HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use DONEPEZIL HYDROCHLORIDE TABLETS safely and effectively. See full prescribing information for DONEPEZIL HYDRO-CHLORIDE TABLETS.

DONEPEZIL hydrochloride tablets, for oral use Initial U.S. Approval: 1996

----- INDICATIONS AND USAGE

Donepezil hydrochloride tablets are an acetylcholinesterase inhibitor indicated for the treatment of dementia of the Alzheimer's type. Efficacy has been demonstrated in patients with mild, moderate, and severe Alzheimer's Disease (1).

- ----- DOSAGE AND ADMINISTRATION -----Mild to Moderate Alzheimer's Disease: 5 mg to 10 mg once daily
- (2:1) Moderate to Severe Alzheimer's Disease: 10 mg to 23 mg once daily (2:2)
- DOSAGE FORMS AND STRENGTHS --- Tablets: 23 mg (3)
- CONTRAINDICATIONS

 Known hypersensitivity to donepezil hydrochloride or to piperidine
- WARNINGS AND PRECAUTIONS
- WANNINIS AND PRECAUTIONS

 Cholinesterae inhibitors are likely to exaggerate succinylcholine-type muscle relaxation during anesthesia (5.1)

 Cholinesteraes inhibitors may have vagotonic effects on the sinoatrial and atrioventricular nodes manifesting as bradycardia or heart block (5)
- neart plock (5.2)

 Donepezil hydrochloride can cause vomiting. Patients should be observed closely at initiation of treatment and after dose increases.

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- (5.3) Patients should be monitored closely for symptoms of active or

 Patients should be monitored closely for symptoms of active or could gastroinetismal (Gil bleeding, especially those at increased of the country of country of the country of ----- ADVERSE REACTIONS

Most common adverse reactions in clinical studies of donepezi hydrochloride are nausea, diarrhea, insomnia, vomiting, muscle cramps, fatique, and anorexia (6.1) To report SUSPECTED ADVERSE REACTIONS, contact

Edenbridge Pharmaceuticals, LLC, at Telepho 1-877-381-3336 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch

- ----- DRUG INTERACTIONS -----
- DRUG INTERACTIONS

 Cholinesterase inhibitors have the potential to interfere with the activity of anticholinergic medications (7.1)

 A synergistic effect may be expected with concomitant administration of succinylcholine, similar neuromuscular blocking agents, or cholinergic agoinsts (7.2)

-----USE IN SPECIFIC POPULATIONS ---Pregnancy: Based on animal data, may cause fetal harm (8.1)

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Donepezil hydrochloride tablets are indicated for the treatment of demonstrated in patients mild, moderate, and severe Alzheimer's disease.

mild, molerate, and severe Auzhemer a scale.

2 DOSAGE AND ADMINISTRATTS N

2.1 Dosing in Mild to Moderate Alzheimer's Disease
The recommended starting dosage of donepezil hydrochloride is 5 mg administred once per day in the evening, just prior to retiring. The maximum recommended dosage of donepezil hydrochloride in pleatest with mild to moderate Alzheimer's disease is 10 mg per day. A dosse of 10 mg should not be administrated until palents have been on a daily dose of 5 mg for 4 mg.

to 6 weeks. 2.2 Dosing in Moderate to Severe Alzheimer's Disease

2.2 Dusting in inductate to Severe Alzientine's Disease.

The recommended starting dosage of donepezil hydrochloride is 5 mg administered once per day in the evening, just prior to retiring. The maximum recommended dosage of donepezil hydrochloride in palients with moderate to severe Alzheimer's disease is 23 mg per day. A dose of 10 mg should are ut-service Azimeniers unissees less 2-mil gruing Arouse or unispation und be administrated until patients have been on a daily dose of 1g institution of 5 weeks. A dose of 23 mg por 4 day should not be administrated until patients have been on a delight obes of 10 mg for 4 been on a delight obes of 10 mg for a feet administrated until patients have been on a delight obes of 10 mg for a feet affect of the patients of the second patients of the patients of

2 DOGAGE EODING AND STRENGTHS

Donepezil hydrochloride is supplied as reddish, film-coated, round tablets containing 23 mg of donepezil hydrochloride. The strength, in mg (23), is

4 CONTRAINDICATIONS

Donepezil hydrochloride is contraindicated in patients v sensitivity to donepezil hydrochloride or to piperidine der ride is contraindicated in nationts with known huner.

5 WARNINGS AND PRECAUTIONS

5.1 Anesthesia Donepezi hydrochloride, as a cholinesterase inhibitor, is likely to exaggerate succinylcholine-type muscle relaxation during anesthesia.
5.2 Cardiovascular Conditions
Because of their pharmacological action, cholinesterase inhibitors may

because of men juntimationing at action, continesterates minimors may have vagotonic effects on the sinoatrial and attrioventricular nodes. This effect may manifest as bradycardia or heart block in patients both with and without known underlying cardiac conduction abnormalities. Syncopal episodes have been reported in association with the use of donepezil

pall epitorions rank other reported in association, which was been competed by the competed of nausea in the 23 mg group was markedly greater than in the patients who continued on 10 mg/day (11.8% vs. 3.4%, respectively), and the incidence committed on 10 migrady 11.5.9 s.3-9s, respectively), and the flactorities of vomiting in the 23 mg group was markedly greater than in the 10 mg group (9.2% vs. 2.5%, respectively). The percent of patients who discontinued treatment due to vomiting in the 23 mg group was markedly higher than in the 10 mg group (2.9% vs. 0.4%, respectively).

Although in most cases, these effects have been transient, sometimes last-ing one to three weeks, and have resolved during continued use of done-post hydrochroinet, patients should be observed closely at the initiation of \$4.00 pc. The continue of the continue of the continue of the continue of the \$4.00 pc. The continue of the co

The Tight Uller Disease and Git Bressmu
Through their primary action, robinstersase inhibitors may be expected to
increase gastric acid secretion due to increased robinergic activity. Therefree, patients should be monitored closely for symptoms of active or occuli
gastroinsteinal bleeding, especially those at increased risk for developing
ulcers, a.g., those with a history of ulcer disease or hote receiving concurrent nonsteroidal anti-inflammatory drugs (NSAIDs). Clinical studies of
donepzell hydrochinde in a dose of 5 migday to 10 migday have shown
The Company of 23 mg/day showed an increase, relative to 10 mg/day, in the incide peptic ulcer disease (0.4% vs. 0.2%) and gastrointestinal bleeding from any

Weight loss was reported as an adverse reaction in 4.7% of patients as-signed to denegacil hydrochloride in a dose of 23 middly compared to 2.5% of patients assigned to 10 mpiday. Compared to their baseled lengths, 8.4% of patients taking 23 mg/day were found to have a weight decrease of 2.7% by the end of the study, while 4.5% of patients taking 10 mpiday were found to have weight loss of 2.7% at the end of the study, 5.6 denitouriancy Conditions Alfriducyth not better weight in this of denegezil hydrochloride, cholino-flikings) into towered in clinical trials of denegezil hydrochloride, cholino-

mimetics may cause bladder outflow obstruction 5.7 Neurological Conditions: Seizures

Cholinomimetics are believed to have some potential to cause generalized convulsions. However, seizure activity also may be a manifestation of Alzheimer's disease. 5.8 Pulmonary Conditions

Because of their cholinomimetic actions, cholinesterase inhibitors should be prescribed with care to patients with a history of asthma or obstructive

6 ADVERSE REACTIONS

- 6 ADVERSE REACTIONS
 The following serious adverse reactions are described below and elsewhere in the labeling:
 Cardiovascular Conditions [see Warnings and Precautions (5.2)]
 Nausea and Vorniting [see Warnings and Precautions (5.3)]
 Peptic Ulere Disease and GI Bleeding [see Warnings and Precautions

- (5.4)] Weight Loss [see Warnings and Precautions (5.5)] Weight Loss [see Warnings and Precautions (5.6)] Neurological Conditions: Seizures [see Warnings and Precautions (5.7)] Pulmonary Conditions [see Warnings and Precautions (5.8)] 1. Clinical Tails Experience 6.1 Clinical Trials Experience
 Because clinical trials are conducted under widely varying conditions,

because clinical mass are comounced unlose winely varying commons, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

Donepezil hydrochloride has been administered to over 1,700 individuations.

Consignar injudicionative las over administrated to over 1 your nativous als during clinical trails worldwide. Approximately 1 200 of these patients have been treated for at least 3 months and more than 1,000 patients have been treated for at least 6 months. Controlled and uncontrolled trails in the United States included approximately 900 patients. In regards to the high-east dose of 10 mg/dist, his population includes 850 patients treated for 3 months, 475 patients treated for 6 months, and 116 patients treated for over 1 year. The range of patient exposure is from 1 to 1,244 by 1.

Mild to Moderate Alzheimer's Disease

Mild to Moderate Alzheimer's Disease Adverse Reactions Leading to Discontinuation The rates of discontinuation from controlled clinical trials of done pezil hydrochiorde due to adverse reactions for the donepezil hydrochiorde 5 mg/day heatment groups were comparable to those peril designation of the second of the second of the second of the continuation of palents who received "d day escalations from 5 mg/ day to 10 mg/day was higher at 13%. The most common adverse reactions leading to discontinuation, defined as those occurring in at least 2% of patients and at twice or more the sinderice seem in placelos patients, are shown in Table 1. Table 1. Most Common Adverse Rescritions Leading to Discontinuation in Patients with Mild to Moderate Latchiemer's latching the second of the s

Adverse Reaction		5 mg/day Donepezil Hydrochloride (n=350) %	10 mg/day Donepezil Hydrochloride (n=315) %
Nausea	1	1	3
Diarrhea	0	<1	3
Vomiting	<1	<1	2

and were comparable to those seen in natients on 5 mg/day

See Table 2 for a comparison of the most common adverse reactions following one and six week titration regimens.

Table 2. Compa Moderate Patie	rison of Ra nts Titrated	tes of Adve d to 10 mg/	erse Reaction day over 1 ar	nd 6 Weeks
	No titration		One week titration	Six week titration
Adverse Reaction	Placebo (n=315) %	5 mg/day (n=311) %	10 mg/day (n=315) %	10 mg/day (n=269) %
Nausea	6	5	19	6
Diarrhea	5	8	15	9
Insomnia	6	6	14	6
Fatigue	3	4	8	3
Vomiting	3	3	8	5
Muscle cramps	2	6	8	3
Anorexia	2	3	7	3

Table 3 lists adverse reactions that occurred in at least 2% of paients in pooled placedo-continued trials who received states 35.55 bezil hydrochloride 5 mg or 10 mg and for which the rate of occu ence was greater for patients treated with donepezil hydrochlorid than with placebo. In general, adverse reactions occurred more frequently in female patients and with advancing age.

Table 3. Adverse Reactions in Pooled Placebo-Controlled Clinical Trials in Mild to Moderate Alzheimer's Disease Adverse Reaction Placebo Donepezil Hydrochloride

	(n=355) %	(n=747) %
Percent of Patients with any Adverse Reaction	72	74
Nausea	6	11
Diarrhea	5	10
Headache	9	10
Insomnia	6	9
Pain, various locations	8	9
Dizziness	6	8
Accident	6	7
Muscle Cramps	2	6
Fatigue	3	5
Vomiting	3	5
Anorexia	2	4
Ecchymosis	3	4
Abnormal Dreams	0	3
Depression	<1	3
Weight Loss	1	3
Arthritis	1	2
Frequent Urination	1	2
Somnolence	<1	2
Syncope	1	2

Severe Alzheimer's Disease (Donepezil Hydrochloride 5 mg/day

Service To Activation S. Underset To Original To State Service To Service To

repezir hydrochloride due to adverse reactions for the donepezi hydrochloride patients were approximately 12% compared to 7% or placebo patients. The most common adverse reactions leading o discontinuation, defined as those occurring in at least 2% of do nepezil hydrochloride patients and at twice or more the incidence seen in placebo, were anorexia (2% vs. 1% placebo), nausea (2% vs. <1% placebo), diarrhea (2% vs. 0% placebo), and urinary tract

Most Common Adverse Reactions
The most common adverse reactions, defined as those occurring at requeup or at least 5% in patients receiving done pezil hydrochloride and att visic or more the placebor rate, are largely predict and attribution or more the placebor rate, are largely predict did did rether, anorstess, unefiling, nauses, and ecclymonis. These adverse reactions were often transient, resolving during continued did repeat play of the control of the properties of the control of the contro

Table 4. Adverse Reactions in Pooled Controlled Clinical Tri-

ils in Severe Alzheimer's Disease				
Body System/Adverse Reaction	Placebo (n=392) %	Donepezil Hy- drochloride (n=501) %		
Percent of Patients with any Adverse Reaction	73	81		
Accident	12	13		
nfection	9	11		
Diarrhea	4	10		
Anorexia	4	8		
/omiting	4	8		
Nausea	2	6		
nsomnia	4	5		
Ecchymosis	2	5		
leadache	3	4		
Hypertension	2	3		
Pain	2	3		
Back Pain	2	3		
czema	2	3		
Hallucinations	1	3		
Hostility	2	3		
ncrease in Creatine Phos- phokinase	1	3		
Vervousness	2	3		
ever	1	2		
Chest Pain	<1	2		
Confusion	1	2		
Dehydration	1	2		
Depression	1	2		
Dizziness	1	2		
Emotional Lability	1	2		
Hemorrhage	1	2		
- Hyperlipemia	<1	2		
Personality Disorder	1	2		
Somnolence	1	2		

Urinary Incontinence 2 Moderate to Severe Alzheimer's Disease (Donepezil Hydrochloride 23 mg/day)

23 mg/day)
Donepezil hydrochloride 23 mg/day has been administered to over 1300 individuals globally in clinical trials. Approximately 1050 of these patients have been intended for all east three normals and more range of patient exposure was from 1 to over 500 days. Adverse Reactions Leading to Discontinuation. The rate of discontinuation from a controlled clinical trial of done-parel hydrochlorides 23 mg/ddy due to adverse reactions was higher

(19%) than for the 10 mg/day treatment group (8%). The most common adverse reactions leading to discontinuation, defined as those occurring in at least 1% of patients and greater than those occurring with 10 mg/day are shown in Table 5.

Table 5. Most Common Adverse Reactions Leading to Discontinuation in Patients with Moderate to Severe Alzhei-

Adverse Reaction	23 mg/day Donepezil Hydrochloride (n=963) %	10 mg/day Donepezil Hydrochloride (n=471) %
Vomiting	3	0
Diarrhea	2	0
Nausea	2	0
Dizziness	1	0

The majority of discontinuations due to adverse reactions in the 23 mg group occurred during the first month of treatment.

Most Common Adverse Reactions with Donepezil Hydrochloride 23

mg/day
The most common adverse reactions, defined as those occurring

and anorexia. Table 6 lists adverse reactions that occurred in at least 2% of paients who received 23 mg/day of donepezil hydrochloride and at a higher frequency than those receiving 10 mg/day of donepezil hydrochloride in a controlled clinical trial that compared the two doses. In this study, there were no important differences in the type of adverse reactions in patients taking done pezil hydrochloride with

Table 6. Adverse Reactions in a Controlled Clinical Trial in Moderate to Severe Alzheimer's Disease

23 mg/day 10 mg/day

Adverse Reaction	Donepezil Hydrochloride (n=963) %	Donepezil Hydrochloride (n=471) %
Percent of Patients with any Adverse Reaction	74	64
Nausea	12	3
Vomiting	9	3
Diarrhea	8	5
Anorexia	5	2
Dizziness	5	3
Weight Loss	5	3
Headache	4	3
Insomnia	3	2
Urinary Incontinence	3	1
Asthenia	2	1
Contusion	2	0
Fatigue	2	1
Somnolence	2	1

(Softmorence)

A: 2 Postmarketing Experience
The following adverse reactions have been identified during post-approval use of donepezil hydrochloride. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establements.

is not always possible to reliably estimate their frequency or estab-lish a causal relationship to drug exposure. Abdominal pain, agitation, aggression, cholecystitis, confusion, convulsions, hallocinations, heart block (all types), hemolytic ane-mia, hepatitis, hyponatremia, neuroleptic malignant syndrome, pancreatitis, rash, rhabdomyolysis, QTc prolongation, and torsade de pointes.

7 DRUG INTERACTIONS

7.1 Use with Anticholinergics
Because of their mechanism of action, cholinesterase inhibitors have the potential to interfere with the activity of anticholinergic

medications. 7.2 Use with Cholinomimetics and Other Cholinesterase Inhib-

itors A synergistic effect may be expected when cholinesterase inhibi-A synergistic effect may be expected when cholinestease limitor tors are given concurrently with succinylcholine, similar neuromus cular blocking agents or cholinergic agonists such as bethanechol

8 LISE IN SPECIFIC POPUL ATIONS

8.1 Pregnancy
Risk Summary
There are no adequate data on the developmental risks associated with the use of donepezil hydrochloride in pregnant women In animal studies, developmental toxicity was not observed when donepezil was administered to pregnant rats and rabbits during organogenesis, but administration to rats during the latter part of organogenesis, but administration or ast forling rine trater Platrium pregnancy and fromoghout lactation resulted in increased stillbirths and Data, in the U.S. general popular, the estimated background pregnancies are 2% to 4% and 15% to 20%, respectively. The back-ground risks of major birth defects and miscarriage for the indicated population are unknown.

nal Data

Animal Data
Oral administration of donepezil to pregnant rats and rabbits during the period of organogenesis did not produce any teratogenic effects at doses up to 16 mg/kg/day (approximately 6 times the maximum recommended human dose [MRHD] of 23 mg/day on a mg/m² basis) and 10 mg/kg/day (approximately 7 times the MRHD on a mg/m² basis), respectively. Oral administration of donepezil (I, and mg/m² basis), respectively. Oral administration of donepezil (I, and mg/m² basis), respectively. Oral administration of donepezil (I, and mg/m² basis), respectively. a mgm cassis, respectively. Oral administration of donepezil (1, 3, 10 mg/kg/day) to rats during late gestation and throughout lactation to weaning produced an increase in stillbirths and reduced orispring survival through postpartum day 4 at the highest dose. The no-effect dose of 3 mg/kg/day is approximately equal to the MRHO on a mg/m basis.

8.2 Lactation

Pilic Summary

There are no data on the presence of donepezil or its metabolites in human milk, the effects on the breastfed infant, or on milk projection.

duction. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for donepezi hydrochloride and any potential adverse effects on the breastfed infant from donepezi hydrochloride or from the underlying materna

established.

8.5 Geriafric Use
Alzheimer's disease is a disorder occurring primarily in individuals over 55 years of age. The mean age of patients enrolled in the clinical studies with dooppeal hydrochloride was 73 years, 85% patients were at or above the age of 75. The efficacy and safety data presented in the clinical trials section were obtained from these patients. There were no clinical significant differences in most adverse reactions reported by patient groups ≥ 65 years old and < 65 years old.

8.6 Lower Weight Individuals

8.8 Lower Weight Individuals in the controlled clinical trial, among patients in the donepezil hydrochoride 23 mg treatment group, those patients weighing < 55 kg reported more nausea, vomiting, and decreased weight than patients weighing 55 kg or more. There were more withdrawals due to adverse reactions as well. This finding may be related to higher plasma exposure associated with lower weight.

10 OVERDOSAGE

Because strategies for the management of overdose are continu-ally evolving, it is advisable to contact a Poison Control Center to determine the latest recommendations for the management of an

determine the latest recommendations for the management of an overdose of any draw of overdose, general supportive measures should be utilized. Overdosege with cholimestersase limitations can result in ton, sweating, bradycardia, hypotension, respiratory depression, respiratory depression, respiratory depression, respiratory depression, and may result in death if respiratory muscles are involved. Teritary anticholimencies such as attorpine may be used as an anti-dote for donepezal hydrochloride overdosage, intravenous attorpine sultate tritated to effect is recommended an initial dose of 1,010 2.0

mg IV with subsequent doses based upon clinical response. Atypi ing IV with subsequent doses based upon clinical response. Atypical responses in blood pressure and heart rate have been reported cal responses in blood pressure and heart rate have been reported anticholinergies such as glycopyrolate. It is not known whether donepezil hydrochinde and/or is netabolities can be removed by dialysis, phemodialysis, pertoneal dialysis, or hemofilitation), or heart properties of the properties

11 DESCRIPTION

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Donepail hydrochloride is a reversible inhibitor of the enzyme acetylcholinesterase, known chemically as (±)-2, 3-dihydro-5, 6-dimethoxy-2-(11-(phenylmethyl)-4-piperidny)|lenthyl]-11-inden-1-one hydrochloride. Donepail hydrochloride is commonly referred to in the pharmacological fleatural as EZOSI. It has an empirical formula of C₂-hydrochloride is notecular weight of its feely souther inchroniones. Southern weight of its feely souther inchroniones, souther in water and in glacial acettic acid, slightly soluble in ethanol and in acetonitrile and practically insinhib in ethic hazeate and in hexage.

Donepezil hydrochloride is available for oral administration in film-coated tablets containing 23 mg of donepezil hydrochloride. Inactive ingredients are carnatub awax, colloidal silicon dioxide, hydroxypropyl cellulose, hydroxypropyl methylcellulose, lactose monohydrate, magnesium stearate, microcrystalline oblicose, povidone. The film coating contains red and yellow sino oxidio, bydroxypropyl cellulose, povidone. The film coating contains red and yellow arounds hydroxypropyl contains the contains or the coate of any oral contains or the coate of the coate propyl methylcellulose, polysorbate, titanium dioxide and triacetin USP Dissolution Test pending.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action
Current theories on the pathogenesis of the cognitive signs and symptoms of Alzheimer's disease attribute some of them to a defi-

symptoms of Alzheimer's disease attribute some of them to a defi-ciency of choliencine neutralamshists over it is therapeutic effect by enhancing cholingie is postulated to ever it is therapeutic effect by enhancing cholingie; burston. This is accomplished by increas-tive of the properties of the properties of the properties of the properties of of its hydrolysis by acetylcholinesterase. There is no evidence that one parameter is the course of the underlying dementing process. 12.3 Pharmacokinetics Pharmacokinetics of domepical are linear over a dose range of 1-10 mg given once daily. The rate and extent of absorption of donepezal prochoridate balbes are not influenced by lood. In the properties of the properties of the properties of the properties of concentrations measured in patients with Alzheimer's disease, following or all dosing, peak plasma concentration is achieved for

following oral dosing, peak plasma concentration is achieved for donepezil hydrochloride 23 mg tablets in approximately 8 hours, compared with 3 hours for donepezil hydrochloride 10 mg tablets. Peak plasma concentrations were about 2-fold higher for donepezil hydrochloride 23 mg tablets than donepezil hydrochloride 10 mg

tablets.
The elimination half life of donepezil is about 70 hours, and the The elimination half life of donepezi is about 70 hours, and the mean apparent plasma clearance (CIF) is 0.13 × 0.19 Linhing, mean apparent plasma clearance (CIF) is 0.13 × 0.19 Linhing, in plasma by 4.7 fold, and steady state is reached within 15 days in plasma by 4.7 fold, and steady state is reached within 15 days. The steady state volume of distribution is 12 *16 LiN₂. Donepezi is approximately 96% bound to human plasma proteins, mainly to albumins (about 75%) and plabn 1 - acid glycoprotein (about 21%) over the concentration range of 21-000 ng/mL. Donepezi is both excreted in the uniter intact and extensively me-Donepezi is both excreted in the uniter intact and extensively me-

tabolized to four major metabolites, two of which are known to be active, and a number of minor metabolites, not all of which have been identified. Donepezil is metabolized by CYP 450 isoenzymes been identified. Donepezil is metabolized by CVP 450 iscenzymes 258 and 34A and undergoes glucuroindation. Following administration of "C-tabeled donepezil, plasma radioactivity, expressed as a percent of the administeration of way present primarily as infact donepezil (25%) and as 60-desmethyl donepezil (17%), which has a percent of the administeration dose, way present primarily as infact donepezil (25%) and as 60-desmethyl donepezil (17%), which has wire and was found in plasma at convert of a bout 20% of donepezil. Approximately 57% and 15% of the total radioactivity was recovered in unine and feces, respectively, over a period of 10 days, while 25% remained unrecovered, with about 17% of the donepezil dose recovered in the unine su unchanged dury. Examination of the effect of CVP2DG genotype in Alzheimer's patients and the support of the desired of CVP2DG genotype in Alzheimer's patients as submarus. When comment of the effect of CVP2DG genotype in Alzheimer's patients as submarus. When comment of the effect of CVP2DG genotype in Alzheimer's patients. subgroups. When compared to the extensive metabolizers, poo metabolizers had a 31.5% slower clearance and ultra-rapid metab olizers had a 24% faster clearance.

Hepatic Disease. In a study of 10 patients with stable alcoholic cirrhosis, the clearance of donepezil hydrochloride was decreased by 20% relative to 10 healthy age- and sex-matched subjects.

Renal Disease.

In a study of 11 patients with moderate to severe renal impairment (Cl₂ < 18 mL/min/1.73 m²) the clearance of donepezil hydrochloride did not differ from 11 age- and sex-matched healthy subjects.

Age No formal pharmacokinetic study was conducted to examine No formal pharmacokinetic study was conducted to examine age-related differences in the pharmacokinetics of donepezil hy-drochloride tablets. Population pharmacokinetic analysis suggest-ed that the clearance of donepezil in patients decreases with in-creasing age. When compared with 65-year old subjects, 90-year old subjects have a 17% decrease in clearance, while 40-year old subjects have a 17% decrease in clearance, while 40-year old subjects have a 33% increase in clearance. The effect of age on donepezil clearance may not be clinically significant. Gender and Race No specific pharmacokinetic study was conducted to investigate

No specific pharmacoxinetic study was conducted us investigated the effects of gender and race on the disposition of dinepizal hydrochloride. However, retrospective pharmacokinetic analysis and population pharmacokinetic analysis of pleams donepizal concentrations measured in patients with Alzheimer's disease indicates that gender and race (Japanese and Caucasians) did not affect the clearance of donepizal hydrochloride to an important degree.

Body Weight
There was a relationship noted between body weight and clearance. Over the range of body weight from 50 kg to 110 kg, clearance increased from 7.77 L/h to 14.04 L/h, with a value of 10 L/hr for 70

Drug Interactions Effect of Donepezii Hydrochloride on the Metabolism of Other Drugs No in vivo clinical trials have investigated the effect of donepezil hydrochloride on the clearance of drugs metabolized by CVP 3A4 (e.g., cisapride, terfenadine) or by CVP 2D6 (e.g., imipramine). However, in vitro studies show a low rate of binding to these en-





zymes (mean K, about 50-130 μ M), that, given the therapeutic plasma concentrations of donepezil (164 nM), indicates little likelihood of interference. Based on in vitro studies, donepezil shows little or no evidence of direct inhibition of CYP2B6, CYP2C8, and CYP2C19 at

evidence of direct inhibition of CYP2B6, CYP2C3, and CYP2C19 at Cincilarly relevant concernations, and potential for exymen induction is not known. Formal pharmacokinetic studies evaluated the potential of donepact liprochoridate for interaction with methylline, ci-mellionia, warfarin, digoxin, and keloconazola. No effects of donepact in the concernation of Compact Microchoridae Keloconazola and quindries, strong inhibitors of CYP450 3A and 2D6, respectively, inhibit donepact metabolism in vitro. Whether there is a serious concernation of the concernation of clinical effect of quinidine is not known. Population pharmacokin analysis showed that in the presence of concomitant CYP2D6 inhibitors donepezil AUC was increased by approximately 17% to 20% in Alzheimer's disease patients taking donepezil hydrochloride 10 and 23 mg. This represented an average effect of weak, moderate, and strong CYP2D6 inhibitors. In a 7-day crossover study in 18 healthy volunteers, ketoconazole (200 mg q.d.) increased mean donepezil (5 mg q.d.) concentrations (AUC_{0.24} and C_{max}) by 36%. The clinical rele-

mg q.d.) concentrations (AUC_{b,s} and C_{m,s}) by 69%. The clinical rele-vance of this increase in concentration is unknown. The characteristic control of the first purpose of t

Drugs Highly Bound to Plasma Proteins

Drugs Highly Bound to Plasma Proteins Drug displacement studies have been performed in wire between programment studies have been performed in wire between sish as from the protein studies of the protein digotor, and warfarin Donepezil hydrochloride at concentrations of 0.3-10 micrograms/mL did not affect the binding of furosemide (5 mi-crograms/mL), digotin (2 ng/mL), and warfarin (3 micrograms/mL) to human albumin. Similarly, the binding of donepezil hydrochloride to human albumin was not affected by furosemide, digoxin and warfarin.

13 NONCLINICAL TOXICOLOGY

13 NONCLNICAL TOXICOLOGY
13.1 Cardinogenesis, Mutagenesis, Impairment of Fertility
13.1 Cardinogenesis, Mutagenesis, Impairment of Fertility
13.1 Cardinogenesis, Mutagenesis, Stabiande III and Seweek
carcinogenicity study of donepezic onducted in mice at oral doses
up to 180 mg/kg/day (approximately 40 times the maximum recommended human dose [MRHD] of 22 mg/day on a mg/m² basis, or in a
104-week carcinogenicity study in rats at oral doses up to 30 mg/kg/
day (approximately 13 times the MRHD on a mg/m² basis), si in vidro
bacterial reverse mutation, in vidro mouse invigronucleus.
Donepezil had no effect on fertility in rats at oral doses up to 10 mg/
kg/day (approximately 4 times the MRHD on a mg/m² basis) when
administered to makes and females prior to and during mating and
13.2 Animal Toxicology and for Pharmacology
In an acute dose neutroscivity study in female rats, oral administration of donepezil and memantien in combination resulted inicreased
incidence, severity, and distribution of neurodegeneration compared
with memanties alone. The no-effect levels of the combination were

with memantine alone. The no-effect levels of the combination were associated with clinically relevant plasma donepezil and memantine

The relevance of this finding to humans is unknown

14 CLINICAL STUDIES 14.1 Mild to Moderate Alzheimer's Disease

14.1 Milk 1o Moderate Athelmer's Disease
The effectiveness of denpezel hytrochloride as a treatment for mild to moderate Atzheimer's disease is demonstrated by the results of two randomized, doubte-lind, placebo-controlled clinical investigations in patients with Atzheimer's disease (diagnosed by NINCDS and DSM III+Criteria, Min-Mental State Examination : 2 load oz 52 and Clinical High Cartinos and Cartin Accordingly, whether or not to employ a dose of 10 mg is a matter of

Accordingly, whenter or hot to employ a dose or 10 mg is a matter or prescriber and patient preference.

Study Outcome Measures
in each study, the effectiveness of treatment with donepezil hydrochloride was evaluated using a dual outcome assessment strategy.

The ability of donepezil hydrochloride to improve cognitive performance. The ability of donepezi hydrochloride to improve cognitive performance was assessed with the cognitive subcasie of the Alzbeimer's Disease Assessment Scale (ADAS-cog), a multi-tiem instrument that office and the company of the ADAS-cog octing range of the ADAS-cog of approximately 50 points, with a range from 4 to

61 Experience based on longitudinal studies of ambulatory nations with mild to moderate Alzheimer's disease suggest that scores of the ADAS-cog increase (worsen) by 6 - 12 points per year. Howe er, smaller changes may be seen in patients with very mild or very advanced disease since the ADAS-cog is not uniformly sensitive to change over the course of the disease. The annualized rate of decline

change over the course of the disease. The annualized rate of decline in the placebo patients participating in denopsell phytochoridre that is the placebo patients participating in denopsell phytochoridre trains the placebo patient of the placebo patients and patients was assessed using a Clinical sinterview-based impression of Change that required the use of caregiver information, the CIBIC-bus. The CIBIC-bus is not a sight instituted and is not a standard-drugs have used a variety of CIBIC formats, each different in terms of depth and structure.

structure. ults from a CIBIC-plus reflect clinical experience from As such, results from a CIBIC-plus reflect clinical experience from the trial or trials in which it was used and cannot be compared directly with the results of CIBIC-plus evaluations from other clinical trials. The CIBIC-plus used in donepezil hydrochloride trials was a semi-structured instrument that was intended to examine four major areas of patient function: General, Cognitive, Behavioral, and Activi-ties of Daily Living. It represents the assessment of a skilled clinician tilles of Dally LVIffg, it represents the assessment of a same camerant based upon his/her observations at an interview with the patient, in combination with information supplied by a caregiver familiar with the behavior of the patient over the interval rated. The CBIC-plus is scored as a seven-point categorical rating, ranging from a score of 1,

indicating "markedly improved," to a score of 4, indicating "no change" to a score of 7, indicating "markedly worse." The CIBIC-plus has not been systematically compared directly to assessments not using information from caregivers (CIBIC) or other global methods.

Thirty-Week Study In a study of 30 weeks duration, 473 patients were randomized to In a study of 30 weeks duration, 473 patients were randomized to receive single daily does of placebox, 5 mg/day or 10 mg/day of donepazi hydrochtoride. The 30-week study was divided into a 24-week double-blind active treatment phase blowed by a 6-week single-blind placebo washout period. The study was designed to compare 5 mg/day or 10 mg/day fixed doesed of donepaze hydrochtoride to placebo. However, to reduce the likelihood of cholinergic effects, the 10 mg/dq treatment was started following an initial 7-dgy terefament with 5 mg/day doses.

Effects on the ADAS-cog
Figure 1 illustrates the time course for the change from baseline in

ADAS-cog scores for all three dose groups over the 30 weeks of the study. After 24 weeks of treatment, the mean differences in the ADAS-cog change scores for donepezil hydrochloride treated patients com-

cog change scores for donepezil hydrochloride treated patients compared to the patients on placebo were 2 alm all 3, plorits for the 5 mg/day and 10 mg/day treatments, respectively. These differences were statistically significant. While the treatment effect size may appear to be slightly greater for the 10 mg/day treatment, there was no statistically significant difference between the two active treatments; or both the difference between the two active treatments; or both the donepezil hydrochloride treatment groups were indistinguishable from those patients who had neceived only placebo for 30 weeks. This suggests that the beneficial effects of donepezil hydrochloride abate over 6 weeks following discontinuation of treatment and do not represent a change in the underlying disease. There was no evidence of a rebound effect 6 weeks after adhrup discontinuation of therapy. Figure 1. Time-course of the Change from Baseline in ADAS-cog Score for Tatenta Completing 24 Weeks of Treatment.

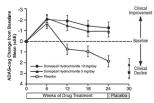
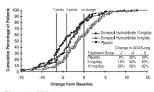


Figure 2 illustrates the cumulative percentages of patients from each of the three treatment groups who had attained the measure of improvement in ADAS-cog score shown on the X axis. Three change scores (7-point and 4-point reductions from baseline or no change in score) have been identified for illustrative purposes, and the percent of patients in each group achieving that result is shown in the inset

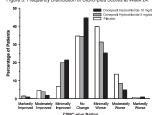
The curves demonstrate that both patients assigned to placebo and donepazi hydrochloride have a wide range of responses, but that the active treatment groups are more likely to show greater improvements. A curve for an effective treatment would be shifted to the left of the curve for placebo, while an ineffective or deleterous treatment would be shifted to would be shifted to the curve for an effective or shifted to the right of the curve for the curve for

placebo.
Figure 2. Cumulative Percentage of Patients Completing 24 Weeks of Double-blind Treatment with Specified Changes from Baseline ADAS-cog Scores. The Percentages of Randomized Patients who Completed the Study were: Placebo 80%, 5 mg/day 85%, and 10 mg/day 68%.



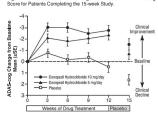
Effects on the CIBIC-plus Figure 3 is a histogram of the frequency distribution of CIBIC-plus Figure 2 is a histogram of the frequency distribution of ISBUIL-DIUS scores attained by patients assigned to each of the three treatment groups who completed 24 weeks of treatment. The mean drug-placebod differences for these groups of patients were 0.35 points and 0.39 points for 5 mg/day and 10 mg/day of donepezil hydrochloride, respectively. These differences were statistically significant. There was no statistically significant difference between the two active

Figure 3. Frequency Distribution of CIBIC-plus Scores at Week 24.



Fifteen-Week Study
In a study of 15 weeks duration, patients were randomized to receive in a study of 19 weeks unration, patients were failubilized to receive single daily doses of placebo or either 5 mg/day or 10 mg/day of do-nepezil hydrochloride for 12 weeks, followed by a 3-week placebo washout period. As in the 30-week study, to avoid acute cholinergic effects, the 10 mg/day treatment followed an initial 7-day treatment with 5 mg/day descen

with 5 might goods and a minute of a minut bared to the patients on pieceso were 2.7 and 3.0 points each, for the 5 and 10 mg/day donepezil hydrochloride treatment groups, respectively. These differences were statistically significant. The effect size for the 10 mg/day group may appear to be slightly larger than that for 5 mg/day. However, the differences between active treatments were Figure 4. Time-course of the Change from Baseline in ADAS-cog



Following 3 weeks of placebo wearbout, scores on the ADAS-cog for both the donepezil hydro-chloride treatment groups increased, indicating that discontinuation of donepezil hydro-chloride resided in a loss of its treatment effect. The duration of this placebo wearbout period was not sufficient to characterize the rate of loss of the treatment effects associated with the use of donepezil hydro-chloride abate within the weeks of treatment discontinuation. Figure 5 illustrates the cumulative percentages of patients from each of the three treatment groups who attained the measure of Improvement in ADAS-cog score shown on the X axis. The same three changes come for the provision of the company of the compan

change in score) as selected for the 30-week study have been used for this illustration. The percentages of patients achieving those re sults are shown in the inset table.

suits are shown in the inset table.

As observed in the 30-week study, the curves demonstrate that patients assigned to either placebo or to donepezil hydrochloride have a wide range of responses, but that the donepezil hydrochloride treated patients are more likely to show greater improvements in cognitive

performance. Figure 5. Cumulative Percentage of Patients with Specified Changes Figure 5. Cumulative Percentage of Patients with Specified Changes from Baseline ADAS-cog Scores. The Percentages of Randomized Patients Within Each Treatment Group Who Completed the Study Were: Placebo 93%, 5 mg/day 90%, and 10 mg/day 82%.

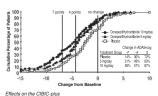
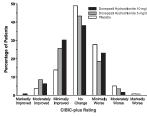


Figure 6 is a histogram of the frequency distribution of CIBIC-plus rigute of is a insignant of the requirery userstoom to Lear-puis socres attained by patients assigned to each of the three treatment of the society of the s differences were statistically significant.
Figure 6. Frequency Distribution of CIBIC-plus Scores at Week 12



In both studies, patient age, sex, and race were not found to predict the clinical outcome of donepezil hydrochloride treatment.

the clinical outcome of donepezil hydrochloride treatment.

14.2 Moderate to Severe Alzheimer's Disease
The effectiveness of donepezil hydrochloride in the treatment of patients with moderate to severe Alzheimer's disease was established. in studies employing doses of 10 mg/day and 23 mg/day. Results of a compared donepezil hydrochloride 23 mg once daily to 10 mg once daily suggest that a 23 mg dose of donepezil hydrochloride provided

additional benefit. Swedish 6 Month Study (10 mg/day)

Swedish 8 Month Study (1 um göray) mich es a treatment for same valenchement of the deficience of diseapeal injudished by the results of a randomized, double-tilind, placebo-controlled clinical study conducted in swedien (8 month study) in patients with probable or possible Arbeit-mar's diseased degroused by NINCIDS-ADRIDA and DSM-1V criteria, mar's diseased degroused by NINCIDS-ADRIDA and DSM-1V criteria, mar's diseased degroused and placebol of the degroused degroused arbeit market degroused arbeit mich service arbeit micro degroused arbeit mi treatment was initiated at 5 mg once daily for 28 days and then in-creased to 10 mg once daily. At the end of the 6 month treatment period, 90.5% of the donepezil hydrochloride treated patients were everying the 10 mg/day dose. The mean age of patients was 84.9 years, with a range of 59 to 99. Approximately 77% of patients were women, and 23% were men. Almost all patients were Caucasian. Probable Alzheimer's disease was diagnosed in the majority of the patients (83.6% of donepezil hydrochloride treated patients and 84.2% of pla

cebo treated patients). Study Outcome Measures
The effectiveness of treatment with donepezil hydrochloride was determined using a dual outcome assessment strategy that evaluated
cognitive function using an instrument designed for more impaired paservices of the study of the study of the study of the study aboved that patients on donepezil hydrochloride experienced
significant improvement on both measures compared to placebo.
The ability of donepezil hydrochloride to improve cognitive performance was assessed with the Severel Impairment Eattery (SIS). The
SIS, a multi-time instrument, has been validated for the evaluation of
SIS evaluates as incline signeds of cognitive performance, including
elements of memory, language, orientation, attention, praxis, visuoelements of memory, language, orientation, attention, praxis, visuoelements of memory, language, orientation, attention, praxis, visuo-spatial ability, construction, and social interaction. The SIB scoring range is from 0 to 100, with lower scores indicating greater cognitive

range is from 0 to 100, with lower scores indicating greater cognitive impairment.

Management was assessed using the Modified Atherimer's Disease Cooperative Study Activities of Daily Luning Inventory for Severe Attriemer's Disease (ADCS-ADL-severe) The ADCS-ADL-severe is derived from the Atherimer's Disease Cooperative Study Activities of Daily Luning Inventory, which is considerable to the Company of the Atherimer's Disease Cooperative Study Activities of Daily Luning Inventory, which is a considerable of Dailor Luning Company of the Atheritation of the Atheritation of Dailor Luning Company of the Atheritation of the Atheritation of Dailor Luning Company of the Atheritation of the Ath tioning of the patient. Effects on the SIB

Figure 7 shows the time course for the change from baseline in SIB core for the two treatment groups over the 6 months of the study. At months of treatment, the mean difference in the SIB change scores for donepezil hydrochloride treated patients compared to patients on placebo was 5.9 points. Donepezil hydrochloride treatment was statistically significantly superior to placebo.
Figure 7. Time Course of the Change from Baseline in SIB Score for Patients Completing 6 Months of Treatment.

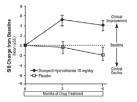


Figure 8 illustrates the cumulative percentages of patients from each of the two treatment groups who attained the measure of improvement in SIB score shown on the X-axis. While patients assigned both to donepezil hydrochloride and to placebo have a wide range of responses, the curves show that the donepezil hydrochloride group is sponses, the curves show that the conepezil hypercollonde group is more likely to show a greater improvement in cognitive performance. Figure 8. Cumulative Percentage of Patients Completing 6 Months of Double-blind Treatment with Particular Changes from Baseline in SIB Scores.

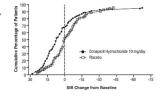
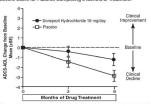


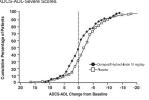
Figure 9. Time Course of the Change from Baseline in ADCS-ADL-Severe Score for Patients Completing 6 Months of Treatment.



Effects on the ADCS-ADL-severe

Effects on the ADCS-ADL severe Figure 9 illustrates the time occurse for the change from baseline in ADCS-ADL-severe scores for patients in the two treatment groups over the 8 months of the study. After 6 months of treatment, the mean difference in the ADCS-ADL-severe change scores for donepozil hy-points. Donepozil hydrochloride breatment was statistically signifi-cantly superior to placebo. Figure 10 shows the cumulative percentages of patients from each treatment group with specified changes from baseline ADCS-ADL-sev-erand placebo have a wide range of responses, the curve demonstrate that the donepozil hydrochloride group is more likely to show a smaller decline or an improvement.

uecline or an improvement.
Figure 10. Cumulative Percentage of Patients Completing 6 Months of Double-blind Treatment with Particular Changes from Baseline in ADCS-ADL-Severe Scores.



Japanese 24-Week Study (10 mg/day) In a study of 24 weeks duration conducted in Japan, 325 patients with severe Altheimer's disease were reardomized to doses of 5 mpiday or 10 mpiday or 10 mpiday or 20 mpiday a maximilar for weeks. Not intended and only eight (249) patients completed the study, with similar proportions of patients completing the study in each treatment group. The primary efficacy measures for this study were the SIB and CIBIC-plus.

At 24 weeks of treatment, statistically significant treatment differences.

es were observed between the 10 mg/day dose of donepezil and pla-cebo on both the SIB and CIBIC-plus. The 5 mg/day dose of donepezil showed a statistically significant superiority to placebo on the SIB, but

showed a statistically significant superiority to placebo on the SIE, but not not the CIBC-plus.

Study of 23 mg/day

The effectiveness of convex distributions of the state o ease were randomized to 23 mg/day or 10 mg/day. The mean age of patients was 73.8 years, with a range of 47 to 90. Approximately 63% of patients were women, and 37% were men. Approximately 36% of the patients were taking memantine throughout the study.

the patients were taking memantine throughout the study. Study Outcome Measures

The effectiveness of treatment with 22 migday was determined using a dual outcome assessment strategy that evaluated cognitive function dual outcome assessments trategy that evaluated cognitive function through caregiver-fated assessment.

Function through caregiver-fated assessment in the study of The ability of 28 migday to produce an overall clinical effect was assessed using a Clinician's Interview-Based Impression of Change that sessed using a Clinician's Interview-Based Impression of Change that CIBIC-plus used in the trial was a semi-structured instrument that carmines four major areas of patient function: General Cognitive, Be-havioral, and Activities of Daily Living. It represents the assessment of a skilled chinican based upon hisfer observations at an interview with the patient, in combination with information supplied by a care-with the patient, in combination with information supplied by a care-with the complex of the comple

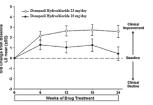
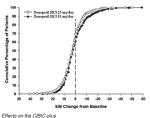
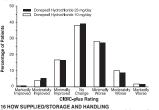


Figure 12 illustrates the cumulative percentages of patients from each of the two treatment groups who attained the measure of improvement in SIB score shown on the X-axis. While patients assigned both to 23 mg/day and to 10 mg/day have a wide range of responses, the curves show that the 23 mg-group is more likely to show a greater improvement in cognitive performance. When such curves are shifted to the left, this indicates a greater percentage of patients responding to treatment on the SIB.

Figure 12. Cumulative Percentage of Patients Completing 24 Weeks of Double-blind Treatment with Specified Changes from Baseline SIB Scores.



Effects on the CIBIC-plus Figure 13 is a histogram of the frequency distribution of CIBIC-plus scores attained by patients at the end of 24 weeks of treatment. The mean difference between the 23 mylday and 10 mylday treatment groups was 0.06 units. This difference was not statistically significant. Figure 13. Frequency Distribution of CIBIC-plus Scores at Week 24.



Supplied as film-coated, round labels containing 23 mg of donepezil hydrochloride. The 23 mg tablets are reddish in color. The strength, in mg (23), is debosed on one side.

Bottles of 30 (NDC# 42799-954-01)

Bottles of 90 (NDC# 42799-954-02)

Storage
Store at 20° - 25°C (68° - 77°F), excursions permitted to 15° - 30°C (59° - 86°F) [See USP Controlled Room Temperature].

17 PATIENT COUNSELING INFORMATION dvise the patient to read the FDA-approved patient labeling (Patient

rmation). ruct patients and caregivers to take donepezil hydrochloride tab-Instruct patients and caregivers to take donepezil hydrochloride tab-lets only once per day, as prescribed.

Instruct patients and caregivers that donepezil hydrochloride tablets can be taken with or without food. Donepezil hydrochloride 23 mg tablets should be swallowed whole without the tablets being split,

crushed or chewed.

Advise patients and caregivers that donepezil hydrochloride may cause nausea, diarrhea, insomnia, vomiting, muscle cramps, fatique and decreased appetite. Advise patients to notify their healthcare provider if they are pregnant

or plan to become pregnant.

Manufactured for: Edenbridge Pharmaceuticals, LLC DBA Dexcel Pharma USA Parsippany, NJ 07054

crushed or chewed

Manufactured by: Dexcel Pharma Technologies Ltd.,