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Vulvar Vestibulitis Linked to Generalized Pain

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New England Bureau

CAMBRIDGE, MASS. — Women with vulvar vestibulitis have more pain-related complaints and lower thresholds for nongenital tactile pain and pressure than women without the condition, a study has

Typically associated with localized vulvar vestibulum pain, vulvar vestibulitis syndrome (VVS) is characterized by entry

dyspareunia, discomfort at the opening of the vagina, and severe point tenderness on vestibular touch. The results of this study, however, suggest that it may be inaccurate to define VVS as a highly localized problem with a specific vulvar etiology.

In fact, the condition—which is estimated to affect up to 12% of premenopausal women in the general population—may be indicative of a more generalized sensory abnormality, Caroline F. Pukall, Ph.D., reported at the annual meeting of the Society for Sex Therapy and Research.

This research finding could have therapeutic implications for women with VVS who have been referred for psychologic intervention, Dr. Pukall said at the meeting, which was also sponsored by the American College of Obstetricians and Gynecologists.

Using a standardized pain sensitivity measure developed for the diagnosis of fibromyalgia, Dr. Pukall and her colleagues in the department of psychology at Queen's University, Kingston, Ont., evaluated the sensitivity to pressure in nongenital areas experienced by women with and without VVS.

Sixteen women with the condition and 16 control participants underwent a physical tender-point examination by an experienced, blinded rheumatologist.

The examination included the manual palpation of nine nongenital bilateral body locations, including left and right gluteal, low cervical, and supraspinatus regions. The rheumatologist noted the number of painful tender points and rated pain intensity and unpleasantness on a 0-10 scale.

Because the intensity and unpleasantness ratings did not differ significantly

The results of their tender-point examinations suggest that generalized systemic hypersensitivity may be a contributing factor to VVS.

for the right and left sides of any of the areas, the investigators averaged measures from both sides for each site, Dr. Pukall noted.

Variance analyses on the data showed that women with VVS had significantly more painful

areas and significantly higher pain intensity and unpleasantness in response to palpation at each area examined, compared with women in the control group, she

A separate comparison of six pairs of VVS and control women who were matched for age and OC use showed similar results, she noted.

While none of the women in the VVS group had histories of chronic and widespread pain consistent with fibromyalgia, the results of their tender-point examinations suggest that "generalized systemic hypersensitivity" may be a contributing factor to VVS in some women, Dr. Pukall said.

These findings and other recent evidence implicating central and peripheral nervous system processes in the development and maintenance of VVS lend credence to the contention that VVS, which is thought to be the major cause of dyspareunia in premenopausal women, should be considered a pain disorder that interferes with sexuality rather than as a sexual disorder characterized by pain, Dr. Pukall said.

She added that by using the proposed definition, clinicians are more apt to focus on efforts to mitigate the patient's experience of pain, she noted.

While there is no "cure" for VVS, therapeutic approaches may include topical medication to suppress pain and/or inflammation, cognitive-behavioral therapy focusing on pain management and coping strategies, and pelvic floor physical therapy to relieve muscle tension, increase muscle strength and voluntary control, and desensitize fears to vulvovaginal touch and penetration, Dr. Pukall

Lunesta

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 lineas 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/hypontic drugs, including LUNESTA. Because some of the important 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).

ThatToN in the Full Prescribing Information.

A variety of abnormal thinking and behavior changes have been reported to occur in association with the use of sedative/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, hallucinations, and depersonalization. Annesse 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 sedative/hypnotics.

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. Monetheless, the emergence of any new behavioral sign or symptom of concern requires careful and immediate evaluation.

unuenymy psycmatric 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 ONS-depressant drugs (see PIDIG ABUSE AND DEPENDENCE). LUNESTA, like other hypnotics, has CWS-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 falling asleep. Patients receiving LUNESTA should 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 drug, 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. ONS-depressant effects when coadministered with other psychotropic medications, anticonvulsants, antinistamines, ethanol, and other drugs that themselves produce. ONS depression, LUNESTA bould not be taken with alcohol. Dose adjustment may be necessary when LUNESTA is administered with other CNS-depressant agents, because of the petitinal padditive effects.

PRECAUTIONS
General

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.

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 Illess: Clinical experience with eszopiclone in patients with concomitant illness is limited. Eszopiclone should be used with caution 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 2.5-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. No dose adjustment appears necessary in subjects with any degree of renal impairment. No dose adjustment appears necessary in subjects with any degree of renal impairment, since less than 10% of exceptione is excreted unchanged in the urine.

since less than 10% of escopiolone is secreted unchanged in the urine. The dose of LUNESTA should be reduced in patients who are administered potent inhibitors of CYP3A4, such as ketoconazole, while taking LUNESTA. Downward dose adjustment is also recommended when LUNESTA is administered with agents having known CNS-depressant effects.

Use In Patients With Depression: Section symptonic 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 less 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.

Channot 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. Parroxetine: Coadministration of single doses of eszopiclone 3 mg and paroxetine 20 mg daily for 7 days produced no pharmacokinetic or pharmacodynamic interaction.

2 mg did not have clinically relevant effects on the pharmacodynamics or pharmacokinetics of etither drug.

**Olanzapine: 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 (Retoconazole): CYP3A4 is a major metabolic pathway for
elimination of eszopiclone. The AUC of eszopiclone was increased 2.2-fold by coadministration of ketoconazole, a potent inhibitor of CYP3A4, 400, mg daily for 5 days.

**Crean du Ly were increased 1.4-fold and 1.3-fold, respectively. One fisting inhibitors

of CYP3A4 (e.g., traconazole, clarithromycin, nefazodone, trolleandomycin, ritonavir,
nelineavir) would be expected to be behave similar effect would be expected to be behave similar effect would be expected with eszopiclone.

**Drugs Highly Bound To Plasma Protein: Eszopiclone is not highly bound to plasma
proteins: (52-59% bound); therefore, the disposition of eszopiclone is not expected

to be esnistive to alterations in protein binding. Administration of eszopiclone 3 mg

to a patient taking another drug that is highly protein-bound would not expected

to cause an afteration in the free concentration of either drug.

Drugs Wilth Alarom Therapeapottic Index

**Dipoxin: A single dose of eszopiclone 3 mg did not affect the pharmacokinetics of descriptions of the pharmacokinetics of the protein the pharmacokinetics of the pharmacokinetics of the pharmacokinetics of the part of the pharmacokinetics of the pharmacokinetics of the pharmacokinetics of the part of the pharmacokinetics of the part of the pharmacokinetics of the pharmacokinetics of the pharmacokinetics of the part of the part of the pharmacokinetics of the part of the part of the pharmacokinetics of the part of the part of the part of the pharmacokinetics of the part of the part of the pa

Drugs With A Narrow Therapeutic Index
Digoxin: A single dose of escopicione 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.

Wardanin: Escopicione 8 mg administered daily for 5 days did not affect the pharmacokinetics of (R)- or (S)-warfarin, nor were there any changes in the pharmacodynamic profile (prothrombin time) following a single 25-mg oral dose of warfarin.

Carcinogenesis, Mutagenesis, Impairment of Fertility
Carcinogenesis: In a carcinogenicity study in Sprague-Dawley rats in which escopicione was given by oral gavage, no increases in tumors were seen; plasma levels (AUC) of eszopicione at the highest dose used in this study (16 mg/kg/day) are estimated to be 80 (lemates) and 20 (males) times those in humans receiving the maximum recommended human dose (MRHD). However, in a carcinogenicity study in

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 females and an increase in thyroid gland follocular cella adenomas and carcinomas in females 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 adenocarcinomas is unknown. The increase in thyroid tumors is thought to be due to increased levels of TSH secondary to increased in thyroid tumors is thought to be due to increased levels of TSH secondary to increase the tumors in which racemic zopiclone was given in the diet, an increase in pulmonary carcinomas and carcinomans 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 eszopiclone at this dose are estimated to be 8 (females) and 20 (males) times those in humans receiving the MRHD. The shirt tumors were given eszopiclone 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 carcinogenicity study was also performed in which this study did not reach a maximum tolerated dose, and was thus inadequate for overall assessment of carcinogenicity gludy was also performed in which this study did not reach a maximum tolerated dose, and was thus inadequate for overall assessment of carcinogenicity gludy was also performed in which the study did not reach a maximum tolerated dose, and was thus inadequate for overall assessment of carcinogenic potental, no increases in atther 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 exposure in the racemate study.

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

doese up to 300 molyagidas.

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, and unacheduled DNA synthesis assay, or in an in vivo mouse bone marrow micronucleus assay.

(S)-N-desmethyl zopicione, a metabolite of eszopicione, 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 vitro vs-postabeling DNA adduct assay, and in an in vivo mouse bone marrow chromosomal aberration and micronucleus assay.

introductive assay.

Impairment Of Fertility: Escopicione 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 80 mg/kg/day. Escopicione 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 molitility and increases in morphologically abnormal sperm (no-effect dose 5 mg/kg).

phologically abnormal sperm (no-effect dose 5 mg/kg).
Pregnancy Pregnancy Pregnancy Pregnancy Pregnancy Category C: Eszopicione administered by oral gavage to pregnant rats and rabbits during the period of organogenesis showed no evidence of teatrogenicity up to the highest looses tested (250 and 16 mg/kg/dg in rats and rabbits, respectively; these doses are 800 and 100 times, respectively, the maximum recommended human dose (MRHD) on a mg/m² basis). In the rat, slight reductions in fetal begin and evidence of developmental delay were seen at maternally toxic doses of 125 and 100 mg/kg/dg, but not at 62.5 mg/kg/dgy (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/dgy, Increased post-implantation loss, decreased postnatal pup weights and survival, and increased postimises the MRHD on a mg/m² basis. These doses did not produce significant maternal toxicity. Eszopicione had no effects on other behavioral measures or reproductive function in the offsprince.

that obsciny. Exceptione has no effects of other behavioral measures or reproductive function in the offspring.

There are no adequate and well-controlled studies of escopictone in pregnant women. Escopictone should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Labor And Delivery. 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 administered to a nursing woman.

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

Trave not been established.

Gentarito Use, A total of 287 subjects in double-blind, parallel-group, placebo-controlled clinical trials who received eszopictone were 65 to 86 years of age. The overell pattern of adverse events for elderly subjects (median age — 17 years) in 2-week studies with nighttime desing of 2 mg eszopictone was not different from that seen in younger adults. LUNESTA2 mg exhibited significant reduction in sleep latency and improvement in sleep maintenance in the elderly population.

improvement in sleep maintenance in the elderly population.

ADVERSE REACTIONS.

The premarketing development program for LUNESTA included eszopiclone exposures in patients and/or normal subjects from two different groups of studies: approximately 400 normal subjects in clinical pharmacology/pharmacokinetic studies, and approximately 1550 patients in 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 ECDs.

oughteness, and some content and or seasons of the properties 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 categories. In the tabulations that follow, COSTART terminology has been used to classify reported adverse events that follow, COSTART terminology has been used to classify reported adverse events. The stated frequencies of adverse events represent the proportion of individuals who experienced, all least once, a treatment-emergent fif to occurred for the first time or worsened while the patient was receiving therapy following baseline evaluation.

**Adverse Findings Observed in Placebo-Controlled Trials
Adverse Events Resulting in Discontinuation of Treatment. In placebo-controlled, parallel-group clinical trials in the elderly, 3.8% of 208 patients who received placebo, 2.3% of 215 patients who received and usual to the patient of the patient of the patients of the

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 placebo-controlled study of LUNESTA at doses of 2 or 3 mg in non-diderly 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 (n=105) in which the incidence in placebo-treated patients treated with LUNESTA 2 mg (n=104) or 3 mg (n=105) in which the incidence in placebo-treated patients treated with LUNESTA 2 mg (n=104) or 3 mg (n=105) in which the incidence in placebo-treated patients (readed with LUNESTA 2 mg (n=104), 5%, 4%, 5%, 7%), systems and systems analysis of the systems of the system

'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, pharyngitis, and rhindis. 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, 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 0.1 or 2 mg in elderly adults (ages 65-66). Treatment duration in these trials was 14 days. Data are limited to events that occurred in 2% or more of patients treated with LUNESTA in mg (n=72) or 2 mg (n=215) in which the incidence in patients treated with LUNESTA was greater than the incidence in placebo-treated ordered.

patients.¹

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%), dryspepsia (2%, 6%, 2%), hervous system: ahormal dreams (9%, 3%, 4%), hervous system: ahormal dreams (9%, 3%, 4%), pain consection, 1%, 6%), nervousness (1%, 0%, 2%), neuralgia (0%, 3%, 0%), Skin and amendatess; printius: (1%, 4%, 1%), Special sense; unpleasant taste (0%, 8%, 12%), Incorporations (1%, 6%), 1%, 1%).

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 clied 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.

Other Events Observed During The Premarketting 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 LUNISTA 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 those already instelled 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 it.

Events are listed in order of decreasing frequency according to the following definitions: frequent adverse events are those that occurred in fewer than 17.000 patients; rend everse events are those that occurred in fewer than 17.000 patients; rend everse events are those that occurred in fewer than 17.000 patients, rend everse events are those that occurred in fewer than 17.000 patients, rend everse events are those that occurred in fewer than 17.000 patients, ren

occurred in fewer than 1/1,000 patients. Gender-specific events are categorized based on their incidence for the appropriate gender.

Frequent: chest pain, migraine, peripheral edema.

Infrequent: acne, agitation, allergic reaction, alopecia, amenorrhea, anemia, anorexia, apathy, arbritis, asthma, ataka, breast engorgement, breast neaplasm, breast pain, bronchitis, burstis, cellutitis, citolelithiasis, conjunctivitis, contact dermatitis, csyttisis, graves, or yesin, dysprae, dyspria, ezezma, ear pisin, emotional lability, apistaxis, face edema, formale lactation, fever, halitosis, heat stroka, ematuria, herria, hiccup, hostility, hypercholesteremia, hypertension, hyperthesia, incoordination, increased appetite, insornia, joint disorder (mainly swelling, stiffness, and pain), kidney calculus, kidney pain, lanyngitis, leg cranaps lymphadenopathy, malaise, mastitis, melena, memory impairment, menorrhagia, metrorrhagia, mouth ulceration, myasthenia, neck rigidity, neurosis, nystagmus, olitis externa, otitis media, paresthesia, photosensitivity, reflexes decreased, skin discoloration, swealing, birking abnormal (mainly difficulty oncentrating), thirst, tinnitus, britching, ulcerative stomatitis, urnary frequency, urnary incontinence, urticaria, uterine hemorrhage, vaginal hemorrhage, vaginitis, vertigo, vestibular disorder, weight gain, weight loss.

Rare: abnormal gait, arthrosis, colitis, dehydration, dysphagia, erythema multiforme, emphoria, furniculosis, gastritis, urnary frequency, urnary incontinence, urticaria, uterine hemorrhage, vaginal hemorrhage, vaginitis, vertigo, vestibular disorder, weight gain, weight loss.

Sussiculobulous rash.

DRUG ABUSE AND DEPENDENCE

Controlled Substance Class: LUNESTA is a Schedule IV controlled substance under the Controlled Substances Act. Other substances under the special substances and the nonbearcodiazepine hyporotics zalephon and zolpidem. While eszopidone is a hypnotic agent with a chemical structure unrelated to benzodiazepines, it shares some of the pharmacologic properties of the benzodiazepines.

eszopiclone is a hypnotic agent with a chemical structure unrelated to benzodiazepines, is shares some of the pharmacologic properties of the benzodiazepines.

Abusa. Dependence, and Tolerance

Abusa. Dependence: In a study of abuse liability conducted in individuals with known histories of benzodiazepine abuse, eszopiclone at doses of 6 and 12 mg produced euphoric 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 advarse events included in DSM-IV criteria for uncomplicated scatchievelynoprior windrawal were reported during clinical trials following placebo substitution occurring within 48 hours following the last LUNESTA treatment: anxiety, abnormal direams, nausea, and upset stormach. These reported advarse 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 ding 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 onzepnie-like agents may develop anter repeated use or inseed triggs for a few weeks. No development of follerance 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-day study, and by subjective assess-ments of time to sleep onset and WASO in a placebo-controlled study for 6 months.

OVERDOSAGE
There is limited premarketing clinical experience with the effects of an overdosage of LUNESTA. 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 fully recovered from racemic zopicione overdoses up to 340 mg (56 times the maximum recommended dose of eszopiclone).

in accordant intuin recentic zopicione overdoses up to 340 mg (56 times the maximum recommended dose of eszopicione).

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 come has been described. Rare individual instances of Ital outcomes following overdose with racemic zopicione have been reported in Europeen postmarketing reports, most often associated with overdose with other CNS-depressant 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. Flumazenll may be useful. As in all cases of drug overdose, respiration, pulse, blood pressure, and other appropriate signs should be monitored and treated by appropriate medical intervention. The value of dialysis in the treatment of overdosage has not been determined.

Poison Control Center: As with the management of all overdosage, the possibility of outlifely 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 lypnotic drug product overdosage.

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