Suicidality and Antidepressant Drugs Antidepressants increased the risk compared to placebo of suicidal thinkin and behavior (suicidality) in children, adolescents, and young adults in short-term studies of major depressive disorder (MDD) and other psychiatri disorders. Anyone considering the use of clomipramine hydrochloride or any other antidepressant in a child, adolescent, or young adult must balance this risk with the clinical need. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction in risk with antidepressants compared to placebo in adults aged 65 and older. Depression and certain other psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and observed closely for clinical worser suicidality, or unusual changes in behavior. Families and caregivers sh be advised of the need for close observation and communication with the prescriber. Clomipramine hydrochloride is not approved for use in pediatric patients except for patients with obsessive compulsive disorder (OCD) (see WARNINGS, Clinical Worsening and Suicide Risk; PRECAUTIONS, Information for Patients; and PRECAUTIONS, Pediatric Use).

WHITE

ClomiPRAMINE

Hydrochloride

Capsules USP

Rx only

WHITE

clominramine hydrochloride capsules USP is an antiobsessional drug that belongs to the class (dibenzazepine) of pharmacologic agents known as tricyclic antidepressants. Clomipramine hydrochloride is available as capsules of 25, 50 and 75 mg for oral administration. Clomipramine hydrochloride USP is 3-chloro-5-[3-(dimethylamino)propyl]-10,11-dihydro-5*H*dibenz[b,f]azepine monohydrochloride, and its structural formula is:

Clomipramine hydrochloride USP is a white to off-white crystalline powder. It is freely soluble in water, in methanol, and in methylene chloride, and insoluble in ethyl ether and in hexane. Inactive Ingredients: black iron oxide (25 mg capsules only), colloidal silicon dioxide, D&C yellow No. 10 (25 mg capsules only), FD&C blue No. 2 (25 mg capsules only), FD&C red No. 3 (25 mg capsules only), gelatin, magnesium stearate, pregelatinized maize starch. um dioxide, vellow iron oxide (50 mg capsules only)

ominramine (CMI) is presumed to influence obsessive and compulsive behaviors through its effects on serotonergic neuronal transmission. The actual neurochemical mechanism is unknown, but CMI's capacity to inhibit the reuptake of serotonin (5-HT) is thought to be important.

Pharmacokinetics

Absorption/Bioavailability- CMI from clomipramine hydrochloride capsules is as bioavailable as CMI from a solution. The bioavailability of CMI from capsules is not significantly affected by food.

a dose proportionality study involving multiple CMI doses, steady-state plasma concentrations (C_{SS}) and area—under-plasma-concentration-time curves (AUC) of CMI and CMI's major active metabolite, desmethylclomipramine (DMI), were not proportional to dose over the ranges evaluated, i.e., between 25 to 100 mg/day and between 25 to 150 mg/day, although and AUC are approximately linearly related to dose between 100 to 150 mg/da c_{SS} and AoC are approximately internally related to dose determent not 130 mg/day. The relationship between dose and CM/IDMI concentrations at higher daily doses has not been systematically assessed, but if there is significant dose dependency at doses above 150 mg/day, there is the potential for dramatically higher C_{SS} and AUC even for patients dosed within the recommended range. This may pose a potential risk to some patients

to see WARNINGS and PRECAUTIONS, Drug Interactions).

After a single 50 mg oral dose, maximum plasma concentrations of CMI occur within 2 to 6 hours (mean, 4.7 hr) and range from 56 ng/mL to 154 ng/mL (mean, 92 ng/mL). After multiple daily doses of 150 mg of clomipramine hydrochloride, steady-state may plasma concentrations range from 94 ng/mL to 339 ng/mL (mean, 218 ng/mL) for CMI and from 134 ng/mL to 532 ng/mL (mean, 274 ng/mL) for DMI. Additional information from a rising dose study of doses up to 250 mg suggests that DMI may exhibit nonlinear pharmacokinetics over the usual dosing range. At a dose of clomipramine hydrochloride namiaconflictus of the usual usung large. At a close in comprising in papules, 200 mg, subjects who had a single blood sample taken approximately 9 to 22 ours, (median 16 hours), after the dose had plasma concentrations of up to 605 ng/mL for CMI, 781 ng/mL for DMI, and 1386 ng/mL for both.

Distribution- CMI distributes into cerebrospinal fluid (CSF) and brain and into breast milk. DMI also distributes into CSF, with a mean CSF/plasma ratio of 2.6. The protein binding of CMI is approximately 97%, principally to albumin, and is independent of CMI concentration. The interaction between CMI and other highly protein-bound drugs has not

been fully evaluated, but may be important (see PRECAUTIONS, Drug Interactions) Metabolism - CMI is extensively biotransformed to DMI and other metabolites and their glucuronide conjugates. DMI is pharmacologically active, but its effects on OCD behaviors are unknown. These metabolites are excreted in urine and feces, following biliary elimination. After a 25 mg radiolabeled dose of CMI in two subjects, 60% and 51%, respectively. of the dose were recovered in the urine and 32% and 24%, respectively, in feces. In the same study, the combined urinary recoveries of CMI and DMI were only about 0.8% to 1.3% of the dose administered. CMI does not induce drug-metabolizing enzymes, as measured by antipyrine half-life.

Elimination- Evidence that the C_{SS} and AUC for CMI and DMI may increase disproportionately with increasing oral doses suggests that the metabolism of CMI and DMI may be capacity limited. This fact must be considered in assessing the estimates of the pharmacokinetic parameters presented below, as these were obtained in individuals exposed to doses of 150 mg. If the pharmacokinetics of CMI and DMI are nonlinear at doses above 150 mg their elimination half-lives may be considerably lengthened at doses near the upper end of the recommended dosing range (i.e., 200 mg/day to 250 mg/day). Consequently, CMI and DMI may accumulate, and this accumulation may increase the incidence of any dose- or ncentration-dependent adverse reactions, in particular seizures (see WARNINGS) After a 150 mg dose, the half-life of CMI ranges from 19 hours to 37 hours (mean, 32 hr and that of DMI ranges from 54 hours to 77 hours (mean, 69 hr). Steady-state levels after multiple dosing are typically reached within 7 to 14 days for CMI. Plasma concentrations of the metabolite exceed the parent drug on multiple dosing. After multiple dosing with 150 mg/day, the accumulation factor for CMI is approximately 2.5 and for DMI is 4.6 Importantly, it may take two weeks or longer to achieve this extent of accumulation at constant dosing because of the relatively long elimination half-lives of CMI and DMI (see DOSAGE AND ADMINISTRATION). The effects of hepatic and renal impairment on the

sposition of clomipramine hydrochloride have not been determined.

Iteractions—Co-administration of haloperidol with CMI increases plasma concentrations of CMI. Co-administration of CMI with phenobarbital increases plasma concentrations of phenobarbital (see PRECAUTIONS, Drug Interactions), Younger subjects (18 to 40 years of age) tolerated CMI better and had significantly lower steady-state plasma concentration compared with subjects over 65 years of age. Children under 15 years of age had significantly lower steady-state plasma concentration compared with subjects over 65 years of age. Children under 15 years of age had significantly lower steady-state plasma concentration. ower plasma concentration/dose ratios, compared with adults. Plasma concentrations of CMI were significantly lower in smokers than in nonsmokers.

INDICATIONS AND USAGE

Clomipramine hydrochloride capsules USP are indicated for the treatment of obsessions and compulsions in patients with Obsessive-Compulsive Disorder (OCD). The obsessions or compulsions must cause marked distress, he time-consuming or significantly interfere occupational functioning, in order to meet the DSM-III-R (circa

Obsessions are recurrent, persistent ideas, thoughts, images, or impulses that are ego-dystonic. Compulsions are repetitive, purposeful, and intentional behaviors performed in response to an obsession or in a stereotyped fashion, and are recognized by the person as excessive or unreasonable.

The effectiveness of clomipramine for the treatment of OCD was demonstrated in multicenter. placebo-controlled, parallel-group studies, including two 10-week studies in adults and one 8-week study in children and adolescents 10 to 17 years of age. Patients in all studies had moderate-to-severe OCD (DSM-III), with mean baseline ratings on the Yale-Brown Obsessive Compulsive Scale (YBOCS) ranging from 26 to 28 and a mean baseline rating of 10 on the NIMH Clinical Global Obsessive Compulsive Scale (NIMH-OC). Patients

taking CMI experienced a mean reduction of approximately 10 on the YBOCS, representing an average improvement on this scale of 35% to 42% among adults and 37% among an average improvement of interesting the scale of 3.5% to 4.2% among admits alm 3.7% among children and adolescents. CMI-treated patients experienced a 3.5 unit decrement on the NIMH-OC. Patients on placebo showed no important clinical response on either scale. The maximum dose was 250 mg/day for most adults and 3 mg/kg/day (up to 200 mg) or all children and adolescents

The effectiveness of clomipramine for long-term use (i.e., for more than 10 weeks) has not been systematically evaluated in placebo-controlled trials. The physician who elects to use clomipramine for extended periods should periodically reevaluate the long-term usefulness of the drug for the individual nation (see DOSAGE AND ADMINISTRATION)

CONTRAINDICATIONS

Clomipramine hydrochloride capsules USP are contraindicated in patients with a history of ypersensitivity to clomipramine or other tricyclic antidepressant

Monoamine Oxidase Inhibitors (MAOIs)

The use of MAOIs intended to treat psychiatric disorders with clomipramine or within 14 days of stopping treatment with clomipramine is contraindicated because of an increased risk of serotonin syndrome. The use of clominramine within 14 days of stonning an MAOI d to treat psychiatric disorders is also contraindicated (see WARNINGS and DOSAGE

Starting clomipramine in a patient who is being treated with linezolid or intravenous nethylene blue is also contraindicated because of an increased risk of serotonin syndrome (see WARNINGS and DOSAGE AND ADMINISTRATION)

Clomipramine is contraindicated during the acute recovery period after a myocardial infarction.

Clinical Worsening and Suicide Risk
Patients with major depressive disorder (MDD), both adult and pediatric, may experience vorsening of their depression and/or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant concluding of unique milester in telephone medications, and this risk may persist until significant remission occurs. Suicide is a known risk of depression and certain other psychiatric disorders, and these disorders themselves are the strongest predictors of suicide. There has been a long-standing concern, however, that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients during the early phases of treatment. Pooled analyses of short-term placebo-controlled trials of antidepressant drugs (SSRIs and others) showed that these drugs increase the risk of suicidal thinking and behavior (suicidality) in children. adolescents, and young adults (ages 18 to 24) with major depressive disorder (MDD) and other psychiatric disorders. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction with antidepressants compared to placebo in adults aged 65 and older The pooled analyses of placeho-controlled trials in children and adolescents with MDD obsessive compulsive disorder (OCD), or other psychiatric disorders included a total of 24 short-term trials of 9 antidepressant drugs in over 4400 patients. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 295 short-term trials (median duration of 2 months) of 11 antidepressant drugs in ove 77,000 patients. There was considerable variation in risk of suicidality among drugs, but a endency toward an increase in the younger patients for almost all drugs studied. There were differences in absolute risk of suicidality across the different indications, with the highest incidence in MDD. The risk differences (drug vs placebo), however, were relatively stable vithin age strata and across indications. These risk differences (drug-placebo diff in the number of cases of suicidality per 1000 patients treated) are provided in **Table 1**.

Table 1					
Age Range	Drug-Placebo Difference in Number of Cases of Suicidality per 1000 Patients Treated				
	Increases Compared to Placebo				
<18	14 additional cases				
18-24	5 additional cases				
	Decreases Compared to Placebo				
25-64	1 fewer case				
≥65	6 fewer cases				

No suicides occurred in any of the nediatric trials. There were suicides in the adult trials but the number was not sufficient to reach any conclusion about drug effect on suicide. It is unknown whether the suicidality risk extends to longer-term use, i.e., beyond several months. However, there is substantial evidence from placebo-controlled maintenance trials in adults with depression that the use of antidepressants can delay the recurrence of depression All patients being treated with antidepressants for any indication should be tored appropriately and observed closely for clinical worsening, suicid and unusual changes in behavior, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases. The following symptoms, anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, and mania, have been reported in adult and pediatric patients being treated with antidepressants for major depressive disorder as well as for other indications, both psychiatric and nonpsychiatric Although a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of suicidal impulses has not been established, 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 precursors to worsening epression or suicidality, especially if these symptoms are severe, abrupt in onset, or were not part of the patient's presenting symptoms

Families and caregivers of patients being treated with antidepressants for majo depressive disorder or other indications, both psychiatric and nonpsychiatric, should be alerted about the need to monitor patients for the emergence of agitation, irritability, unusual changes in behavior, and the other symptoms described above as well as the emergence of suicidality, and to report such symptoms immediately to healthcare providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for clomipramine hydrochloride should be written for the smallest quantity of capsules consistent with good patient management, in order

ing 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 antidepressant alone may increase the likelihood of precipitation of a mixed/manic episode in patients at risk for bipolar disorder. Whether on precipitation of a linear/intain episode in patients at this to oppose intostorer, weither 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 creening should include a detailed psychiatric history, including a family history of suicide. bipolar disorder, and depression. It should be not approved for use in treating bipolar depression. ssion. It should be noted that clomipramine hydrochloride is not

Serotonin Syndrome

nent of a potentially life-threatening serotonin syndrome has been reported with SNRs and SSRs, including clomipramine, alone but particularly with concomitant use of other serotonergic drugs (including triptans, tricyclic antidepressants, fentanyl, lithium, tramadol, tryptophan, buspirone, and St. John's Wort) and with drugs that impair metabolisn of serotonin (in particular, MAOIs, both those intended to treat psychiatric disorders and

also others, such as linezolid and intravenous methylene blue). Serotonin syndrome symptoms may include mental status changes (e.g., agitation hallucinations, delirium, and coma), autonomic instability (e.g., tachycardia, labile blood pressure, dizziness, diaphoresis, flushing, hyperthermia), neuromuscular changes (e.g. oresoure, disciness, diapholesis, indisting, pretirential, neuroinscende charges ever tremor, rigidity, myoclonus, hyperreflexia, incoordination), seizures, and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea). Patients should be monitored for the emergence

The concomitant use of clomipramine with MAOIs intended to treat psychiatric disorders is contraindicated. Clomipramine should also not be started in a patient who is being treated with MAOIs such as linezolid or intravenous methylene blue. All reports with methylene blue that provided information on the route of administration involved intravenous administration in the dose range of 1 mg/kg to 8 mg/kg. No reports involved the administration of methylene blue by other routes (such as oral tablets or local tissue injection) or at lower doses. There may be circumstances when it is necessary to initiate treatment with an MAOI such as linezolid or intravenous methylene blue in a patient taking clomipramine. Clomipramine should be discontinued before initiating treatment with the MAOI (see CONTRAINDICATIONS and DOSAGE AND ADMINISTRATION)

If concomitant use of clomipramine with other serotonergic drugs, including triptans tricyclic antidepressants, fentanyl, lithium, tramadol, buspirone, tryptophan, and St. John's words a clinically warranted, patients should be made aware of a potential increased risk for serotonin syndrome, particularly during treatment initiation and dose increases. Treatment with clomipramine and any concomitant serotonergic agents should be discontinued immediately if the above events occur and supportive symptomatic treatmen hould be initiated

Angle-Closure Glaucoma

The pupillary dilation that occurs following use of many antidepressant drugs including clomipramine may trigger an angle closure attack in a patient with anatomically narroy ngles who does not have a patent iridectomy.

During premarket evaluation, seizure was identified as the most significant risk of

The observed cumulative incidence of seizures among patients exposed to clomiprar The observed cumulative incidence of seizures among patients exposed to comparatine at doses up to 300 mg/day was 0.64% at 90 days, 1.12% at 180 days, and 1.45% at 365 days. The cumulative rates correct the crude rate of 0.7%, (25 of 3519 patients) for the variable duration of exposure in clinical trials

Although dose appears to be a predictor of seizure, there is a confounding of dose and duration of exposure, making it difficult to assess independently the effect of either factor alone. The ability to predict the occurrence of seizures in subjects exposed to doses of CMI greater than 250 mg is limited, given that the plasma concentration of CMI may be dose-dependent and may vary among subjects given the same dose. Nevertheless, prescribers are advised to limit the daily dose to a maximum of 250 mg in adults and 3 mg/kg (or 200 mg) in children and adolescents (see DOSAGE AND ADMINISTRATION). aution should be used in administering clomipramine to patients with a history of seizures concomitant use with other drugs that lower the seizure threshold.

Rare reports of fatalities in association with seizures have been reported by foreign postmarketing surveillance, but not in U.S. clinical trials. In some of these cases, clomipramine had been administered with other epileptogenic agents; in others, the patients involved had possibly predisposing medical conditions. Thus a causal association between clomipramine treatment and these fatalities has not been established.

Physicians should discuss with patients the risk of taking clomipramine while engaging activities in which sudden loss of consciousness could result in serious injury to the patient or others, e.g., the operation of complex machinery, driving, swimming, climbing.

Rare cases of drug rash with eosinophilia and systemic symptoms (DRESS) have beer reported with the use of clomipramine. In the event of severe acute reactions such as DRESS, discontinue clomipramine therapy immediately and institute appropriate treatment.

PRECAUTIONS

General
Suicide- Since depression is a commonly associated feature of OCD, the risk of suicide must be considered. Prescriptions for clomipramine hydrochloride should be written for the smallest quantity of capsules consistent with good patient management, in order to

tachycardia were each seen in approximately 20% of patients taking clomipramine hydrochloride in clinical trials; but patients were frequently asymptomatic. Among approximately 1400 patients treated with CMI in the premarketing experience who had ECGs, 1.5% developed abnormalities during treatment, compared with 3.1% of patients eceiving active control drugs and 0.7% of patients receiving placebo. The most commor ECG changes were PVCs, ST-T wave changes, and intraventricular conduction abnormalities. These changes were rarely associated with significant clinical symptoms. Nevertheless, caution is necessary in treating patients with known cardiovascular disease, and gradual

Psychosis, Confusion, And Other Neuropsychiatric Phenomena- Patients treated with clomipramine have been reported to show a variety of neuropsychiatric signs and symptoms including delusions, hallucinations, psychotic episodes, confusion, and paranoia. Because of the uncontrolled nature of many of the studies, it is impossible to provide a precise estimate of the extent of risk imposed by treatment with clomipramine. As with tricyclic antidepressants to which it is closely related, clomipramine may precipitate ar acute psychotic episode in patients with unrecognized schizophrenia.

Mania/Hypomania- During premarketing testing of clomipramine in patients with affective disorder, hypomania or mania was precipitated in several patients. Activation of mania or hypomania has also been reported in a small proportion of patients with affective disorder treated with marketed tricyclic antidepressants, which are closely related to clomipramine. **Hepatic Changes-** During premarketing testing, clomipramine was occasionally associated with elevations in SGOT and SGPT (pooled incidence of approximately 1% and 3% respectively) of potential clinical importance (i.e., values greater than 3 times the upper limit of normal). In the vast majority of instances, these enzyme increases were not associated with other clinical findings suggestive of hepatic injury; moreover, none were iaundiced. Rare reports of more severe liver injury, some fatal, have been recorded in foreign postmarketing experience. Caution is indicated in treating patients with known liver disease, and periodic monitoring of hepatic enzyme levels is recommended in such patients. Hematologic Changes- Although no instances of severe hematologic toxicity were seen in the premarketing experience with clomipramine, there have been postmarketing reports of leukonenia anranulocytosis thrombocytonenia anemia and nancytonenia in association with teuropenia, agranucyosis, unionocyopenia, arenia, and pancyopenia in association in clomipramine hydrochloride capsules USP use. As is the case with tricyclic antidepressants to which clomipramine is closely related, leukocyte and differential blood counts should be obtained in patients who develop fever and sore throat during treatment with clomipramine Central Nervous System- More than 30 cases of hyperthermia have been recorded by ondomestic postmarketing surveillance systems. Most cases occurred when clomipramine was used in combination with other drugs. When clomipramine and a neuroleptic were used concomitantly, the cases were sometimes considered to be examples of a neuroleptic malignant syndrome

Sexual Dysfunction- The rate of sexual dysfunction in male patients with OCD who sexual distribution in a late of sexual distribution in late patients with clompramine in the premarketing experience was markedly increased compared with placebo controls (i.e., 42% experienced ejaculatory failure and 20% experienced impotence, compared with 2.0% and 2.6%, respectively, in the placebo group). Approximately 85% of males with sexual dysfunction chose to continue treatment.

Hyponatremia- Hyponatremia has occurred as a result of treatment with clomipramine.

In many cases, hyponatremia appears to be the result of the syndrome of inappropriate antidiuretic hormone secretion (SIADH). Elderly patients may be at greater risk of developing antiquinetti infinitori secteturi (publi); tueri yaueritsi may be a greater inski developita hyponatremia with a serotonergic antidepressant. Also, patients taking diuretics or wh are otherwise volume-depleted can be at greater risk. Discontinuation of clomipramine in patients with symptomatic hyponatremia and appropriate medical intervention should be instituted. Signs and symptoms of hyponatremia include headache, difficulty concentrating memory impairment, confusion, weakness, and unsteadiness, which can lead to falls More severe and/or acute cases have included hallucination, syncope, seizure, coma respiratory arrest, and death.

Weight Changes- In controlled studies of OCD, weight gain was reported in 18% of patients receiving clomipramine, compared with 1% of patients receiving placebo. In these studies, 28% of patients receiving clomipramine had a weight gain of at least 7% of their initial body weight, compared with 4% of patients receiving placebo. Several patients had weight gains in excess of 25% of their initial body weight. Conversely, 5% of patients clomipramine and 1% receiving placebo had weight losses of at least 7% of

Electroconvulsive Therapy- As with closely related tricyclic antidepressants, concurrent administration of clomipramine with electroconvulsive therapy may increase the risks; such treatment should be limited to those patients for whom it is essential, since there is limited clinical experience.

Surgery- Prior to elective surgery with general anesthetics, therapy with clomipram

intinued for as long as is clinically feasible, and the anesthetist should be advised. Use in Concomitant Illness- As with closely related tricyclic antidepressants, clomipramine should be used with caution in the following:

1. Hyperthyroid patients or patients receiving thyroid medication, because of the possibility

- of cardiac toxicity;
- Patients with increased intraocular pressure, a history of parrow-angle glaucoma, or urinary retention, because of the anticholinergic properties of the drug;

 3. Patients with tumors of the adrenal medulla (e.g., pheochromocytoma, neuroblas
- in whom the drug may provoke hypertensive crises
- 4. Patients with significantly impaired renal function.

Withdrawal Symptoms- A variety of withdrawal symptoms have been reported in association with abrupt discontinuation of clomipramine, including dizziness, nausea,

vomiting, headache, malaise, sleep disturbance, hyperthermia, and irritability. In addition such patients may experience a worsening of psychiatric status. While the withdrawal effects of clomipramine have not been systematically evaluated in controlled trials, they are well known with closely related tricyclic antidepressants, and it is recommended that the dosage be tapered gradually and the patient monitored carefully during discontinuation (see DRUG ABUSE AND DEPENDENCE).

Information for Patients
Prescribers or other health professionals should inform patients, their families, and their caregivers about the benefits and risks associated with treatment with clomipramine hydrochloride and should counsel them in its appropriate use. A natient Medication Builde about "Antidepressant Medicines, Depression and other Serious Mental Illness, and Suicidal Thoughts or Actions" is available for clomipramine hydrochloride. The prescribe 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 is 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 clomipramine hydrochloride.

Clinical Worsening and Suicide Risk- Patients, their families, and their caregivers should be encouraged to be alert to the emergence of anxiety, agitation, panic attacks insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restle hypomania, mitability, indicated the control of the of such symptoms on a day-to-day basis, since changes may be abrupt. Such symptoms of such symptoms on a day-road basis, since changes may be acrupt, such symptoms should be reported to the patient's prescriber or health professional, especially if they are severe, abrupt in onset, 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. Physicians are advised to discuss the following issues with patients for whom they prescribe

- The risk of seizure (see WARNINGS);
- 2. The relatively high incidence of sexual dysfunction among males (see Sexual Dysfunction)
- nce clomipramine may impair the mental and/or physical abilities required for the performance of complex tasks, and since clomipramine is associated with a risk of seizures, patients should be cautioned about the performance of complex and hazardous tasks (see WARNINGS):
- Patients should be cautioned about using alcohol, barbiturates, or other CNS depressants concurrently, since clomipramine may exaggerate their response to these drugs;
- . Patients should notify their physician if they become pregnant or intend to become nregnant during therapy

pregnant during interapy;

6. Patients should notify their physician if they are breast-feeding.

Patients should be advised that taking clomipramine can cause mild pupillary dilation, which in susceptible individuals, can lead to an episode of angle-closure glaucoma. Preexisting glaucoma is almost always open-angle glaucoma because angle-closure glaucoma, when diagnosed, can be treated definitively with iridectomy. Open-angle glaucoma is not a risk factor for angle-closure glaucoma. Patients may wish to be examined to determine whether they are susceptible to angle closure, and have a prophylactic procedure (e.g., iridectomy), if they are susceptible,

The risks of using clomipramine in combination with other drugs have not been systematically evaluated. Given the primary CNS effects of clomipramine, caution is advised in using it concomitantly with other CNS-active drugs (see Information for Patients). Clomipramine should not be used with MAO inhibitors (see CONTRAINDICATIONS).

Close supervision and careful adjustment of dosage are required when clomipramine is administered with anticholinergic or sympathomimetic drugs

Several tricyclic antidepressants have been reported to block the pharmacologic effects of guanethidine, clonidine, or similar agents, and such an effect may be anticipated with CMI because of its structural similarity to other tricyclic antidepressants.

The plasma concentration of CMI has been reported to be increased by the concomitan administration of haloperidol; plasma levels of several closely related tricyclic antidepressants have been reported to be increased by the concomitant administration of methylphenidate or hepatic enzyme inhibitors (e.g., cimetidine, fluoxetine) and decreased by the concomitant administration of hepatic enzyme inducers (e.g., barbiturates, phenytoin), and such an effect may be anticipated with CMI as well. Administration of CMI has been re effect may be anticipated with com as well. Administration of Cwi has been reported to increase the plasma levels of phenobarbital, if given concomitantly (see CLINICAL PHARMACOLOGY, Interactions).

Drugs Metabolized by P450 2D6- The biochemical activity of the drug metabolizing isozyme cytochrome P450 2D6 (debrisoquin hydroxylase) is reduced in a subset of the Caucasian population (about 7% to 10% of Caucasians are so-called "poor metabolizers"); reliable estimates of the prevalence of reduced P450 2D6 isozyme activity among Asian, African and other populations are not yet available. Poor metabolizers have higher than expected plasma concentrations of tricyclic antidepressants (TCAs) when given usual doses. Depending on the fraction of drug metabolized by P450 2D6, the increase in plasma concentration may be small, or quite large (8 fold increase in plasma AUC of the TCA). In addition, certain drugs inhibit the activity of this isozyme and make norma izers resemble noor metabolizers. An individual who is stable on a given dose o interaction less resemble pour interactionizers. Air intrivioual with its statile or a givent robe or TCA may become abruptly toxic when given one of these inhibiting drugs as concomitant therapy. The drugs that inhibit cytochrome P450 2D6 include some that are not metabolized by the enzyme (quinidine: cimetidine) and many that are substrates for P450 2D6 (many other antidepressants, phenothiazines, and the Type 1C antiarrhythmics propafenone and toller ambegressants, prendunates, and the type Te amanguments projectione and flecalinide). While all the selective serotonin reuptake inhibitors (SSRIs), e.g., fluoxetine, sertraline, paroxetine, and fluoxamine, inhibit P450 2D6, they may vary in the extent of inhibition. Fluoxamine has also been shown to inhibit P450 1A2, an isoform also nvolved in TCA metabolism. The extent to which SSRI-TCA interactions may nose clinical involved in IVA interactions may pose clinical problems will depend on the degree of inhibition and the pharmacokinetics of the SSRI involved. Nevertheless, caution is indicated in the co-administration of TCAs with any of the SSRIs and also in switching from one class to the other. Of particular importance, sufficient time must elapse before initiating TCA treatment in a patient being withdrawn from fluoxetine, given the long half-life of the parent and active metabolite (at least 5 weeks may be necessary). Concomitant use of agents in the tricyclic antidepressant class (which includes clomipramine) with drugs that can inhibit cytochrome P450 2D6 may require lower doses than usually prescribed for either the tricyclic antidepressan agent or the other drug. Furthermore, whenever one of these drugs is withdrawn from co-therapy, an increased dose of tricyclic antidepressant agent may be required. It is desirable to monitor TCA plasma levels whenever an agent of the tricyclic antidepressan class including clomipramine is going to be co-administered with another drug known to be an inhibitor of P450 2D6 (and/or P450 1A2).

be an infinition of P450 206 (and/or P450 1A2).

Because clomipramine is highly bound to serum protein, the administration of clomipramine to patients taking other drugs that are highly bound to protein (e.g., warfarin, digoxin) may cause an increase in plasma concentrations of these drugs, potentially resulting in and vause an interaction product or the content and or the content of the content

(see Contraindications, Warnings, and Dosage and Administration.)

rotonergic Drugs De Contraindications, Warnings, and Dosage and Administration.)

Carcinogenesis, Mutagenesis, Impairment of Fertility

No evidence of carcinogenicity was found in two 2-year bioassays in rats at doses up to 100 ma/ka, which is 24 and 4 times the maximum recommended human daily dose (MRHD not mg/kg, without is 24 and 4 miles the maximum recommended inflam along uses (without on a mg/kg and mg/m² basis, respectively, or in a 2-year bioassay in mice at doses up to 80 mg/kg, which is 20 and 1.5 times the MRHD on a mg/kg and mg/m² basis respectively

n reproduction studies, no effects on fertility were found in rats given up to 24 mg/kg, which is 6 times, and approximately equal to, the MRHD on a mg/kg and mg/m2 basis, res

No teratogenic effects were observed in studies performed in rats and mice at doses up to 100 mg/kg, which is 24 times the maximum recommended human daily dose (MRHD) on a mg/kg basis and 4 times (rats) and 2 times (mice) the MRHD on a mg/m² basis. Slight nonspecific embryo/fetotoxic effects were seen in the offspring of treated rats given 50 and 100 mg/kg and of treated mice given 100 mg/kg.

There are no adequate or well-controlled studies in pregnant women. Withdrawal symptoms including litteriness, tremor, and seizures, have been reported in neonates whose mothers had taken clomipramine until delivery. Clomipramine should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Clominramine hydrochloride has been found in human milk Because of the notential omplaining hydrocinionical has been found in human limb. Because of the potent r adverse reactions, a decision should be made whether to discontinue nursing discontinue the drug, taking into account the importance of the drug to the mother

Pediatric Use Safety and effectiveness 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 clomipramine in a child or adolescent must balance the potential risks with the clinical need.

In a controlled clinical trial in children and adolescents (10 to 17 years of age) 46 outpatients received clomipramine for up to 8 weeks. In addition, 150 adolescent patients have received clomipramine in open-label protocols for periods of several months to several years. Of the 196 adolescents studied, 50 were 13 years of age or less and 146 were 14 to 17 years of age. The adverse reaction profile in this age group (see ADVERSE

FEACTIONS) is similar to that observed in adults.

The risks, if any, that may be associated with clomipramine's extended use in children and adolescents with OCD have not been systemically assessed. The evidence supporting the conclusion that clomipramine is safe for use in children and adolescents is derived relatively short term clinical studies and from extrapolation of experience gained n adult patients. In particular, there are no studies that directly evaluate the effects of long term clomipramine use on the growth, development, and maturation of children and adolescents. Although there is no evidence to suggest that clomipramine adversely affects growth, development or maturation, the absence of such findings is not adequate to rule

growth, development of indundant, the absence of such infinings is not adequate to the out a potential for such effects in chronic use.

The safety and effectiveness in pediatric patients below the age of 10 have not been established. Therefore, specific recommendations cannot be made for the use of clomipramine pediatric patients under the age of 10.

Clinical studies of clomipramine did not include sufficient numbers of subjects age 65 and over to determine whether they respond differently from younger subjects: 152 patients at least 60 years of age participating in various U.S. clinical trials received clomipramine for periods of several months to several years. No unusual age-related adverse events were identified in this population. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range reflecting the greater frequency of decreased hepatic, renal, or cardiac function and of concomitant disease or other drug therapy. Clomipramine has been associated with cases of clinically significant hyponatremia. Elderly patients may be at greater risk for this adverse reaction (see PRECAUTIONS, Hyponatremia).

ADVERSE REACTIONS **Commonly Observed**

The most commonly observed adverse events associated with the use of clomipramine and not seen at an equivalent incidence among placebo-treated patients were gastrointestinal complaints, including dry mouth, constipation, nausea, dyspepsia, and anorexia; nervous system complaints, including somnolence, tremor, dizziness, nervousness, and myoclonus; genitourinary complaints, including changed libido, ejaculatory failure, impotence, and micturition disorder; and other miscellaneous comp increased appetite, weight gain, and visual changes.

Leading to Discontinuation of Treatment

Approximately 20% of 3616 patients who received clomipramine in U.S. premarketing clinical trials discontinued treatment because of an adverse event. Approximately one-half of the patients who discontinued (9% of the total) had multiple complaints, none of which could be classified as primary. Where a primary reason for discontinuation could be identified, most patients discontinued because of nervous system complaints (5.4%). primarily somnolence. The second-most-frequent reason for discontinuation was digestive system complaints (1.3%), primarily vomiting and nausea.

There was no apparent relationship between the adverse events and elevated plasma

drug concentrations

Incidence in Controlled Clinical Trials

The following table enumerates adverse events that occurred at an incidence of 1% or greater among patients with OCD who received clomipramine in adult or pediatric placebocontrolled clinical trials. The frequencies were obtained from pooled data of clinical trials involving either adults receiving clominramine (N=322) or placeho (N=319) or childre involving entire adults receiving complaints (w=322) or practice (w=3-19) or cliniciar treated with clompramine (w=6) or placebo (N=44). 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, in which patient characteristics and other factors differ from those that prevailed in the clinical trials. Similarly, the cited frequencies cannot be compared with figures obtained from other clinical investigations involving different treatments, uses, and investigators. The cited figures, however, provide the physician with a basis for estimating the relative contribution of drug and nondrug factors to the incidence of side effects in

Clinica	Trials (Percentag	je of Patients F	Reporting Event)		
	Adu	lts	Children and Adoleso		
Body System/ Adverse Event*	Clomipramine (N=322)	Placebo (N=319)	Clomipramine (N=46)	Plac (N=	
Nervous System					
Somnolence	54	16	46		
Tremor	54	2	33		
Dizziness	54	14	41		
Headache	52	41	28	;	
Insomnia	25	15	11		
Libido change	21	3	-		
Nervousness	18	2	4		
Myoclonus	13	-	2		
Increased appetite	11	2	-		
Paresthesia	9	3	2		
Memory impairment	9	1	7		
Anxiety	9	4	2		
Twitching	7	1	4		
Impaired concentration	5	2	-		
Depression	5	1	-		
Hypertonia	4	1	2		
Sleep disorder	4	-	9		
Psychosomatic disorder	3	-	-		
Yawning	3	-	-		
Confusion	3	-	2		
Speech disorder	3	-	-		
Abnormal dreaming	3	-			
Agitation	3	-	-		
Migraine	3	-	-		
Depersonalization	2	-	2		
Irritability	2	2	2		
Emotional lability	2	-	-		
Panic reaction	1	-	2		
Aggressive reaction	-	-	2		
Paresis			2		

Abnormal akin ada-	1		- 2	-
Abnormal skin odor	-		2	<u> </u>
Digestive System				
Dry mouth	84	17	63	16
Constipation	47	11	22	9
Nausea	33	14	9	11
Dyspepsia	22	10	13	2
Diarrhea	13	9	7	5
Anorexia	12	<u> </u>	22	2
Abdominal Pain	11	9	13	16
Vomiting	7	2	7	
Flatulence	6	3	-	2
Tooth disorder	5	1 - 1	-	<u> </u>
Gastrointestinal disorder	2	- 1	-	2
Dysphagia	2	1 - 1	-	<u> </u>
Esophagitis	1	1 - 1	-	i -
Eructation	-	- 1	2	2
Ulcerative stomatitis	-	-	2	-
Body as a Whole				
Fatigue	39	18	35	9
Weight increase	18	1	2	-
Flushing	8	-	7	<u> </u>
Hot flushes	5	-	2	-
Chest pain	4	4	7	
Fever	4	-	2	7
Allergy	3	3	7	5
Pain	3	2	4	2
Local edema	2	4	-	-
Chills Weight decrease	2	1	- 7	-
Weight decrease	-		7 4	5
Otitis media	-			1 5
Asthenia Halitoeie	-	 	2	
Halitosis	-		2	
Cardiovascular System	-	, ,		_
Postural hypotension	6	-	4	-
Palpitation	4	2	4	<u> </u>
Tachycardia	4		2	
Syncope	-	-	2	-
Respiratory System				
Pharyngitis	14	9	-	5
Rhinitis	12	10	7	9
Sinusitis	6	4	2	5
Coughing	6	6	4	5
Bronchospasm	2	 	7	2
Epistaxis	2		-	2
Dyspnea	-	H .		-
Laryngitis	-	1	2	-
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency	14 6 5	2 1 3	4 -	-
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention	14 6 5 2	2 1 3	4 -	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria	14 6 5 2 2	1 2 1 3 3 - 2	2 4 - - 7	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis	14 6 5 2 2	1 2 1 3 3 - 2 2	2 4 - - 7 -	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only	14 6 5 2 2 2 (N=182)	2 1 3 - 2 - (N=167)	2 4 - - 7 - (N=10)	2 (N=21)
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea	14 6 5 2 2 2 (N=182)	1 2 1 3 3 - 2 2	2 4 - - 7 -	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal)	14 6 5 2 2 2 (N=182) 12 4	2 1 3 - 2 (N=167) 14	2 4 - - 7 - (N=10)	2 (N=21)
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder	14 6 5 2 2 2 (N=182) 12 4	1 2 1 3 - 2 2 - (N=167) 14 - 2	2 4 - - 7 - (N=10)	2 (N=21)
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis	14 6 5 2 2 2 (N=182) 12 4 4	2 1 3 - 2 (N=167) 14	2 4 - - 7 - (N=10)	2 (N=21)
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea	14 6 5 2 2 2 (N=182) 12 4 4 2	2 1 3 - 2 - (N=167) 14 - 2	2 4 - 7 - (N=10) 10 - - -	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement	14 6 5 2 2 (N=182) 12 4 4 2 2	2 1 3 - 2 - (N=167) 14 - 2	2 4 - 7 - (N=10) 10 - - -	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain	14 6 5 2 2 2 (N=182) 12 4 4 2	2 1 3 - - (N=167) 14 - 2 -	2 4	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea	14 6 5 2 2 (N=182) 12 4 4 2 2 2 2 1	1 2 1 3 - 2 - (N=167) 14 - 2	2 4	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain	14 6 5 2 2 (N=182) 12 4 4 2 2 2	2 1 3 - - (N=167) 14 - 2 -	2 4	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea Male Patients Only	14 6 5 2 2 (N=182) 12 4 4 2 2 2 2 1 (N=140)	1 2 1 3 - 2 - (N=167) 14 - 2	2 4 - 7 - (N=10) 10 - - - (N=36)	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure	14 6 5 2 2 2 (N=182) 12 4 4 2 2 2 1 1 (N=140) 42	1 2 1 3 3 - 2 - (N=167) 14 - 2	2 4 - 7 - (N=10) 10 - - (N=36) 6	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure	14 6 5 2 2 2 (N=182) 12 4 4 2 2 2 1 1 (N=140) 42	1 2 1 3 3 - 2 - (N=167) 14 - 2	2 4 - 7 - (N=10) 10 - - (N=36) 6	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision	14 6 5 2 2 (N=182) 12 4 4 2 2 2 1 (N=140) 42 20	1 2 1 3 - (N=167) 14 - 2 (N=152) 2 3	2 4 7 - (N=10) 10 (N=36) 6 - 7	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion	14 6 5 2 2 (N=182) 12 4 4 2 2 2 2 1 (N=140) 42 20	1 2 1 3 - 2 (N=167) 14 - 2 (N=152) 2 3	2 4 - 7 - (N=10) 10 - - - (N=36) 6 - 7 4	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus	14 6 5 2 2 (N=182) 12 4 4 2 2 2 2 1 1 (N=140) 42 20	1 2 1 3 - 2 - (N=167) 14 (N=152) 2 3 3	2 4 7 - (N=10) 10 (N=36) 6 - 7	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus Abnormal lacrimation	14 6 5 2 2 2 (N=182) 12 4 4 2 2 2 1 1 (N=140) 42 20	1 2 1 3 3 - 2 - (N=167) 14	2 4 - 7 - (N=10) 10 - - - (N=36) 6 - 7 4	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus Abnormal lacrimation Mydriasis	14 6 5 2 2 2 (N=182) 12 4 4 2 2 2 1 1 (N=140) 42 20	1 2 1 3 3 - 2 2 - (N=167) 14 - 2	2 4 7 - (N=10) 10 (N=36) 6 - 7 4 4	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus Abnormal lacrimation Mydriasis Conjunctivitis	14 6 5 2 2 2 (N=182) 12 4 4 2 2 2 1 1 (N=140) 42 20	1 2 1 3 3 - 2 - (N=167) 14 - 2	2 4	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Ahonormal vision Taste perversion Tinnitus Anormal lacrimation Mydriasis Conjunctivitis Anisocoria	14 6 5 2 2 (N=182) 12 4 4 2 2 2 1 1 (N=140) 42 20	1 2 1 3 3 - 2 2 - (N=167) 14 - 2	2 4 7 (N=10) 10 (N=36) 6 - 7 4 4 2	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus Abnormal lacrimation Mydriasis Conjunctivitis Aniscoria Blepharospasm	14 6 5 2 2 2 (N=182) 12 4 4 2 2 2 1 1 (N=140) 42 20	1 2 1 3 - 2 (N=167) 14 - 2 - (N=152) 2 3 4 2	2 4 7 (N=10) 10 (N=36) 6 - 7 4 4 2 2	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus Abnormal lacrimation Mydriasis Conjunctivitis Anisocoria Blepharospasm Ocular allergy	14 6 5 2 2 (N=182) 12 4 4 2 2 1 (N=140) 42 20 18 8 6 3 2 1	1 2 1 3 - 2 (N=167) 14 - 2 (N=152) 2 3 4	2 4 7 - (N=10) 10 (N=36) 6 - 7 4 4 2 2 2 2	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus Abnormal lacrimation Mydriasis Conjunctivitis Aniscoria Blepharospasm	14 6 5 2 2 (N=182) 12 4 4 2 2 2 1 1 (N=140) 42 20	1 2 1 3 - 2 (N=167) 14 - 2 - (N=152) 2 3 4 2	2 4 7 (N=10) 10 (N=36) 6 - 7 4 4 2 2	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus Abnormal lacrimation Mydriasis Conjunctivitis Anisocoria Blepharospasm Ocular allergy Vestibular disorder	14 6 5 2 2 (N=182) 12 4 4 2 2 1 (N=140) 42 20 18 8 6 3 2 1	1 2 1 3 - 2 (N=167) 14 - 2 (N=152) 2 3 4	2 4 7 - (N=10) 10 (N=36) 6 - 7 4 4 2 2 2 2	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus Abnormal lacrimation Mydriasis Conjunctivitis Anisocoria Blepharospasm Ocular allergy Vestibular disorder	14 6 5 2 2 2 (N=182) 12 4 4 2 2 2 1 1 (N=140) 42 20 18 8 6 3 2 1	1 2 1 3 3 - 2 2 - (N=167) 14 - 2	2 4 7 - (N=10) 10 (N=36) 6 - 7 4 4 2 2 2 2	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus Abnormal lacrimation Mydriasis Conjunctivitis Aniscordia Blepharospasm Ocular allergy Vestibular disorder Musculoskeletal Myalgia	14 6 5 2 2 (N=182) 12 4 4 2 2 1 1 (N=140) 42 20 18 8 6 3 2 1 13	1 2 1 3 - (N=167) 14 - 2 - (N=152) 2 3 4	2 4	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysemornthea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus Abnormal lacrimation Mydriasis Conjunctivitis Anisocoria Blepharospasm Ocular allergy Vestibular disorder Musculoskeletal Myalgia Back pain	14 6 5 2 2 (N=182) 14 4 4 2 2 2 1 1 (N=140) 42 20 18 8 6 3 2 1 13 6	1 2 1 3 - (N=167) 14 - 2 - (N=152) 2 3 4	2 4	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus Abnormal lacrimation Mydriasis Conjunctivitis Anisocoria Blepharospasm Ocular allergy Vestibular disorder Musculoskeletal Myalgia Back pain Arthralgia	14 6 5 2 2 (N=182) 12 4 4 2 2 1 1 (N=140) 42 20 18 8 6 3 2 1 13 6 3	1 2 1 3 - (N=167) 14 - 2 (N=152) 2 3 4	2 4 7 (N=10) 10 (N=36) 6 - 7 4 4 2 2 2 2 2	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysemornthea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus Abnormal lacrimation Mydriasis Conjunctivitis Anisocoria Blepharospasm Ocular allergy Vestibular disorder Musculoskeletal Myalgia Back pain	14 6 5 2 2 (N=182) 14 4 4 2 2 2 1 1 (N=140) 42 20 18 8 6 3 2 1 13 6	1 2 1 3 - (N=167) 14 - 2 - (N=152) 2 3 4	2 4	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus Abnormal lacrimation Mydriasis Conjunctivitis Anisocoria Blepharospasm Ocular allergy Vestibular disorder Musculoskeletal Mysalia Back pain Arthralgia Muscle weakness	14 6 5 2 2 (N=182) 12 4 4 2 2 1 1 (N=140) 42 20 18 8 6 3 2 1 13 6 3	1 2 1 3 - (N=167) 14 - 2 (N=152) 2 3 4	2 4 7 (N=10) 10 (N=36) 6 - 7 4 4 2 2 2 2 2	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus Abnormal lacrimation Mydriasis Conjunctivitis Anisocoria Blepharospasm Ocular allergy Vestibular disorder Musculoskeletal Myslgia Back pain Arthralgia Muscle weakness Hemic and Lymphatic	14 6 5 2 2 (N=182) 12 4 4 2 2 1 1 (N=140) 42 20 18 8 6 3 2 1 13 6 3	1 2 1 3 - (N=167) 14 - 2 (N=152) 2 3 4	2 4 7 (N=10) 10 (N=36) 6 - 7 4 4 2 2 2 2 2	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus Abnormal lacrimation Mydriasis Conjunctivitis Aniscooria Blepharospasm Ocular allergy Vestibular disorder Musculoskeletal Myalgia Back pain Arthralgia Muscle weakness Hemic and Lymphatic Purpura	14 6 5 2 2 2 (N=182) 12 4 4 2 2 2 1 1 (N=140) 42 20 18 8 6 3 2 1 13 6 3 1	1 2 1 3 - 2 - (N=167) 14 - 2	2 4 7 - (N=10) 10 (N=36) 6 - 7 4 4 2 2 2 2 2	2
Laryngitis Urogenital System Male and Female Patien Micturition disorder Urinary tract infection Micturition frequency Urinary retention Dysuria Cystitis Female Patients Only Dysmenorrhea Lactation (nonpuerperal) Menstrual disorder Vaginitis Leukorrhea Breast enlargement Breast pain Amenorrhea Male Patients Only Ejaculation failure Impotence Special Senses Abnormal vision Taste perversion Tinnitus Abnormal lacrimation Mydriasis Conjunctivitis Anisocoria Blepharospasm Ocular allergy Vestibular disorder Musculoskeletal Myslgia Back pain Arthralgia Muscle weakness Hemic and Lymphatic	14 6 5 2 2 2 (N=182) 12 4 4 2 2 2 1 1 (N=140) 42 20 18 8 6 3 2 1 13 6 3 1	1 2 1 3 - (N=167) 14 - 2 - (N=152) 2 3 4	2 4 7 - (N=10) 10 (N=36) 6 - 7 4 4 2 2 2 2 2 2 2	2
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USP were administered to approximately 3600 subjects. Untoward events associated

choosing. Consequently, it is not possible to provide a meaningful estimate of the proportion of individuals experiencing adverse events without first grouping similar types of untoward events into a smaller number of standardized event categories.

In the tabulations that follow, a modified World Health Organization dictionary of terminology

has been used to classify reported adverse events. The frequencies presented, therefore represent the proportion of the 3525 individuals exposed to clomipramine who experienced are included except those already listed in the previous table, those reported in terms so general as to be uninformative, and those in which an association with the drug was emote. It is important to emphasize that although the events reported occurred during

treatment with clomipramine, they were not necessarily caused by it.

Events are further categorized by body system and listed in order of decreasing frequency according to the following definitions: frequent adverse events are those occurring on one or more occasions in at least 1/100 patients; infrequent adverse events are those occurring in 1/100 to 1/1000 patients, rare events are those occurring in less than 1/1000 patients.

Body as a Whole- Infrequent - general edema, increased susceptibility to infection, malaise. Rare - dependent edema, withdrawal syndrome.

Cardiovascular System- Infrequent - abnormal ECG, arrhythmia, bradycardia, cardiac arrest, extrasystoles, pallor. Rare - aneurysm, atrial flutter, bundle branch block, cardiac failure, cerebral hemorrhage, heart block, myocardial infarction, myocardial ischemia, peripheral ischemia, thrombophlebitis, vasospasm, ventricular tachycardia.

Digestive System- Infrequent - abnormal hepatic function, blood in stool, colitis duodenitis, gastrici ulcer, gastritis, gatsroesophageal reflux, gingivitis, glossitis, hemorrhoids, hepatitis, increased saliva, irritable bowel syndrome, peptic ulcer, rectal hemorrhage, tongue ulceration, tooth caries. Rare - cheilitis, chronic enteritis, discolored feces, gastric dilatation, gingival bleeding, hiccup, intestinal obstruction, oral/pharyngeal edema, paralytic ileus, salivary gland enlargement. **Endocrine System-** *Infrequent* - hypothyroidism. *Rare* - goiter, gynecomastia,

Hemic and Lymphatic System- Infrequent - lymphadenopathy. Rare - leukemoid reaction,

Metabolic and Nutritional Disorder- Infrequent - dehydration, diabetes mellitus, gout, emia, hyperglycemia, hyperuricemia, hypokalemia. Rare - fat intolerance.

Musculoskeletal System- Infrequent - arthrosis, Rare - dystonia, exostosis, lupus erythematosus rash, bruising, myopathy, myositis, polyarteritis nodosa, torticollis. Nervous System- Frequent - abnormal thinking, vertigo. Infrequent - abnormal coordi

abnormal EEG, abnormal gait, apathy, ataxia, coma, convulsions, delirium, delusion, dyskinesia, dysphonia, encephalopathy, euphoria, extrapyramidal disorder, hallucinations hostility, hyperkinesia, hypnagogic hallucinations, hypokinesia, leg cramps, manic reaction neuralgia, paranoia, phobic disorder, psychosis, sensory disturbance, somnambulism stimulation, suicidal ideation, suicide attempt, teeth-grinding. Rare - anticholinergic syndrome, aphasia, apraxia, catalepsy, cholinergic syndrome, choreoathetosis, generalized ogrammen, apinasia, apinasi, zampangas, reiomogrampia symonici, eliorodanicosis, geleriaris, spasam, hemigaresis, hyperesthesia, hyperreflexia, hypoesthesia, illusion, impaired impulse control, indecisiveness, mutism, neuropathy, nystagmus, oculogyric crisis, oculomotor nerve paralysis, schizophrenic reaction, stupor, suicide.

Respiratory System- Infrequent - bronchitis, hyperventilation, increased sputum,

pneumonia. Rare - cyanosis, hemoptysis, hypoventilation, laryngismus.

Skin and Appendages- Infrequent - alopecia, cellulitis, cyst, eczema, erythematous rash, genital pruritus, maculopapular rash, photosensitivity reaction, psoriasis, pustular rash, skin discoloration. Rare - chloasma, folliculitis, hypertrichosis, piloerection, seborrhea, skin hypertrophy, skin ulceration.

Special Senses- Infrequent - abnormal accommodation, deafness, diplopia, earache, eye pain, foreign body sensation, hyperacusis, parosmia, photophobia, scleritis, taste loss. Rare - blepharitis, chromatopsia, conjunctival hemorrhage, exophthalmos, glaucoma, keratitis labyrinth disorder night blindness retinal disorder strabismus visual field defect Vergenital System—Infrequent—endometriosis, epididymitis, hematuria, nocturia, oliguria, ovarian cyst, perineal pain, polyuria, prostatic disorder, renal calculus, renal pain, urethral disorder, urinary incontinence, uterine hemorrhage, vaginal hemorrhage. Rare albuminuria, anorgasmy, breast engorgement, breast fibroadenosis, cervical dysplasia, endometrial hyperplasia, premature ejaculation, pyelonephritis, pyuria, renal cyst, uterine

Postmarketing Experience

The following adverse drug reaction has been reported during post-approval use of clomipramine. Because this reaction is reported voluntarily from a population of uncertain is not always possible to reliably estimate frequency. Eye Disorders- Angle-closure glaucoma.

nmune System Disorders— Drug Rash with Eosinophilia and Systemic Symptoms (DRESS). Metabolism and Nutrition Disorders- Hyponatremia

Endocrine Disorders- Syndrome of inappropriate antidiuretic hormone secretion (SIADH).

DRUG ABUSE AND DEPENDENCE

iomipramine has not been systematically studied in animals or humans for its potential or abuse, tolerance, or physical dependence. While a variety of withdrawal symptoms ave been described in association with clomipramine discontinuation (see PRECAUTIONS, Withdrawal Symptoms), there is no evidence for drug-seeking behavior, except for a single report of potential clomipramine abuse by a patient with a history of dependence on codeine beport of potential companions abuse by a patient with a instancy of dependence or countries of countries of the periodic periodic properties and multiple psychoactive drugs. The patient received clomipramine for depression and panic attacks and appeared to become dependent after hospital discharge. Despite the lack of evidence suggesting an abuse liability for clomipramine in foreign marketing, it is not possible to predict the extent to which clominramine might be misused marketing, it is not possible to predict the extent to which compilarities limited to instance or abused once marketed in the U.S. Consequently, physicians should carefully evaluate patients for a history of drug abuse and follow such patients closely.

OVERDOSAGE

Deaths may occur from overdosage with this class of drugs. Multiple drug ingestion (including alcohol) is common in deliberate tricyclic overdose. As the management is complex and changing, it is recommended that the physician contact a poison control center for current information on treatment. Signs and symptoms of toxicity develop rapidly after tricyclic overdose. Therefore, hospital monitoring is required as soon as possible.

In U.S. clinical trials, 2 deaths occurred in 12 reported cases of acute overdosage with clomipramine either alone or in combination with other drugs. One death involved a patient suspected of ingesting a dose of 7000 mg. The second death involved a patient suspected of ingesting a dose of 5750 mg. The 10 nonfatal cases involved doses of up to 5000 mg, accompanied by plasma levels of up to 1010 ng/mL. All 10 patients completely recovered. Among reports from other countries of clomipramine overdose, the lowest dose associated with a fatality was 750 mg. Based upon postmarketing reports in the United Kingdom, CMI's lethality in overdose is considered to be similar to that reported for closely related tricyclic compounds marketed as antidepressants.

Signs and symptoms vary in severity depending upon factors such as the amount of drug rhed, the age of the patient, and the time elapsed since drug ingestion. festations of overdose include cardiac dysrhythmias, severe hypotension, com and CNS depression including coma. Changes in the electrocardiogram, particularly in QRS axis or width, are clinically significant indicators of tricyclic toxicity. Other CNS manifestations may include drowsiness, stupor, ataxia, restlessness, agitation, delirium, severe perspiration, hyperactive reflexes, muscle rigidity, and athetoid and choreiform movements. Cardiac abnormalities may include tachycardia, signs of congestive heart failure, and in very rare cases, cardiac arrest, Respiratory depression, cyanosis, shock, vomiting, hyperpyrexia, ydriasis and oliguria or anuria, may also be present.

Management
Obtain an ECG and immediately initiate cardiac monitoring. Protect the patient's airway, establish an intravenous line, and initiate gastric decontamination. A minimum of 6 hours of observation with cardiac monitoring and observation for signs of CNS or respiratory depression, hypotension, cardiac dysrhythmias and/or conduction blocks, and seizures

If signs of toxicity occur at any time during this period, extended monitoring is required. There are case reports of patients succumbing to fatal dysrhythmias late after overdose these patients had clinical evidence of significant poisoning prior to death and mos these patients had clinical evidence of significant poisoning prior to death and most received inadequate gastrointestinal decontamination. Monitoring of plasma drug levels should not avide measurement of the control should not guide management of the patient.

Gastrointestinal Decontamination- All patients suspected of tricyclic overdose should receive gastrointestinal decontamination. This should include large volume gastric lavage followed by activated charcoal. If consciousness is impaired, the airway should be secured

prior to lavage. Emesis is contraindicated. Cardiovascular- A maximal limb-lead QRS duration of > 0.10 seconds may be the best

indication of the severity of the overdose, Intravenous sodium bicarbonate should be used to maintain the serum pH in the range of 7.45 to 7.55. If the pH response is inadequate, hyperventilation may also be used. Concomitant use of hyperventilation and sodium bicarbonate should be done with extreme caution, with frequent pH monitoring. A pH > 7.60 or a pCO₂ < 20 mmHg is undesirable. Dysrhythmias unresponsive to sodium bicarbonate erventilation may respond to lidocaine, bretylium, or phenytoin. Type 1A and

In rare instances, hemoperfusion may be beneficial in acute refractory cardiovascular instability in patients with acute toxicity. However, hemodialysis, peritoneal dialysis, exchange transfusions, and forced diuresis generally have been reported as ineffective

CNS- In patients with CNS depression, early intubation is advised because of the potential for abrupt deterioration. Seizures should be controlled with benzodiazenines, or if these to adulpt deterioration. Jezzeles should be controlled with elezionazepines, of in triese are ineffective, other anticonvulsants (e.g., phenobarbital, phenytoin). Physostigmine is not recommended except to treat life-threatening symptoms that have been unresponsive to other therapies, and then only in consultation with a poison control center.

Psychiatric Follow-up- Since overdosage is often deliberate, patients may attempt suicide by other means during the recovery phase. Psychiatric referral may be appropriate.

Pediatric Management- The principles of management of child and adult overdosages are similar. It is strongly recommended that the physician contact the local poison control center for specific pediatric treatment.

DOSAGE AND ADMINISTRATION

The treatment regimens described below are based on those used in controlled clinical trials of clomipramine in 520 adults, and 91 children and adolescents with OCD. During initial titration, clomipramine should be given in divided doses with meals to reduce gastrointestinal side effects. The goal of this initial titration phase is to minimize side effects by permitting tolerance to side effects to develop or allowing the patient time to adapt if tolerance does not develop.

Because both CMI and its active metabolite, DMI, have long elimination half-lives, the prescriber should take into consideration the fact that steady-state plasma levels, may not be achieved until 2 to 3 weeks after dosage change (see CLINICAL PHARMACOLOGY). Therefore, after initial titration, it may be appropriate to wait 2 to 3 weeks between

Initial Treatment/Dose Adjustment (Adults)

Treatment with clomipramine should be initiated at a dosage of 25 mg daily and gradually increased, as tolerated, to approximately 100 mg during the first 2 weeks. During initial titration, clomipramine should be given in divided doses with meals to reduce gastrointestinal side effects. Thereafter, the dosage may be increased gradually over the next several weeks, up to a maximum of 250 mg daily. After titration, the total daily dose may be en once daily at bedtime to minimize daytime sedation.

Initial Treatment/Dose Adjustment (Children and Adolescents)

As with adults, the starting dose is 25 mg daily and should be gradually increased (also given in divided doses with meals to reduce gastrointestinal side effects) during the first 2 weeks, as tolerated, up to a daily maximum of 3 mg/kg or 100 mg, whichever is smaller. Thereafter, the dosage may be increased gradually over the next several weeks up to a daily maximum of 3 mg/kg or 200 mg, whichever is smaller (see PRECAUTIONS, Pediatric Use). As with adults, after titration, the total daily dose may be given once daily at bedtime to minimize daytime sedation.

Maintenance/Continuation Treatment (Adults, Children, and Adolescents)

While there are no systematic studies that answer the question of how long to continue clomipramine, OCD is a chronic condition and it is reasonable to consider continuation for a responding patient. Although the efficacy of clomipramine after 10 weeks has not been documented in controlled trials, patients have been continued in therapy under double-blind conditions for up to 1 year without loss of benefit. However, dosage adjustments should conditions for up to 1 year without loss of benefin. However, lossage adjustments should be be made to maintain the patient on the lowest effective dosage, and patients should be periodically reassessed to determine the need for treatment. During maintenance, the total daily dose may be given once daily at bedtime.

Switching a Patient To or From a Monoamine Oxidase Inhibitor (MAOI) Intended

to Treat Psychiatric Disorders

At least 14 days should elapse between discontinuation of an MAOI intended to treat psychiatric disorders and initiation of therapy with clomipramine. Conversely, at least 14 days should be allowed after stopping clomipramine before starting an MAOI intended to treat psychiatric disorders (see CONTRAINDICATIONS)

Use of Clomipramine With Other MAOIs, Such as Linezolid or Methylene Blue Do not start clomipramine in a patient who is being treated with linezolid or intravenous methylene blue because there is increased risk of serotonin syndrome. In a patient who requires more urgent treatment of a psychiatric condition, other interventions, including hospitalization, should be considered (see CONTRAINDICATIONS). In some cases, a patient already receiving clomipramine therapy may require urgent

treatment with linezolid or intravenous methylene blue. If acceptable alternatives to linezolid or intravenous methylene blue treatment are not available and the potential benefits of linezolid or intravenous methylene blue treatment are judged to outweigh the risks of serotonin syndrome in a particular patient, clomipramine should be stopped promptly, and linezolid or intravenous methylene blue can be administered. The patient should be monitored for symptoms of serotonin syndrome for two weeks or until 24 hours after the last dose of linezolid or intravenous methylene blue, whichever comes first. Therapy with clomipramine may be resumed 24 hours after the last dose of linezolid or intravenous methylene blue (see WARNINGS).

The risk of administering methylene blue by non-intravenous routes (such as oral tablets or by local injection) or in intravenous doses much lower than 1 mg/kg with clomipramine is unclear. The clinician should, nevertheless, be aware of the possibility of emergent symptoms of serotonin syndrome with such use (see WARNINGS).

Clomipramine Hydrochloride Capsules USP are supplied as follows: 25 mg - Dark blue cap/light blue body capsules, size 2, with black printing of CLOM 25 on both cap and body of capsule Bottles of 30 NDC 51672-4011-6

Bottles of 60						NDC	51672	401	11-4	+	
Bottles of 90						NDC	51672	401	11-5	j	
Bottles of 10	0					NDC	51672-	401	1-1		
50 mg - Yell	ow opaque	capsules,	size 1,	with	black	printing of	CLOM	50	on	both	C
and body of	capsule										
Bottles of 30						NDC	51672	401	12-6	i	
Bottles of 60						NDC	51672	401	2-4	+	
Bottles of 90						NDC	51672	401	12-5	j	
Bottles of 10	0					NDC	51672-	401	2-1		
75 mg - Wh	ite opaque	capsules,	size 1,	with	black	printing of	CLOM	75	on	both	С
and body of	capsule										
Bottles of 30						NDC	51672	401	3-6	i	
Bottles of 60						NDC	51672	401	3-4	+	
Rottles of On						NDC	51672	4 01	13 5		

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]

Phospholipidosis and testicular changes commonly associated with tricyclic compounds, have been observed with clomipramine. In chronic rat studies, changes related to clomipramine consisted of systemic phospholipidosis, alteration in the testes (atrophy, mineralization) and secondary changes in other tissues. In addition cardiac thrombosis and dermatitis, keratitis were observed in rats treated for 2 years at doses which were 24 and 10 times ium recommended human daily dose (MRHD), respectively, on a mg/kg basis, and 4 and 1.5 times the MRHD, respectively, on a mg/m2 basis

Mfd. bv: Taro Pharmaceutical Industries Ltd., Haifa Bav, Israel 2624761 Dist. by: Taro Pharmaceuticals U.S.A., Inc., Hawthorne, NY 10532

Medication Guide

Clomipramine Hydrochloride Capsules USP

(kloe mip' ra meen hye'' droe klor' ide)

Antidepressant Medicines, Depression and other Serious Mental Illnesses, and **Suicidal Thoughts or Actions**

Read the Medication Guide that comes with your or your family member's antidepressant medicine. This Medication Guide is only about the risk of suicidal thoughts and actions with antidepressant medicines. Talk to your, or your family member's, healthcare provider about:

- all risks and benefits of treatment with antidepressant medicines
- all treatment choices for depression or other serious mental illness

What is the most important information I should know about antidepressant medicines, depression and other serious mental illnesses, and suicidal thoughts or actions?

- 1. Antidepressant medicines may increase suicidal thoughts or actions in some children, teenagers, and young adults within the first few months of treatment.
- 2. Depression and other serious mental illnesses are the most important causes of suicidal thoughts and actions. Some people may have a particularly high risk of having suicidal thoughts or actions. These include people who have (or have a family history of) bipolar illness (also called manic-depressive illness) or suicidal thoughts or actions.

3. How can I watch for and try to prevent suicidal thoughts and actions in myself or a family member?

- Pay close attention to any changes, especially sudden changes, in mood, behaviors, thoughts, or feelings. This is very important when an antidepressant medicine is started or when the dose is changed
- Call the healthcare provider right away to report new or sudden changes in mood, behavior, thoughts, or feelings.
- Keep all follow-up visits with the healthcare provider as scheduled. Call the healthcare provider between visits as needed, especially if you have concerns about symptoms.

Call a healthcare provider right away if you or your family member has any of the following symptoms, especially if they are new, worse, or worry you:

- thoughts about suicide or dying
- attempts to commit suicide
- new or worse depression
- new or worse anxiety
- feeling very agitated or restless
- panic attacks
- trouble sleeping (insomnia) new or worse irritability
- acting aggressive, being angry, or violent
- acting on dangerous impulses
- an extreme increase in activity and talking (mania)
- other unusual changes in behavior or mood

Low salt (sodium) levels in the blood. Elderly people may be at greater risk for this. Symptoms may include:

- headache
- weakness or feeling unsteady
- · confusion, problems concentrating or thinking or memory problems

Visual problems

- eve pain
- changes in vision

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swelling or redness in or around the eve

Only some people are at risk for these problems. You may want to undergo an eye examination to see if you are at risk and receive preventative treatment if you are.

Who should not take clomipramine hydrochloride capsules, USP?

Do not take clomipramine if you:

- •take a monoamine oxidase inhibitor (MAOI). Ask your healthcare provider or pharmacist if you are not sure if you take an MAOI, including the antibiotic linezolid.
- o Do not take an MAOI within 2 weeks of stopping clomipramine unless directed to do so by your physician.
- o Do not start clomipramine if you stopped taking an MAOI in the last 2 weeks unless directed to do so by your physician.

What else do I need to know about antidepressant medicines?

- Never stop an antidepressant medicine without first talking to a healthcare provider. Stopping an antidepressant medicine suddenly can cause other symptoms.
- Antidepressants are medicines used to treat depression and other illnesses. It is important to discuss all the risks of treating depression and also the risks of not treating it. Patients and their families or other caregivers should discuss all treatment choices with the healthcare provider, not just the use of
- Antidepressant medicines have other side effects. Talk to the healthcare provider about the side effects of the medicine prescribed for you or your family member.
- Antidepressant medicines can interact with other medicines. Know all of the medicines that you or your family member takes. Keep a list of all medicines to show the healthcare provider. Do not start new medicines without first checking with your healthcare provider.
- Not all antidepressant medicines prescribed for children are FDA approved for use in children. Talk to your child's healthcare provider for more information.

Call your doctor for medical advice about side effects, You may report side effects to FDA at 1-800-FDA-1088. This Medication Guide has been approved by the U.S. Food and Drug Administration

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