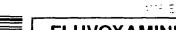
CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 75901

DRAFT FINAL PRINTED LABELING

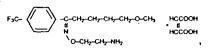


FLUVOXAMINE MALEATE **TABLETS**





To make the is a selective serotonin (5-H1) reuptake inhibitor (SSRI) belonging to a new chemical series, the fortime eithers of analytiketones. It is chemically unrelated to other SSRIs and clomipramine. It is chemically is 5-methory-4 (Influoromethyl)vaterophenone- (ξ) -0-(2-aminoethyl)oxime maleate (1:1) and has the motecular (ξ) -0- (ξ) -0-(



luvoxamine maleate is a white or off white, odoriess, crystalline powder which is spannighy soluble in water, freely soluble in anol and chloroform and practically insoluble in diethy either.

**Luvoxamine Maleate Tablets are available in 25 mg, 50 mg and 100 mg strengths for oral administration. In addition to the ire ingredient, fluvoxamine maleate, each tablet contains the following inactive ingredients: carnauba wax, crospovidone, troxypropyl methyficeful/ose, mannitol, polydestrose, polyethyfere glycol, preglatinized starch, Sodium steary flumarate, insum dioxice, and triacetin. The 25 mg lablet also contains D&C Yellow #10 auminium lake, FD&C Blue #2 aluminium lake.

**Ethic #2 aluminium take and FD&C Red #40 aluminium fake. The 50 mg tablet also contains FD&C Blue #2 aluminium take.

JNICAL PHARMACOLOGY:

JINGCAL PHARMACOLOGY: armacodynamics: The mechanism of action of fluvoxamine maleate in Obsessive Compulsive Disorder is presumed to linked to its specific serotion reputake inhibition in brain neurons. In preclinical studies, it was found that fluvoxamine tibited neuronal uptake of serotonin. In in HITO Studies fluvoxamine maleate had no significant affinity for histaminergic, alpha or beta adrenergic, muscarinic, or parminergic receptors. Anlagonism of some of these receptors is thought to be associated with various sedative, rdiovascular, anticholinergic, and extrapyramidal effects of some psychotropic drugs.

ridovascular, anticholineripic, and eutrapyramidal effects of some psychotropic drugs.

aarmacokhnetica: Bioavailability: The absolute bioavailability of fluvoxamine maleate is 53%. Oral bioavailability is not prificantly affected by food.

In a dose proportionality study involving fluvoxamine maleate at 100, 200 and 300 mg/day for 10 consecutive days in 30 mg/ day for 10

Approximately 80% of fluvoxamine is bound to plasma protein, mostly albumin, over a concentration range of 20 to 300 ng/mL.

NOT ing/ml. ietabolism: Eluvoramine maleate is extensively metabolized by the liver; the main metabolic routes are oxidative methylation and dearnination. Nine metabolites were identified following a 5 mg radiolabelled dose of fluvoramine maleate, instituting approximately 85% of the urinary excretion products of fluvoramine. The main human metabolite was fluvoramine id which, together with its N-acetylated analog, accounted for about 50% of the urinary excretion products. A third etabolite, fluvorethanol, formed by oxidative dearnination, accounted for about 10%. Fluvoramine acid and fluvorethanol ere tested in an in vitra assay of secrotionia and not epinephrine reciptate inhibition in rats; they were inactive except for a weak flect of the former metabolite on inhibition of secrotion uptate (1-2 orders of magnitude less potent than the parent impound) Approximately 2% of fluvoramine was excreted in urine unchanged, [See PRECAUTIONS - Orug Interactions). Imminations following a ¹⁴C-labelled oral dose of fluvoramine maleate (5 mg), an average of 94% of drug-related products was scovered in the urine within 71 hours.

The mean plasma half-life of fluvoramine at steady state after multiple oral doses of 100 mg/day in healthy, young volunteers as 15.6 hours.

ras 15.6 hours. In a study of fluvoxamine maleate tablets at 50 and 100 mg comparing elderly (ages.66-73) and young ubjects (ages.19-35), mean maximum plasma concentrations in the elderly were 40% higher. The multiple dose elfimination af-life of fluvoxamine was 17.4 and 25.9 hours in the elderly compared to 13.6 and 15.6 hours in the young subjects at seady tate (or 50 and 100 mg doses, respectively. In elderly patients the clearance of fluvoxamine was reduced by about 50% and, therefore, fluvoxamine maleate tablets hould be slowly titrated during initiation of therapy.

hould be slowly titrated during initiation of therapy.

Tediatric Subjects: The multiple-dose pharmacokinetics of fluvoxamine were determined in male and female children (ages int) and adolescents (ages 12-17). Sleady-state plasma fluvoxamine concentrations were 2-3 fold higher in children than in dolescents. AUC and Cmax in children were 1.5- to 2.7-fold higher than that in adolescents (see table below). As in adults, oth children and adolescents subhibled nonlinear multiple-dose pharmacokinetics. Female children showed significantly higher tUC (0-12) and Cmax compared to male children and, therefore, lower doses of fluvoxamine maleate tablets may produce therpeutic benefit (see table below). No gender differences were observed in addescents. Steady-state plasma fluvoxamine constraints were similar in adults and adolescents at a dose of 300 mg/day, indicating that fluvoxamine exposure was similar in adults and adolescents at a dose of 300 mg/day, indicating that fluvoxamine exposure was similar in adults and adolescents at a dose of 300 mg/day, indicating that fluvoxamine exposure was similar in children (natively therapentic benefit ndicated to achieve therapeutic benefit.

Comparison of Mean (SD) fluvoxemine pharmacokinetic parameters between children, adolescents and adults

Pharmacokinetic Parameter	Dose = 200 mg/day (100 mg bid)		Dose = 300 mg/day (150 mg bid)	
(body weight corrected)	Children (n=10)	Adolescent (n=17)	Adolescents (n=13)	Adults (n=16)
AUC 0-12 (ng.h/ml/kg)	155.1 (160.9)	43.9 (27.9)	69.6 (46.6)	59.4 (40.9)
Cmax (ng/mi/kg)	14.8 (14.9)	4.2 (2.6)	6.7 (4.2)	5.7 (3.9)
Crnin (ng/ml/kg)	11.0 (11.9)	2.9 (2.0)	4.8 (3.8)	4.6 (3.2)

Comparison of Mean (SD) fluvoxemine pharmacokinetic parameters between male and female children (6-11 years)

Pharmacokinetic Parameter (body weight corrected)	Dose = 200 mg/day (100 mg bid)		
	Male Children (n=7)	Fernale children (n=3)	
AUC 0-12 (ng.h/ml/kg)	95.8 (83.9)	293.5 (233.0)	
Cmax (ng/ml/kg)	9.1 (7.6)	28.1 (21.1)	
Cman (ng/ml/kg)	6.6 (6.1)	21.2 (17.6)	

Hepatic and Renal Disease: A cross study comparison (healthy subjects vs. patients with hepatic dysfunction) suggested a 30% decrease in fluvoxamine clearance in association with hepatic dysfunction. The mean minimum plasma concentrations in renally impaired patients (creatinine clearance of 5 to 45 ml/min) after 4 and 6 weeks of treatment (50 mg bid, N-13) were comparable to each other, suggesting no accumulation of fluvoxamine in these patients. (See PRECAUTIONS - Use in Patients with Concomitant Illness).

Clinical Trials: Adult OCD Studies: The effectiveness of fluvoxamine maleate tablets for the treatment of Obsessive CITITICAL Trials: Adult OCD Studies: The effectiveness of fluvoramine maleate tablets for the treatment of Obsessive Computsive Disorder (OCD) was demonstrated in two 10-week multicenter, parallel group studies of adult outpatients. Patients in these trials were titrated to a total daily fluvoramine maleate dose of 150 mg/day over the first two weeks of the trial, following which the dose was adjusted within a range of 100-300 mg/day (on a bid schedule), on the basis of response and tolerance. Patients in these studies had moderate to severe OCD (OSM-III-R), with mean baseline ratios on the Yale-Brown Obsessive Computsive Scale (Y-BOCS), total score of 23. Patients receiving fluvoramine maleate experienced mean reductions of approximately 4 to 5 units on the Y-BOCS total score, compared to a 2 unit reduction for placebo patients.

The following table provides the outcome classification by treatment group on the Global Improvement item of the Clinical Global Impressions (CGI) scale for both studies combined.

Outcome Classification	Fluvoxamine (N = 120)	Placebo (N = 134)
Very Much Improved	13%	2%
Much Improved	30%	10%
Minimally Improved	22%	32%
No Change	31%	51%
Worse	4%	6%

Exploratory analyses for age and gender effects on outcomes did not suggest any differential responsiveness on the basis of

age or sex.

Pediatric OCD Study: The effectiveness of fluvoxamine maleate lablets for the treatment of OCD was also demonstrated in a 10-week multicense; parallel group study in a pediatric outpatient population (children and adolescents, ages 8-17). Patients in this study were trirated to a total daily fluvoxamine dose of approximately 100 mg/day over the first two weeks of the inal following which the dose was adjusted within a range of 50-200 mg/day (on a bid schedule) on the basis of response and tolerance. All patients had moderate to severe OCD (DSM-III-R) with mean baseline ratings on the Children's Yale-Brown Obsessive Compusive Scale (CY-80CS) total score of 24. Patients receiving fluvoxamine maleate experienced mean reductions of approximately six units on the CY-80CS total score, compared to a three unit reduction for placebo patients.

The (ollowing table provides the outcome classification by treatment group on the Global Improvement item of the Clinical Global Impression (CGI) scale for the pediatric study.

OUTCOME CLASSIFICATION (%) ON CGI-GLOBAL IMPROVEMENT ITEM FOR COMPLETERS IN PEDIATRIC STUDY		
Outcome Classification	Fluvozamine (N = 38)	Ptacebo (N = 36)
Very Much Improved	21%	11%
Much Improved	18%	17%
Minimally Improved	37%	22%
No Change	16%	44%
Worse	8%	6%

Post hoc exploratory analyses for gender effects on outcomes did not suggest any differential responsiveness on the basis of gender. Further exploratory analyses revealed a prominent treatment effect in the 8-11 age group and essentially no effect in the 12-17 age group. While the significance of these results is not clear, the 2-3 fold higher steady stagarna funovaramine concentrations in children compared to adolescents (see Pharmacokinetics) is suggestive that decreased exposure in adolescents may have been a factor, and dose adjustment in adolescents (up to the adult maximum dose of 300 mg) may be indicated to achieve therapeutic benefit.

INDICATIONS AND USAGE:

INVICATIONS AND USAGE:
Fluvoxarrane maleate tablets are indicated for the treatment of obsessions and computsions in patients with Obsessive
Computsive Disorder (COC), as defined in the DSM-III-R. The obsessions or computsions cause marked distress, are timeconsuming, or significantly interfere with social or occupational functioning.

The efficacy of fluvoxarrane maleate tablets was established in thee 10 week trials with obsessive computsive outpatients with
the diagnosis of Obsessive Computsive Disorder as defined in DSM-III-R. (See Clinical Trials under CLINICAL
PHARMACOLOGY.

Obsessive Computsive Disorder is characterized.

PHARMACOLOGY:

Obsessive Compulsive Disorder is characterized by recurrent and persistent ideas, thoughts, impulses or images (obsessions) that are ego-dystonic and/or repetitive, purposeful, and intentional behaviors (compulsions) that are recognized by the person as excessive or unreasonable.

The effectiveness of fluvoramine maleate tablets for long-term use, i.e., for more than 10 weeks, has not been systematically evaluated in pacebo-controlled trials. Therefore, the physician who effects to use fluvoramine materiablets for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient. (See DOSAGE AND AnnancyTatrian)

CONTRAINDICATIONS:
Co-administration of thioridazine, terfenadine, astemizole, cisapride, or pimozide with fluvoxamine maleate tablets is contraindicated (see WARNINGS and PRECAUTIONS).
Fluvoxamine maleate tablets are contraindicated in patients with a history of hypersensitivity to fluvoxamine maleate.

WARNINGS:
Potential for Interaction with Monoamine Oxidase Inhibitors: In patients receiving another serotonin reuptate inhibitor drug in combination with monoamine oxidase inhibitors (MAOI), there have been reports of serious, sometimes latal, reactions including hyperthermia, rigidity, myoclonus, autonomic instability with possible rapid fluctuagions of vital signs, and mental status changes that include extreme agitation propressing to delithrium and come. These reactions have also been reported in patients who have discontinued that drug and have been started on a MAOI. Some cases presented with features resembling neuroleptic malignant syndrome. Therefore, it is recommended that fluvotamine maleate tablets not be used in combination with a MAOI, or within 14 days of discontinuing the statment with a MAOI. After stopping fluvotamine maleate tablets, at least 2 weeks should be allowed before starting a MAOI.

fluvozamine maleate tablets, at least 2 weeks should be allowed before starting a MAOI.

Potential Interaction with Thioridazine: The effect of fluvozamine (25 mg bid for one week) on thioridazine steadystate concentrations was evaluated in 10 male impatients with schizophrenia. Concentrations of thioridazine and its two
active metabolites, mesoridazine and sufforidazine, increased threefold following co-administration of fluvozamine.

Thioridazine administration produces a dose-related prolongation of the QTc interval, which it is sociated with serious
ventricular arrhythmias, such as torsade de pointes-type arrhythmias, and sudden death. It is likely that this experience
underestimates the degree of risk that might occar with higher doses of thioridazine. Moreover, the effect of fluvozamine
may be even more pronounced when it is administered at higher doses.

Therefore, fluvozamine and thioridazine should not be co-administered (see CONTRAINDICATIONS and PRECAUTIONS).

Potential Terfenadine, Asternizole, Cisapride, and Pirmozide Interactions: Terfenadine, asternizole, cisapride, and pirmozide are all metabolized by the cytochrome P450IIIA4 isozyme, and it has been demonstrated that ketoconazole, a potent inhibitor of IIIIA4, blocks the metabolism of these drugs, resulting in increased plasma concentrations of berenadine, asternizole, cisapride, and pirmozide cause OT profongation and have been associated with torsades de pointer-type ventricular tachycardia, sometimes fatal. As noted below, a substantial pharmacoliterici interaction has been observed for fluoroamine in combination with algrazolam, a drug that is known to be metabolized by the IIIA4 isozyme. Although it has not been definitively demonstrated that fluoroamine is a potent IIIA4 inhibitor, it is tikely to be, given the substantial interaction of fluoroamine with algrazolam. Consequently, it is recommended that fluoroamine not be used in combination with either terfenadine, asternizole, cisapride, or pimozide (see CONTRAINDICATIONS).

Other Potentially Important Drug Interactions: (Also see PRECAUTIONS - Drug Interactions)

Other Potentially Important Drug Interactions: (Also see PRECAUTIONS - Drug Interactions) Bearodiazepines Bearodiazepines metabolized by hepaits oxidation (e.g., alprazolam, midazolam, triazolam, etc.) should be used with caution because the clearance of these drugs is likely to be reduced by fluvozamine. The clearance of beazodiazepines metabolized by glocuronidation (e.g., lorazepam, oxazepam, temazepam) is unlikely to be affected by fluvozamine. Apprazolam: When fluvoxamine makeate (100 mg qd) and alprazolam (1 mg qd) were co-administered to steady state, plasma concentrations and other pharmacokinetic parameters (AUC. C_{max}. T_{1/2}) of alprazolam were approximately twice those observed when alprazolam was administered alone: oral clearance was reduced by about 50%. The elevated plasma alprazolam concentrations resulted in decreased psychomotor performance and memory. This interaction, which has not been investigated using higher doses of fluvoramine, may be more pronounced if a 300 mg daily dose is co-administered particularly since fluvoxamine exhibits non-linear pharmacokinetics over the dosage range 100-300 mg. If alprazolam is co-administered with fluvoxamine makeate tablets, the initial alprazolam of luvoxamine makeate tablets, and cases alphased and tuttation to the west effective dose is recommended. No dosage adjustment is required for fluvoxamine makeate tablets, or o-administration of fluvoxamine makeate tablets, and diazelam is openerally not advisable. Because fluvoxamine

recommended. No dosage adjustment is required for fluvoxamine maleate tablets.
Diazepam: The co-administration of fluvoxamine maleate tablets and diazepam is generally not advisable. Because fluvoxamine reduces the clearance of both diazepam and its active metabolite. No desmethyldiazepam, there is a strong tikelihood of substantial accumulation of both species during chronic co-administration. Evidence supporting the conclusion that it is madvisable to co-administer fluvoxamine and diazepam is derived from a study in which healthy volunteers taking 150 mg/day of fluvoxamine were administered a single oral dose of 10 mg of diazepam in these subjects (N+8), the clearance of diazepam was reduced by 65% and that of N-desmethyldiazepam to a level that was too low to measure over the course of the 2 week long study.

It is likely that this experience significantly underestimates the degree of accumulation that might occur with repeated diazepam administration. Moreover, as noted with altrazolam, the effect of fluvoxamine may even be more pronounced when it is administred at higher doses.

Accordingly, diazepam and fluvoxamine should not ordinarily be co-administered.

Theophylline: The effect of steady-state fluvoramine (50 mg bid) on the pharmacokinetics of a single dose of theophylline (375 mg as 442 mg aminophylline) was evaluated in 12 healthy non-smoking, male volunteers. The clearance of theophylline was decreased approximately three-fold. Therefore, if theophylline is co-administered with fluvoramine maleate, its dose should be reduced to one third of the usual daily maintenance dose and plasma concentrations of theophylline should be monitored. No dosege adjustment is required for fluvoramine maleate tablets.

Wartaria: When fluvoxamine maleate (50 mg tid) was administered concomitantly with warfarin for two weeks, warfarin plasms concentrations increased by 98% and prothrombin times were prolonged. Thus patients receiving or all articoagulants and fluvoxamine maleate tablets should have their prothrombin time monitored and their anticoagulant dose adjusted accordingly. No dosage adjustment is required for fluvoxamine maleate tablets.

PRECAUTIONS:

General: Activation of Mania/Hypomania: During premarketing studies involving primarily depressed patients, hypomania or mania occurred in approximately 1% of patients treated with fluvoxamine. In a ten week pediatric OCD study, 2 out of 57 patients (4%) treated with fluvoxamine experienced manic reactions, compared to none of 63 placeto patients. Activation of mania/hypomania has also been reported in a small proportion of patients with major affective disorder who were treated with other marketed antidepressants. As with all antidepressants, fluvoxamine maleate tablets should be used cautiously in patients with a history of mania.

Seltures: During premarketing studies, seizures were reported in 0.2% of fluvoxamine-treated patients. Fluvoxamine maleate ablets should be used cautiously in patients with a history of seizures. It should be discontinued in any patient who develops

Solicide: The possibility of a suicide attempt is inherent in patients with depressive symptoms, whether these occur in primary depression or in association with another primary disorder such as OCD. Close supervision of high risk patients should accompany initial drug therapy. Prescriptions for flivosarine maleate tablets should be written for the smallest quantity of tablets consistent with good patient management in order to reduce the risk of overdose.

Hyponatremia: Several cases of hyponatremia have been reported. In cases where the outcome was known, the hyponatremia appeared to be reversible when fluvoxamne was discontinued. The majority of these occurences have been in elderly

individuals, some in patients taking duretics or with concomitant conditions that might cause hyponatremia. In patients receiving fluvoramine maleate tablets and suffering from Syndrome of Inappropriate Secretion of Antidiuretic Hormone (SIADH), displacement syndromes, edematous states, adenal disease or conditions of fluid loss, it is recommended that serum electroyes, especially soman has well as BNN antificians can be made of regularly. Use in Patients with Concomitant Illness: Closely monitored chirical experience with fluvoramine maleate tablets in patients with concomitant systemic litenses is limited. Caution is advised in administering fluvoramine maleate tablets to patients with diseases or conditions that could affect hemodynamic responses or metabolism.

Fluvoramme maleate tablets have not been evaluated or used to any appreciable extent in patients with a recent history of myocardial infarction or unstable heart disease. Patients with these diagnoses were systematically excluded from many chinical studies during the product's permarketing testing. Evaluation of the electrocardiograms for patients with depression or OCD who participated in premarketing studies revealed not differences between fluvoramine and placebo in the emergence of chinically important ECG changes.

In patients with liver dysfunction, fluvoxamine clearance was decreased by approximately 30%. Fluvoxamine maleate tablets should be slowly litrated in patients with liver dysfunction during the initiation of tearment.

Information for Patients: Physicians are advised to discuss the following issues with patients for whom they prescribe fluvoxamine maleate tables:

Interference with Cognitive or Motor Performance: Since any psychoactive drug may impair judgement, thinking, or motor skills, patients should be cautioned about operating hazardous machinery, including automobiles, until they are certain that fluvoramine maleate tablets therapy does not adversely affect their ability to engage in such activities.

Pregnancy: Patients should be advised to notify their physicians of they become pregnant or intend to become pregnant during therapy with fluvoramine maleate tablets.

therapy with nuvoxamine maleate tablets.

Mursing: Patients receiving fluvoxamine maleate tablets should be advised to notify their physicians if they are breast feeding an infant. (See PRECAUTIONS-Nursing Mothers).

Concomitant Medicadios: Patients should be advised to notify their physicians if they are taking, or plan to take, any prescription or over-the-counter drugs, since there is a potential for clinically important interactions with fluvoxamine maleate tablets.

Alcohol: As with other psychotropic medications, patients should be advised to avoid alcohol while taking fluvoxamine maleate tablets.

Altergic Reactions: Patients should be advised to notify their physicians if they develop a rash, hives, or a related allergic phenomenon during therapy with fluvoxamine maleate tablets.

Laboratory Tests: There are no specific laboratory tests recommended.

Laborasory I resta: There are no specific aboratory lests recommended.

Drug Interactions: Potential Interactions with Drugs that Inhibit or are Metabolized by Cytochrome P450 Isonymes: Multiple hepatic cytochrome P450 (CYP450) enzymes are involved in the oxidative biotransformation of a large number of structurally different drugs and endogenous compounds. The available knowledge concerning the relatoriship of Invovarnine and the CYP450 enzyme system has been obtained mostly from pharmacokinetic interaction studies conducted in healthy volunteers, but some preliminary in vitro data are also available, Based on a finding of substantial interactions diffusionation with certain of these drugs (see later parts of this section and also WARMMOS for details) and limited in vitro data for the IBA4 isozyme, it appears that fluvoxamine inhibits the following isozymes that are known to be involved in the metabolism of the listed drugs.

LAZ	nc9	III.Ā4
Warfarin	Warfarin	
Theophylline		
Propranolol		

In vitro data suggest that fluvoxamine is a relatively weak inhibitor of the IID6 isozyme.

Approximately 7% of the normal population has a genetic defect that leads to reduced levels of activity of cytochrome P450IID6 isozyme. Such individuals have been referred to as "poor metabolizers" (PMI) of drugs such as debrisoquin, destromethorphan, and Incycick aritidepresants. While none of the drugs studed for drug interactions significantly affected the pharmacokinetics of fluvoxamine, an in vivo study of fluvoxamine single-dose pharmacokinetics in 13 PM subjects demonstrated altered pharmacokinetic properties compared to 16 "extensive metabolizers" (EMI) mean Cmax, AUC, and half-life were increased by 52%, 200%, and 62%, respectively, in the PM compared to the EMI group. This suggests that fluvoxamine is metabolized, at least in part, by IID6 isozyme, Caution is indicated in paients known to have reduced levels of P450IID6 activity and those receiving concomitant drugs known to inhibit this isozyme (e.g. quindine). The metabolism of fluvoxamine has not been fully other acterized and the effects of portern P450 isozyme mitibation, such as the tetoconazole inhibition of IIIAA on fluvoxamine metabolism have not been studied.

A clinically significant fluvoxamine interaction is possible with drugs having a narrow therapeutic ratio such as terfenadine, astemizole, cisapride, or promotide, warfarin, theophylline, certain benrodiatepines and phenyloin. If fluvoxamine maleate-tablets are to be administered together with a drug that is eliminated via oxidative metabolism and has a narrow therapeutic window, plasma levels and/or pharmacodynamic effects of the latter drug should be monitored closely, at least until steady-state conditions are reached (See CONTRAINDOCATIONS and WARNINGS).

CNS Active Drugs: Monoamine Oxidase Inhibitors: See WARNINGS.

Diazenam: See WARNINGS.

Alcohol: Studies involving single 40 g doses of ethanol (oral administration in one study and intravenous in the other) and multiple dosing with fluvoxamine maleate (50 mg bid) revealed no effect of either drug on the pharmacokinetics or pharmacodynamics of the other.

Carbamazepine: Elevated carbamazepine levels and symptoms of toxicity have been reported with the co-administration of fluvoxamine maleate and carbamazepine.

Cozarine: Revated serum levels of clozapine have been reported in patients taking fluvoxamine maleate and clozapine. Since clozapine related serum levels of clozapine have been reported in patients taking fluvoxamine maleate and clozapine. Since clozapine related serum levels of clozapine are co-administered. Patients should be closely monitored when fluvoxamine maleate and clozapine are used concurrently.

Lithium: As with other serotonergic drugs, lithium may enhance the serotonergic effects of fluvoxamine and, therefore, the combination should be used with caution. Seizures have been reported with the co-administration of fluvoxamine maleate and

Littuum.

Lorazpam: A study of multiple doses of fluvoxamine maleate (50 mg bid) in healthy male volunteers (N=12) and a single dose of lorazpam (4 mg single dose) indicated no significant pharmacokinetic interaction. On average, both lorazpam alone and lorazpam with fluvoxamine produced substantial decrements in cognitive functioning: however the co-administration of fluvoxamine and lorazpam did not produce larger mean decrements compared to lorazpam alone.

Nethadone: Significantly increased methadone (plasma leveldose) ation have been reported when fluvoxamine makeate was administered to patients receiving maintenance methadone treatment, with symptoms of opioid intoxication in one patient. Opioid withdrawal symptoms were reported following fluvoxamine maleate discontinuation in another patient. Sumatriptan: There have been rare postmarketing reports describing patients with veateness, hypereflexia, and incoordination following the use of a selective serotonin reuptate inhibitor (SSRI) and sumatriptan. If concomitant treatment with sumatriptan and an SSRI (e.g., fluoxetine, fluvoxamine, paroxetine, sertraline) is clinically warranted, appropriate observation of the patient is artised.

Tachine in a study of 13 healthy, male volunteers, a single 40 mg dose of facrine added to fluvoxamine 100 mg/day administered at steady-state was associated with five- and eight-fold increases in facrine Cmax and AUC, respectively, compared to the administration of facrine atone. Five subjects experienced nausea, vornting, sweating, and diarrhea following co-administration, consistent with the cholinergic effects of facrine.

Thioridazine: See CONTRAIND#CATIONS and WARNINGS

Intoriognee: See Counted Industrial International Internation of Tick levels have been reported with the co-administration of fluvoramine maleate and amitriptyline, clomipramine or impramine. Caution is indicated with the co-administration of fluvoramine maleate tablets and TCAs; plasma TCA concentrations may need to be monitored, and the dose of TCA may need to be reduced.

TO BE TOWNED. Tryptophan may enhance the serotonergic effects of fluvoxamine, and the combination should, therefore, be used with caution. Severe wornling has been reported with the co-administration of fluvoxamine maleate and tryptophan.

Other Drugs: Theophylline: See WARNINGS.

Warlarm See WARNINGS.

Wartarm See WANDEMICS.

Digazin: Administration of fluvoxamine maleate 100 mg daily for 18 days (N=8) did not significantly affect the pharmacokinetics of a 1.25 mg single intravenous dose of digoxin.

Dilitarm: Bradycardia has been reported with the co-administration of fluvoxamine maleate and dilitatem.

Proprando and Other Beta-Blockers: Co-administration of fluvoxamine maleate 100 mg per day and propranolol 160 mg per day in normal volunteers resulted in a mean five-fold increase (range 2 to 17) in minimum propranolol plasma concentrations. In this study, there was a slight potentiation of the propranolol-induced reduction in heart rate and reduction in the exercise disastolic pressure.

One rase of bradycardia and hypotension and a second case of orthostatic hypotension have been concrete with the

coastoke pressure.

One case of bradycardia and hypotension and a second case of orthostatic hypotension have been reported with the Con-administration of fluvoxamine maleate and metoprotol.

If propranolol or metoprotol is co-administered with fluvoxamine maleate tablets, a reduction in the initial beta-blocker dose and more cautious dose titration is recommended. No dosage adjustment is required for fluvoxamine maleate tablets.

Co-administration of fluvoxamine maleate 100 mg per day with atenolol 100 mg per day (N+6) did not affect the plasma concentrations of atenolol. Unlike propranolol and metoprolol which undergo hepatic metabolism, atenolol is eliminated nrimatily by renal excercion.

Effects of Smoking on Fluvoxamine Metabofism: Smokers had a 25% increase in the metabolism of fluvoxamine compared to nonsmokers

Telectrocompulsive Therapy (ECT): There are no clinical studies establishing the benefits or risks of combined use of ECT and fluvoxamine maleate.

Carcinogenesis, Mutagenesis, impairment of Fertility: Carcinogenesis: There is no evidence of carcinogenicity, mutagenicity or impairment of fertility with fluvoranium maleate.

There was no evidence of carcinogenicity in rats treated orally with fluvoxamine maleate for 30 months or hamslers treated orally with fluvoxamine maleate for 20 (females) or 26 (males) months. The daily doses in the high dose groups in these studies were increased over the course of the study-incrn a marinnim of 160 mg/kg to a maximum of 240 mg/kg is approximately 6 times the maximum human daily dose on a mg/m² basis.

Mutagenesis: No evidence of mutagenic potential was observed in a mouse micronucleus test, an *in vitro* chromosome aberration test, or the Arnes microbial mutagen test with or without metabolic activation. Impairment of Fertility: In lettility studies of male and lemate rats, up to 80 mg/kg/day orally of fluvoxamine maleate, (approximately 2 times the maximum human daily dose on a mg/m² basis) had no effect on mating performance, duration of gestation, or pregnancy rate,

gestation, or pregnancy rate.

Pregnancy: Teratogenic Effects: Pregnancy Category C: In teratology studies in rats and rabbits, daily oral doses of fluvoramine mateate of up to 80 and 40 mg/kg, respectively (approximately 2 times the maximum human daily dose on a mg/m² basis) caused no letal malformations. However, in other reproduction studies in which pregnant rats were dosed through wearing there was (1) an increase on pup mortality at birth (seen at 80 mg/kg) and above but not at 20 mg/kg), and (2) decreases in postnitiat pup weights (seen at 160 but not at 80 mg/kg) and survival (seen at all doses; lowest dose tested of seen and seen and

Labor and Delivery: The effect of fluvoxamine on labor and delivery in humans is unknown.

Nursing Mothers: As for many other drugs, fluvoxamine is secreted in human breast milk. The decision of whether to discontinue nursing or to discontinue the drug should take into account the potential for serious adverse effects from exposure to fluvoxamine in the nursing infant as well as the potential benefits of fluvoxamine maleate tablets therapy to the mother.

Pediatric Use: The efficacy of flavoramine melazer for the treatment of Obsessive Computaive Disorder was demonstrated in a 10 week multicenter placebo controlled study with 120 outpatients ages 8-17. In addition, 99 of these outpatients continued open-label fluvoramine melazer terratment for up to another one to three years, equivalent to 94 patient years. The adverse event profile observed in that study was generally similar to that observed in adult studies with fluvoramine (See ADVERSE REACTIONS and DOSAGE AND ADMINISTRATION).

Decreased appetite and weight loss have been observed in association with the use of fluvoramine as well as other SSRs. Consequently, regular monitoring of weight and growth is recommended if treatment of a child with an SSRI is to be continued from term.

Consequently, regular internating or mergin and guntarian consistence.

The risks, if any, that may be associated with fluvoximine's extended use in children and adolescents with OCD have not been systematically assessed. The prescriber should be mindfull that the evidence relied upon to conclude that fluvoximine is safe for use in children and adolescents denives from relatively short term clinical studies and from extrapolation of experience gained with adult patients. In particular, there are no studies that directly evaluate the effects of long term fluvoximine use on the growth, development, and maturation of children and adolescents. Although there is no alfirmative finding to suggest that fluvoximine possesses a capacity to adversely affect growth, development or maturation, the absence of such findings is not compelling evidence of the absence of the potential of fluvoximine to have adverse effects in chronic use.

Geriatric Use: Approximately 230 patients participang in controlled premarketing studies with fluvoramine maleate tablets were 65 years of age or over. No overall differences in safety were observed between these patients and younger patients. Other reported clinical experience has not identified differences in response between the elderly and younger patients. However, fluvoramme has been associated with several cases of clinically significant hyponatremia in elderly patients (see PRECAUTIONS, General). Furthermore, the clearance of fluvorammine is decreased by about 50% in elderly compared to younger patients (see Pharmacokinetics under CLINICAL PHARMACOLOGY), and greater sensitivity of one older individuals also cannot be ruled out. Consequently, fluvoramine maleate tablets should be slowly titrated during initiation of therapy.

ADVERSE REACTIONS:

ADVERSE REACTIONS:
Associated with Discontinuation of Treatment: Of the 1087 OCD and depressed patients treated with fluvoxamine maleate in controlled clinical trials conducted in North America, 22% discontinued treatment due to an adverse event. The most common events (21%) associated with discontinuation and considered to be drug related (i.e., those events associated with dropout at a rate at least twice that of placebo) included:

Table 1 ADVERSE EVENTS ASSOCIATED WITH DISCONTINUATION OF

BODY SYSTEM/	PERCENTAGE	OF PATIENTS
ADVERSE EVENT	FLUVOXAMINE	PLACEBO
BODY AS A WHOLE		
Headache	3%	1%
Asthenia	2%	<1%
Abdominal Pain	1%	0%
DIGESTIVE		
Nausea	9%	1%
Diarrhea	1%	<1%
Vorniting	2%	<1%
Anorexia	1%	<1%
Dyspepsia	1%	<1%
NERVOUS SYSTEM		
Insomnia	4%	1%
Sommolence	4%	<1%
Nervousness	2%	<1%
Agitation	2%	<1%
Dizziness	2%	<1%
Anxiety	1%	<1%
Dry Mouth	1%	<1%

ury mount
Incidence in Controlled Trials: Commonly Observed Adverse Events in Controlled Clinical Trials: Fluvoramine maleate tablets have been studied in controlled trials of OCD (N+320) and depression (N+1350). In general, adverse event rates were similar in the two data sets as well as in the pediatric OCD study. The most commonly observed adverse events associated with the use of fluvoramine maleate tablets and likely to be duly-related (incidence of 5% or greater and least twice that for placebo) derived from Table 2 were: sommolence, insommia, nervousness, itemor, nausea, dyspepsia, anoreals, vannting, anormal eyequation, asthenia, and sweating. In a pool of two studies involving only patients with OCD, the following additional events were identified using the above rule: dry mouth, decreased fibrido, urinary frequency, anorgasma, rhimits and taste perversion. In a study of pediatric patients with OCD, the following additional events were identified using the above rule: agutation, depression, dysmenorthea, flatutence, hyperkinesia, and rash.

Adverse Events Occurring at an Incidence of 1%. Table 2 enumerates adverse events that occurred in adults at a frequency of 1% or more, and were more frequent than in the placebo group, among patients treated with fluvoramine maleate tablets in two short-term placebo controlled OCD trials (10 week) and depression trials, (6 week) in which patients were doed in a range of generally 100 to 300 mydray. This table shows the percentage of patients in each group who had at least one occurrence of an event at some time during their treatment. Reported adverse events were classified using a standard COSTART-based Dictionary terminology.

event at some time during their (realment, Reported adverse events were crassified using a statual of USIAR Losses). 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 may differ from those that prevailed in the chiract thats. 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 non-drug factors to the side-effect incidence rate in the population studied.

Table 2
TREATMENT-EMERGENT ADVERSE EVENT INCIDENCE RATES BY BODY SYSTEM
IN ADULT OCD AND DEPRESSION POPULATIONS COMBINED!

	Percentage of Patients	Reporting Event
BODY SYSTEMV ADVERSE EVENT	FLUVOXAMINE N = 892	PLACEBO N = 778
BODY AS WHOLE		
Headache	22	20
Asihenia	14	6
Flu Syndrome	3	2
Chuis	2	1
CARDIOVASCULAR		
Patpitations	3	2
DIGESTIVE SYSTEM		
Nausea	40	14
Diarrhea	11	7
Constipation	10	6
Dyspepsia	10	5
Anorexia	6	2
Vorniting	5	2
Flatulence	4	3
Tooth Disorder?	3	ţ
Dysphagia	2	1

NERVOUS SYSTEM		
Somnolence	22	8
Insomora	21	10
Dry Mouth	~ i4	10
Nervousness	12	5
Dizziness	11	ě
Tremor	5	i
Anxiety	5	3
Vasodilatation ³	5 3 2 2 2 2 2	1
Hypertonia	2	,
Agitation	2	1
Decreased Libido	2	1
Depression	2	1
CNS Stimulation	2	ì
RESPIRATORY SYSTEM		
Upper Respiratory Infection	9	5
Dyspnea		. i
Yawn	2	Ò
SKIN		
Sweating	7	3
SPECIAL SENSES		
Taste Perversion	3	1
Artiblyopia ⁴	3	2
UROGENITAL		
Abnormal Ejaculation ^{5 6}	8	1
Urinary Frequency	3	2
Impotence ⁶	2	ī
Anorgasmia	Ž	o
Urinary Retention	1	0

Events for which fluvoramine maleate incidence was equal to or less than placebo are not listed in the table above, but include the following: abdominal pain, abnormal dreams, appetite increase, back pain, chest pain, confusion, dysmenorihea, lever, infection, leg cramps, migrane, mjalja, pain, paresthesia, pharyngilis, postural hypotension, prutitus, rash, rihnitis, thist infection, leg cramps, migrane, mjalja, pain, paresthesia, pharyngilis, postural hypotension, prutitus, rash, rihnitis, thist

Includes "toothache," "tooth extraction and abscess," and "caries".

Mostly feeling warm, hot, or flushed.

Mostly "blurred vision"

5 Mostly "delayed ejaculation".

6 Incidence based on number of male patients.

• Incidence based on number of mare patients.
Adverse Events in OCD Ptacebo Controlled Studies Which are Markedly Different (defined as at least a two-fold difference) in Rate from the Pooled Event Rates in OCD and Depression Placebo Controlled Studies: The events in OCD studies with a two-fold decrease in rate compared to event rates in OCD and depression studies were dysphagia and amblyopia (mostly blurred vision). Additionally, there was an approximate 25% decrease in nausea.
The events in OCD studies with a two-fold increase in rate compared to event rates in OCD and depression studies were asteria. abnormal graculation (mostly delayed glautation), anxiety, infection, rhinitis, anorgasmia (in males), depression, initiol decreased, pharynglist, agitation, impotence, myoclonus/fwitch, thirst, weight loss, leg cramps, myagia and urinary retention. These events are listed in order of decreasing tates in the OCD thats.

Other Adverse Events in OCD Pediatric Population: In pediatric patients (N-57) treated with fithoxamine maleate tablets, the overall profile of adverse events was generally similar to that seen in adult studies, as shown in Table 2. However, the following adverse events, not appearing in Table 2, were reported in two or more of the pediatric patients and were more frequent with fluvoramine maleate tablets than with placebox abnormal thinking, cough increase, dysmenorthea, ecchymosis, emotional lability, epistaxis, hyperkinesia, infection, manic reaction, rash, snustlis, and weight decrease.

emotional labulary, epistasis, hyperkinesia, infection, manic reaction, rash, shushis, and weight decrease.

Make and Female Sexual Dysfunction with SSRts: Although changes in sexual desire, sexual performance and sexual satisfaction often occur as manifestations of a psychiatric disorder and with aging, they may also be a consequence of pharmacologic treatment. In particular, some evidence suggests that sefective serotomin reuptake inhibitors (SSRfs) can cause such untoward sexual desire of the incidence and severity of untoward experiences involving sexual desire, performance and satisfaction are difficult to obtain, however, in part because patients and physicians may be retuctant to discuss them Accordingly, estimates of the incidence of untoward sexual experience and performance cited in product labeling are likely to underestimate their actual incidence.

The table below displays the incidence of sexual side effects reported by at least 2% of patients taking fluvoxamine in placebo controlled trials in depression and OCD.

Table 3

Table 3 Percentage of Patients Reporting Sexual Adverse Events in Adult

Placebo-Contro	illed Thats in OCD and	Depression	
	Fluvoxamine N×892	Placebo N=778	
Abnormal Ejaculation*	8%	1%	
Impotence*	2%	1%	
Decreased Libido	2%	1%	
Anorgasmia	2%	0%	

* Based on the number of male patients.

There are no adequate and well-controlled studies examining sexual dysfunction with fluvoxamine treatment, Fluvoxamine treatment has been associated with several cases of phapism. In those cases with a known outcome, patients recovered without sequelae and upon discontinuation of fluvoxamine. While it is difficult to know the precise risk of sexual dysfunction associated with the use of SSRI's, physicians should routinely impure about such possible side effects.

Vital Sign Changes: Comparisons of fluvoramine maleate and placebo groups in separate pools of short-term OCD and depression trials on (1) median change from baseline on various vital signs variables and on (2) incidence of patients meeting criteria for potentially important changes from baseline on various vital signs variables revealed no important differences between fluvoramine maleate and placebo.

Laboratory Changes: Comparisons of fluvoxamine maleate and placebo groups in separate pools of short-term OCD and depression trials on (1) median change from baseline on various serum chemistry, hematology, and utrialysis variables and on (2) incidence of patients meeting criteria for potentially important changes from baseline on various serum chemistry, hematology, and utinalysis variables revealed no important differences between fluvoxamine maleate and placebo.

ECG Changes: Comparisons of fluvoxamine maleate and placebo groups in separate pools of short-term OCD and depression trials on (1) mean change from baseline on various ECG variables and on (2) incidence of patients meeting criteria for potentially important changes from baseline on various ECG variables revealed no important differences between fluvoxamine maleate and placebo.

Other Events Observed During the Premarketing Evaluation of Fluvoxamine Maleate Tablets: During premarketing clinical this conducted in North America and Europe, multiple doses of fluvoxamine maleate were administered for a combined total of 2737 patient exposures in patients suffering OCD or Major Depressive Disorder. Unfoward events associated with this exposure were recorded by clinical investigators using descriptive 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 limited (i.e., reduced) number of standard event categories. In the tabulations which follow, a standard COSTART-based Dictionary terminology has been used to classify reported adverse events. If the COSTART term for an event was so general as to be uninformative, it was replaced with a more informative term. The frequencies presented, therefore, represent the proportion of the 2737 patient exposures to multiple doses of fluvoxamine maleate who experienced an event of the type cited on at least one occasion while receiving fluvoxamine maleate. All reported events are included in the list below, with the following exceptions: 1) those events for which a drug cause was considered remote (i.e., neoplasta, gastrointessinal carcinoma, herpes simplex, the proposition of the 2737 belowed the proposition of the 2737 belowed to the proposition of the 2737 belowed to the proposition of the propositi

Body as a Whole: Frequent: accidental injury, malarse; Infrequent: allergic reaction, neck pain, neck ngidny, overdose, photo-sensitivity reaction, suicide attempt; Rarie: cysl, pelvic pain, sudden death.

sensitivity reaction, suicide attempt: Raric cyst, pelvic pain, sudden death.

Cardiovascular System: Frequent: hypertension, hypotension, syncope, tachycardia; Infrequent: angina pectoris, bradycardia, cardiomopalhy, cardiovascular disease, cold extremities, conduction delay, heart failure, myocardial infarction, pallor, pulse irregular. \$1 segment changes: Raric NJ block, cerebrovascular accident, coronary artery disease, embotus, pericarduts, phiebitis, pulmonary infarction, supraventricular extrasystoles.

Digestive System: Frequent: elevated iner transaminases; Infrequent: collins, eructation esophagatis, gastrints, gastroentetitis, gastroentetitis, gastrometsimal hemorrhage, gastrointestinal uticer, gingvisits, giossitis, hemorrhoids, melena, rectal hemorrhage, stomatins; Rare, bilary pain, cholecystitis, cholelithasis, fecal incontinence, hematemesis, intestinal obstruction, jaundice.

Endocrine System: Infrequent, hypothyroidism; Rare: gotter.

Hemic and Lymphatic Systems: Infrequent: anemia, ecchymosis, leukocytosis, lymphadenopathy, thrombocytopenia, Rare: leukopenia purpura.

Metabolic and Nutritional Systems: Frequent edema, weight gain, weight loss; Infrequent dehydration, hypercholeste Rare diabetes mellitus, hyperglycernia, hyperlipidemia, hypoglycemia, hypokalemia, lactate dehydrogenase increased.

Rare: diabetes melitus, hyperlycemia, hyperlipiderma, hypodycemia, hypokalema, lactale dehydrogenase increasod. Musculosk eletal System: Infrequent: arthralgia, arthritis, bursitis, generalized muscle spasm, mysthenia, lendinous contracture, lenosynovitis, Rare: anthrosis, myopathy, pathological fracture. Nerveus System: Frequent: amnesia, apathy, hyperkinesia, hypokinesia, manic reaction, myoclonus, psycholic reaction; Infrequent: agoraphoba, akathisa, ataxia, CNS depression, convision, delirum, delusion, depersonalization, drug dependence, dyskinesia dyslonia, emotional lability, euphoria, extrapyramidal syndrome, gart unsleady, hallucinations, hemiplegia, hostility, hypersormia, hypochondriass, hypotonia, hysteria, incoordination, increased ailivation, increased libido, neuralga, paralysis, paranoid resction, phoba, psychosis, step disorder, stupor, twitching, vertigo: Rare, akinesia, coma, fibrillations, mutism, obsessions, reflexes decreased, sturred speech, tardive dyskinesia, torticollis, trismus, withdrawal syndrome.

Respiratory System: Frequent: cough increased, sinusitis: Infrequent: asthma, bronchitis, epistaxis, hoarseness, hyperventita-tion: Rare: apnea-congestion of upper airway, hemoptysis, hiccups, laryngismus, obstructive pulmonary disease, pneumonia. Skin: Infrequent: acne, alopecia, dry skin, eczema, exfoliative dermatitis, furunculosis, sebormea, skin discoloration, urticana.

Senti imrequent ache, appecia, ory skin, eczemą, exionianie gentantis, tururcuoss, seconnea, skin uscuorantio, micara, Special Senses: infrequent: accommodation abnormat, conjunctivitis, deafness, diplopia, dry yese, ear pain, eye pain, mydnasis, otitis media, parosmia, photophobia, taste loss, visual field defect: Rare: corneal vicer, retinal defactment. Urogential System: infrequent, anuria, breast pain, cystitis, delayed menstruation¹, dysuria, female lactation¹, hematuria, menopause¹, menorrhaga¹, metrorrhaga¹, nocturia, polyura, premenstrual syndrome¹ urnary rocontinence, urnary tract infection, urnary urgency, urnation impaired, vaginal hemorrhage¹, vaginitis¹: Rare: kidney calculus, hematospermia², oliguna.

Postmarketing Reports: Voluniary reports of adverse events in patients taking fluvoramine maleate tablets that have been received since market introduction and are of unknown causal relationship to fluvoramine maleate tablets that have been received since market introduction and are of unknown causal relationship to fluvoramine maleate tablets use include: ventricular techycarda (including torsacles de pointes), popityria, toxic epidermal necrofysis. Slevers-Johnson syndrome. Henoch-Schoenlen purpura, bullous eruption, priapism, agranufocytosis, aplastic anemia, anaphytactic reaction, angioedema, vasculitis, hypomatrema, acute rend failure, hepatitis, pancreatitis, ileus, serotonin syndrome, neuropathy, laryngismus, and server akinesia with fever when fluvoramine was co-administered with amilipsychotic medication.

DRUG ABUSE AND DEPENDENCE: Controlled Substance Class: Fluvoxa voxamine maleate tablets are not controlled substances.

Controlled Substance Class: (invotamine meale) labels are not controlled Substance. Physical and Psychological Dependence: The potential for abuse, tolerance and physical dependence with fluvoxamine maleate has been studied in a nonhuman primate model. No evidence of dependency phenomena was found. The discontinuation effects of fluvoramine maleate tablets were not systematically studied in chinical trials for potential for abuse, but there was no indication of drug-seeking behavior in clinical trials. It should be noted, however, that patients at nisk for drug dependency were systematically studied in certain emaleate. Generally, it is not possible to predict on the basis of preclinical or premarketing chinical experience the extent to which a CNS active drug will be misused, diverted, and/or abused once marketed. Consequently, physicians should carefully evaluate patients for a history of drug abuse and follow such patients closely, observing them for signs of fluvoxamine maleate misuse or abuse (i.e., development of tolerance, incrementation of dose, drug-seeking behavior).

OVERDOSAGE:

OVERDOSAGE:
Human Experience: Worldwide exposure to fluvoxamine maleate includes over 45,000 patients treated in clinical trials and an estimated exposure of 23,000,000 patients treated thuring worldwide marketing experience (circa 1999). Of the 452 cases of deliberate or accidental overdose involving fluvoxamine maleate reported from this population, there were 44 deaths. Of these, six were in patients laking fluvoxamine maleate atone and the remaining 38 were in patients taking fluvoxamine maleate atone and the remaining 38 were in patients taking fluvoxamine maleate atone with other drugs. Among non-latar overdose cases, 375 patients had complete recovery; four patients experienced adverse sequelae of overdosage, to include persistent mydifasis, unsteady gait, kidney complications (from trauma associated with extensions of the patients and bower indirection requiring a hemicolectory. In the remaining 41 patients, the outcome was unknown. The largest known ingestion of fluvoxamine maleate involved 12,000 mg (equivalent to 2 to 3 months' dosage). The patient fully recovered. However, ingestions as low as 1,400 mg have been associated with fethal outcome, indicating considerable prognostic variability. Commonly (25%) observed adverse events associated with fluvoxamine maleate overdose include coma, hypokalemia, hypotension nausea, respiratory difficulties, somnolence, tachycardia and vorniting. Other notable signs and symptoms seen with fluvoxamine maleate overdose include coma, hypokalemia, hypotension nausea, respiratory difficulties, somnolence, tachycardia and vorniting. Other notable signs and symptoms seen with fluvoxamine maleate overdose include coma, hypokalemia, hypotension nausea, respiratory difficulties, somnolence, tachycardia and vorniting. Other notable signs and symptoms seen with fluvoxamine maleate overdose include coma, hypotension, first degree atrioventricular block, bundle branch block, and junctional rhythm), convulsions, termor, tharthea, and increased reflexes.

Management of Overdoses

Management of Overdose: Treatment should consist of those general measures employed in the management of

overousage with any anticepressals.

Ensure an adequate arraw, oxygenation, and ventilation, Monitor cardiac rhythm and vital signs. General supportive and symptomatic measures are also recommended, Induction of emesis is not recommended. Castric lavage with a large-bore orogastric tube with appropriate airway protection, if needed, may be indicated if performed soon after ingestion, or in completely designed.

bore orogastic tube with appropriate arrivary protection, if needed, may be indicated if performed soon after ingestion, or in symptomatic patients.

Activated charcoal should be administered. Due to the large volume of distribution of this drug, forced diuresis, dallysis, hemoperfusion and exchange translusion are unlikely to be of benefit. No specific antidotes for fluvoxamine are known. A specific caution involves patients laking, or recently having taken, fluvoxamine who might ingest excessive quantities of a tricyclic antidepressant. In such a case, accumulation of the parent tricyclic and/or an active metabolite may increase the possibility of clinically significant sequelae and extend the time needed for close medical observation. 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 center is are listed in the *Physicians' Desk Reference* (PDR).

DOSAGE AND ADMINISTRATION:

DOSAGE AND ADMINISTRATION:
Dosage For Adults: The recommended starting dose for fluvoxamine maleate tablets in adult patients is 50 mg, administered as a single daily dose at bedtime. In the controlled clinical trials establishing the effectiveness of fluvoxamine maleate tablets in OCD, patients were titrated within a dose range of 100 to 300 mg/dys. Consequently, the dose should be increased to 50 mg increments every 4 to 7 days, as tolerated, until maximum therapeutic benefit is achieved, not to exceed 300 mg per day. It is advisable that a total daily dose of more than 100 mg should be given in two divided doses. If the doses are not equal, the larger dose should be given at bedtime.

larger dose should be given at bedtime.

Dosage for Pediatric Population (children and adolascents): The recommended starting dose for fluvozamine mateaie tablets in pediatric populations (eges 8-17 years) is 25 mg, administered as a single daily dose at bedtime. In a controlled clinical that establishing the effectiveness of fluvozamine maker tablets in OCD, pediatric pairs (ages 8-17) were intraded within a dose range of 50 to 200 mg/day. Physicians should consider age and gender differences when dosing pediatric patients. The maximum dose in children up to age 11 should not exceed 200 mg/day. Their apeutic effect in female children may be achieved with flower doses. Dose adjustment in adolescents (up to the abult maximum dose of 300 mg) may be indicated to achieve their apeutic benefit. The dose should be increased in 25 mg increments every 4 to 7 days, as tolerated, until maximum therapeutic benefit is achieved. It is advisable that a total daily dose of more then 50 mg should be given in two divided doses. If the two divided doses are not equal, the larger dose should be given a bedtime.

Dosage for Elderly or Hepatically impaired Patients: Elderly patients and those with hepatic impairment have been observed to have a decreased clearance of fluvoramine maleate. Consequently, it may be appropriate to modify the initial dose and the subsequent dose titration for these patient groups.

Maintenance/Continuation Extended Treatment: Although the efficacy of fluvoxamine maleate tablets beyond 10 weeks of dosing for OCD has not been documented in controlled triats, OCD is a chronic condition, and it is reasonable to consider continuation for a responding patient, Dosage adjustments should be made to maintain healient on the lowest effective dosage, and patients should be periodically reassessed to determine the need for continued treatment.

- effective gosage, any personnel.

 HOW SUPPLIED:
 Fluvoramine Maleate lablets are available as follows:

 25 mg Each unscored green, capsule-shaped, film coated tablet imprinted with R on one side and 704 on the other side contains 25 mg of fluvoramine maleate. Tablets are supplied in bottles of 100 (NDC 0228-2704-11) with a child-resistant closure and bottles of 100 (NDC 0228-2704-10), 500 (NDC 0228-2704-50), and 1000 (NDC 0228-2704-96) without a child-resistant closure.
- Each blue, capsude-shaped, film coated tablet imprinted with *θ* and 655 on one side and bisect on the other side contains 50 mg of fluvoxamine maleate. Tablets are supplied in bottles of 100 (NDC 0228-2655-11) with a child-resistant closure and bottles of 100 (NDC 0228-2655-10), 500 (NDC 0228-2655-50), and 1000 (NDC 0228-2655-96) without a child-resistant closure.
- 100 mg Each white, capsule-shaped, film coaled tablet imprinted with *R* and 656 on one side and bisect on the other side contains 100 mg of fluvoramine maleate. Tablets are supplied in bottles of 100 (NDC 0228-2656-11) with a childresistant closure and bottles of 100 (NDC 0228-2656-50), 500 (NDC 0228-2656-50), and 1000 (NDC 0228-2656-50) without a childresistant closure.

Dispense in a tight container with a child-resistant closure

Store at controlled room temperature 15°-30°C (59°-86°F). Protect from high humidity.

R only

25 mg **Fablets** NDC 0228-2704-96 D \mathbf{P}

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EACH TABLET CONTAINS: Fluvoxamine Maleate Dispense in a tight container with a child-resistant USUAL DOSAGE: See package insert Store at controlled room temperature 15°-30°C (59°-86°F). Protect from high humidity. PHARMACIST: Container closure is not child-resistant. Manufactured by: PUREPAC PHARMACEUTICAL CO. Elizabeth, NJ 07207 USA Rev. 3/00

Lot No.:

SAMPLE



0 1000 Scored Tablets D SCORED TABLETS l'ablets Z m NDC 0228-2656-96

R_x only

EACH SCORED TABLET CONTAINS: Fluvoxamine Maleate Dispense in a tight container with a child-resistant closure. USUAL DOSAGE: See package insert. Store at controlled room temperature 15°-30°C (59°-86°F). Protect from high humidity. PHARMACIST: Container closure is not child₅resistant. Manufactured by: PUREPAC PHARMACEUTICAL CO. Elizabeth, NJ 07207 USA Rev. 3/00 Lot No .: . يونم ش

SAMPLE

SCORED TABLETS 50 mg **Fablets** LEAT

1000 Scored Tablets

NDC 0228-2655-96

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EACH SCORED TABLET CONTAINS: Fluvoxamine Maleate

Dispense in a tight container with a child-resistant closure.

USUAL DOSAGE: See package insert.

Store at controlled room temperature 15°-30°C (59°-86°F). Protect from high humidity.

PHARMACIST: Container closure is not child-resistant.

Manufactured by: PUREPAC PHARMACEUTICAL CO. Elizabeth, NJ 07207 USA

Rev. 3/00

Lot No.:

SAMPLE

