Fluvoxamine Maleate Tablets

Rx only

cidality in Children and Adoles

Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in cididran and adolescents with Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of fluvoramine or any other antidepressant in a child or adolescent must balance this risk with the clinical need. Patients who are started on therapy should be observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber. Fluvoxamine is not approved for use in pediatric patients except for patients with Obsessive Compulsive Disorder (OCD). (See WARNINGS and PRECADTINDS. Pediatric Use).

ses of short-term (4 to 16 weeks) placeho-controlled trials of nine antidenressant drugs (SSR) routed analyses of start-term (4 to lo weeds, placeto-controlled traits of time amoutepressant origis (Sostian and others) in children and adolescents with Major Depressive Disorder (MDD), Obsessive Compulsive Disorder (OCD), or other psychiatric disorders (a total of 24 trials involving over 4400 patients) have revealed a greater risk of adverse events representing suicidal thinking or behavior (suicidality) during the first few months of treatment in those receiving antidepressants. The average risk of such events in patients and others) in children and add receiving antidepressants was 4%, twice the placebo risk of 2%. No suice ides occurred in these trials

DESCRIPTION

DESCRIPTION

Thuroxamine maleate is a selective serotonin (5-HT) reuptake inhibitor (SSRI) belonging to a new chemical series, the 2-aminoethyl oxime ethers of aralkylketones. It is chemically unrelated to other SSRIs and clomipramine. It is chemically designated as 5-methoxy-4'-(trifluoromethyl)valerophenone-(E)-0-(2-aminoethyl)oxime maleate (1:1) and has the molecular formula $C_{15}H_{21}O_{20}F_{3} = C_{4}H_{4}O_{4}$. Its molecular weight is 434.4. The structural formula is:

C₁H₂(O₂N_F3 • C₂H₄(O₄ Fluvoanine maleate is a white or off white, oddress, crystalline powder which is sparingly soluble in water, freely soluble in ethanol and chibroform and practically insoluble in diethyl ether. Fluvoanine Maleate Tablets are available in 25 mg, 50 mg and 10 mg strengths for oral administration. In addition the the active ingredient, fluvoanine melatest, each tablet contains the following inactive ingredients: carnauda wax, corn starch, hyprometiose (3xP), hyprometiose (6xP), magnesium stearels, mannful, methylcibuluse, polyethylene glycol, polysorate 80, pregelatitudes starch, purified water, sodium starch glycolet, faitnami doxide, and yellow in oxides. The 100 mg tablets also contain red iron oxide. CLINICAL PHARMACOLOGY

Pharmacodynamics
The mechanism of action of fluvoxamine maleate in Obsessive Compulsive Disorder is presumed to be linked to its specific serotonin reuptake inhibition in brain neurons. In preclinical studies, it was found that fluvoxamine inhibited

specials between topicals and the internal public of servicinis.

In in vitor studies fluvosamine maleate had no significant affinity for histaminergic, alpha or beta adrenergic, muscarrinc, or dopaminergic recepturs. Anlagonism of some of these recepturs is thought to be associated with various sedative, cardiovascular, anticholinergic, and extrapyramidal effects of some psychotropic drugs.

illity: The absolute bioavailability of fluvoxamine maleate is 53%. Oral bioavailability is not significantly

e proportionality study involving fluvoxamine maleate at 100, 200 and 300 mg/day for 10 consecutive days in

in a obes proportionality study involving unoxaminie mieaeue at 100, 200 and 300 inguiety for 10 consecutive days in 30 normal voluntees, Steady state was achieved after about a week of dosing, Maximum plasma concentrations a steady state occurred within 3 to 8 hours of dosing and reached concentrations averaging 88, 283 and 546 ng/ml, respectively. Thus, fluvoxamine had nonlinear pharmacokinetics over this dose range, i.e., higher doses of fluvoxamine maleate produced disgroportionalety higher concentrations than predicted from the lower dose.

Distribution/Protein Binding: The mean apparent volume of distribution for fluvoxamine is approximately 25 L/kg, suggesting extensive tissue distribution. Approximately 80% of fluvoxamine is bound to plasma protein, mostly

Bistribution/Protein Binding: The mean apparent volume of distribution for fluvoxamine is approximately 25 L/sq., suggesting extensive lissue distribution. Approximately 80% of fluvoxamine is bound to plasma protein, mostly albumin, over a concentration range of 20 to 2000 ng/mL.

Metabolism: Horoxamine metalest is extensively metabolized by the liver; the main metabolic routes are oxidative demethylation and deamination. Nine metabolisis were identified following a 5 mg radiolabelled dose of fluvoxamine mateste, constituting approximately 85% of the urinary excellen products of Huroxamine. The main metabolic was fluvoxamine acid which, together with its N-acetylated analog, accounted for about 60% of the urinary excretion products of Huroxamine. The main metabolic material products are all fluvoxed to the state of the state

dose of 300 mg/day, indicating that fluvoxamine exposure was similar in these two populations (see table below). Do adjustment in adolescents (up to the adult maximum dose of 300 mg) may be indicated to achieve therapeutic benefit dose of 300 mg/day, indicating that fluy

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

| Pharmacokinetic Parameter | Dose = 200 mg/day (100 mg BID) | Dose = 300 mg/day (150 mg BI Dose = 300 mg/day (150 mg BID) Children (n=10) Adolescent (n=17) Adol (body weight corrected) cents (n=13) Adults (n=16) AUC 0-12 (ng.h/mL/kg)

C_{max} (ng/mL/kg)

C_{min} (ng/mL/kg) 59.4 (40.9) 155.1 (160.9) 43.9 (27.9) 69 6 (46 6) 2.9 (2.0) 4.6 (3.2)

Comparison of Mean (SD) fluvoxamine pharmacokinetic parameters between male and female children (6 to 11 years)			
Pharmacokinetic Parameter	Dose = 200 mg/day (100 mg BID)		
(body weight corrected)	Male Children (n=7)	Female children (n=3)	
AUC 0-12 (ng.h/mL/kg)	95.8 (83.9)	293.5 (233.0)	
C _{max} (ng/mL/kg)	9.1 (7.6)	28.1 (21.1)	
C _{min} (ng/mL/kg)	6.6 (6.1)	21.2 (17.6)	

Henatic and Renal Disease: A cross study comparison (healthy subjects vs. patients with henatic dysfunction) nepuru. ann nenan unsease: A cross suury companson (neatmy suspects vs. patients with hepatic of sylunction) suggested a 30% decrease in fluxoramine 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 810). N=15) were comparable to each other, suggesting no accumulation of fluvoxamine in these patients. See PRECAUTIONS - Use in Patients with Concomitant Illness) Clinical Trials

Clinical Trials

Adult OCD Studies: The effectiveness of fluvoxamine maleate tablets for the treatment of Obsessive Comp Rount Up Studies: The effectiveness of involvalantier instead tables for use treatment of obsessive Conjudisive Disorder (CIO) was demonstrated in two 10-veek multicenter, parallel group studies of adult outpatients. Patients in these trials were thrated to a total daily fluvouraine 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 to 300 mg/day (or a BIO schedule), on the basis of response and tolerance. Patients in these studies had moderate to severe (CO (ISM-II-R), with mean baseline ratings on the Y48-Brown Obsessive Computer Scale (Y-80CS), total score of 23 Alterials receiving livouraniem antaless experienced mean reductions of approximately 4 to 5 units on the Y-BOCS total score, compared to a 2 unit reduction

table provides the outcome classification by treatment group on the Global Improvement item of the

OUTCOME CLASSIFICATION (%) ON CGI-GLOBAL IMPROVEMENT ITEM FOR COMPLETERS IN POOL OF TWO ADULT OCD STUDIES				
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%		

basis of age or sex.

Pediatric OCD Study: The effectiveness of fluvoxamine maleate tablets for the treatment of OCD was also demonstrated in a 10-week multicenter, parallel group study in a pediatric outpatient population (children adolescents, ages 8 to 17). Patients in this study were titrated to a total daily fluvoxamine dose of approximately another common special productions and a second production of the first live weeks of the trial, following which the dose was adjusted within a range of 50 to 200 mg/day (on a BID schedule) on the basis of response and fulerance. All patients had moderate-to-severe OCD (DSM-III-R) with mean baseline ratings on the children's Yale-Brown Obsessive Compulsive Scale (C7-BOOS) total score of 24. Patients receiving fluvoxamine maleate experienced mean reductions of approximately 6 units on the CY-BOCS total score, pared to a three-unit reduction for placebo patients

The following 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 Fluvoxamine (N=38) Placebo (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 responsivenes on the basis of gender. Further exploratory analyses revealed a prominent treatment effect in the 8 to 11 age group and essentiality no effect in the 2 to 15 age group. While he significance of these results is not clear, the 2 to 3 foll higher steady state plasma fluvoxamine concentrations in children compared to adolescents (see Pharmacokinetics) is suggestive that decreased exposure in adolescents my 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.

NINICATIONS AND USAGE

Howardian maleste tables are indicated for the treatment of obsessions and compulsions in patients with Obsessive
Compulsive Disorder (DCD), as defined in the DSM-III+. The obsessions or compulsions cause marked distress, are
time-consuming, or symilicantly interfer with social or occupational functioning.

The efficacy of fluvoramine maleste tablets was established in three 10-week trials with obsessive compulsive
outpatients with the diagnosis of Obsessive Compulsive Sorder as defined in DSM-III-R, (See Clinical Trials under
outpatients with the diagnosis of Obsessive Compulsive Sorder as defined in DSM-III-R, (See Clinical Trials under

CLINICAL PHARMACOLOGY.)

CLINICAL PHARMACOLÓRY.)

Dessestve 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 fluvoxamine maleate tablets for long-term use, i.e., for more than 10 weeks, has not been systematically evaluated in placebo-controlled trials. Therefore, the physician who elects to use fluvoxamine maleate tablets for cardended periods should periodically re-evaluate the long-term usefulness of the drug for the individual pattern (See 1028AGE AND ADMINISTRATION)

Co-administration of thioridazine, terfenadine, astemizole, cisapride, pimozide, alosetron or tizanidine with fluvoxamine leate is contraindicated (see WARNINGS, PRECAUTIONS, and LotronexTM (alosetron) package insert). Fluvoxamin leate tablets are contraindicated in patients with a history of hypersensitivity to fluvoxamine maleate.

Potential for Interaction with Monoamine Oxidase Inhibitors

n patients receiving another serotonin reuptake inhibitor drug in combination with monoamine oxidase In patients receiving another serotonin reuptake inmutor orug in communation with monoamine unausee inhibitors (MAOI), there have been reports of serious, sometimes falta, reactions including hyperthermia, rigidity, myocionus, autonomic instability with possible rapid fluctuations of vital signs, and mental status changes that include externe agilation progressing to delirum and comm. 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 neurolegic madiginant syndrome. Therefore, it is recommended that fluvoxamine made tablets, not be used in combination with a MAOI, or within 14 days of discontinuing breatment and MAOI. After stopping fluvoxamine madelle blabets, a tests? Leveks should be allowed before starting a MAOI. MAOI. After stopping fluvoxamine males Potential Interaction with Thioridazine

r denual interaction with informazine The effect of fluvoxamine (25 mg BID for one week) on thioridazine steady-state concentrations was evaluated

the effect of muvicamine (2.5 mg BID for one week) on thioridazine steady-state concentrations was evaluated in 10 main inpatients with schizophrenia. Concentrations of thioridazine and its two active metabolities, mesoridazine and sufficient profit prof Moreover, the effect of fluvoxamine may be even more pronounces when Therefore, fluvoxamine and thioridazine should not be co-adminis PRECAUTIONS). Potential Terfenadine, Astemizole, Cisapride, and Pimozide Interactions

Potential Terfenadine, Astemizole, Cisapride, and Pimozide Interactions Terfenadine, astemizole, cisapride, and primozide are all metabolized by the CYP3A4 isozyme, and it has been demonstrated that ketoconazole, a potent inhibitor of 3A4, blocks the metabolism of these drugs, resulting in increased plasma concentrations of parent drug, Increased plasma concentrations of terfenadine, astemizale, cisapride, and pimozide cause OT prolongation and have been associated with torsadies de pointes-type ventricular tachycardia, sometimes fast ald. As note below, a substantial pharmacolientic interaction has been observed for fluvoxamine in combination with alprazolam, a drug that is known to be metabolized by the 3A4 sozyme. Although it has not been definitively demonstrated that fluvoxamine is a potent 3A4 inhibitor, it is likely to be, given the substantial interaction of fluvoxamine with alprazolam. Consequently, it is recommended that fluvoxamine not be used in combination with either terfenadine, astemizole, cisapride, or pimozide (see DAMERIA TRANSIA) CATONIS and PRECAUTIONS).

Juyoxamine is a potent inhibitor of CYP1A2 and tizanidine is a CYP1A2 substrate. The effect of fluyoxamine (100 mg daily for 4 days) on the pharmacokinetics and pharmacodynamics of a single 4 mg dose of tizanidine has been studied in 10 healthy subjects. Tizanidine fi_{max} was increased approximately 12-fold (range 5-fold 25-fold, edition half-life was increased by almost 3-fold, and AUD increased 33-fold (range 14-fold to 103-3-fold). fold). The mean maximal effect on blood pressure was a 35 mm Hg decrease in systolic blood pressure, a 20 mm Hg decrease in diastolic blood pressure, and a 4 beat/min decrease in heart rate. Drowsiness was significantly increased and performance on a psychomotor task was significantly impaired. Fluvoxan tizanidine should not be used together. (See CONTRAINDICATIONS and PRECAUTIONS).

Protection Assection Interaction

Fluorosamine, an inhibitor of several CYP isozymes, has been shown to increase mean alosetron plasms
concentrations (AUC) approximately 6-fold and prolonged the half-life by approximately 3-fold. Consequently
it is recommended that fluovoxamine not be used in combination with alosetron (See CONTRAINDICATIONS
PRECAUTIONS, and Lotronex*** (alosetron) package insert).

Clinical Worsening and Suicide Risk

Precurations, and connect** (alloseron) package inserty.

Clinical Worsening and Suicide Risk.
Patients with Major Depressive Bourder (MDD), both adult and pediatric, may experience worsening of their depression and/or the emergence of suicided ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. There has been only a real band particular the property of t MDD trials, but there were signals of risk arising from some trials in other psychiatric indications (Obsessiv Compulsive Disorder and social anxiety disorder) as well. No suicides occurred in any of these trials. It is unknow wither the suicidality risk in pediatric patients extends to longer-term use, i.e., beyond several months. It is also

whether the suicidality risk in prelater patients extends to longer-term use, i.e., beyond several months. It is also unknown whether his suicidality risk entends to adults. All pediatrish suicidality, and unusual changes in behavior, especially during the initial few months of a course of the patients being treated with antidepressants for any indication should be observed closely for clinical worsenia, suicidality, and unusual changes in behavior, especially during the initial few months of a course of the property of the course of the course of the course of decreases. Such observation would generally include at least weekly face-to-fuace contact with patients or heir family members or caregivers during the first 4 weeks of treatment, then every other week visits for the next 4 weeks, then at 12 weeks, and as officially included beyond 12 weeks. Additional contact visits for the next 4 weeks, then at 12 weeks, and as officially included beyond 12 weeks. Additional contact visits for the next 4 weeks, then at 12 weeks, and as officially included beyond 12 weeks. Additional contact visits for the next 4 weeks, then at 12 weeks, and as officially included beyond 12 weeks. Additional contact visits for the next 4 weeks, then at 12 weeks, and as officially included beyond 12 weeks. Additional contact visits for the next 4 weeks, then at 12 weeks, and as a contact of the contact of the contact visits for the next 4 weeks, then a support of the contact visits of the next 4 weeks, then a support of the contact visits for the next 4 weeks of the contact visits for the next 4 weeks of the contact visits of the next 4 weeks of the contact visits for the next 4 weeks of the next 4 weeks 4 weeks 4 weeks 4 weeks 4

race visits. Adults with MDD or co-morbid depression in the setting of other psychiatric illness being treated with

Adults with MDD or co-mothid depression in the setting of other psychiatric illness being treated with antidepressants should be observed similarly for clinical working many considerably expectagly during the initial few months of a course of drug therapy, or at times of does changes, either increases or decreases. The following symptoms, anuels, pations, paniet acts, incomina intrability, hostility, agreesteness, impulsivily, adathisis (psychomotor restlessness), hypomania, and mania, have been reported in adult and pediatric patients being treated with antidipressants for Made Depressive Bonder's as well as for other indications, both spychiatric and nonpsychiatric. Although a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of sucided impulses has not been established, there is concern that such symptoms may represent precursors to emerging suicidality. Consideration should be given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that might be precusors to represent precursors to experient continuing the medication, in patients whose depression is presistently worse, or who are experiencing emergent suicidality or symptoms that might be precusors to represent precursors.

be precursors to worsening depression or suicidality, especially if these symptoms are severe, abrupt in onset, or y not part of the patient's presenting symptoms.

If the decision has been made to discontinue treatment, medication should be tapered, as rapidly as is fea

If the decision has been made to descontinue treatment, medication should be tapered, as a papily as is teasible, but with recognition that abrupt discontinuation can be associated with certain symptoms (see PRECAUTIONS and DOSAGE AND ADMINISTRATION-Discontinuation of Treatment with Fluvoxamine Maleate Tablets, for a description of the sics of descontinuation of fluvoxamine maleate tablets). Families and caregivers of pediatric patients being treated with antidepressants for Major Depressive Disorder or other indications, both psychiatric and nonsynchiatric, should be alerted about the need to monitor patients for the emergence of agitation, irribability, unusual changes in behavior, and the other symptoms described above, as well as the emergence of suicidality, and to report such symptoms immediately to health care providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for fluvoxamine maleate tablets should be written for the smallest quantity of tablets consistent with good patient management, in order to reduce the risk of overdose. Families and caregivers of adults being treated for depression

Screening Patients for Bipolar Disorder: A major depressive episode may be the initial presentation of bipolar disorder. It is generally believed (though not established in controlled trials) that treating such an episode with an er. It is generally believed (though not established in controlled trials) that treating such an episode with a ressant alone may increase the likelihood of precipitation of a mixed/manic episode in patients at risk for bipola disorder. Whether any of the symptoms described above represent such a conversion is unknown. However, prior to initiating treatment with an antidepressant, patients with depressive symptoms should be adequately screened to determine if they are at risk for bipolar disorder; such screening should include a detailed psychiatric history, inclu a family history of suicide, bipolar disorder, and depression. It should be noted that fluvoxamine maleate is not

approved for use in treating bipolar depression. Other Potentially Important Drug Interactions (Also see PRECAUTIONS - Drug Interactions)

Benzodiazepines: Benzodiazepines metabolized by hepatic oxidation (e.g., alprazolam, midazolam, triazolam, etc.) should be used with caution because the clearance of these drugs is likely to be reduced by fluvoramine. The clearance of benzodiazepines metabolized by glucuronidation (e.g., brazepam, oxazepam, temazepam) is unlikely to be

clearance of Detrooldazpines metabolized by gucurdinaturi (e.g., posezpiani, p

ovoxamine maleate tablets. Opam - The co-administration of fluvoxamine maleate tablets and diazepam is generally not advisable. Because functional "Mo or butministeration of notification and author and author and such careful function for both species during chronic co-administration.

Evidence supporting the conclusion that it is inadvisable to co-administrating functions and diazepam is derived from a

neembool of substantial accumination to only species to thing clinic or-antimisation. Or administration with the street of the process of the control of the energence of this control of the energence of this control of the energence of this control of the energ antipsychotic agent should be discontinued immediately if such events occur and supportive sympt

should be initiated. **Theophylline:** The effect of steady-state fluvoxamine (50 mg BID) on the pharmacokinetics of a single dose of theophylline (375 mg as 442 mg aminophylline) was evaluated in 12 healthy nonsmoking, male volu clearance of theophylline was decreased approximately three-fold. Therefore, if theophylline is co-administered with fluvoxamine maleate, its dose should be reduced to one third of the usual daily maintenance dose and plasma concentrations of theophylline should be monitored. No dosage adjustment is required for fluvoxamine maleate tablets Warfarin: When fluvoxamine maleate (50 mg TID) was administered concomitantly with warfarin for two weeks, warfarin plasma concentrations increased by 98% and prothrombin times were prolonged. Thus patients receiving oral anticoagulants and fluvoxamine maleate tablets should have their prothrombin time monitored and their anticoagulan dose adjusted accordingly. No dosage adjustment is required for fluvoxamine maleate tablets.

General
Miscontinuation of Treatment with Fluvoxamine Maleate Tablets: During marketing of fluvoxamine maleate tablets
and other SRHs and SRHs Servitorin and Norepinephrine Reuptake Inhibitors, there have been spontaneous reports of
adverse events occurring upon discontinuation of these drugs, particularly when aburt, including the followingdysphoric mood, Irritability, agitation, dizziness, sensory disturbances (e.g., paresthesias, such as electric shock
sensations), amvicy, contusion, headache, lettargy, emotional tablity, insomain, and hypomania. While these events
are generally self-limiting, there have been reports of serious discontinuation symptoms. Patients should be monitored
for these symptoms when discontinuing treatment with fluvoxamine makester tablets. A gradual reduction in the dose
rather than aburty cessation is recommended whenever possible. If intolerable symptoms occur following a decrease in
the dose or upon discontinuation of treatment, their resuming the previously prescribed dose may be considered.
Subsequently, the physician may continue decreasing the dose but at a more gradual rate (see DOSAGE AND
ANDMISTRATION). ADMINISTRATION

Abnormal Bleeding: Published case reports have documented the occurrence of bleeding episodes in patients treated with pyschotropic drugs that interfere with serotonin reuptake. Subsequent epidemiological studies, both of the case-control and cohort design, have demonstrated an association between use of pyschotropic drugs that interfere with serotonin reuptake and the occurrence of upper gastrointestinal bleeding. In two studies, concurrent use of a serudum reuprake dare uite occurrence (1) pager agston interestular direction; in two studies, countreture dei un nonsterioridal arrihammatory drug (NSAID) or asprim potentiated the risk of bleeding (see **Drug Interactions**). Although these studies focused on upper gastrointeistinal bleeding, there is reason to believe that bleeding at other sites may be similarly optentiated. Patients should be cautioned regarding the risk of bleeding associated with the

may be similarly potentiated. Patients should be cautioned regarding the risk of bleeding associated with the concomilant use of throacmine with NSADs, saprin, or other drugs that affect congulation. Activation of Mania/Hypomaniae: During premarketing studies involving primarily depressed patients, hypomania or mania occurred in appromately 14% of patients treated with throacmine; in a ten week pediatric OCD study, 2 out of 57 patients (4%) treated with furovamine experienced marior reactions, compared to none of 63 placebo patients. Activation of mainsi hypomania has able ober reported in a small proportion of patients with major affective disorder Activation of mainsi hypomania has able ober reported in a small proportion of patients with any affective disorder should be used caudiously in patients with a bistory of mains. Sectures: During permarketing studies, solutions with a compared to 0.2% of throacmine-treated patients. Hypomaniae maleate tablets should be used caudiously in patients with a history of sezures. It should be discontinued in any patient with developes solutions.

ho develops seizures.

yponatremia: Several cases of hyponatremia have been reported. In cases where the outcome was known, the

hyponatremia appeared to be reversible when fluvoxamine was discontinued. The majority of these occurrences have been in elderly individuals, some in patients taking diuretics or with concomitant conditions that might cause thyponatremia. In patients receiving fluvoxamine maleate tablets and suffering from Syndrome of Inappropriate Secretion of Antiducetic Hormone (SADH), displacement syndromes, edematous states, adrenal disease or conditions. of fluid loss, it is recommended that serum electrolytes, specially sodium as well as BUN and plasma creatinine, be

Use in Patients with Concomitant Illness: Closely monitored clinical experience with fluvoxamine maleate tablets in patients with concomitant systemic illness is limited. Caution is advised in administering fluvoxamine maleate tablets to patients with diseases or conditions that could affect hemodynamic responses or metabolism. Howoxamine maleate tablets have not been evaluated or used to any appreciable extent in patients with a recent

Furovanime maeate tables rave not deen evaluated or used to any appreciance extent in planels with a recent history of imporatioal infarction or unstable heart disease. Faitherish with these diagnoses were systematically excluded from many clinical studies during the product's premarketing testing. Evaluation of the electrocardiograms for patients with depression or OOD who participated in premarketing studies revealed no differences between fluovanime and placebo in the emergence of clinically important ECG changes. In patients with they dysfunction, fluovanime clearance was decreased by approximately 30%. Fluovanime maleate tablets should be slowly titrated in patients with liver dysfunction during the initiation of treatment. Information for Patients

Physicians are advised to discuss the following issues with patients for whom they prescribe fluovoramine maleate tablets:

tablets: Prescribers or other health professionals should inform patients, their families, and their caregivers about the benefits and risks associated with treatment with fluxowanine maleate tablets and should coursed them in its appropriate use. A patient Medication Guide About Usiny Antidepressants in Children and Teenagers's available for Univoxanine maleate tablets. The prescriber or health professional should instruct patients, their families, and their caregivers to read the Medication Guide and should assist them in understanding its contents. Patients should be given the opportunity to discuss the contents of the Medication Guide and to obtain answers to any questions they may have. The complete text of the Medication Guide its is recentived at the part of the foreground. of the Medication Guide's reprinted at the end of this document.

Patients should be advised of the following issues and asked to alert their prescriber if these occur while taking

nuvoxamine maleate tablets. **Clinical Worsening and Suicide Risk:** Patients, their families, and their caregivers should be encouraged to be alert to

Common motivement and exactive nack-raients, bein nationes, and to the Ladgride year, and impositive nack-raients, bein national, initiability, hospitally, agglesskieness, impositive, adultion (psychonotor reeflessness), hypomania, mania, other unusual orlanges in behavior, worsening of depression, and sucidial ideation, psychological psychonotor reeflessness), hypomania, mania, other unusual orlanges in behavior, worsening of depression, and sucidial ideation, psychological psychonotorial grantification of the psychological psychonotorial psychological psychological psychonotorial ps since changes may be abrupt. Such symptoms should be reported to the patient's prescriber or health professional, especially if they are servere, abrupt in moset, or were not part of the patient's presenting symptoms. Symptoms such as these may be associated with an increased risk for suicidal thinking and behavior and indicate a need for very close monitoring and possibly changes in the medication.

Interference with Cognitive or Motor Performance: Since any psychoactive drug may impair judgment, thinking, or motor skills, patients should be audioned about operating hazardous machinery, including automobies, until they are certain that fluxoxamine makete tablet therapy does not adversely affect their ability to engage in such activities or the control of the properties of the program of th

on an infant /See PRECAUTIONS-Nureing Mothe

Concomitant Medications: 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 fluoxoamine maleate tablets. Patients should be cautioned about the concomitant use of fluoxoamine and KSADs, spirin, or other drugs that affect coagulation since the combined use of psychotropic drugs that interfere with serotonin reuptake and e agents has been associated with an increased risk of bleeding.

these agenth has been associated with an increased risk of bleeding. Because of the potential for the increased risk of serious adverse reactions including severe lowering of blood pressure and seadout when fluoroamine and tizandine are used together, fluoroamine should not be used with tizandine, and seadout the potential for the increased risk of serious adverse reactions when fluoroamine and allosetron are used together, fluoroamine should not be used with top load of the control allosetron. Alchooth: As with other psychotropic used with the part is should be advised to avoid alcohol while taking fluoroamine.

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

cific laboratory tests recommended

Potential Interactions with Drugs that Inhibit or are Metabolized by Cytochrome P450 Isozymes: 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 relationship of fluvoxamine and the CYP450-enzyme system has been obtained mostly from pharmacokinetic interaction studies conducted in healthy

the CYT-SQU-HEX/MIR System in this treat occanion unknown yourn parameters.

Outlineters, but some preliminary in with odat are also available.
Based on a finding of substantial interactions of fluvoxamine with certain of these drugs (see later parts of this section are also WARNINGS for details) and limited in with odata for the 344 isozyme, it appears that fluvoxamine inhibits the following isonymese that are known on the involved in the metabolism of the listed drugs:

55				
1A2	209	3A4	2019	
Warfarin	Warfarin	Alprazolam	Omeprazole	
Theophylline	_		_	
Propranolol	_	_	_	
Tizanidine	_	_	_	

In with otals suggest that fluvocamine is a relatively weak inhibitor of the 206 isozyme. Approximately 7% of the normal population has a genetic defect that leads to eviduced levels of activity of the CYP2D6 isozyme. Such individuals have been referred to as "poor metabolizers" (PM) of drugs such as debrisoquin, dectromethorphas, and tricyclic antidepressants. Will enne of the drugs studied for drug interactions significantly affected the pharmacokinetics of throvamine, an in vivo study of fluvocamine single-dose pharmacokinetics of suprisonal single-dose pharmacokinetics of throvamines compared to 16 "extreasive metabolizers" (EM) mean Ca., ALC, and half-life were increased by 52%, 200%, and 62%, espectively, in the PM compared to the EM group. This suggests that fluvoxamine is metabolized, at least in part, by the 200 isozyme caution is indicated in patients known to have reduced levels of CYP2D6 activity and those receiving concomitant drugs known to inhibit this isozyme (e.g. minificine). In vitro data suggest that fluvoxamine is a relatively weak inhibitor of the 2D6 isozyme

quinidine). The metabolism of fluvoxamine has not been fully characterized and the effects of potent P450 isozyme inhibition, such

e ketoconazole inhibition of 3A4, on fluvoxamine metabolism have not been studied. nically significant fluvoxamine interaction is possible with drugs having a narrow, therapeutic ratio such as terfenadine, astemizole, cisapride, or pimozide, warfarin, theophylline, certain benzodiazepines and phenytoin. 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 CONTRAINDICATIONS and WARNINGS).

CNS Active Drugs:

Monamine Outdase minimits: oce transmission of Manamara (Manamara) and Aparadam. See WARNINGS of the Potentially Important Drug Interactions - Neuroleptic Malignant Syndrome (MIS) or MIS-Like Events
Diazepam: See WARNINGS Of MIS-Like Events

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

administration of fluvocamine maleate and carbanazepine. Clozaginie: Elevated serum levels of clozagine have been reported in patients taking fluvoxamine maleate and clozagine. Since clozagine related seizures and orthostatic hypotension appear to be dose related, the risk of these adverse events may be higher when fluvoxamine and clozagine are co-administered. Patients should be closely monitored when fluvoxamine maleate and clozagine are used concurrently.

monitored when nuvoxamine maleate and crozapine are used concurrently.

Lithlium: As with other serotonergic drugs, lithlium 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 naleate and lithium. maleate and lithium. *Lorazepam:* A study of multiple doses of fluvoxamine maleate (50 mg BID) in healthy male volunteers (N=12) and a

single dose of lorazepam (4 mg single dose) indicated no significant pharmacokinetic interaction. On average, but lorazepam alone and lorazepam with fluvoxamine produced substantial decrements in cognitive functioning; however the co-administration of fluvoxaminie and lorazepam did not produce larger mean decrements compared to lorazepam

aione. M*ethadone:* Significantiv increased methadone (plasma level:dose) ratios have been reported when fluvoxami has administered to patients receiving maintenance methadone treatment, with symptoms of opioid on in one patient. Opioid withdrawal symptoms were reported following fluvoxamine maleate discontinuation There have been rare postmarketing reports describing patients with weakness, hyperreflexia, and

incoordination following the use of a selective serotonin reuptake inhibitor (SSRI) and sumatriptan. If concomitant treatment with sumatriptan and an SSRI (e.g., fluoxetine, fluvoxamine, paroxetine, sertraline) is clinically warranted,

treatment with sumatriplan and an SSRI (e.g., fluoretine, fluoroamine, paroxetine, sertraline) is clinically warranted, appropriate beservation of the patient is advised.

Tacrine: In a study of 13 healthy, male volunteers, a single 40 mg dose of tacrine added to fluoroamine 100 mg/dey administered at sheady-state was associated with five- and eight-fluor fluoresses in factine Comp. and ALIC, respectively, compared to the administration of facrine atom. Five subjects experienced nausea, vomitting, sweating, and diarrhea following or administration, consistent with the chollenger effects of facrine.

*Thioritacine: See COMTRANIDICATIONS and WARNINGS.

*Trizycill: Artificity ressants (TCA): Significantly increased plasma TCA levels have been reported with the co-deministration of invocamine melation and marking-live, compramine or impramine. Caution is indicated with the co-deministration of the order of TCA in the control of TCA may need to be reduced.

**Tonorobaria-Trinolines may endeave the sentencemic effects of fluoramine and the combination should therefore.

the dose of I.C.A may need to be reduced. *Tryptophan:* Tryptophan may enhance the serotonergic effects of fluvoxamine, and the combination should, therefore be used with caution. Severe vomiting has been reported with the co-administration of fluvoxamine maleate an

Drugs That Interfere With Hemostasis (NSAIDs, Aspirin, Warfarin, etc.)

Urugs I nat Imertere with Hemostasis (IGSAUIs, Aspirin, Wartarin, etc.)
Serotonin release by platelets plays an important role in hemostasis. Epidemiological studies of the case-control and cohort design that have demonstrated an association between use of pyschotropic drugs that interfere with serotonin recuptake and the occurrence of upper gastrointestinal bleeding have also shown that concurrent use of an NSIAD or aspirin potentiated the risk of bleedling. Thus, patients should be cautioned about the use of such drugs concurrently with fluvoxamine.
Theanhulline: See WARNINGS

Warfarin: See WARNINGS.

Allosered Revenue disease in entabolized by a variety of hepatic CYP drug metabolizing enzymes, inducers or inhibitors of these enzymes may change the clearance of alcestron. Fluvoramine is a known potent inhibitor of CYP1/L2 and CYP2/L3, and CYP2/L3, in a phemacokinetic study, 40 healthy female subjects received fluvoramine in escalating doses from 50 to 200 mg adey for 16 days, with on-administration of elecetion 1 mg on the last day. Fluvoramine increased mean alcestron plasma concentrations (ALC) approximately 6-field and prolinged the hat-file by approximately 5-field and prolinged the hat-file by approximately 5-field and prolinged the hat-file by approximately 5-field and prolinged from the file of the continuation of the co

Digoxin: Administration of fluvoxamine maleate 100 mg daily for 18 days (N=8) did not significantly affect the

Legouris, nonmissimon or humoxamine maleate 100 mg daily for 18 days (N=8) did not significantly affect the pharmacolidelise of a 1.25 mg gingle intervenous dose of dignoin.

Diffazem: Bradycardia has been reported with the co-administration of fluvoxamine maleate and dilitiazem. Progranolo and Other Beta-Bookers: Co-administration of fluvoxamine maleate 100 mg per day and propranolol 160 mg per day in on male violuted in a mean five-floor increase (range 2 to 17) in minimum progranolol plasma concentrations. In this study, there was a slight potentiation of the propranolol-induced reduction in heart rate and reduction in flexerized disable pressure.

Utilifications. If size soury, time a transition is under the source of the source of

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 primarily by renal excretion.

Effects of Smoking on Fluvoxamine Metabolism: Smokers had a 25% increase in the metabolism of fluvoxamine

compared to nonsmokers. Electroconvulsive 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 fluvoxamine

naieate. There was no evidence of carcinogenicity in rats treated orally with fluvoxamine maleate for 30 months or hamsters Inter was to evidence or carcinogenicity in fast treated orally with unbroxamine matestes for 3J months of namesters treated orally with fluvocamine matested for 20 (females) or 2G intelles) months. The dialy doses in the high dose groups in these studies were increased over the control of the study from a minimum of 1240 mg/kg in a maken from a minimum of 1240 mg/kg in a septominately 6 filmes 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 metaloic activation. Impairment of Fertility: In fertility studies or filmed and maken et al. (approximately 2 times the maximum human daily dose on a mg/m² basis) had no effect on mating performance, duration of establicon, or premanyor vitage.

furation of gestation, or pregnancy rate.

Pregnancy
Teratogenic Effects - Pregnancy Category C: In teratology studies in rats and rabbits, daily oral doses of fluvoxamine maleate of up to 80 and 40 mg/kg, respectively (approximately 2 times the maximum human daily dose on a mg/m basis) caused no fetal malformations. However, in other reproduction studies in which pregnant rats were dosed intensity of the first of the f

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 flovoxamine in the nursing infant as well as the potential benefits of throwamine maleate tablet therapy to the mother. Pediatric Use

Pediatric Use
The efficacy of fluvoxamine maleate for the treatment of Obsessive Compulsive Disorder was demonstrated in a 10week multicenter placebo controlled study with 120 outpatients ages 8 to 17. in addition, 99 of these outpatients
continued open-lade fluvoxamine maleate treatment 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
fluvoxamin (See AUPKISE REACTIONS and DOSAGEA MAD ADMINISTRATION).

normanimic loce AUVENSE REALITIONS and DUSABLE AND AUMINISTIKATION.)

Decreased appetite and weight loss have been observed in association with the use of fluvoxamine as well as other SSRIs. Consequently, regular monitoring of weight and growth is recommended if treatment of a child with an SSRI is

to be continued long term. The risks, if any, that may be associated with fluvoxamines' extended use in children and adolescents with OCD have The risks, if any, that may be associated with fluvoramines' 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 fluvoramine is safe for use in children and adolescents derives from relatively short term clinical studies and from extrapolation of experience gained with adult platients. In particular, there are no studies that directly evaluate the effects of long term fluvoramine use on the growth, development, and maturation of children and adolescents. Although there is no affirmative finding to suggest that fluxoramine 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 fluvoramine to have exbrese effects in cronpic use (see MARMINGS - Clinical Worsening and Suicide Risk). Safety and effectheness in the pediatric population other than pediatric patients with OCD have not been established (see BOX WARNING and WARNINGS-Clinical Worsening and Suicide Risk). Anyone considering the use of fluvoramine in a child or adolescent must beliance the potential risks with the clinical need.

veration: Use
Approximately 230 patients participating in controlled premarketing studies with fluvoxamine maleate tablets were 65
years of age or over. No overall differences in safety were observed between these patients and younger patients.
Other reported cinical experience has not identified differences in response between the elderly and younger patients.
However, fluvoxamine has been associated with several cases of clinically significant hyponatremia in elderly patients rowever, invokamine iss oeen associated win several cases of cinicary significant myporaterian in elevery patients (see PRECAUTIONS, General). Eithermore, the clearance of fluvoxamine is decreased by 4 about 50% in elderly compared to younger patients (see Pharmacokinetics under CLINICAL PHARMACOLGOY), and greater sensitivity of some older individual salo cannot be ruided ut. Consequently, fluvoxamine mailated tablets should be slowly titrated.

Solice viace during initiation of therapy.

ADVERSE REACTIONS

ASSociated with Discontinuation of Treatment

Of the 1087 OCD and depressed patients treated with fluvoxamine maleate in controlled clinical trials conducted in

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ADVERSE EVENTS ASSOCIATED WITH DISCONTINUATION OF TREATMENT IN OCD AND DEPRESSION POPULATIONS			
BODY SYSTEM/ADVERSE EVENT	PERCENTAGE OF PATIENTS		
	FLUVOXAMINE	PLACEBO	
BODY AS A WHOLE	•		
Headache	3%	1%	
Asthenia	2%	<1%	
Abdominal Pain	1%	0%	
DIGESTIVE	•		
Nausea	9%	1%	
Diarrhea	1%	<1%	
Vomiting	2%	<1%	
Anorexia	1%	<1%	
Dyspepsia	1%	<1%	
NERVOUS SYSTEM			
Insomnia	4%	1%	
Somnolence	4%	<1%	
Nervousness	2%	<1%	
Agitation	2%	<1%	
Dizziness	2%	<1%	
Anxiety	1%	<1%	
Dry Mouth	1%	<1%	

Incidence in Controlled Trials

Commonly Observed Adverse Frents in Controlled Clinical Trials: Fluvoramine maleate tablets have been studied in controlled trials of OCD III—20) and depression (III—1350). In general, adverse event rates were similar in the two data sets as well as in the pediatric OOD study. The most commonly observed devierse events accided with the use of fluvoramine maleate tablets and likely to be drug-related (incidence of 5% or greater and at least twice that for placebo) derived from Table 2 were: sommolence, insommin, nenrousness; termor, nausea, depspessia, narreada, vamiling, abnormal ejacutation, asthemia, and sweating. In a pool of two studies involving only patients with OCD, the following additional events were identified using the above rule: appliation, depression, in Adverses Frents Occurring at an Incidence of 1% Table. 2 enumerates adverse events that occurred in adults revised to the control of the co

patients were dosed in a range of generally 10.0 to 300 migraly. Into state shows the percentage of patients in each group with old at least one occurrence of an event at some time during their treatment. Reported adverse events were classified using a standard CDSTART-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 may differ from those that prevailed in the clinical trials. Similarly, the cited requencies 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 ¹			
BODY SYSTEM/ADVERSE EVENT	Percentage of Patients Reporting Event		
BODT STSTEM/ADVENSE EVENT	FLUVOXAMINE	PLACEB0	
	N=892	N=778	
BODY AS A WHOLE			
Headache	22	20	
Asthenia	14	6	
Flu Syndrome	3	2	
Chills	2	1	
TREATMENT-EMERGENT ADVERSE EVENT INCIDENCE RATES BY BODY SYSTEM IN			

ODY SYSTEM/ADVERSE EVENT	Percentage of Patients Reporting Event		
ODT STSTEM/ADVENSE EVENT	FLUVOXAMINE	PLACEBO	
	N=892	N=778	
CARDIOVASCULAR			
Palpitations	3	2	
DIGESTIVE SYSTEM			
Vausea	40	14	
Diarrhea	11	7	
Constipation	10	8	
Dyspepsia	10	5	
Anorexia	6	2	
/omiting	5	2	
Flatulence	4	3	
Tooth Disorder ²	3	1	
Dysphagia	2	1	
VERVOUS SYSTEM	•		
Somnolence	22	8	
nsomnia	21	10	
Dry Mouth	14	10	
Vervousness	12	5	
Dizziness	11	6	
remor	5	1	
Anxiety	5	3	
/asodilatation3	3	1	
Typertonia	2	1	
Agitation	2	1	
Decreased Libido	2	1	
Depression	2	1	
CNS Stimulation	2	1	
RESPIRATORY SYSTEM	•		
Jpper Respiratory Infection	9	5	
Dyspnea	2	1	
'awn	2	0	
SKIN	<u> </u>	•	
weating	7	3	
SPECIAL SENSES	<u> </u>	-	
aste Perversion	3	1	
imblyopia4	3	2	
ROGENITAL			
Abnormal Ejaculation ^{5,6}	8	1	
Jrinary Frequency	3	2	
mpotence ⁶	2	1	
Anorgasmia	2	0	
Jrinary Retention	1	0	

1 Events for which fluvocamine maleate incidence was equal to or less than picacoo are not used in the user acure, but include the following-abdominal pain, abnormal ferens, appetite increase, back pain, rotspain, dysmenorrhea, fever, infection, leg cramps, migraine, myalgia, pain, paresthesia, pharyngitis, postural hypotension, purturus, rash, rhillis, thist and finithis, thist and finithis thist and success to a finite form the following t

Adverse Events in OCD Placeho Controlled Studies Which are Markedly Different (defined as at least a two-fold

Ameries events in Out-vraceou Controlled Studies winch are Markeou) uniterent (einende as at less a tow-hold difference) in Raff from the Pooled Ferni Rates in OCI and Depression Placebo Controlled Studies. The venish in OCI Studies with a two-fold decrease in rate compared to event rates in OCI and depression studies were disphagia and amblypoia (mostly blurred vision). Additionally, there was an approximate 25% decrease in nausea. The events in OCI studies with a two-fold increase in rate compared to event rates in OCI and depression studies

dysphagia and amblyopia (mostly hiured vision). Additionally, there was an approximate 25% decrease in nauses. The events in COS utulies with a two-fold increase in reduce compared to event rates in OCD and depression studies were astheria, abnormal ejacutation, (mostly delayed ejacutation), anadely, intektion, thintists, anorpasma (in males), depression, (blood decreased, phaginglis, agriation, importance, myodipia, another), thintists, anorpasma (in males), depression, (blood decreased, phaginglis, agriation, importance, myodipia and urinary retention. These events are listed in order of decreasing rates in the OCD trials. Other Adverse Tevents in OCD Prediation Population in pediatric patients (NE-57) threated with furnovamine malaries tablets, the overall profile of adverse events was appared in a Table 2, were reported in the or or more of the pediatric patients and were more frequent with theoroamine maleate tablets than with pleasbo abnormal thinking, cough increase, dysmenormae, ecclymosis, emotional tability, epistosis, hyporkinesia, infection, manel reaction, rasts, installist, and velopit decrease.

Male and Fenale Sexual Dysfunction with SSBIs Although changes in sexual desire, exemplement and several profile of appropriate of a posyhibric disorder and with aging, they may also be a consequence of pharmacologic treatment. In particular, some evidence suggests that selective serotion regulate inhibitors (SSRIs) can acuse such untribund several experiences. Reliable estimates of the incidence of untroward sexual experiences involving sexual desire, performance and satisfaction are difficult to botals, however, in part because patients and physicians may be reluctant to discuss them. Accordingly, estimates of the incidence of untroward sexual experiences and performance cited in product tabeling are likely to underestimate their actual incidence.

Table 3

Percentage of Patients Reporting Sexual Adverse Events in Adults

Percentage of Patients Reporting Sexual Adverse Events in Adults Placebo-Controlled Trials in OCD and Depression		
FLUVOXAMINE PLACEBO		
	N=892	N=778
Abnormal Ejaculation*	8%	1%
Impotence*	2%	1%
Decreased Libido	2%	1%
Anorgasmia	2%	0%

Taxable on the united of male patients.

See a comparison of the patient of the patients received without sequelae and upon discontinuation of throwsamics.

While it is difficult to know the precise risk of sexual dysfunction associated with the use of SSRIs, physicians should routinely inquire about such possible side effects.

routinely inquire about such possible sue entercas.

Vital Sign Changes

Camparisons of flinoxoamine maleate and placebo groups in separate pools of short-term OCD and degression 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 fluovoxamine 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 urinalysis variables and on (2) incidence of patients meeting criteria for potentially important changes from baseline on various serum chemistry, hematology, and urinalysis variables revealed no important differences between fluxoxamine maleate and placebo.

ECG Changes
Comparisons of fluvoxamine maleate and placebo groups in separate pools of short-term OCD and depression trials on
(i) 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

important changes from sealing on various Eule variances reveaue on important orienteness serveen involvaminimatelized and placefood.

Bernardelized and placefood of buring the Premardeling Fevaluation of Flowscaminim Maleate Tableto.

Buring premarkeling clinical trials conducted in North America and Europe, multiple doses of flowscamine maleate were administered for a combined total of 2737 patient expourse in patients sustering from OCD or Major Depressive Disorder. Untroward events associated with this exposure were recorded by clinical investigators using descriptive terminology of their own chosing. 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 shadder event estagories.

reduced) number of standard event catagories. 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 uninformatible, it, was replaced with a more informatible term. The frequencies presented, therefore, represent the proprior 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 already listed in Table 2, which tabulates incidence rates of common adverse experiences in placebo-controlled OCD and depression clinical trials, are excluded; 2) those events for which a drug cause was considered remote (i.e. COI and degression clinical trials, are excluded: 2) those events for which a drug casis was considered remote (i.e., neoplasia, gastrointestand carcinoma, herpes simples, herpes zoster, application) set reaction, and unintended pregnancy) are omitted; and 3) events which were reported in only one patient and judged to not be potentially serious are not included. It is important to emphasize that, although the events reported did occur during treatment with fluvoxamine maleate, a causal relationship to fluvoxamine maleate has not been established. Levents are further classified within body system categories and enumerated in order of decreasing frequency using the following definitions: frequent adverse events are defined as those occurring on one or more occasions in at least 1700 patients; integuent adverse events are defined as those occurring on 400 patients. A service of the control of th

disease, embolus, pericarditis, phlebitis, pulmonary infarction, supraventricular extrasystoles.

**Digestive System: Frequent: elevated liver transaminases; **Infrequent: colitis, eructation, esophagitis, gastritis,

gastroenteritis, gastrointestinal hemorrhage, gastrointestinal ulcer, gingivitis, glossitis, hemorrhoids, melena, rectal hemorrhage, stomatitis; *Rare:* biliary pain, cholecystitis, cholelithiasis, fecal incontinence, hematemesis, intestinal

obstruction, jaundice.

Endocrine System: Infrequent: hypothyrolidism; Rare: golter.

Hemic and Lymphatic Systems: Infrequent: anemia, ecchymosis, leukocytosis, lymphadenopathy, thrombocytopenia;

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detrytrogenase increased.

Musculoskeletal System: Infrequent: arthralgia, arthritis, bursitis, generalized muscle spasm, myasthenia, tendinous

Musculoschellan System ill. Reiner dirthic similar arthrist, burstis, generatured muscle system, mysstemena, tenonious controlucture, lenonious co salivation, increased libido, neuralgia, paralysis, paranoid reaction, phobia, psychosis, sleep disorder, stupor, twitching, vertigo; *Rare*: akinesia, coma, fibrillations, mutism, obsessions, reflexes decreased, slurred speech, tardive dyskinesia,

torticollis, trismus, withdrawal syndrome. Respiratory System: Frequent: cough increased, sinusitis; Infrequent: asthma, bronchitis, epistaxis, hoarseness, hyperventilation; Raize: apnea, congestion of upper ainvay, hemophysis, hiccups, laryngismus, obstructive pulmonary

disease, pneumonia. Skin: Infrequent: acne, alopecia, dry skin, eczema, exfoliative dermatitis, furunculosis, seborrhea, skin dis utiloaria

urticaria. Special Senses: Infrequent: accommodation abnormal, conjunctivitis, deafiness, diplopia, dry eyes, ear pain, eye pain, mydrasis, otilis media, parosmia, photophobia, tissle loss, visual field defect, Rare comea lucer, refinal detachment. Urgenital System: Infrequent anunia, breast pain, cyclistis, delayed menstruation¹, dysanis, female lactation¹, hematuria, menopasse; menorrhagia¹, metrorrhagia¹, nocturia, polyuria, premestrual syndromis-hematuria, menopasse; menorrhagia¹, mindra yindra principal menorrhagia¹, validaria, incontiencie, urindra yindra yin

Based on the number of females

Postmarketing Reports Voluntary reports of adverse events in patients taking fluvoxamine maleate tablets that have Posiniariaeuin reports violuniary reports of autreste events in pasients autini juriosofialimie moetae radiosis total nave been received similare moetae market introduction and are of unformour causal relationship to fluvoramine matelaet bablesis see include ventricular tachyecardia (including tossedas de pointes), prophysis, bus equipers, separation propriates, apparations, propriates, apparations, propriates, apparations, propriates, apparations, propriates, propriate

DRUG ARUSE AND DEPENDENCE

Eliuvoyamine maleate tablets are not controlled substances

Fulvoxamine maleate tables are not commoned suisstances. Physical and Psychological Dependence alependence with fluvoxamine maleate has been studied in a nonhuman primate model. No evidence of dependency phenomena was found. The discontinuation effects of fluvoxamine maleate tablets were not systematically evaluated in controlled clinical trials. Fluvoxamine maleate tablets were not tablets were not systematically evaluated in controlled clinical trials. Fluvoxamine maleate tablets were not systematically suided in clinical trials for potential for subset, but there was no indication of drug-seeking behavior in clinical trials. It should be noted, however, that patients at risk for drug dependency were systematically excluded from investigational suides of fluvoxamine makelae. Generally, it is not possible to predict on the basis of precinical or premarketing clinical experience the extent to which a CIS active drug will be misused, diverted, and/or abused once marketed. Consequently, physicians should carefully evaluate patients for a fistory of drug abuse and follow such marketed. Consequently, physicians should carefully evaluate patients for a fistory of drug abuse and follow such marketed. Consequently, physicians should carefully evaluate patients for a fistory of drug abuse and follow such consequence of the cons

man Experience
man Experience
rithwide exposure to fluvoxamine maleate includes over 45,000 patients treated in clinical trials and an estimated
return of the control of t wornwise exposure to huivoranine maieate includes over 4-3,000 patients treated in clinical traits and an estimated exposure of 23,000,000 patients treated during worldwise marketing experience (circa 1999). Of the 452 cases of deliberate or accidental overdose involving fluvoranine maleate reported from this population, there were 4 deaths. Of these, six were in patients taking fluvoranine maleate alone and the remaining 38 were in patients taking fluvoranine maleate alone and the remaining 38 were in patients taking fluvoranine maleate alone and the remaining 38 were in patients taking fluvoranine maleate alone with other consequence of the control of the four patients experienced adverse sequelae of overdosage, to include persistent mydriasis, unsteady gall, kldnéy complications (from trauma associated with overdosa, and bowel infaction requiring a hemicolectomy. In the remaining 41 patients, the outcome was unknown. The largest known ingestion of fluvoxamine maleate involved 12.00 mg lequivalent to 2 to 3 months' dosage). The patient fully recovered its owners, patients as low as 1,400 mg have been associated with lethal outcome, indicating considerable prognostic variability. Commonly (2-5%) observed adverse venet associated with fluvoramine maleate overdose include, horself proposition, and in the control of the control

convulsions, tremor, diarrhea, and increased remove.

Management of Overdose

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 vital signs. General supportive

and symptomatic measures are also recommended. Induction of emesis is not recommended. Gastric lavage with a large-bore orogastric tube with appropriate airway protection, if needed, may be indicated if performed soon after

large-bore orogastric 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 large volume of distribution of this drug, forced diuresis, dialysis, hethorogenius on an exchange transitions are unlikely to be otherfilt. No specific anticlose for fluoroamine are known. A specific caution involves patients taking, or recently having taken, fluoroamine who might ingest accessive quantities of a tricyclic antiforea and 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 (see Tricyclic Antiforea active TRECAUTIONS).

In managing overdosage, consider the possibility of multiple drug involvement. The physician should consider certified poison control center for additional information on the treatment of art. The physician should consider certified poison control center for a didditional information on the treatment of proposation.

DOSAGE AND ADMINISTRATION

Diosage 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 trais establishing the effectiveness of fluvoxamine maleate tablets
OCD, patients were thrated within a dose range of 100 m 300 mg/dgx, Orsequently, the dose should be increased in 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

ing per usy. It is advisable talls a doubt along use or index in all 100 mill should be given in two unweel closes a net doubt. Obesa de not equal, the larger dose should be given at bettime.

Dosage for Pediatric Population (children and adolescents)

The recommended starting dose for throwcamine maleste tablets in pediatric populations (eges 8 to 17 years) is 25 mg, administered as a single daily dose at bedfime. In a controlled clinical trial establishing the effectiveness of fluovocamine malester tablets in 0.00, pediatric polateris (ages 8 to 17) were threated within a dose range of 50 to 200 milgidar.

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/dgs, Therapeutic effect in female children may be achieved with lower doses. Dose adjustment in doslescents (up to the adult maximum dose of 300 mg) may be indicated to achieve therapeutic benefit. The dose should be increased in 25 mg increments every 4 to 7 days, as tolerated, until maximum therapeutic

betein. The those should be included in it is implement every of a V rulys, as the data, but in basinitire interprets, benefit is achieved. It is advisable that a total daily dose of more than 50 mg should be given in two divided doses are not equal, the larger dose should be given at bettime. Dosage for Elderly or Hepatically impaired Patients.

Elderly patients and those with hepatic impairment have been observed to have a decreased clearance of fluvoxamine maleate. Consequently, it may be appropriate to modify the initial dose and the subsequent dose titration for these maleate.

t groups. enance/Continuation/Extended Treatment

Maintenance/Continuation/Extended Treatment
Although the efficacy of fluorwanine melaste tablets beyond 10 weeks of dosing for OCD has not been documented in
controlled trials, OCD is a chronic condition, and it is reasonable to consider continuation for a responding patient.
Dosage adjustment should be made for invariant intendent on the lowest effective dosage, and patients should be
periodically reassessed to determine the need for continued treatment.
Treatment of Prepanal Women During the Third Trinsect SRIs or SRIS late in the third trinsecter have developed
complications requiring prolonged hospitalization, respiratory support, and the declaring level PRECAUTIONS. When
treating pregnant women with fluoroamine makete tablets during the third trinsecter have developed
complications requiring prolonged hospitalization, respiratory support, and the deeding (see PRECAUTIONS). When
treating pregnant women with fluoroamine makete tablets during the third trinsecter flow physician should carefully
consider this content larks and handleff or fractment? The solutions are consider that ordered refeatures the received metalous ballets.

consider the potential risks and benefits of treatment. The physician may consider tapering fluvoxamine maleate tablets

consider the potential risks also useries a visconia for the third trimes filter.

Discontinuation of Treatment with Fluvoxamine Maleate Tablets
Symptoms associated with discontinuation of other SSRIs and SNRIs have been reported (see PRECAUTIONS). Patients should be monitored for these symptoms when discontinuing treatment. A gradual reduction in the dose rather than abrupt cessation is recommended whenever possible. If indirectable symptoms ocur following a decrease in the dose or upon discontinuation of treatment, then resuming the previously prescribed dose may be considered. Subsequently, the physician may continue decreasing the dose but at a more gradual rate.

JED a Maleate Tablets, 25 mg are available as unscored, off-white, round, biconvex, film-coated, imprinted

Z over '17' on one side. They are available in bottles of 100's.

Fluvoxamine Maleate Tablets, 50 mg are available in bottles of 100's.

Fluvoxamine Maleate Tablets, 50 mg are available in source, yellow, round, bloonvex, film-coate, imprinted "C over '27" on one side and bisect on the other. They are available in bottles of 100's, 500's, and 1000's.

Fluvoxamine Maleate Tablets, 100 mg are available as scored, beige, round, biconvex, film-coated, imprinted "

" over "157" on one side and bisect on the other. They are available in bottles of 100's, 500's, and 1000's. Fluvoxamine Michaela Tableds should be protected from high humidity and stored at 20°-25°C (68°-77°F) (See USP Controlled Room Temperature).

Dispense in a tight, light-resistant container as defined in the USP.

KEEP TIGHTLY CLOSED.

KEEP THIS AND ALL MEDICATION OUT OF THE REACH OF CHILDREN.

Lotronex™ is a registered trademark of GlaxoSmithKline.

Medication Guide About Using Antidepressants in Children and Teenagers

What is the most important information I should know if my child is being prescribed an

What is the most important things when their child is prescribed an antidepressant? Parents or guardians need to think about 4 important things when their child is prescribed an antidepressant.

pressant:
There is a risk of suicidal thoughts or actions
How to try to prevent suicidal thoughts or actions in your child
You should watch for certain signs if your child is taking an antidepressant
There are benefits and risks when using artidepressants

4. Tiete all betients and risks wien using anuoepressants. There is a fisk of Saicidad Thoughts or Actions. Children and teenagers sometimes think about suicide, and many report trying to kill themselves. Antidepressants increase suicidal thoughts and actions in some children and teenagers. But suicidal thoughts and actions can also be caused by depression, a serious medical condition that is commonly treated with antidepressants. Thinking about killing yourself or trying to kill yourself is called suicidatiny or the properties of the properti

being suicidal

A large study combined the results of 24 different studies of children and teeragers with depression of other illnesses. In these studies, patients took either a placebo (sugar pill) or an antidepressant for 1 to 4 months. Moore committed suicide in these studies, but some patients became suicidal. On sugar pills 2 out of every 100 became suicidal. On sugar pills 2 out of every 100 became suicidal. On the antidepressants, 4 out of every 100 patients became suicidal.

For some children and teenagers, the risks of suicidal actions may be especially high. These include

- lents with
 Bipolar illness (sometimes called manic-depressive illness)
- A family history of bipolar illness A personal or family history of attempting suicide

If any of these are present, make sure you tell your healthcare provider before your child takes an

antifupressant.

2. How to Try to Prevent Suicidal Thoughts and Actions
To try to prevent suicidal thoughts and actions in your child, pay close attention to changes in her or his
mods or actions, especially if the changes occur suddenly. Other important people in your child's life can
help by paying attention as well (e.g., your child, brothers and sisters, teachers, and other important
people). The changes be look out for are leted in Section 3, on what to watch to well
wherever an antibepressant is started ord its dose is changed, pay close attention to your child.
After starting an antibepressant, your child should generally see his or her healthcare provider:

• Once a week for the first 4 weeks

Once a week for the first 4 weeks
Every 2 weeks for the next 4 weeks
After taking the antidepressant for 12 weeks
After taking the antidepressant for 12 weeks
After 12 weeks, follow you rhealthcare provider's advice about how often to come back
More often if problems or questions arise (see Section 3)
You should call your child's healthcare provider between visits if needed.

3. You Should Watch for Certain Signs If Your Child is Taking an Antidepressant
Contact your child's healthcare provider right away if your child childs any of the following signs for the first time, or if they seem worse, or worry you, your child, or your child's teacher.

Thoulds should suicide or flow.

- Thoughts about suicide or dying Attempts to commit suicide

- New or worse depression New or worse anxiety Feeling very agitated or restless Panic attacks Difficulty sleeping (insomnia) New or worse irritability
- Acting aggressive, being angry, or violent Acting on dangerous impulses
- An extreme increase in activity and talking Other unusual changes in behavior or mood

• Uther unusual changes in behavior or mood Never let your child stop laking an antidepressant without first talking to his or her healthcare provider. Stopping an antidepressant suddenly can cause other symptoms.
4. There are Benefits and Risks When Using Antidepressants.
Antidepressants are used to treat depression and other illnesses. Depression and other illnesses can lead to suicide. In some children and beraigers, treatment with an antidepressant increases suicidal thinking or actions. It is important to discuss all the risks of treating depression and also the risks of not treating it. You and your child should discuss all treatment choices with your healthcare provider, not just the use of antidepressants.

antidepressants. Other side effects can occur with antidepressants (see section below). Of all the antidepressants, only fluoxetine (Prozac®)* has been FDA approved to treat pediatric depression. For Obsessive Compulsive Disorder in children and teenagers, FDA has approved only fluoxetine (Prozac®*)*, sertraline (Zoloff*)*, fluoxamine, and clomipramine (Anafrani®)*. Your healthicare provider may suggest other antidepressants based on the past experience of your child or

Is this all I need to know if my child is being prescribed an antidepressant?

Is thus all I need to know if my child is beling prescribed an antidepressant?

M. This is a warning about the risk for suicidality. Other side effects can occur with antidepressants. Be sure to ask your healthcare provider to explain all the side effects of the particular drug he or she is prescribing. Also ask about drugs to avoid when taking an antidepressant. Ask your healthcare provider or pharmacist where to find more information.

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