CLINICAL CAPSULES

Ethnicity and Depression in Teen Girls

Depression scores among white girls and young women decrease over time, but the scores tend to hold steady among their African American counterparts, reported Debra L. Franko, Ph.D., of Northeastern University, Boston, and her associates.

Depression scores among white girls and young women tend to start off higher, and that might play a role in the findings.

Previous comparisons of depression scores in African American and white girls have shown either mixed results or higher scores among white girls at younger ages.

The investigators conducted an agematched study of 2,221 girls and young women aged 16-22 years, including 1,146 African Americans and 1,075 whites. The girls, participants in the 10-year longitudinal National Growth and Health Study, were asked to complete a packet of questionnaires, including the Center for Epidemiological Studies of Depression scale (CES-D) (J. Adolesc. Health 2005;37:526-9).

Adolescent depression was defined as a score of at least 24 on the CES-D.

Overall, as they got older, the percentage of white girls who met the criteria for depression fell, and the percentage of African American girls who met the criteria remained fairly steady. Specifically, 21% of 483 white 16-year-olds scored 24 or higher, compared with 14% of 332 white 22year-olds. Among African Americans, 14% of 469 16-year-olds scored 24 or higher, compared with 15% of 452 22-year-olds.

The researchers noted that age-specific risk factors—such as body dissatisfaction subsequent to pubertal development—are more common among white girls and could partly account for the results. Other factors, such as access to and use of mental health care, also could explain some of the differences.

Modafinil for ADHD

Modafinil film-coated tablets significantly improved clinical symptoms of attentiondeficit hyperactivity disorder in children and adolescents aged 6-17 years, said Dr. Joseph Biederman of Massachusetts General Hospital in Boston and his colleagues.

Modafinil, an agent generally prescribed to promote wakefulness in patients with narcolepsy, has been shown to activate the cortex alone.

In the randomized, double-blind trial conducted by Dr. Biederman and his colleagues, 164 children received a flexible dose of modafinil in tablet form, and 82 children received a placebo. The children began with one 85-mg tablet for the first 2 days; the dose was titrated to 170 mg on days 3-7, 255 mg on days 8-14, 340 mg on days 15-21, and 425 mg on day 22 (Pediatrics 2005;116:777-84).

After 9 weeks, 48% of patients in the modafinil group were deemed responders, compared with 17% of those in the placebo group. Overall, patients in the modafinil group demonstrated significant improvement in symptoms, including oppositional behavior, cognitive problems/inattention, hyperactivity, and the ADHD index on the Conners' Parent Rating Scale Revised, Short Form, compared with those in the placebo group.

Modafinil (Provigil) also was well tolerated. Only five of the patients in the treatment group (3%) and three in the placebo group (4%) discontinued the study because of adverse events. Given modafinil's safety profile and its low potential of abuse, the drug may offer clinicians a new option for treating ADHD in children and adolescents, the investigators said.

Teens' Perception of Body Weight

Many young teens from disadvantaged backgrounds do not perceive obesity as unacceptable, and despite common perceptions, not all of them are striving for thinness, reported Wendy Wills of the Centre for Research in Primary and Community Care, University of Hertfordshire, Hatfield, England.

In a qualitative study in eastern Scotland of 36 economically disadvantaged 13- to 14year-olds, half of the subjects were either overweight (body mass index greater than 25 kg/ m^2) or obese (BMI greater than 30). The subjects were evenly split among boys and girls (Soc. Sci. Med. 2006;62:396-406).

The overweight and obese teens had complex views of their weight and body size. Three-quarters of them talked positively about their weight, body size, or parts of their bodies, or expressed comfort with their bodies. A minority who were comfortable with their bodies also reported dissatisfaction with some parts of their bodies, and about half of these subjects wanted to lose weight or had already tried.

Half of the overweight and obese teens had tried to lose weight (as had three in the normal-weight group). These teens experienced an "emotional high" when they lost weight, and a deterioration in well-being when they failed. Only a minority of the subjects cited the health benefits of weight loss, even after expressing a desire to lose weight. Most of the subjects said that family and friends did not need to lose weight and should not feel pressured to do so.

-Heidi Splete with staff reports

LunestaTM (eszopiclone)© 1, 2 ANO 3 MG TABLETS

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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 illness 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/hypnotic 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, especially in the elderly (see DOSAGE AND ADMINISTARTION 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. Annesis and other neuropsychiatric symptoms and occur unpredictably. In primarily depressed patients, worsening of depression, including suicidal thinking, has been reported in association with the use of sedative/hypnotics.

twemypnotics. 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.

pertaivoral sign of 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 drugs (see BRUG ABUSE AND DEPENDENCE). LUNESTA, like other hypnotics, 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 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 CNS-depressant effects when coadministered with other psychotropic medications, anticonvulsants, antihistamines, ethanol, and other drugs that themselves produce CNS 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 potentially additive effects.

PRECAUTIONS

Timing Of 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 Elery And/Dr Debilitated Patients: Impaired motor and/or cognitive performance after repeated exposure or unusual sensitivity to sedative/hypontic drugs is a concern in the treatment of elderly and/or debilitated patients. The recommended 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 escopiclone in patients with concomitant illness is limited. Escopiclone should be used with caution in patients with diseases or conditions that could affect metabolism or hemodynamic

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 escopicione. 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, since less than 10% of escopicione is excreted unchanged in the urine.

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 CYP3A4, such as ketoconazole, while taking LUNESTA. Downward dose adjustment is also recommended when LUNESTA is administered with agents having known CNS-depressant effects.

Ves 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 least amount of drug that is feasible should be prescribed for the patient at any one time. Information For Patients: Patient information is printed in the complete prescribing information.

Laboratory Tests: There are no specific laboratory tests recommended.

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Ethanol. An additive effect on psychomotor performance was seen with coadministration 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 dally for 7 days produced no pharmacokinetic or pharmacodynamic interaction.

Lorazepam: Coadministration of single doses of eszopiclone 3 mg and lorazepam
2 mg did not have clinically relevant effects on the pharmacodynamics or pharmacokinetics of either drug.

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.

Olanzapine: Coadministration of eszopicione 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 CVP3A4 (Retoconazole): CYP3A4 is a major metabolic pathway for elimination of eszopicione. The AUC of eszopicione was increased 2.2-fold by coadministration of ketoconazole, a potent inhibitor of CVP3A4, AO mg daily for 5 days. Commistration of ketoconazole, a potent inhibitor of CVP3A4, AO mg daily for 5 days. Commistration of ketoconazole, clarithromycin, netazodone, troleandomycin, richoavir, nelfinavir) would be expected to behave similarly.

Drugs That Induce CYP3A4 (Ritampicin; Racemic zopicione exposure was decreased 80% by concomitant use of rifampicin, a potent inducer of CYP3A4. A similar effect would be expected with eszopicione.

Drugs Flighty Bound To Plasma Protein: Eszopicione is not highly bound to plasma proteins (52-59% bound); therefore, the disposition of eszopicione is not expected to be sensitive to alterations in protein binding. Administration of eszopicione 3 mg 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.

Drugs With A Narrow Therapeutic Index

Digoxin: A single dose of eszopicione 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.

Warfarin: Eszopicione 3 mg administered daily for 5 days did not affect the pharmacokinetics of (R) or (S) -varfarin, nor were there any changes in the pharmacokinetics of the day and protein profile (prothrombin time) following a single 25-mg oral dose of warfarin.

Carcinogenesis: In a carcinogenicity study in Sprague-Dawley rats in wh

Sprague-Dawley rats in which racemic zopicione was given in the diet, and in which plasma levels of eszopicione 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 males 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 hormones, 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 pulmonary 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 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 eszopicione at doses up to 100 mg/kg/day by oral gavage; 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 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 doses up to 300 mg/kg/day.

abertation assay and produced an equivocal response in the comiese nameser ovary cell chromosomal abertation 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.

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(S)-N-desmethyl zopicione, a metabolite of eszopicione, was positive in the Chinese harnster orany cell and human lymphocyte chromosomal aberration assays. It was negative in the bacterial Arnes mutation assay, in an in vitro "P-postlabeling DNA 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 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 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 increases in sperm number and motility and increases in morphologically abnormal sperm (no-effect dose 55 mg/kg).

Pregnancy

phologically abnormal sperm (no-effect dose 5 mg/kg).

Pregnancy
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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 wher LUNESTA is administered to a nursing woman.

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

have not been established.

Geratiric Use: A total of 287 subjects in double-blind, parallel-group, placebo-controlled clinical trials who received escopicione were 65 to 86 years of age. The overall pattern of adverse events for elderly subjects (median age = 17 years) in 2-weel studies with nighttime dosing of 2 mg escopicione was not different from that seer in younger adults. LUNESTA 2 mg exhibited significant reduction in sleep latency and improvement in sleep maintenance in the elderly population.

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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 265 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.

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 categories. In the tabulations 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, at least once, a treatment-emergent adverse event of the type listed. An event was considered treatment-emergent if in courred 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 a flag of 215 patients who received 2 mg LUNESTA, and 1.4% of 72 patients who received 1 mg LUNESTA discontinued treatment due to an adverse event. In the long-term 6-month study in adult insonnia patients, 7.2% of 195 patients who received greater than 2% of 593 patients who received 3 mg LUNESTA discontinued due to an adverse event. No event that resulted in discontinued or greater than 2% of 593 patients who received greater than 2% of 593 patients who received for greater than 2% of 593 patients who received for greater than 2% of 593 patients who received greater than 2% of 593 patients who received for greater than 2% of 593 patients who received greater than 2% or 593 patients who received

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

Adverse Events Observed at an Incidence of 2.2% 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-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 as greater than the incidence in placebo-treated patients freated with LUNESTA was greater than the incidence in placebo-treated patients freated with LUNESTA was greater than the incidence in placebo-treated patients (n=99).

Body as a whole: headache (13%, 21%, 17%), viral infection (1%, 3%, 3%), objective system; dry mount (3%, 5%, 7%, 9%), espensia (4%, 4%, 5%), nausa (4%, 5%, 4%), vomiting (1%, 3%, 0%). Nervous system: anxiety (0%, 3%, 1%), corresponding (0%, 4%, 4%), Uzioness (4%, 5%, 7%), hallucinations (0%, 4%, 4%), 5%, 6%), espensia (5%, 6%, 10%), skin and appendages, rash (1%, 3%, 4%). Special senses: unpleasant taste (3%, 17%, 34%), Lionential system; dysmenorrhea* (0%, 3%, 0%), gynecomastia** (0%, 3%, 0%). Gender-specific adverse event in females

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, myaliap, pain, pharyngits, and rhinitis. Adverse events that suggest a dose-response relationship in adults include viral infection, dry mouth, dizaness, hallucinations, infection, rash, and unpleasant taste, with this relationship clearest for unpleasant taste.

www.unis.reacuonsnip crearest for unpleasant taste.

The following lists the incidence (% placebo, 2 mg, 3 mg, respectively) of treatmentemergent 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 patients treated with LUNESTA was greater than the incidence in placebo-treated
patients. 1

patients.¹

<u>Body as whole:</u> accidental injury (1%, 0%, 3%), headache (14%, 15%, 13%), pain (2%, 4%, 5%). <u>Digestive system:</u> diarrhea (2%, 4%, 2%), dry mouth (2%, 3%, 7%), dyspepsia (2%, 6%, 2%). <u>Nervous system:</u> abnormal dreams (0%, 3%, 1%), dizziness (2%, 1%, 6%), nervousiness (1%, 0%, 2%), neuralgia (0%, 3%, 0%). <u>Shistostives</u> (1%, 4%, 1%). <u>Special senses;</u> unpleasant taste (0%, 8%, 12%). <u>Urogenital system:</u> urinary tract infection (0%, 3%, 0%).

*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.

listed, but included the following: abdominal pain, asthenia, nausea, rash, and somnolence.

Adverse events that suggest a dose-response relationship in elderly adults include and roughly and the passant 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 patent 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.

Other Events Observed During The Premarketing Evaluation OI 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 mydday during Phase 2 and 3 clinical trials throughout the United States and Canada. All reported events are included except those already listed here of 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 here were not necessarily caused by it on more owner occasions in

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 on one or more occasions in a least 171.00 patients, indrequent adverse events are those that occurred in fewer than 174.00 patients. Progressions are those that occurred in fewer than 174.00 patients, expendent adverse events are those that occurred in fewer than 174.000 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, arthritis, asthma, ataxia, breast engorgement, breast enlargement, breast enplasm, breast pain, bronchitis, bursilis, cellulitis, colletihissis, conjunctivitis, contact dermatitis, cystitis, dry eyes, dry skin, dyspnea, dysuria, eczema, ear pain, emotional lability, epistaxis, face edema, female lactation, fever, haltiosis, heat stroke hematuria, hernia, hiccup, hostility, hypercholestermia, hypertension, hypertonia, hypesthesia, incoordination, increased appette, incommia, joint disorder (mainly swelling, stiffness, and pain), kidney calculus, kidney pain, laryngitis, leg cramps, lymphadenopathy, malakse, mastitis, melena, memory impairment, menorrhagia, enterorrhagia, mouth ulceration, myasthenia, neck rigidity, neurosis, nystagmus, offitis externa, otitis media, paresthesia, photosensitivity, reflexes decreased, skit, ulcerative stomatitis, uninary frequency, urinary incontinence, urularary incordinence, urularary incordinence, euphoria, furunculosis, gastritis, gout, hepatitis, hepatomegaly, herpes zoster, infirsutism, hyperacusis, hyperesthesia, hyperilemia, hypokalemia, hypokhiensia, iritis, liver damage, maculopapular rash, mydrasis, myopathy, neuritis, neuropathy, coliquia, photophobia, ptosis, pyelonephritis,

eszopicione is a hypnotic agent with a chemical structure unrelated to benzodiazepines. azepines, it shares some of the pharmacologic properties of the benzodiazepines. Abuse and Dependence: na a study of abuse liability conducted in individuals with known histories of benzodiazepine abuse, eszopicione 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 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-11 criteria for uncomplicated seafative/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 enzodiazepines 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.

**Tolleance: Some loss of efficacy to the hypnotic effect of benzodiazepines and benzodiazepines and benzodiazepine site. **Lorenze between the receiving LUNESTA or arroy of the hypnotic effect of benzodiazepines and benzodiazepines the benzodiazepine and benzodiazepines the benzodiazepine to the event of sleep measurement was observed.

No development of tolerance to any parameter of sleep measurement was observed over six months. Tolerance to the efficacy of LUNESTA 3 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.

DVERDOSAGE

There is limited premarketing clinical experience with the effects of an overdosage of LUNESTA. In clinical trials with escopicione, one case of overdose with up to 36 mg of escopicione was reported in which the subject fully recovered. Individuals have fully recovered from racemic zopicione overdoses up to 34 mg (56 times the maximum recommended dose of escopicione). Signs And Symptoms: 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 racemic zopicione have been reported in European postmarketing reports, most often associated with overdose with other CNS-depressant agents.

oren associated with overroose 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. 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 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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