

Liver Disease—In a multiple-dose study of patients with liver cirrhosis, the AUC values for nefazodone and HO-NEF at steady

Bristol-Myers Squibb Company

SERZONE[®] (nefazodone hvdrochloride)

Tablets

(Patient Information Included)

efore prescribing SERZONE, the physician should be thoroughly familiar with the details of this prescribing information.

WARNING Cases of life-threatening hepatic failure have been reported in patients treated with SERZONE. The reported rate in the United States is about 1 case of liver failure resulting in death or transplant per 250,000-300,000 patient-years of SERZONE treatment. The total patient-years is a summation of each patient's duration of exposure expressed in years. For example, 1 patient-year is equal to 2 patients each treated for 6 months, 3 patients each treated for 4 months, etc. (See WARNINGS.) Ordinarily, treatment with SERZONE should not be initiated in individuals with active liver disease or with elevated baseline serum transaminases. There is no evidence that pre-existing liver disease increases the like-lihood of developing liver failure, however, baseline abnormalities can complicate patient monitoring. Patients should be advised to be alert for signs and symptoms of liver dysfunction (Jaundice, anorexia, gas-trointestinal complaints, malaise, etc) and to report them to their doctor immediately if they occur. SERZONE should be discontinued if clinical signs or symptoms suggest liver failure (see PRECAUTIONS: Information for Patients). Patients who develop evidence of hepatocellular injury such as increased serum AST or serum ALT levels =3 times the upper limit of NORMAL, while on SERZONE should be withdrawn from the drug. These patients should be a tincreased risk for liver injury if SERZONE is reintroduced. Irug. These patients should be presumed to be at increased risk for liver injury if SERZONE is reint Accordingly, such patients should not be considered for re-treatment.

DESCRIPTION

SEBZONE® (nefazodone hydrochloride) is an antideoressant for oral administration with a chemical structure unrelated to SERZ/WIE⁶⁰ (netrazodone hydrochioride) is an antidepressant for oral administration with a chemical structure unrelated to selective serotonin reuptake inhibitors; (MAOI). Nefazodone hydrochioride is a synthetically derived phenylpiperazine antidepressant. The chemical name for nefazodone hydrochioride is 2-[3-[4-(3-chlorophenyl)-1-piperazinyl]propyl]-5-ethyl-2,4-dihydro-4-(2-phenoxyethyl)-3H-1,2,4-triazol-3-one monohydrochioride is C₁₅H₃₂ClN₅O₂ • HCl, which corresponds to a molecular weight of 506.5. The structural formula is:

Nefazodone hydrochloride is a nonhygroscopic, white crystalline solid. It is freely soluble in chloroform, soluble in propylene glycol, and slightly soluble in polyethylene glycol and water. SERZONE is supplied as hexagonal tablets containing 50 mg, 100 mg, 150 mg, 200 mg, or 250 mg of nefazodone hydrochloride and the following inactive ingredients: microcrystalline cellulose, povidone, sodium starch glycolate, colloidal silicon dioxide, magnesium stearate, and iron oxides (red and/or yellow) as colorants.

CLINICAL PHARMACOLOGY

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The mechanism of action of herazodone, as with other antidepressants, is unknown. Preclinical studies have shown that herazodone inhibits neuronal uptake of servotonin and norepinephrine. Nefazodone occupies central 5-HT₂ receptors at nanomolar concentrations, and acts as an antagonist at this receptor. Nefazodone was shown to antagonize alpha₁-adrenergic receptors, a property which may be associated with postural hypotension. In *vitro* binding studies showed that nefazodone had no significant affinity for the following receptors: alpha₂ and beta adrenergic, 5-HT_{1A}, cholinergic, dopaminergic, or benzodiazepine.

Pharmacokinetics Nefazodone hydrochloride is rapidly and completely absorbed but is subject to extensive metabolism, so that its absolute

bioavailability slow, about 20%, and variable. Peak plasma concentrations occur at about one nour and the namine on nefazodone is 2–4 hours. Both nefazodone and its pharmacologically similar metabolite, hydroxynefazodone, exhibit nonlinear kinetics for both dose and time, with AUC and C_{max} increasing more than proportionally with dose increases and more than expected upon multiple dosing over time, compared to single dosing. For example, in a multiple-dose study involving BID dosing with 50, 100, and 200 mg, the AUC for nefazodone and hydroxynefazodone increased by about 4-fold with an increase in dose from 200 to 400 mg per day: C_{max} increased by about 3-fold with the same dose increase. In a multiple-dose study involving BID dosing with 25, 50, 100, and 150 mg, the accumulation ratios for nefazodone and hydroxynefazodone AUC, after 5 days of BID dosing relative to the first dose, ranged from approximately 3 to 4 at the lower doses (50–100 mg/day) and from 5 to 7 at the higher doses (200–300 mg/day); there were also approximately 3 to 4 at the lower doses (50–100 mg/day) and from 5 to 7 at the higher doses (200–300 mg/day); there were also approximately 2 to 4 -fold increases in C_{max} after 5 days of BID dosing relative to the first dose, suggesting extensive and greater than predicted accumulation of nefazodone and its hydroxy metabolite with multiple dosing or upon dose increase or decrease. Nefazodone is extensively metabolized after oral administration by n-dealkylation and aliphatic and aromatic hydroxylation, and less than 1% of administered nefazodone is excreted unchanged in urine. Attempts to characterize three metabolites fazodone is 2-4 hour

Netazooone is extensively metaoolized after oral administration by n-dealkylation and aupmatic and aromatic hydroxylation, and less than 1% of administered nefazodone is excreted unchanged in urine. Attempts to characterize three metabolites identified in plasma, hydroxynefazodone (HO-NEF), meta-chlorophenylpiperazine (mOPP), and a triazole-dione metabolite, have been carried out. The AUC (expressed as a multiple of the AUC for nefazodone dosed at 100 mg BID) and elimination half-lives

AUC Multiples and Ty $_2$ for Three Metabolites of Nefazodone (100 mg BID) $_{\rm L}$			
Metabolite	AUC Multiple	T1/2	
HO-NEF	0.4	1.5–4 h	
mCPP	0.07	4–8 h	
Triazole-dione	4.0	18 h	

40-NEF possesses a pharmacological profile qualitatively and quantitatively similar to that of nefazodone. mCPP has some similarities to nefazodone, but also has agonist activity at some serotonergic receptor subtypes. The pharmacological profile of the triazole-dione metabolite has not yet been well characterized. In addition to the above compounds, several other

of the triazole-dione metabolite has not yet been well characterized. In addition to the above compounds, several other metabolites were present in plasma but have not been tested for pharmacological activity. After oral administration of radiolabelled nefazodone, the mean half-life of total label ranged between 11 and 24 hours. Approximately 55% of the administered radioactivity was detected in urine and about 20–30% in feces. *Distribution*—Nefazodone is widely distributed in body tissues, including the central nervous system (CNS). In humans the volume of distribution of nefazodone ranges from 0.22 to 0.87 L/kg. *Protein Binding*—At concentrations of 25–2500 ng/mL nefazodone is extensively (>99%) bound to human plasma proteins in vitro. The administration of 200 mg BiD of nefazodone for 1 week did not increase the fraction of unbound warfarin in subjects whose prothrombin times had been prolonged by warfarin therapy to 120-150% of the laboratory control (see **PRECAUTIONS: Drug Interactions**). While nefazodone did not alter the *in vitro* protein binding of chlorpromazine, designamine, diazepam, diphenylhydantoin, lidocaine, prazosin, propranolol, or verapamil, it is unknown whether displacement of either nefazodone or these drugs occurs *in vivo*. There was a 5% decrease in the protein binding of haloperidol; this is probably of no clinical significance. o clinical significance. Effect of Food—Food delays the absorption of nefazodone and decreases the bioavailability of nefazodone by approximately 20%.

Renal Disease—In studies involving 29 renally impaired patients, renal impairment (creatinine clearances ranging from to 60 mL/min/1.73m²) had no effect on steady-state nefazodone plasma concentrations.



Live Disease—in a finitiple-uses study of patents with refer taritists, in the AdV states in inerazoune and no-rice at steady state were approximately 25% greater than those observed in normal volunteers. Age/Gender Effects—After single doses of 300 mg to younger (18-45 years) and older patients (>65 years), c_{max} and AUC for nefazoune and hydroxynefazodone were up to twice as high in the older patients. With multiple doses, however, differences were much smaller, 10-20%. A similar result was seen for gender, with a higher C_{max} and AUC in women after single doses but no difference after multiple doses. Treatment with SERZONE should be initiated at half the usual dose in elderly patients, especially women (see **DOSAGE AND**

ADMINISTRATION), but the therapeutic dose range is similar in younger and older patient

Clinical Efficacy Trial Results Studies in Outpatients with Depression

During its premarketing development, the efficacy of SERZONE was evaluated at doses within the therapeutic range in five well-controlled, short-term (6–8 weeks) clinical investigations. These trials enrolled outpatients meeting DSM-III or DSM-IIIR criteria for major depression. Among these trials, two demonstrated the effectiveness of SERZONE, and two provided additional support for that conclusion.

Clinical Worsening and Suicide Risk Patients with major depressive disorder, both adult and pediatric, may experience worsening of their depression and/or the emergence of suicidal ideation and behavior (suicidality), whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. Although there has been a long-standing concern that antidepres-sants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients, a causal role for antidepressants in inducing such behaviors has not been established. Nevertheless, patients being treated with One trial was a 6-week dose-titration study comparing SERZONE in two dose ranges (up to 300 mg/day and up to 600 mg/day an modal dose for this group was about 400 mo/davi, on a BID schedule) and placebo. The second trial was an 8-week dos Tritration study comparing SERZONE (up to 600 mg/day), orna bud school and placebo tritration study comparing SERZONE (up to 600 mg/day), mean modal dose was 375 mg/day), imipramine (up to 300 mg/day), and placebo, all on a BID schedule. Both studies demonstrated SERZONE, at doses titrated between 300 mg to 600 mg/day (hera-peutic dose range), to be superior to placebo on at least three of the following four measures: 17-18em Hamilton Depression Rating Scale or HDRS (total score), Hamilton Depressed Mood item, Clinical Global Impressions (GGI) Severity score, and CGI antidepressants should be observed closely for clinical worsening and suicidality, especially at the beginning of course of drug therapy, or at the time of dose changes, either increases or decreases. Consideration should be given t course of drug therapy, or at the time of dose changes, either increases or decreases. Consideration should be given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persis-tently worse or whose emergent suicidility is severe, abrupt in onset, or was not part of the patient's presenting symptoms. Because of the possibility of co-morbidity between major depressive disorder and other psychiatric and nonpsychiatric disorders, the same precautions observed when treating patients with major depressive disorder should be observed when treating patients with other psychiatric and nonpsychiatric disorders. The following symptoms, anxiety, agitation, panic attacks, insomnia, irritability, hostility (aggressiveness), impulsivity, akathisia (psychomotor restlessness), hypomania, and mania, have been reported in adult and pediatric patients being treated with antidepressants for major depressive disorder as well as for other indications, both psychiatric and nonpsy-chiatric. Although a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of suicidal impulses has not been established, consideration should be given to changing the therapeutic regimen, including possibly discontinuing the medication in patients for whom such symptoms are severe, abrupt in onset, or were not part of the patient's presenting symptoms. **Families and caregivers of patients being treated with antidepressants for major depressive disorder or other indi-**Rating Scale or HDRS (total score), Hamilton Depressed Mood item, Clinical Giobal Impressions (CGI) Severity score, and CGI Improvement score. Significant differences were also found for certain factors of the HDRS (eg, axiety factor, sleep disturbance factor, and retardation factor). In the two supportive studies, SER2ONE was titrated up to 500 or 600 mg/da/ (mean modal doses of 462 mg/day and 363 mg/day). In the fifth study, the differentiation in response rates between SERZONE and placebo was not statistically significant. Three additional trials were conducted using subtherapeutic doses of SERZONE. Overall, approximately two thirds of patients in these trials were women, and an analysis of the effects of gender on outcome did not suggest any differential responsiveness on the basis of sex. There were too few elderly patients in these trials to reveal possible age-related differences in response. Since its initial marketing as an antidepressant drug product, additional clinical investigations of SERZONE have been conducted. These studies explored SERZONEs use under conditions not evaluated fully at the time initial marketing approval was granted. Studies in "Impactioned"

regiment, including possibly discontinuing the interactation in patients for which such symptoms are severe, abright in offset, or were not part of the patient's presenting symptoms. Families and caregivers of patients being treated with antidepressants for major depressive disorder or other indi-cations, both psychiatric and nonpsychiatric, should be alerted about the need to monitor patients for the emergence of agitation, irritability, and the other symptoms described above, as well as the emergence of suicidality, and to report such symptoms immediately to health care providers. Prescriptions for SER20NE should be written for the smallest quan-tity of capsules consistent with good patient management, in order to reduce the risk of overdose. It should be noted that SER20NE is not approved for use in treating any indications in the pediatric population. A major depressive episode may be the initial presentation of bipolar disorder. It is generally believed (though not estab-lished in controlled trials) that treating such an episode with an antidepressant alone may increase the likelihood of precip-tation of a mixed/manic episode in patients at risk for bipolar disorder. Whether any of the symptoms described above represent such a conversion is unknown. However, prior to initiating treatment with an antidepressant, patients should be adequately screened to determine if they are at risk for bipolar disorder, such screening should include a detailed psychi-atric history, including a family history of suicide, bipolar disorder, and depression. It should be noted that SER20NE is not approved for use in treating bipolar deression. Studies in "Inpatients" Two studies were conducted to evaluate SERZONE's effectiveness in hospitalized depressed patients. These were 6-week, SERZONE was two studies were conducted to evaluate SERZONE's effectiveness in nospitalized depressed patients. These were 6-week, dose-titration trials comparing SERZONE (up to 600 mg/day) and placebo, on a BID schedule. In one study, SERZONE was superior to placebo. In this study, the mean modal dose of SERZONE was 503 mg/day, and 85% of these inpatients were melancholic; at baseline, patients were distributed at the higher end of the 7-point CGI Severity scale, as follows: 4-moder-ately ill (17%); 5=markedly ill (48%); 6=severely ill (32%). In the other study, the differentiation in response rates between SERZONE and placebo was not statistically significant. This result may be explained by the "high" rate of spontaneous improvement among the patients randomized to placebo. *Pregnancy* Patients should be advised to notify their physician if they become pregnant or intend to become pregnant during therapy Nursing Patients should be advised to notify their physician if they are breast-feeding an infant (see **PRECAUTIONS**: Nursing Mothers). Concomitant Medication Concomitant medication Patients should be advised to inform their physicians if they are taking, or plan to take, any prescription or over-the-counter drugs,

Improvement among the patients randomized to placebo. Studies of "Relapse Prevention in Patients Recently Recovered (Clinically) from Depression" Two studies were conducted to assess SER2ONE's capacity to maintain a clinical remission in acutely depressed patients who were judged to have responded adequately (HDRS total score ≤10) after a 16-week period of open treatment with SER2ONE (tiration up to 600 mg/day). In one study, SER2ONE was superior to placebo. In this study, patients (n=131) were randomized to continuation on SER2ONE or placebo for an additional 36 weeks (1 year total). This study demonstrated a significantly lower relapse rate (HDRS total score ≥18) for patients taking SER2ONE compared to those on placebo. The second study was of appropriate design and power, but the sample of patients admitted for evaluation did not suffer relapses at a high enough incidence to provide a meaningful test of SER2ONE's efficacy for this use.

felapses at a high enough incluence to provide a meaning in test of certifiers a sineary for the dock. Comparisons of Clinical Trial Results Highly variable results have been seen in the clinical development of all antidepressant drugs. Furthermore, in those circumstances when the drugs have not been studied in the same controlled clinical trial(s), comparisons among the findings of studies evaluating the effectiveness of different antidepressant drug products are inherently unreliable. Because conditions of testing (eg, patient samples, investigators, doses of the treatments administered and compared, outcome measures, etc) vary among trials, it is virtually impossible to distinguish a difference in drug effect from a difference due to one or more of the confounding factors just enumerated.

SERZONE (nefazodone hydrochloride) is indicated for the treatment of depression. When deciding among the alternative treatments available for this condition, the prescriber should consider the risk of hepatic failure associated with SERZONE treatment (see WARMINGS). In many cases, this would lead to the conclusion that other drugs should be tried first. The efficacy of SERZONE in the treatment of depression was established in 6–8 week controlled trials of outpatients and in a 6-week controlled trial of depressed inpatients whose diagnoses corresponded most closely to the DSM-III or DSM-IIIR category of major depressive dispose (see CLINCLA PHARMACOLOGY). A major depressive episode implies a prominent and relatively persistent depressed or durabate are trial.

a of weak contract data of explosed inpliese approximation whee diagnose sequences provided inside tables of the bolim in the bolim inter-category of major depressive disorder (see CLINICAL PHARMACOLOGY). A major depressive episode implies a prominent and relatively persistent depressed or dysphoric mood that usually inter-feres with daily functioning (nearly every day for at least 2 weeks). It must include either depressed mood or loss of interest or pleasure and at least five of the following nine symptoms: depressed mood, loss of interest in usual activities, significant change in weight and/or appetite, insomia or hypersonnia, psychomotor agitation or retardation, increased fatigue, feel-ings of guilt or worthlessness, slowed thinking or impaired concentration, a suicide attempt or suicidal ideation. The efficacy of SERZONE in reducing relapse in patients with major depressive episode has been demonstrated in a randomized placebo-controlled trial (see CLINICAL PHARMACOLOGY). Although remitted patients were followed for as long as 36 weeks in the study cited (le, 52 weeks total), the physician who elects to use SERZONE for extended periods should peri-odically reevaluate the long-term usefulness of the drug for the individual patient.

CONTRAINDICATIONS Coadministration of terfenadine, astemizole, cisapride, pimozide, or carbamazepine with SERZONE (nefazodone hydrochloride) is contraindicated (see WARNINGS and PRECAUTIONS). SERZONE tablets are contraindicated in patients who were withdrawn from SERZONE because of evidence of liver injury (see BOXED WARNING). SERZONE tablets are also contraindicated in patients who have demonstrated hypersensitivity to nefazodone hydrochloride, its inactive ingredients, or other phenyhojperazine antidepressants. The coadministration of triazolam and nefazodone causes a significant increase in the plasma level of triazolam (see WARNINGS and PRECAUTIONS), and a 75% reduction in the initial triazolam dosage is recommended if the two drugs are to be given together. Because not all commercially available dosage forms of triazolam permit a sufficient dosage reduction, the coadministration of triazolam and SERZONE should be avoided for most patients, including the elderly.

WARNINGS oxicity (See BOXED WARNING.)

 WARNINGS

 Hepatotoxicity (See BOXED WARNING.)

 Cases of life-threatening hepatic failure have been reported in patients treated with SERZONE.

 The reported rate in the United States is about 1 case of liver failure resulting in death or transplant per 250,000 - 300,000 patient-years of SERZONE treatment. This represents a rate of about 3-4 times the estimated background rate of liver failure. This rate is an underestimate because of under reporting, and the true risk could be considerably greater than this. A large cohort study of antidepressant users found no cases of liver failure leading to death or transplant among SERZONE users in about 30,000 patient-years of exposure. The spontaneous report data and the cohort study results provide estimates of the upper and lower limits of the risk of liver failure in nefazodone-treated patients, but are not capable of providing a precise risk estimate.

 The time to liver injury for the reported liver failure cases resulting in death or transplant generally ranged from 2 weeks to 6 months on SERZONE user, and agastrointestinal symptoms), other reports did not describe the onset of clear prodromal symptoms grior to the onset of jaundice.

 The physician may consider the value of liver function testing. Periodic serum transaminase testing has not been proven to prevent serious injury but it is generally believed that early detection of drug-induced hepatic injury along with immediate withdrawal of the suspect drug enhances the likelihood for recovery.

 Patients should be advised to be alter for signs and symptoms of liver dysfunction (jaundice, anorexia, gastrointestinal complaints, malaise, etc) and to report them to their doctor immediately if they occur. Ongoing clinical assessment of patients should over physicican interventions, including ith antihypertensive medication Activation of Mania/Hypomania Activation of Mania/Hypomania During premarketing testing, hypomania or mania occurred in 0.3% of nefazodone-treated unipolar patients, compared to 0.3% of tricyclic- and 0.4% of placebo-treated patients. In patients classified as bipolar the rate of manic episodes was 1.6% for nefazodone, 5.1% for the combined tricyclic-treated groups, and 0% for placebo-treated patients. Activation of mania/hypomania is a known risk in a small proportion of patients with magin affective disorder treated with other marketed antidepressants. As with all antidepres-sants, SERZONE (nefazodone hydrochloride) should be used cautiously in patients with a history of mania. Seizures During premarketing testing, a recurrence of a petit mal seizure was observed in a patient receiving nefazodone who had a history of such seizures. In addition, one nonstudy participant reportedly experienced a convulsion (type not documented) following a multiple-drug overdose (see **OVERDOSAGE**). Rare occurrences of convulsions (including grand mal seizures) following nefazodone administration have been reported since market introduction. A causal relationship to nefazodone has not been established (see **ADVERSE REACTIONS**). Priapism

Priapism While priapism did not occur during premarketing experience with nefazodone, rare reports of priapism have been received since market introduction. A causal relationship to nefazodone has not been established (see **ADVERSE REACTIONS**). If patients present with prolonged or inappropriate erections, they should discontinue therapy immediately and consult their physicians. If the condition persists for more than 24 hours, a urologist should be consulted to determine appropriate management.

serotonin reuptake inhibitor (SSRI), these reactions have included hyperthermia, rigidity, myocionus, autonomic instability with possible rapid fluctuations of vital signs, and mental status changes that include extreme agitation progressing to delirium and coma. These reactions have also been reported in patients who have recently discontinued that drug and have been started on an MAOI. Some cases presented with features resembling neuroleptic malignant syndrome. Severe hyperthermia and seizures, sometimes fatal, have been reported in association with the combined use of tricyclic antidepressants and MAOIs. These reactions have also been reported in patients who have resembling out these drugs and have been started on an MAOI. mbined use of tricyclic antidepressants and MAUIS. These reactions have also been reported in person cently discontinued these drugs and have been started on an MAOI. Although the effects of combined use of nefazodone and MAOI have not been evaluated in humans or animals, although the effects of combined that nefazodone and manufacture reintrake. It is recommended that nefazodone

ecause nefazodone is an inhibitor of both serotonin and norepinephrine reuptake, it is recommended that nefazodone of the serotonin and norepinephrine reuptake, it is recommended that nefazodone of the used in combination with an MAOI, or within 14 days of discontinuing treatment with an MAOI. At least 1 week ould be allowed after stopping nefazodone before starting an MAC

approved for use in treating bipolar depression

Interaction with Triazolobenzodiazepines Interaction studies of nefazodone with two triazolobenzodiazepines, ie, triazolam and alprazolam, metabolized by cytochrome P450 3A4, have revealed substantial and clinically important increases in plasma concentrations of these compounds when administered concomitantly with nefazodone.

her a single oral 0.25-mg dose of triazolam was coadministered with nefazodone (200 mg BID) at steady state, triazolam When a single on cashing uses of trazolarity was coatinistered with relazouole (zoolie (zoolie)))))))))))))))))))))))))))

azorani en alprazolam (1 mg BID) and nefazodone (200 mg BID) were coadministered, steady-state peak concentrations, AUC and half-life values for alprazolam increased by approximately 2-fold. Nefazodone plasma concentrations, AUC alprazolam is coadministered with SERZONE, a 50% reduction in the initial alprazolam dosage is recommended. No dosage adjustment is required for SERZONE.

mended. No dosage adjustment is required for SERZONE. Potential Terfenadine, Astemizole, Cisapride, and Pimozide Interactions Terfenadine, astemizole, cisapride, and pimozide are all metabolized by the cytochrome P450 3A4 (CYP3A4) isozyme, and it has been demonstrated that ketoconazole, erythromycin, and other inhibitors of CYP3A4 can block the metabolism of these drugs, which can result in increased plasma concentrations of parent drug. Increased plasma concentrations of terfenadine, astemizole, cisapride, and pimozide are associated with OT prolongation and with rare cases of serious cardiovascular adverse events, including death, due principally to ventricular tachycardia of the torsades de pointes type. Nefazodone has been shown *in vitro* to be an inhibitor of CYP3A4. Consequently, it is recommended that nefazodone not be used in combination with either terfenadine, astemizole, cisapride, or pimozide (see CONTRAINDICATIONS and PRECAUTIONS).

he coadministration of carbamazepine 200 mg BID with nefazodone 200 mg BID, at steady state for both drugs, resulted the coadministration of carbamazepine 200 mg BID with nefazodone 200 mg BID, at steady state for both drugs, resulted to the state of t coadministration of carbamazepine 200 mg BID with nefazodone 200 mg BID, at steady state for both drugs, resulte most 95% reductions in AUCs for nefazodone and hydroxynefazodone, likely resulting in insufficient plasma nefazodon hydroxynefazodone concentrations for achieving an antidepressant effect for SERZONE. Consequently, it is recom ded that SERZONE not be used in combination with carbamazepine (see **CONTRAINDICATIONS** and **PRECAUTIONS**). PRECAUTIONS

General Hepatotoxicity (See BOXED WARNING.)

Hepatotoxicity (See BOXED WARNING.) Postural Hypotension A pooled analysis of the vital signs monitored during placebo-controlled premarketing studies revealed that 5.1% of nefazodone patients compared to 2.5% of placebo patients (p≤0.01) met criteria for a potentially important decrease in blood pressure at some time during treatment (systolic blood pressure ≤90 mmHg and a change from baseline of ≥20 mmHg). While there was no differ-ence in the proportion of nefazodone and placebo patients having adverse events characterized as 'syncope' (nefazodone, 0.2%; placebo, 0.3%), the rates for adverse events characterized as 'postural hypotension' were as follows: nefazodone (2.8%), tricyclic antidepressants (10.9%), SSRI (1.1%), and placebo (0.8%). Thus, the prescriber should be aware that there is some risk of postural hypotension in association with nefazodone use. SERZONE should be used with caution in patients with known cardiovascular or cerebrovascular disease that could be exacerbated by hypotension (history of mycoardiai infarction, angina, or ischemic stroke) and conditions that would predispose patients to hypotension (dehydration, hypovolemia, and treatment with antihypotension in dication).

Use in Patients with Concomitant Illness SERZONE has not been evaluated or used to any appreciable extent in patients with a recent history of myocardial infarc-tion or unstable heart disease. Patients with these diagnoses were systematically excluded from clinical studies during the product's premarketing testing. Evaluation of electrocardiograms of 1153 patients who received nefazodone in 6- to 8-week, double-blind, placebo-controlled trials did not indicate that nefazodone is associated with the development of clini-cally important ECG abnormalities. However, sinus bradycardia, defined as heart rate <50 bpm and a decrease of at least 15 bpm from baseline, was observed in 1-5% of nefazodone-treated patients compared to 0.4% of placebo-treated patients (p<0.05). Because patients with a recent history of myocardial infarction or unstable heart disease were excluded from clin-ical tribe, weak patients with a recent history of myocardial infarction or unstable heart disease were excluded from clinal trials, such patients should be treated with caution.

In patients with cirrhosis of the liver, the AUC values of nefazodone and HO-NEF were increased by approximately 25%. Information for Patients (See Patient Information.) Physicians are advised to discuss the following issues with patients for whom they prescribe SERZONE:

Hepatotoxicity Patients should be informed that SERZONE therapy has been associated with liver abnormalities ranging from asymptomatic reversible serum transaminase increases to cases of liver failure resulting in transplant and/or death. At present, there is no way to predict who is likely to develop liver failure. Ordinarily, patients with active liver disease should not be treated with SERZONE. Patients should be advised to be alert for signs of liver dysfunction (aundice, anorexia, gastrointestinal complaints, malaise, etc) and to report them to their doctor immediately if they occur.

atients and their families should be encouraged to be alert to the emergence of anxiety, agitation, panic attacks, insomnia, tratability, hostility, impulsivity, akathisia, hypomania, mania, worsening of depression, and suicidal ideation, especially early during antidepressant treatment. Such symptoms should be reported to the patient's physician, especially if they are severe, abrupt in onset, or were not part of the patient's presenting symptoms.

Time to Response/Continuation As with all antidepressants, several weeks on treatment may be required to obtain the full antidepressant effect. Once nprovement is noted, it is important for patients to continue drug treatment as directed by their physiciar

Interference With Cognitive and Motor Performance Since any psychoactive drug may impair judgment, thinking, or motor skills, patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that SERZONE therapy does not adversely affect their ability to engage in such activities.

since there is a potential for interactions. Significant caution is indicated if SERZONE is to be used in combination with X concomitant use with HALCION[®] should be avoided for most patients including the elderly, and concomitant use with SELDANE' HISMANAL[®], PROPULSID[®], ORAP[®], or TEGRETOL[®] is contraindicated (see **CONTRAINDICATIONS** and **WARNINGS**).

Alcohol Patients should be advised to avoid alcohol while taking SERZONE (nefazodone hydrochloride)

Allergic Reactions Patients should be advised to notify their physician if they develop a rash, hives, or a related allergic phenomenon

Visual Disturbances There have been reports of visual disturbances associated with the use of nefazodone, including blurred vision, scotoma, and visual traits. Patients should be advised to notify their physician if they develop visual disturbances. (See ADVERSE REACTIONS.)

Laboratory Tests There are no specific laboratory tests recommended.

Drug Interactions Drugs Highly Bound to Plasma Protein

urugs riginity souring to Prasma Protein Because nefazodone is highly bound to plasma protein (see CLINICAL PHARMACOLOGY: Pharmacokinetics), administration of SERZONE to a patient taking another drug that is highly protein bound may cause increased free concentrations of the other drug, potentially resulting in adverse events. Conversely, adverse effects could result from displacement of nefazodone by other highly bound druns.

Warfarin—There were no effects on the prothrombin or bleeding times or upon the pharmacokinetics of R-warfarin when nefazodone (200 mg BID) was administred for 1 week to subjects who had been pretreated for 2 weeks with wartari Although the coadministration of nefazodone did decrease the subjects' exposure to S-warfarin by 12%, the lack of effec on the prothrombin and bleeding times indicates this modest change is not clinically significant. Although these resul suggest no adjustments in warfarin dosage are required when nefazodone is administered to patients stabilized on warfari such patients should be monitored as required by standard medical practices.

CNS-Active Drugs Monoamine Oxidase Inhibitors—See **WARNINGS**.

Haloperidol—When a single oral 5-mg dose of haloperidol was coadministered with nefazodone (200 mg BID) at steady state, haloperidol apparent clearance decreased by 35% with no significant increase in peak haloperidol plasma concen-trations or time of peak. This change is of unknown clinical significance. Pharmacodynamic effects of haloperidol were generally not altered significanty. There were no changes in the pharmacokinetic parameters for nefazodone. Dosage adjustment of haloperidol may be necessary when coadministered with nefazodone.

orazepam—When lorazepam (2 mg BID) and nefazodone (200 mg BID) were coadministered to steady state, there was no change in any pharmacokinetic parameter for either drug compared to each drug administered alone. Therefore, dosage adjustment is not necessary for either drug when coadministered.

riazolam/Alprazolam—See CONTRAINDICATIONS and WARNINGS.

Alcohol—Although netazodone did no potentiate the cognitive and systemators of alcohol in experiments with normal subjects, the concomitant use of SERZONE and alcohol in depressed patients is not advised.

normal subjects, the concomitant use of SERZONE and alcohol in depressed patients is not advised. Buspirone—In a study of steady-state pharmacokinetics in healthy volunteers, coadministration of buspirone (2.5 or 5 mg BID) with nefazodone (250 mg BID) resulted in marked increases in plasma buspirone concentrations (increases up to 20-fold in C_{max} and up to 50-fold in AUC) and statistically significant decreases (about 50%) in plasma concentrations of the buspirone metabolite 1-pyrimidinylpiperazine. With 5-mg BID doses of buspirone, slight increases in AUC were observed for nefazodone (23%) and its metabolites hydroxynetizadone (17%) and mCPP (9%). Subjects receiving nefazodone 250 mg BID and buspirone 5 mg BID experienced lightheadedness, asthenia, dizziness, and somnolence, adverse events also observed with either drug alone. If the two drugs are to be used in combination, a low dose of buspirone (eg, 2.5 mg QD) is recommended. Subsequent dose adjustment of either drug should be based on clinical assessment. Pimozide—See **CONTRAINDICATIONS, WARNINGS, and PRECAUTIONS:** Pharmacokinetics of Netazodone in 'Poor Metabolizers' and Potential Interaction with Drugs that Inhibit and/or Are Metabolized by Cytochrome P450 Isozymes. Fluoxetine—When fluoxetine (20 mg QD) and netazodone (20 mg BID) were administered at steady state there were no

Fluoxetine—When fluoxetine (20 mg QD) and nefazodone (200 mg BID) were administered at steady state there were no changes in the pharmacokinetic parameters for fluoxetine or its metabolite, norfluoxetine. Similarly, there were no changes in the pharmacokinetic parameters of nefazodone or HO-NEF; however, the mean AUC levels of the nefazodone metabolites mCPP the pharmacokinetic parameters of nefazodone or H0-NEF; however, the mean AUC levels of the nefazodone metabolites mCPP and triazole-dione increased by 3- to 6-fold and 1.3-fold, respectively. When a 200-mg dose of nefazodone was administered to subjects who had been receiving fluoxetine for 1 week, there was an increased incidence of transient adverse events such as headache, lightheadedness, nausea, or paresthesia, possibly due to the elevated mCPP levels. Patients who are switched from fluoxetine to nefazodone without an adequate washout period may experience similar transient adverse events. The possibility of this happening can be minimized by allowing a washout period before initiating nefazodone therapy and by reducing the initial dose of nefazodone. Because of the long half-life of fluoxetine and its metabolites, this washout period may range from one to several weeks depending on the dose of fluoxetine and other individual patient variables.

Phenytoin-Pretreatment for 7 days with 200 mg BID of nefazodone had no effect on the pharmacokinetics of a single 300-mg and dose of phenytoin. However, due to the nonlinear pharmacokinetics of phenytoin, the failure to observe a signifi-cant effect on the single-dose pharmacokinetics of phenytoin does not preclude the possibility of a clinically significant inter-action with netazodone when phenytoin is dosed chronically. However, no change in the initial dosage of phenytoin is considered necessary and any subsequent adjustment of phenytoin dosage should be guided by usual clinical practices.

esipramine-When nefazodone (150 mg BID) and desipramine (75 mg QD) were administered together there were no Comparison of the pharmacokinetics of designation and designation (2.1) were automatical designation were also no changes in the pharmacokinetics of netrazodone or its triazole-dione metabolite, 2-hydroxy designations. There were also no changes in the pharmacokinetics of netrazodone or its triazole-dione metabolite, but the AUC and $C_{\rm max}$ of mCPP increased by 44% and 48%, respectively, while the AUC of 10-MEP decreased by 19%. No changes in doeses of either netrazodone or designation are necessary when the two drugs are given concomitantly. Subsequent dose adjustments should be made on the basis of $\frac{1}{10 + 10}$

Lithium—In 13 healthy subjects the coadministration of netazodone (200 mg BID) with lithium (500 mg BID) for 5 days (steady-state conditions) was found to be well tolerated. When the two drugs were coadministered, there were no changes in the steady-state pharmacokinetics of either lithium, netazodone, or its metabolite HO-NEF, however, there were small decreases in the steady-state plasma concentrations of two nefazodone metabolites, mCPP and triazole-dione, which are considered not to be of clinical significance. Therefore, no dosage adjustment of either lithium or nefazodone is required when they are coadministered.

when they are coadministered. Carbamazepine—The coadministration of nefazodone (200 mg BID) for 5 days to 12 healthy subjects on carbamazepine who had achieved steady state (200 mg BID) was found to be well tolerated. Steady-state conditions for carbamazepine, nefazodone, and several of their metabolites were achieved by day 5 of coadministration. With coadministration of the two drugs there were significant increases in the steady-state C_{max} and AUC of carbamazepine, decreased by 21% and 20%, respectively. The coadministration of the two drugs significantly reduced the steady-state C_{max} and AUC of nefazodone by 86% and 93%, respectively. The coadministration of the two drugs significantly reduced the steady-state C_{max} and AUC of mc2PP and triazole-dione were more modest (13% and 44% for the former and 28% and 57% for the latter). Due to the potential for coadministration of carbamazepine (250KE, it is recommended that SERZONE not be used in combination with carbamazepine (see **CONTRAINDICATIONS** and **VARNINGS**). Central this is the interview and potential for interaction between pofizadone and append appendential compared that see the combined of the combined of the combined of the combination with carbamazepine (see **CONTRAINDICATIONS** and **VARNINGS**).

Carbandzepine (see CUNTRAINDICATIONS and WARNINGS). General Anesthetics—Little is known about the potential for interaction between nefazodone and general anesthetics; therefore, prior to elective surgery, SERZONE should be discontinued for as long as clinically feasible. Other CNS-Active Drugs—The use of nefazodone in combination with other CNS-active drugs has not been systematically evaluated. Consequently, caution is advised if concomitant administration of SERZONE (nefazodone hydrochloride) and such drugs is required.

Cimetainne When nefazodone (200 mg BID) and cimetidine (300 mg QID) were coadministered for one week, no change in the steady-state pharmacokinetics of either nefazodone or cimetidine was observed compared to each dosed alone. Therefore, dosage adjustment is not necessary for either drug when coadministered.

Theophylline When nefazodone (200 mg BID) was given to patients being treated with theophylline (600-1200 mg/day) for chronic obstruc-tive pulmonary disease, there was no change in the steady-state pharmacokinetics of either nefazodone or theophylline. FEV₁ measurements taken when theophylline and nefazodone were coadministered did not differ from baseline dosage (ie, when theophylline was administered alone). Therefore, dosage adjustment is not necessary for either drug when coadministered.

Cardiovascular-Active Drugs Digoxin—When netazodone (200 mg BID) and digoxin (0.2 mg QD) were coadministered for 9 days to healthy male volunteers (*m*=18) who were phenotyneed as CYP2D6 extensive metabolizers. Come Cma, and ALIC of diooxin were increased volunteers (n=18) who were phenotyped as CYP2D6 extensive metabolizers, C_{max}, C_{min}, and AUC of digoxin were increased y 29%, 27%, and 15%, respectively. Digoxin had no effects on the pharmacokinetics of nefazodone and its active netabolites. Because of the narrow therapeutic index of digoxin, caution should be exercised when nefazodone and digoxin re coadministered; plasma level monitoring for digoxin is recommended.

are coaministereo; plasma level monitoring for digoxin is recommended. Propranolol—The coadministration of nefazodone (200 mg BID) and propranolol (40 mg BID) for 5.5 days to healthy male volunteers (n=18), including 3 poor and 15 extensive CYP2D6 metabolizers, resulted in 30% and 14% reductions in C_{max} and AUC of propranolol, respectively, and a 14% reduction in C_{max} for the metabolite, 4-hydroxypropranolol. However, C_{max}, C_{min}, and AUC of m-chlorophenylpiperazine were increased by 23%, 54%, and 28%, respectively. No change in initial dose of either drug is necessary and dose adjustments should be made on the basis of clinical response. or entirer urug is necessary and oose adjustments should be made on the basis of clinical response. HIMG-CoA Reductase Inhibitors—When single 40-mg doses of simvastatin or atorvastatin, both substrates of CYP3A4, were given to healthy adult volunteers who had received SER2ONE 200 mg BID for 6 days, approximately 20-fold increases in plasma concentrations of simvastatin and simvastatin acid and 3- to 4-fold increases in plasma concentrations of atorvastatin and atorvastatin lactone were seen. These effects appear to be due to the inhibition of CYP3A4 by SER2ONE because, in the same study, SER2ONE had no significant effect on the plasma concentrations of pravastatin, which is not metabolized by CYP3A4 to a clinically significant extent.

CYP3A4 to a clinically significant extent. There have been rare reports of rhabdomyolysis involving patients receiving the combination of SERZONE and either simvastatin or lovastatin, also a substrate of CYP3A4 (see ADVERSE REACTIONS: Postintroduction Clinical Experience).

simulastatin or lovastatin, also a substrate of CYP3A4 (see ADVENSE HEACTIONS: Postimitroduction Clinical Experience). Rhabdomyolysis has been observed in patients receiving HMG-CoA reductase inhibitors administered alone (at recommended dosages) and in particular, for certain drugs in this class, when given in combination with inhibitors of the CYP3A4 isozyme. Caution should be used if SERZONE is administered in combination with HMG-CoA reductase inhibitors that are metabolized by CYP3A4, such as simvastatin, atorvastatin, and lovastatin, and dosage adjustments of these HMG-CoA reductase inhibitors that undergo little or no metabolism by the CYP3A4 isozyme, such as pravastatin or fluvastatin, dosage adjustments should not be necessary.

Immunosuppressive Agents There have been reports of increased blood concentrations of cyclosporine and tacrolimus into toxic ranges when patients received these drugs concomitantly with SERZONE. Both cyclosporine and tacrolimus are substrates of CYP3A4, and nefazodone is known to inhibit this enzyme. If either cyclosporine or tacrolimus is administered with SERZONE, blood concentrations of the immunosuppressive agent should be monitored and dosage adjusted accordingly. cokinetics of Nefazodone in 'Poor Metabolizers' and Potential Interaction with Drugs that Inhibit and/or Are

Metabolized by Cytochrome P450 Isozymes CYP3A4 Isozyme—Nefazodone has been shown *in vitro* to be an inhibitor of CYP3A4. This is consistent with the interac-tions observed between nefazodone and triazolam, algrazolam, buspirone, atorvastatin, and simvastatin, drugs metabolized by this isozyme. Consequently, caution is indicated in the combined use of nefazodone with any drugs known to be metabo-lized by CYP3A4. In particular, the combined use of nefazodone with triazolam should be avoided for most patients, including the elderly. The combined use of nefazodone with terfenadine, astemizole, cisapride, or pimozide is contraindicated (see **CONTRAINDICATIONS** and **WARNINGS**).

CONTRAINDICATIONS and WARNINGS). CYP2D6 Isozyme—A subset (3% to 10%) of the population has reduced activity of the drug-metabolizing enzyme CYP2D6. Such individuals are referred to commonly as "poor metabolizers" of drugs such as debrisoquin, dextromethorphan, and the tricyclic antidepressants. The pharmacokinetics of nefazodone and its major metabolites are not altered in these "poor metabolizers." Plasma concentrations of one minor metabolite (mCPP) are increased in this population; the adjustment of SERZONE Gosage is not required when administered to "poor metabolizers." Nefazodone and its metabolites have been shown *in vitro* to be extremely weak inhibitors of CYP2D6. Thus, it is not likely that nefazodone will decrease the metabolic clearance of drugs metabolized by this isozyme. CVRIAD learance negative metabolizers is metabolizers."

CYP1A2 lsozyme—Nefazodone and its metabolizes by this isozyme are unlikely.

Electroconvulsive Therapy (ECT) There are no clinical studies of the combined use of ECT and nefazodone.

Carcinogenesis, Mutagenesis, Impairment of Fertility

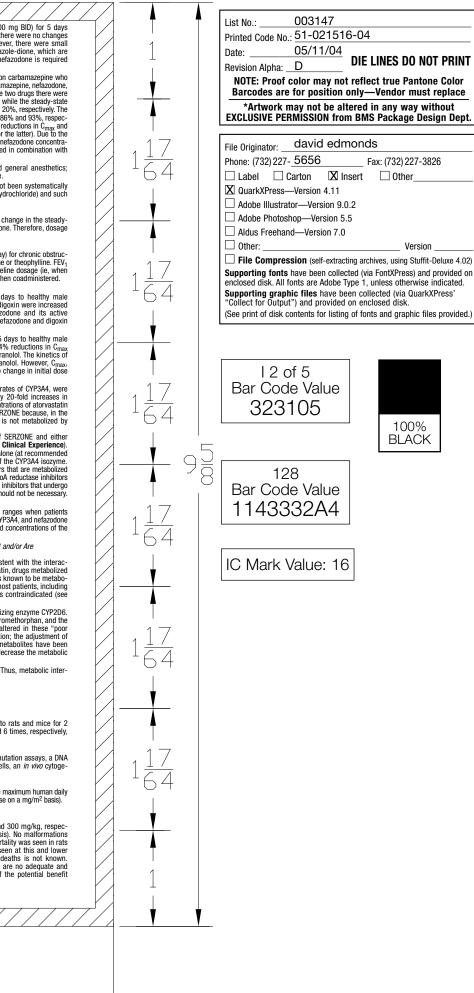
There is no evidence of carcinogenicity with nefazodone. The dietary administration of nefazodone to rats and mice for 2 years at daily doese of up to 200 mg/kg and 800 mg/kg, respectively, which are approximately 3 and 6 times, respectively, the maximum human daily doese on a mg/m² has a standard at the standard a e maximum human daily dose on a mg/m² basis, produced no increase in tumor

Mutagenesis Nefazodone has been shown to have no genotoxic effects based on the following assays: bacterial mutation assays, a DNA repair assay in cultured rat hepatocytes, a mammalian mutation assay netics assay in rat bone marrow cells, and a rat dominant lethal study.

Impairment of Fertility A fertility study in rats showed a slight decrease in fertility at 200 mg/kg/day (approximately three times the maximum human daily dose on a mg/m² basis) but not at 100 mg/kg/day (approximately 1.5 times the maximum human daily dose on a mg/m² basis).

dose on a might basis, but not set to a pregnancy of the set of th

Labor and Delivery The effect of SERZONE (nefazodone hydrochloride) on labor and delivery in humans is unkno



Preferred Term

Constipation Somnolence Dizziness

Abnormal vision

Blurred vision

Nausea

Body System Gastrointestinal

Special Senses

Vital Sign Changes (See **PRECAUTIONS**: Postural Hypotension.)

Nervous

Visual Disturbances

Weight Changes

Dose Dependency of Adverse Events in Placebo-Controlled Trials¹

¹ Events for which there was a statistically significant difference (p≤0.05) between the nefazodone dose groups

n controlled clinical trials, blurred vision occurred in 9% of nefazodone-treated patients compared to 3% of placebo-treated

In controlled clinical trials, blurred vision occurred in 9% of netazodone-treated patients compared to 3% of placebo-treated patients. In these same trials, ahormany vision, including soctomata and visual trialis, occurred in 7% of netazodone-treated patients compared to 1% of placebo-treated (see Treatment-Emergent Adverse Experience table, above). Dose-dependency was observed for these events in these trials, with none of the scotomata and visual trails at doses below 300 mg/day. However, scotomata and visual trails observed at doses below 300 mg/day have been reported in postmarketing experience with SERZONE. (See **PRECAUTIONS: Information for Patients**.)

n a pooled analysis of placebo-controlled premarketing studies, there were no differences between nefazodone and placebo groups

aboratory Changes f the serum chemistry, serum hematology, and urinalysis parameters monitored during placebo-controlled premarketing

studies with nefazodone, a pooled analysis revealed a statistical trend between nefazodone and placebo for hematocrit, ie, 2.8% of nefazodone patients met criteria for a potentially important decrease in hematocrit (\leq 37% male or \leq 32% female) compared to 1.5% of placebo patients (0.05<ps20.10). Decreases in hematocrit, presumably dilutional, have been reported

with many other drugs that block alpha₁-adrenergic receptors. There was no apparent clinical significance of the observed changes in the few patients meeting these criteria.

ECG Changes Of the ECG parameters monitored during placebo-controlled premarketing studies with nefazodone, a pooled analysis revealed a

statistically significant difference between nefazodone and placebo for sinus bradycardia, ie, 1.5% of nefazodone patients met criteria for a potentially important decrease in heart rate (\leq 50 bpm and a decrease of \geq 15 bpm) compared to 0.4% of placebo

patients (p<0.05). There was no obvious clinical significance of the observed changes in the few patients meeting these criteria.

During its premarketing assessment, multiple doses of SERZONE (nefazodone hydrochloride) were administered to 3496 patients in clinical studies, including more than 250 patients treated for at least one year. The conditions and duration of exposure to SERZONE varied greatly, and included (in overlapping categories) open and double-billind studies, uncontrolled and controlled studies, inpatient and outpatient studies, fixed-dose and titration studies. Unloward events associated with the outpatient studies, inpatient and outpatient studies, fixed-dose and titration studies. Unloward events associated with

this exposure were 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 untoward events into a smaller number of standardized event categories. In the tabulations that follow, reported adverse events were classified using standard COSTART-based Dictionary terminology.

In the tabulations that tollow, reported adverse events were classified using standard CUS1ARI-based Dictionary terminology. The frequencies presented, therefore, represent the proportion of the 3496 patients exposed to multiple doses of SERZONE who experienced an event of the type cited on at least one occasion while receiving SERZONE. All reported events are included except those already listed in the Treatment-Emergent Adverse Experience Incidence table, those events listed in other safety-related sections of this insert, those adverse experiences subsumed under COSTART terms that are either overly general or excessively specific so as to be uninformative, those events for which a drug cause was very remote, and those events which were not serious and occurred in fewer than two patients. It is important to emphasize that, although the events reported occurred during treatment with SERZONE, they were not neces-sarily caused by it.

Metabolic and nutritional system—Infrequent: weight loss, gout, dehydration, lactic dehydrogenase increased, SGOT increased, and SGPT increased. Rare: hypercholesteremia and hypoglycemia. Musculoskeletal system—Infrequent: arthritis, tenosynovitis, muscle stiffness, and bursitis. Rare: tendinous contracture.

Nervous system—Infrequent: vertigo, twitching, depersonalization, hallucinations, suicide attempt, apathy, euphoria, hostility, suicidal thoughts, abnormal gait, thinking abnormal, attention decreased, derealization, neuralgia, paranoid reac-tion, dysarthria, increased libido, suicide, and myoclonus. *Bare:* hyperkinesia, increased salivation, cerebrovascular accident, hyperesthesia, hypotonia, ptosis, and neuroleptic malignant syndrome.

Respiratory system—Frequent: dyspnea and bronchitis. Infrequent: asthma, pneumonia, larynoitis, voice alteration, epistaxis,

Special senses-Frequent: eye pain. Infrequent: dry eye, ear pain, abnormality of accommodation, diplopia, conjunctivitis,

mydriasis, keratoconjunctivitis, hyperacusis, and photophobia. Rare: deafness, glaucoma, night blindness, and taste loss.

in the proportions of patients meeting criteria for potentially important increases or decreases in body weight (a change of \geq 7%).

DRUG ABUSE AND DEPENDENCE se Dependency of Adverse Events The table that follows enumerates adverse events that were more frequent in the SERZONE (nefazodone hydrochloride) dose range of 300 to 600 mg/day than in the SERZONE dose range of up to 300 mg/day. This table shows only those adverse

 Percent of Patients

 SERZONE
 SERZONE

 300-600 mg/day
 ≤300 mg/day
 Placebo

 (n=209)
 (n=211)
 (n=212)

Controlled Substance Class SERZONE (nefazodone hydrochloride) is not a controlled substance range of oco to my day that in the original difference ($p\leq 0.5$) in incidence between the SERZONE dose ranges as well as a difference between the high dose range and placebo.

Physical and Psychological Dependence In animal studies, nefazodone did not act as a reinforcer for intravenous self-administration in monkeys trained to selfadminister cocaine, suggesting no abuse liability. In a controlled study of abuse liability in human subjects, nefazoo showed no potential for abuse.

efazodone has not been systematically studied in humans for its potential for tolerance, physical dependence, or withdrawal. While the premarketing clinical experience with netacodone did not reveal any tendency for a withdrawal syndrome or any drug-seeking behavior, it is not possible to predict on the basis of this limited experience the extent to which a CNS-active drug will be misused, diverted, and/or abused once marketed. Consequently, physician should carefully evaluate patients for a history of drug abuse and follow such patients closely, observing them for signs of misuse or abuse of SERZONE (eg, development of elements of the service). tolerance, dose escalation, drug-seeking behavior

Human Experienc

In premarketing clinical studies, there were seven reports of nefazodone overdose alone or in combination with other phar-macological agents. The amount of nefazodone ingested ranged from 1000 mg to 11,200 mg. Commonly reported symptoms from overdose of nefazodone included nausea, vomiting, and somolence. One nonstudy participant took 2000–3000 mg of nefazodone with methocarbamol and alcohol; this person reportedly experienced a convulsion (type not documented). None of these patients died.

of these patients died. In postmarketing experience, overdose with SERZONE alone and in combination with alcohol and/or other substances has been reported. Commonly reported symptoms were similar to those reported from overdose in premarketing experience. While there have been rare reports of fatilities in patients taking overdoses of nefazodone, predominantly in combination with alcohol and/or other substances, no causal relationship to nefazodone has been established.

and/or other substances, no causal relationship to increase on the management of overdosage with any antidepressant. Dverdosage Management Treatment should consist of those general measures employed in the management of overdosage with any antidepressant. Ensure an adequate airway, oxygenation, and ventilation. Monitor cardiac rhythm and vitial signs. General supportive and symp-tomatic measures are also recommended. Induction of emesis is not recommended. Gastric lawage with algreg-bore orgastric tube with appropriate airway protection, if needed, may be indicated if performed soon after ingestion, or in symptomatic patients. Activated charcoal should be administered. Due to the wide distribution of nelazodone in body tissues, forced diuresis, dial-ysis, hemoperfusion, and exchange transfusion are unlikely to be of benefit. No specific antidotes for nefazodone are known. In managing overdosage, consider the possibility of multiple drug involvement. The physician should consider contacting a poison control center for additional information on the treatment of any overdose. Telephone numbers for certified poison control centers are listed in the *Physicians' Desk Reference* (PDR).

failure associated with SERZONE treatment (see **WARNINGS**). **Initial Treatment** The recommended starting dose for SERZONE (nefazodone hydrochloride) is 200 mg/day, administered in two divided doses (BID). In the controlled clinical trials establishing the antidepressant efficacy of SERZONE, the effective dose range was generally 300 to 600 mg/day. Consequently, most patients, depending on tolerability and the need for further clinical effect, should have their dose increased. Dose increases should occur in increments of 100 mg/day to 200 mg/day, again on a BID schedule, at intervals of no less than 1 week. As with all antidepressants, several weeks on treatment may be required to obtain a full antidepressant response

Docage for Elderly or Debilitated Patients The recommended initial dose for elderly or debilitated patients is 100 mg/day, administered in two divided doses (BID). These patients often have reduced nefazodone clearance and/or increased sensitivity to the side effects of CNS-active drugs. It may also be appropriate to modify the rate of subsequent dose titration. As steady-state plasma levels do not change with age, the final target dose based on a careful assessment of the patient's clinical response may be similar in healthy younger and older retired. Abdominal (lower stomach) pain People who currently have liver problems should not take SERZONE (nefazodone hydrochloride). and older patients.

and older patients. Maintenance/Continuation/Extended Treatment There is no body of evidence available from controlled trials to indicate how long the depressed patient should be treated with SERZONE. It is generally agreed, however, that pharmacological treatment for acute episodes of depression should continue for up to 6 months or longer. Whether the dose of antidepressant needed to induce remission is identical to the dose needed to maintain euthymia is unknown. Systematic evaluation of the efficacy of SERZONE has shown that efficacy is maintained for periods of up to 36 weeks following 16 weeks of open-label acute treatment (treated for 52 weeks total) at dosages that averaged 438 mg/day. For most patients, their maintenance dose was that associated with response during acute treatment. (See CLINICAL PHARMACOLOGY) The safety of SERZONE in long-term use is supported by data from both double-blind and open-label trials involving more than 250 patients treated for at least one year. SERZONE (pronounced *sir-ZONE*) is a medicine used to treat depression. SERZONE is thought to treat depression by correcting an imbalance in the amounts of certain natural chemicals, such as serotonin and norepinephrine, which are in your brain. Who should not take SERZONE? Do not take SERZONE if you • are allergic to SERZONE or the related medicine Desyrel® (trazodone). At least 14 days should elapse between discontinuation of an MAOI and initiation of therapy with SERZONE. In addition, at least 7 days should elapse between discontinuation of an MAOI and initiation of therapy with SERZONE. In addition, at least 7 days should be allowed after stopping SERZONE before starting an MAOI. • are taking Seldane® (terfenadine) an antihistamine: Hismanal® (astemizole) an antihistamine: Propulsid® (cisapride), used for heartburn: Halcion® (triazolam), used for insom-

HOW SUPPLIED SER2ONE® (nefazodone hydrochloride) tablets are hexagonal tablets imprinted with BMS and the strength (ie, 100 mg) on one side and the identification code number on the other. The 100 mg and 150 mg tablets are bisect scored on both tablet faces. The 50 mg, 200 mg, and 250 mg tablets are unscored. NDC CODE DESCRIPTION

U UUDL	
C 0087-0031-47	50 mg light pink tablet, bottle
C 0087-0032-31	100 mg white tablet, bottle of 6
C 0087-0039-31	150 mg peach tablet, bottle of 6
C 0087-0033-31	200 mg light yellow tablet, bott
C 0087-0041-31	250 mg white tablet, bottle of 6

Store at room temperature, below 40° C (104° F) and dispense in a tight container.

SERZONE[®] is a registered trademark of Bristol-Myers Squibb Company. Other brand names listed are trademarks of their respective owners and are not trademarks of Bristol-Myers Squibb Company.

It is not known whether SERZONE or its metabolites are excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when SERZONE is administered to a nursing woman.

Pediatric Use ess in individuals below 18 years of age have not been established (see WARNINGS: Clinical Worsening and Suicide Risk).

and Suicide Hisk). Geriatric Use Of the approximately 7000 patients in clinical studies who received SERZONE for the treatment of depression, 18% were 65 years and older, while 5% were 75 years and older. Based on monitoring of adverse events, vital signs, electrocardio-grams, and results of laboratory tests, no overall differences in safety between elderly and younger patients were observed in clinical studies. Efficacy in the elderly has not been demonstrated in placebo-controlled trials. Other reported clinical experience has not identified differences in responses between elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out. Due to the increased systemic exposure to nefazodone seen in single-dose studies in elderly patients (see CLINICAL PHAR-MACOLOGY: Pharmacokinetics), treatment should be initiated at half the usual dose, but titration upward should take place over the same range as in younger patients (see DOSAGE AND ADMINISTRATION). The usual precautions should be observed in elderly patients who have concomitant medical illnesses or who are receiving concomitant drugs. ADVEDEE DEATIONE

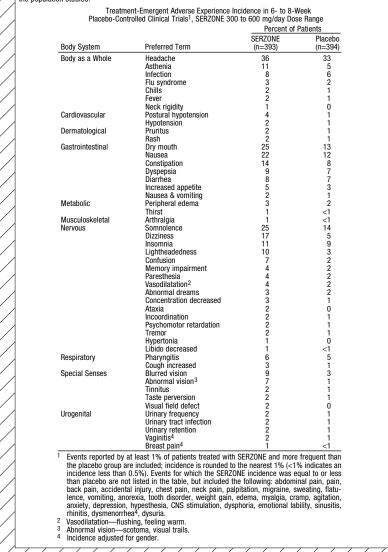
Nursing Mothers

In elucity patients with the concommant interact minimum of the second second

Incidence in Controlled Trials Commonly Observed Adverse Events in Controlled Clinical Trials The most commonly observed adverse events associated with the use of SERZONE (incidence of 5% or greater) and not seen at an equivalent incidence among placebo-treated patients (ie, significantly higher incidence for SERZONE compared to placebo, pc0.05), derived from the table below, were: somnolence, dry mouth, nausea, dizziness, constipation, asthenia, lightheadedness, blurred vision, confusion, and abnormal vision.

Adverse Events Occurring at an Incidence of 1% or More Among SERZONE-Treated Patients The table that follows enumerates adverse events that occurred at an incidence of 1% or more, and were more frequent than in the placebo group, among SERZONE-treated patients who participated in short-term (6- to 8-week) placebo-controlled trials in which patients were dosed with SERZONE (nefazodone hydrochloride) to ranges of 300 to 600 mg/day.

controlled trials in which patients were dosed with SERZONE (netazodone hydrochloride) to ranges of 300 to 600 mg/day. This table shows the percentage of patients in each group who had at least one episode of an event at some time during their treatment. Reported adverse events were classified using standard COSTART-based Dictionary terminology. The prescriber should be aware that these figures cannot be used to predict the incidence of side effects in the course of usual medical practice where patient characteristics and other factors differ from those which 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 contribution of drug and nondrug factors to the side-effect incidence rate in the population studied.



evaluation of nefazodone. Voluntary reports of adverse events temporally associated with SERZONE have been received since prianism (see PRFCAUTIONS): prolactin increased; rhabd volvsis involving natients receiving the con

Bristol-Myers Squibb Company Princeton, NJ 08543 USA 1143332A4 3231I-05 N4831-04

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128 BAR CODE, 1-1/2" × 1/2" NO TEXT AREA BOTH SIDES AND 1/16" TOP AND BOTTOM; BLACK PRINT ONLY

FOLD LINE

Urogenital system—Frequent: impotence^a. Infrequent: cystitis, urinary urgency, metrorrhagia^a, amenorrhae^a, polyuria, vaginal hemorrhage^a, breast enlargement^a, menorrhagia^a, urinary incontinence, abnormal ejaculation^a, hematuria, nocturia, and kidney calculus. *Rare*: uterine fibroids enlarged^a, uterine hemorrhage^a, anorgasmia, and oliguria. ^aAdjusted for gender. Postintroduction Clinical Experience Postmarketing experience with SERZONE has shown an adverse experience profile similar to that seen during the premarketing

hiccup. Rare: hyperventilation and yawr

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AV block, congestive heart failure, hemorrhage, pallor, and varicose vein.

narket introduction that are not listed above and for which a causal relationship has not been established. These include Anaphylactic reactions; angioedema; convulsions (including grand mal seizures); galactorrhea; gynecomastia (male) natremia; liver necrosis and liver failure, in some cases leading to liver transplantation and/or death (see WARNING

statin or simulation (see **PRECAUTIONS**): serotonin syndrome: Stevens-Johnson syndrome: and thrombocytopenia

Events are further categorized by body system and listed in order of decreasing frequency according to the following defini-tions: frequent adverse events are those occurring on one or more occasions in at least 1/100 patients (only those not already listed in the tabulated results from placebo-controlled trials appear in this listing); infrequent adverse events are those occur-ring in 1/100 to 1/1000 patients; rare events are those occurring in fewer than 1/100 patients. Body as a whole—Infrequent allergic reaction, malaise, photosensitivity reaction, face edema, hangover effect, abdomen enlarged, hernia, pelvic pain, and halitosis. *Rare:* cellulitis. Cardiovascular system—Infrequent: tachycardia, hypertension, syncope, ventricular extrasystoles, and angina pectoris, Rare: Dermatological system—Infrequent: dry skin, acne, alopecia, urticaria, maculopapular rash, vesiculobullous rash, and eczema. Gastrointestinal system—Frequent: gastroenteritis. Infrequent: eructation, periodontal abscess, abnormal liver function tests. ingivitis, colitis, gastritis, mouth ulceration, stomatitis, esophagitis, peptic ulcer, and rectal hemorrhage. Rare: glossitis hepatitis, dysphagia, gasarus, moun necetatori, somatus, cosphagus, popula tech, and recetation hepatitis, dysphagia, gasarus, moun necetatori, somatus, cosphagus, popula tech, and verative collitis. Hemic and lymphatic system—Infrequent: ecchymosis, anemia, leukopenia, and lymphadenopathy.

DOSAGE AND ADMINISTRATION When deciding among the alternative treatments available for depression, the prescriber should consider the risk of hepatic failure associated with SERZONE treatment (see **WARNINGS**).

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Patient Information

SERZONE®

Read this information completely before using SERZONE. Read the information each time you get more medicine. There may be new information. This leaflet provides a summary about SERZONE and does not include everything there is to know about your medicine. This information is not meant to take the place of talking with your doctor.

Before taking this medication, be sure to check the tablets in the bottle to make sure they match one of the following descriptions:

- 50 mg tablets are six-sided, light pink tablets imprinted with "BMS" and "50" on one face of the tablet:
- 100 mg tablets are six-sided, white tablets imprinted with "BMS" and "100" on one face of the tablet:
- 150 mg tablets are six-sided, peach-colored tablets imprinted with "BMS" and "150" on one face of the tablet:
- 200 mg tablets are six-sided, light yellow tablets imprinted with "BMS" and "200" on one face of the tablet: and
- 250 mg tablets are six-sided, white tablets imprinted with "BMS" and "250" on one face of the tablet.

What is the most important information that I should know about SERZONE?

Rarely, people who take SERZONE can develop serious liver problems. If you get any of the following symptoms while taking SERZONE, call your doctor right away because you may be developing a liver problem

- Yellowing of the skin or whites of eves (iaundice)
- Unusually dark urine
- · Loss of appetite that lasts several days or longer
- Nausea

What is SERZONE?

- nia: Orap® (pimozide), used to treat Tourette's syndrome: or Tegretol® (carbamazepine). used to control seizures. currently have liver problems
- are taking or have taken within the last 14 days one of the medicines for depression known as monoamine oxidase inhibitors (MAOIs), such as Nardil® or Parnate®.

Be sure to tell your doctor if you have ever had liver problems:

- are taking **any** other medicine, vitamin supplement, or herbal remedy, including those
- sold without a prescription (over-the-counter):
- have heart problems or have had a heart attack or stroke;
- have had manic episodes (extreme agitation or excitability);
- have ever attempted suicide;
- · have had convulsions (seizure
- are pregnant or breast-feeding.

How should I take SERZONE?

- Take SERZONE at the same time every day exactly as prescribed by your doctor. You may take SERZONE with or without food.
- It may take a while for you to feel that SEBZONE is working. You may not feel the full effect for several weeks. Once you feel better, it is important to keep taking SERZONE as directed by your doctor.
- If you miss a dose of SERZONE, skip that dose and continue with your regular schedule. Never take 2 doses at the same time.
- If you think that you have taken more SERZONE than prescribed, contact your doctor, local poison control center, or emergency room right away.

What should I avoid while taking SERZONE?

EYE MARK, 1/2" X 1/4"

• Do not drive or operate possibly dangerous machinery (such as an automobile, power mower, or power tool) or participate in any hazardous activity that requires full mental alertness until you know how SERZONE affects you

• Before taking SERZONE, tell your doctor about **any** medicines you are taking, including

vitamin supplements, herbal remedies, and any non-prescription (over-the-counter medicines. Some of these medicines may affect how SERZONE works and should not be used in combination without talking to your doctor.

- Do not drink alcoholic beverages while taking SERZONE.
- Tell your doctor if you are pregnant, planning to become pregnant, or become pregnant while taking SERZONE. It is not known whether SERZONE can harm your unborn baby.
- Talk with your doctor before taking SERZONE if you are breast-feeding. It is not known whether SERZONE can pass through your breast milk to the baby.

What are the possible side effects of SERZONE?

The most common side effects of SERZONE are sleepiness, dry mouth, nausea, dizziness constipation, weakness, lightheadedness, problems with vision, and confusion.

- Call your doctor right away if you have any of the following side effects:
- Yellowing of the skin or whites of eyes (jaundice)
- Unusually dark urine
- Loss of appetite that lasts several days or longer Severe nausea
- Abdominal (lower stomach) pair
- Rash or hives
- Seizure (convulsion)
- Fainting
- Erection that lasts too long

Tell your doctor right away about any side effects that you have or discomfort that you experience. Do not change your dose or stop taking SERZONE (nefazodone hydrochloride) without talking with your doctor first.

Medicines are sometimes prescribed for conditions that are not mentioned in patient infor mation leaflets. Your doctor has prescribed SERZONE for you and you alone. Do not give SERZONE to other people, even if they have the same condition. It may harm them.

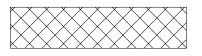
This leaflet provides a summary of the most important information about SERZONE. It you would like more information, talk with your doctor or pharmacist. You can ask for infor mation about SERZONE that is written for healthcare professionals. You can also get more information by visiting *www.serzone.com*.

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> Bristol-Myers Squibb Company Princeton, NJ 08543 USA

This Patient Information Leaflet has been approved by the U.S. Food and Drug Administration.

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Revised April 2004

I.C. MARKS; CENTERED ON FOLD; 3/8" WIDF



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