FDA Seeks to Increase Fees for Drug Makers

BY ALICIA AULT Associate Editor, Practice Trends

he Food and Drug Administration has proposed greatly increasing the fees its drug division collects from pharmaceutical manufacturers, saying that current fees collected under the Prescription Drug User Fee Act have not kept pace with inflation or the agency's growing workload.

Most of the additional money would be

INDICATIONS AND USAGE LUNESTA's 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 remuli tafer 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 a unnecognized psy-chiatric or physical disorder. Such findings have emerged during the course of treat-ment with sedative/hyponic drugs, including LUNESTA. Because some of the impor-tant adverse effects of LUNESTA appear to be dose-related, it is important to use the lowest possible effective dose, sepecially in the elderly (see DOSAGE AND ADMINIS-TRATION in the Full Prescribing Information).

TRATION 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/hynotics. Some of these changes may be char-acterized by decreased inhibition (e.g., aggressiveness and extroversion that seem out of character), similar to effects produced by alcohol and other CNS depressants. Other reported behavioral changes have included bizarre behavior, agitation, halluci-nations, and depersonalization. Annesia and other neuropsychiatric symptoms may occur unpredictably. In primarily depressed patients, worsening of depression, including suicidal thinking, has been reported in association with the use of seda-tive/hynotics.

twemprouses. It can rarely be determined with certainty whether a particular instance of the abnor-mal behaviors listed above are drug-induced, spontaneous in origin, or a result of an underlying psychiatric or physical disorder. Nonetheless, the emergence of any new behavioral sign or symptom of concern requires careful and 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).

LUNCS, and near open reports using and symptoms similar to those associated with withdrawal from other CNS-depressant drugs (see BPUG ABUSE AND DEFENDENCE). LUNESTA, like other hyponotics, has CNS-depressant effects. Because of the rapid onset of action, LUNESTA should only be ingested immediately prior to going to bed or after the patient has gone to bed and has experienced difficulty failing askep. 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 adjust potential impairment of the performance or 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 is administered with other CNS-depressant agents, because of the potentially additive effects.
PRECAUTIONS

General 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. hallourinations, impaired coordination, dizziness, and lightheadedness. Use In The Elderly And/Or Dehilitated Patients: Impaired motor and/or cognitive performance after repeade exposure or unusual sensitivity to sedative/hypnotic drugs is a concern in the treatment of elderly and/or dehilitated patients. The recom-mended starting does of LUNESTA for these patients is 1 mg (see DOSAGE AND ADMINISTRATION in the Full Prescripting Information).

Use In Patients With Concomitant Illness: Clinical experience with eszopiclone in patients with concomitant liness is limited. Eszopiclone 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 does A study in healthy volunteers did not reveal respiratory-depressant effects at does 2.5-lotd higher (7 mg) than the recommended does of escopicione. Caution is advised, however, if LUNESTA should be reduced to 1 mg in patients with severe headuc impairment, because systemic exposure is doubled in such subjects. No does adjust-ment appears necessary for subjects with mild or moderate hepatic impairment. does adjustment appears necessary in subjects with any degree of renal impairment, since less than 10% of escopicione is excreted unchanged in the unite. The doss of LUNESTA should be reduced to patients who are administered potent inhibitors of CYP3A4, such as ketoconazole, while taking LUNESTA. Downward does adjustment is also recommended when LUNESTA is administered with agents hav-ing known CNS-depressant effects.

ing known CNS-depressant effects. Use In Patients With Depression: Sedative/hypnotic drugs should be administered with caution to patients exhibiting signs and symptoms of depression. Suicidal ten-dencies may be present in such patients, and 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. Patients: Patient information is printed in the complete prescribing information.

Ethanok ha additive effect on psychomotor performance was seen with coadministra-tion of escopicione and ethanol 0.70 g/kg for up to 4 hours after ethanol administration. *Parovetine:* Coadministration or single doses of escopicione 3 mg and parovetine 20 mg daily for 7 days produced no pharmacokinetic or pharmacodynamic interaction.

Lorazepam: Coadministration of single doses of eszopicione 3 mg and lorazepam mg did not have clinically relevant effects on the pharmacodynamics or pharmaco-inetics of either drug.

Lorazepam: Coadministration of single doses of escopicione 3 mg and lorazepam 2 mg did not have clinically relevant effects on the pharmacodynamics or pharmaco-kinetics of either drug. *Olanzapine*: Coadministration of escopicione 3 mg and olanzapine 10 mg produced a decrease in DSST scores. The interaction was pharmacodynamic; there was no aller-ation in the pharmacokinetics of either drug. *Drugs That inhibit CVP3A4 (Ketoconazole)*: CVP3A4 is a major metabolic pathway for eliministration of escopicione. The AUC of escopicione was increased 2.2-fold by coad-ministration of ketoconazole, a potent inhibitor of CVP3A4. Ad 00 mg daily for 5 days. C_{mm} and t₁₀, were increased 1.4-fold and 1.3-fold, respectively. Other strong inhibitor of CVP3A4 (e.g., itaconazole, clarithromycin, nefazodone, troleandomycin, intonavir, nefinavir) would be expected to behave similarly. *Drugs That Induce CVP3A4 (Rifiampicin)*: Racemic zopicione exposure was decreased 80% by concomitant use of rifampicin, a potent inducer of CVP3A4. A similar effect would be expected with escopicione.

Laboratory Tests: There are no specific laboratory tests recommended

Drug Interactions

Lunesta (eszopicione)@ 1, 2 AND 3 MG TABLETS

BRIFF SUMMARY

CONTRAINDICATIONS

used to upgrade the agency's postmarketing drug safety monitoring. The FDA also is proposing to create a separate program to collect fees from companies that want their direct-to-consumer television ads reviewed by the agency.

The FDA published its proposals in the Jan. 11 Federal Register and will collect comments on them at a public meeting on Feb. 16. The final proposal will be sent to Congress later this year, said Jane Axelrad, associate director for policy at the Center

for Drug Evaluation and Research (CDER), in a teleconference sponsored by the FDA.

Time is of the essence, as PDUFA—first established in 1992 and reauthorized in 5year increments—is due to expire on Sept. 30, 2007.

Under PDUFA, the FDA charges prescription drug makers a set fee to review the safety and efficacy of products submitted under a new drug application. In return, the agency has to meet deadlines for review and approval.

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 adenocarcinomas in females and an increase in thyroid gland follicular cell adenomas and carcinomas in females and an increase in thyroid gland follicular cell adenomas and carcinomas in reactions and the highest does of 100 mg/kg/day. Plasma levels of eszopiclone at this does are estimated to be 150 (females) and 70 (males) times those in humans receiving the MRHo. 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 escopicione as given lin the diet, an increase in planomary carcinomas and carcinomas plus adenomas in females and an increase in skin fibromas and sarcomas in males were seen at the highest disce of 100 mg/kg/day. Plasma levels of eszopiclone at splus adenomas in that is not relevant to humans. A carcinogenicity study was also performed in which relevant to the advert given scale advertise adverti

12 times the exposure in the racemate study. Escopicione did not increase tumors in a p53 transgenic mouse bioassay at oral doses up to 300 mg/kg/day. *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 synthesia sasay, or in an *in vivo* mouse bone marrow micronucleus assay.

(S)-N-desmethyl zopicione, a metabolite of eszopicione, was positive in the Chinese and 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 lymphorge chromosomal aberration assays. It was negative in the bacterial Ames mutation assay, in an *in vitro* "P-postlabeling DNA adduct assay, and in an *in vivo* mouse bone marrow chromosomal aberration assay.
Impairment OI 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 weer treated, up to 30 mg/kg/day. Eszopicione decreased fertility, probably because of effects in both males and females, with no females becoming pregnant when both males as 5 mg/kg (16 times the MRHD on a mg/m² basis). Other effects included increased preimiplantiation loss (no-effect dose 25 mg/kg), and decreases in sperm number and motility and increases in morphologically abormal sperm (no-effect dose 5 mg/kg).
Pregnancy

Pregnancy Pregnancy Category C: Eszopicione administered by oral gavage t Pregnancy Zategory C: Escopicione administered by oral gavage to pregnant rats and rabbits during the period of organogenesis showed no evidence of teratogenicity up to the highest doess tested (250 and 16 mg/kg/dyl in rats and rabbits, respectively; these doess are 800 and 100 times, respectively, the maximum recommended human dose [MRHD] on a mg/m² basis). In the rat, slight reductions in fetal weight and evidence of developmental delay were seen at maternally toxic doess of 125 and 150 mg/kg/day, but not at 62.5 mg/day (200 times the MRHD on a mg/m² basis). Escopicione was also administered by oral gavage to pregnant rats throughout the pregnancy and lactation periods at doese of up to 180 mg/kg/day. Increased pop-times the MRHD on a mg/m² basis. These doess did not produce significant mater-nal toxicity. Escopicione had no effects on other behavioral measures or reproductive function in the offspring. There are no adequate and well-controlled studies of escopiclone in pregnant women. Escopicione 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.

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 eszopiclone in children below the age of 18 have not been established.

have not been established. *Geriatric Use:* A total of 287 subjects in double-blind, parallel-group, placebo-con-trolled clinical trials who received escopicione were 65 to 66 years of age. The over-al pattern of adverse events for defary subjects (median age = 71 years) in 2-week studies with nightlime dosing of 2 mg escopicione was not different from that seen in younger adults. LUNESTA z mg exhibited significant reduction in sleep latency and ingrovement in sleep maintenance in the elderly population.

ADVERSE REACTIONS The premarketing development program for LUNESTA included eszopiclone exposurse in patients and/or normal subjects from two different groups of studies: approximately 400 normal subjects in clinical pharmacology/pharmacokinetic studies, and approximately 250 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 EGSs. Adverse events during encourse were defined examinations.

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 frepresent. 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 experiencing adverse events represent the proportion of individuals who experienced, adverse events represent the proportion of individuals who experienced, at least once, a treatment-emergent if it occurred for the first time or worsened while the patient was receiving therapy following baseline evaluation. **Adverse Fundings Observed in Pleaceb-Controlled Trial Adverse Fundings Observed in Pleaceb Controlled Trial Adverse Fundings Observed ad Adverse Fundings Adverse Fundings Adverse Fundings Adverse Fun** Gender-specific adverse event in females *Gender-specific adverse event in males

¹Events for which the LUNESTA incidence was equal to or less than placebo are not listed, but included the following: abnormal dreams, accidential injury, back pain, diarrhea, flu syndrome, myalgia, pain, pharyngits, and rhinitis. Adverse events that suggest a dose-response relationship in adults include viral infection, dry mouth, dizzness, hallucinations, infection, rash, and unpleasant taste, with this relationship clearest for unpleasant taste. The following lists the incidence (% placebo, 2 mg, 3 mg, respectively) of treatment-emergent adverse events from combined Phase 3 placebo-controlled studies of LUNESTA at doses of 1 or 2 mg in elderly adults (ages 65-66). Treatment duration in these trails was 14 days. Data are limited to events that occurred in 2% or more of patients treated with LUNESTA 1 mg (n-27) or 2 mg (n-215) in which the incidence in patients treated with LUNESTA was greater than the incidence in placebo-treated patients.

patients.¹ Body as a whole: accidental injury (1%, 0%, 3%), headache (14%, 15%, 13%), pain (2%, 4%, 5%). <u>Digestive system</u>: diarthea (2%, 4%, 5%), div dyspepsia (2%, 6%, 2%), <u>Mervous system</u>: abnormal dreams (0%, 3%, 1%), <u>diza-</u> ness (2%, 1%, 6%), <u>nervosises (1%, 0%, 2%)</u>, <u>oneuraja (0%), 3%, 0%), <u>Siki and</u> <u>appendages</u>: pruritus: (1%, 4%, 1%). <u>Special senses</u>: unpleasant taste (0%, 8%, 12%). <u>Urogenital system</u>: urinary tract infection (0%, 3%, 0%). <u>Tevents 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.</u></u>

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 jagain clarest 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 clieft frequencies cannot be compared with figures obtained from other clinical inves-tigations involving different treatments, uses, and investigators. The cited figures, however, do provide the prescribing physician with some basis for estimating the relative contributions of drug and non-drug factors to the adverse event incidence rate in the population studied. **Other Events Observed During The Premarketing Evaluation Of LUNESTA.** Following is a list of modified COSTART terms that reflect treatment-emergent adverse events a defined in the introduction to the **ADVERSE REACTIONS** section and reported by approximately 1550 subjects treated with LUNESTA at doess in the or listed elsewhere in labeling, minor events common in the general population, and events unlikely to be drug-related. Although the events reported occurred during treatment with LUNESTA, they were not necessarily caused by it. Events are listed in order of decreasing frequency according to the following defini-tions: **frequence** adverses events are those bhat occurred on one rome 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 itself in order of decreasing frequency according to the following definitions: frequent adverse events are those that occurred on one or more occasions in least 1/100 patients; infrequent adverse events are those that occurred in fewer than 1/1000 patients; for events are those that occurred on their incidence for the appropriate gender. Frequent: chest pain, migraine, peripheral edema. Infrequent: ace, agitation, altergic reaction, alopecia, amenorrhea, anemia, anorexia, anoptas, article ace decreased for alopecia, amenorrhea, anemia, anorexia, anoptas, article, and the active for alopecia, amenorrhea, anemia, anorexia, montonal tability, epistaxis, for evest, y skin, dyspnea, dysuria, eczema, ear pain, montonal tability, epistaxis, area edema, femela leatation, fever, haltiosis, heat stroke, mentional tability, epistaxis, area edema, femela leatation, fever, haltiosis, heat stroke, mentional tability, epistaxis, area edema, femela leatation, fever, haltiosis, heat stroke, mentional tability, epistaxis, melena, menory impairment, menorrhagi, synthesena, and tability, and the concessit, applete insomna, joint disorder (mainly swelling, stiffness, and pain), kidney calculus, kidney pain, laryngitis, leg cramps, ymphadenopathy, malaise, mastitis, uneary frequency unrisk, neglaxis, mustitis, tuntary incontinience, vaginitis, vertigo, vestibular discolaritis, weight oscientis, bystatikis, adverse, vaginitis, vertigo, vestibular discolaritis, kergeresse, vaginitis, vertigo, vestibular discolaritis, weight oscientis, bystatmis, eckal henoritaga, target paintis, settibular vestibular discolaritis, hereardis, specience/hine, hereardis, postatis, unrary frequency unrisk, networks, netw

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 benzodiazepines and the nonbenzodiazepine hypototics zalepion and zolpidem. While eszopicione is a hypotic agent with a chemical structure unrelated to benzodi-zepines, it shares some of the pharmacologic properties of the benzodiazepines.

escopicione is a hyponic agent with a chemical structure unretated to percon-azprines, it shares some of the pharmacologic properties of the benzodiazepines. *Abuse, Dependence, and Tolerance Abuse and Dependence:* In a study of abuse liability conducted in individuals with horwn histories of benzodiazpine abuse, escopicione at doses of 6 and 12 mg pro-duced euploric effects similar to those of diazepam 20 mg. In this study, at doses 2-loid 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--U riteria for uncomplicated sedative/hyponici withdrawal were reported during clinical trials following placebo substitution occurring within 48 hours following the last LUNESTA treatment: anxiety, abormal dreams, nausea, and upset stomach. These reported adverse events occurred at an incidence of 2% or less. Use of theractional 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 Tunerance to the appropriate of sleep measurement was observed of avery invertes. Tunerance to the efficacy of 11 MISSTA 3 m was assessed) by 4-week

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 tranace 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. OVERDOSAGE

DVERDOSACE OVERDOSACE There is limited premarketing clinical experience with the effects of an overdosage of UNESTA 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 340 mg (56 times the maximum recommended dose of escopicione). 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 often associated with overdose with other CNS-depressant agents.

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. 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.

Value to utarys in the relating to verticisage has not been determined. Poison Control Center: As with the management of all overdosage, the possibility multiple drug ingestion should be considered. The physician may wish to conside contacting a poison control center for up-to-date information on the management of hyportic drug product overdosage.

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The law has helped the FDA to reduce review times and increase its postmarketing oversight, said Dr. Steven K. Galson, CDER director, during the teleconference.

Under the new proposal, FDA seeks to collect \$393 million annually, \$87 million more than it currently takes in each year. Drug user fees account for about half of CDER's budget, said Dr. Galson, adding that he could not say whether that would hold true going forward, since the agency has not yet received its appropriation for fiscal 2007 or a budget for fiscal 2008.

However, Ms. Axelrad said that drug user fees represent an increasing proportion of CDER's budget.

Public Citizen's Health Research Group criticized that trend, saying that the agency should not receive so much of its funding from the industry it regulates.

The FDA's crucial drug regulatory functions are too important to be tainted and compromised by direct funding from the very companies whose drugs the agency reviews for safety," said Dr. Sidney Wolfe, director of the advocacy group, in a statement.

The biotechnology and pharmaceutical industries praised the FDA proposal. "The PDUFA recommendations announced today ... will help enhance and improve drug safety while providing resources to continue to enable efficient and comprehensive review of new drugs," said Jim Greenwood, president and CEO of the Biotechnology Industry Organization, in a statement.

The largest portion of the increase, \$29 million, would be devoted to postmarketing safety. With those funds, the agency said it could hire 82 new employees and acquire the best tools for improving detection and analysis of safety signals. The agency also will institute new programs to reduce medication errors, in response to an Institute of Medicine report issued in September 2006 calling for drug safety improvements at the agency.

Some \$20 million would go to cover past expenses incurred to facilitate drug makers' requests for formal meetings about their products. Sheila Mullin, FDA assistant commissioner for planning, said that in fiscal 2005, the agency held 1,800 formal meetings at manufacturers' request.

About \$4 million would be devoted to the goal of moving to "an all-electronic environment," according to the FDA proposal.

"Reviewing data electronically helps to improve the efficiency of the drug approval process and expedites getting important new drugs to the patients who need them," said Billy Tauzin, president and CEO of the Pharmaceutical Research and Manufacturers of America, in a statement.

FDA is proposing to create a new user fee program to fund the review of direct-toconsumer television ads. Currently, companies can voluntarily submit ads for review, but the FDA has not been able to keep up with the growing workload, Dr. Galson said. The FDA anticipates charging \$6 million in the first year of the program, which would subsidize the hiring of 27 new employees. Another \$6 million would be collected for a reserve fund, to cope with increases in volume of advertisements.