%, 0%, 3%), nervousness (3%, 5%, 0%), somnolence (3%, 10%, 3%, 4%). Special senses; unpleasant taste (3%, 17%, 34%), l'monental system; dysmenorrhea* (0%, 3%, 0%), gnecomastia* (0%, 3%, 0%).

*Gender-specific adverse event in females

'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 rinitial.

Adverse events that suggest a dose-response relationship in adults include viral infection, dry mouth, dizziness, 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 LUNESTA at doses of 1 or 2 mg in elderly adults (ages 65-86). Treatment duration in these trials was 14 days. Data are limited to events that occurred in 2% or more of patients treated with LUNESTA 1 mg (n=72) or 2 mg (n=215) in which the incidence in placebo-treated patients.

patients!

Body as a whole; accidental injury (1%, 0%, 3%), headache (14%, 15%, 13%), pain (2%, 4%, 5%). Digestive system; diarrhea (2%, 4%, 2%), dry mouth (2%, 3%, 7%), dyspepsia (2%, 6%, 2%), hervous essistem; altonormal dreams (9%, 5%, 1%), dizarneas (2%, 15%, 6%), nervousness (1%, 0%, 2%), herualgia (0%, 3%, 0%), Standagoss, prurtius; (1%, 4%, 1%), Special senses; unpleasant taste (0%, 8%, 12%), Ungenital system; unnary tract intection (0%, 3%, 0%).

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 investigations 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.

event incidence rate in the population studied.

Other Events Observed During The Premarketing Evaluation Of LUNESTA.
Following is a 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 trials throughout the United States and Canada. All reported events are included except times already instead reverse 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 II.

Events are listed in order of decreasing frequency according to the following definitions. Frequent adverse events are those that occurred in lewer than 1700 patients; infrequent adverse events are those that occurred in fewer than 1700 patients in infragment adverse events are those that occurred in fewer than 1700 patients of the appropriate gender.

Frequent chest pain, migrarier, peripheral edema.

Frequent: chest pain, migraine, peripheral edema.

Terquent: chest pain, migraine, peripheral edema.

Infrequent: acne. agitation, allergic reaction, alopecia, amenorrhea, anemia, anorexia, apathy, arbritis, asthma, ataxia, breast engogrement, breast enlargement, breast neoplasm, breast pain, bronchitis, burstits, cellulitis, cholelithiasis, conjunctivits, contact dermatilis, cycitis, dry eyes, dry skin, dysprea, dysuria, eczema, ear pain, emotional lability, apictaxis, face edema, temale lactation, fever, halitosis, beat stroke, hematuria, hernia, hiccup, hostility, hypercholesteremia, hypertension, hyper

vesiculobullous rash.

DRUG 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 benzodiazepine hypotolis zaleplon and zolpidem. While eszopidone is a hypotolic agent with a chemical structure unrelated to benzodiazepines, it shares some of the pharmacologic properties of the benzodiazepines.

escopicione is a hypnotic agent with a chemical structure unrelated to benzodiazepines, is shares some of the pharmacologic properties of the benzodiazepines. Abuse, Dependence, and Tolerance Abuse, Dependence, and Tolerance Abuse and Dependence: In a study of abuse liability conducted in individuals with known histories of benzodiazepine abuse, eszopicione at doses of 6 and 12 mg produced euphonic 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 amnesia 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-11 criteria for uncomplicated scalario-Phynolic windrawal even prorted 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 benzodiazepines 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 surveillance when receiving LUNESTA or any other hypnotic.

Tolerance: Some loss of efficacy to the hypnotic effect of benzodiazepines and benzo-diazepine-like agents may develop after repeated use of these drugs for a few weeks No development of folerance 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 44-day study, and by subjective assess-ments of time to sleep onset and WASO in a placebo-controlled study for 6 months.

VYCRODSAGE

There is limited premarketing clinical experience with the effects of an overdosage of
UNESTA. In clinical trials with eszopiclone, one case of overdose with up to 36 mg
of eszopiclone was reported in which the subject fully recovered. Individuals have
ully recovered from racemic expicione overdoses up to 340 mg (56 times the
maximum recommended dose of eszopiclone).

maximum recommended dose of eszopicione). Signs And Symptoms: Signs and Symptoms: Signs and symptoms of overdose effects of CNS depressants can be expected to present as exaggerations of the pharmacological effects noted in preclinical testing. Impairment of consciousness ranging from somnolence to coma has been described. Rare individual instances of fatal outcomes following overdose with receniic zopicione have been reported in European postbranketing reports, most often associated with overdose with other CNS-depressant agents.

often associated with overdose with other CNS-depresant 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. Flumazenil 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 OS depression should be monitored and treated by appropriate medical intervention. The value of dialysis in the treatment of overdosage las not been determined.

Poison Control Center. As with the management of all overdosage, the possibility of multiple drug ingestion should be considered. The physician may wish to consider contacting a poison control center for up-to-date information on the management of hypnotic drug product overdosage.

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-Mary Ann Moon