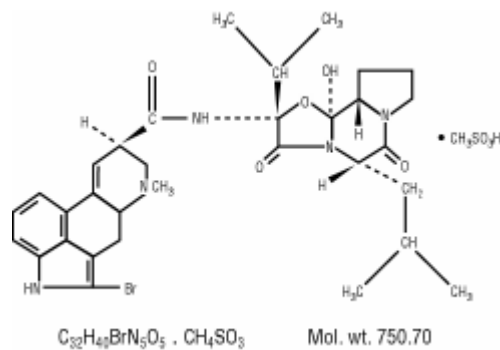


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89009903**PARLODEL[®]****SnapTabs[®]****(bromocriptine mesylate) tablets, USP**
(bromocriptine mesylate) capsules, USP**Rx only****DESCRIPTION**

Parlodel[®] (bromocriptine mesylate) is an ergot derivative with potent dopamine receptor agonist activity. Each Parlodel[®] (bromocriptine mesylate) SnapTabs[®] tablet for oral administration contains 2½ mg and each capsule contains 5 mg bromocriptine (as the mesylate). Bromocriptine mesylate is chemically designated as Ergotaman-3',6',18-trione, 2-bromo-12'-hydroxy-2'-(1-methylethyl)-5'-(2-methylpropyl)-, (5'α)-mono-methanesulfonate (salt).

The structural formula is:

**2½ mg SnapTabs[®]**

Active Ingredient: bromocriptine mesylate, USP

Inactive Ingredients: colloidal silicon dioxide, lactose, magnesium stearate, povidone, starch, and another ingredient

5 mg Capsules

Active Ingredient: bromocriptine mesylate, USP

Inactive Ingredients: colloidal silicon dioxide, gelatin, lactose, magnesium stearate, red iron oxide, silicon dioxide, sodium lauryl sulfate, starch, titanium dioxide, yellow iron oxide, and another ingredient

CLINICAL PHARMACOLOGY

Parlodel[®] (bromocriptine mesylate) is a dopamine receptor agonist, which activates post-synaptic dopamine receptors. The dopaminergic neurons in the tuberoinfundibular process modulate the secretion of prolactin from the anterior pituitary by secreting a prolactin inhibitory factor (thought to be dopamine); in the corpus striatum the dopaminergic neurons are involved in the control of motor function. Clinically, Parlodel significantly reduces plasma levels of prolactin in patients with physiologically elevated prolactin as well as in patients with hyperprolactinemia. The inhibition of physiological lactation as well as galactorrhea in pathological hyperprolactinemic states is obtained at dose levels that do not affect secretion of other tropic hormones from the anterior pituitary. Experiments have demonstrated that bromocriptine induces long lasting stereotyped behavior in rodents and turning behavior in rats having unilateral lesions in the substantia nigra. These actions, characteristic of those produced by dopamine, are inhibited by dopamine antagonists and suggest a direct action of bromocriptine on striatal dopamine receptors.

Bromocriptine mesylate is a nonhormonal, nonestrogenic agent that inhibits the secretion of prolactin in humans, with little or no effect on other pituitary hormones, except in patients with acromegaly, where it lowers elevated blood levels of growth hormone in the majority of patients.

In about 75% of cases of amenorrhea and galactorrhea, Parlodel therapy suppresses the galactorrhea completely, or almost completely, and reinitiates normal ovulatory menstrual cycles.

Menses are usually reinitiated prior to complete suppression of galactorrhea; the time for this on average is 6-8 weeks. However, some patients respond within a few days, and others may take up to 8 months.

Galactorrhea may take longer to control depending on the degree of stimulation of the mammary tissue prior to therapy. At least a 75% reduction in secretion is usually observed after 8-12 weeks. Some patients may fail to respond even after 12 months of therapy.

In many acromegalic patients, Parlodel produces a prompt and sustained reduction in circulating levels of serum growth hormone.

Bromocriptine mesylate produces its therapeutic effect in the treatment of Parkinson's disease, a clinical condition characterized by a progressive deficiency in dopamine synthesis in the substantia nigra, by directly stimulating the dopamine receptors in the corpus striatum. In contrast, levodopa exerts its therapeutic effect only after conversion to dopamine by the neurons of the substantia nigra, which are known to be numerically diminished in this patient population.

Pharmacokinetics

The pharmacokinetics and metabolism of bromocriptine in human subjects were studied with the help of radioactively labeled drug. Twenty-eight percent of an oral dose was absorbed from the gastrointestinal tract. The blood levels following a 2½ mg dose were in the range of 2-3 ng

equivalents/mL. Plasma levels were in the range of 4-6 ng equivalents/mL indicating that the red blood cells did not contain appreciable amounts of drug and/or metabolites. *In vitro* experiments showed that the drug was 90%-96% bound to serum albumin.

Bromocriptine was completely metabolized prior to excretion. The major route of excretion of absorbed drug was via the bile. Only 2.5%-5.5% of the dose was excreted in the urine. Almost all (84.6%) of the administered dose was excreted in the feces in 120 hours.

INDICATIONS AND USAGE

Hyperprolactinemia-Associated Dysfunctions

Parlodel[®] (bromocriptine mesylate) is indicated for the treatment of dysfunctions associated with **hyperprolactinemia** including **amenorrhea** with or without **galactorrhea**, **infertility or hypogonadism**. Parlodel treatment is indicated in patients with **prolactin-secreting adenomas**, which may be the basic underlying endocrinopathy contributing to the above clinical presentations. **Reduction in tumor size** has been demonstrated in both male and female patients with macroadenomas. In cases where adenectomy is elected, a course of Parlodel therapy may be used to reduce the tumor mass prior to surgery.

Acromegaly

Parlodel therapy is indicated in the treatment of acromegaly. Parlodel therapy, alone or as adjunctive therapy with pituitary irradiation or surgery, reduces serum growth hormone by 50% or more in approximately ½ of patients treated, although not usually to normal levels.

Since the effects of external pituitary radiation may not become maximal for several years, adjunctive therapy with Parlodel offers potential benefit before the effects of irradiation are manifested.

Parkinson's Disease

Parlodel SnapTabs[®] or capsules are indicated in the treatment of the signs and symptoms of idiopathic or postencephalitic Parkinson's disease. As adjunctive treatment to levodopa (alone or with a peripheral decarboxylase inhibitor), Parlodel therapy may provide additional therapeutic benefits in those patients who are currently maintained on optimal dosages of levodopa, those who are beginning to deteriorate (develop tolerance) to levodopa therapy, and those who are experiencing "end of dose failure" on levodopa therapy. Parlodel therapy may permit a reduction of the maintenance dose of levodopa and, thus may ameliorate the occurrence and/or severity of adverse reactions associated with long-term levodopa therapy such as abnormal involuntary movements (e.g., dyskinesias) and the marked swings in motor function ("on-off" phenomenon). Continued efficacy of Parlodel therapy during treatment of more than 2 years has not been established.

Data are insufficient to evaluate potential benefit from treating newly diagnosed Parkinson's disease with Parlodel. Studies have shown, however, significantly more adverse reactions (notably nausea, hallucinations, confusion and hypotension) in Parlodel treated patients than in levodopa/carbidopa treated patients. Patients unresponsive to levodopa are poor candidates for Parlodel therapy.

CONTRAINDICATIONS

Uncontrolled hypertension and sensitivity to any ergot alkaloids. In patients being treated for hyperprolactinemia Parlodel[®] (bromocriptine mesylate) should be withdrawn when pregnancy is diagnosed (*see PRECAUTIONS, Hyperprolactinemic States*). In the event that Parlodel is reinstated to control a rapidly expanding macroadenoma (*see PRECAUTIONS, Hyperprolactinemic States*) and a patient experiences a hypertensive disorder of pregnancy, the benefit of continuing Parlodel must be weighed against the possible risk of its use during a hypertensive disorder of pregnancy. When Parlodel is being used to treat acromegaly, prolactinoma, or Parkinson's disease in patients who subsequently become pregnant, a decision should be made as to whether the therapy continues to be medically necessary or can be withdrawn. If it is continued, the drug should be withdrawn in those who may experience hypertensive disorders of pregnancy (including eclampsia, preeclampsia, or pregnancy-induced hypertension) unless withdrawal of Parlodel is considered to be medically contraindicated.

The drug should not be used during the post-partum period in women with a history of coronary artery disease and other severe cardiovascular conditions unless withdrawal is considered medically contraindicated. If the drug is used in the post-partum period the patient should be observed with caution.

WARNINGS

Since hyperprolactinemia with amenorrhea/galactorrhea and infertility has been found in patients with pituitary tumors, a complete evaluation of the pituitary is indicated before treatment with Parlodel[®] (bromocriptine mesylate).

If pregnancy occurs during Parlodel administration, careful observation of these patients is mandatory. Prolactin-secreting adenomas may expand and compression of the optic or other cranial nerves may occur, emergency pituitary surgery becoming necessary. In most cases, the compression resolves following delivery. Reinitiation of Parlodel treatment has been reported to produce improvement in the visual fields of patients in whom nerve compression has occurred during pregnancy. The safety of Parlodel treatment during pregnancy to the mother and fetus has not been established.

Symptomatic hypotension can occur in patients treated with Parlodel for any indication. In postpartum studies with Parlodel, decreases in supine systolic and diastolic pressures of greater than 20 mm and 10 mm Hg, respectively, have been observed in almost 30% of patients receiving Parlodel. On occasion, the drop in supine systolic pressure was as much as 50-59 mm of Hg. **While hypotension during the start of therapy with Parlodel occurs in some patients, in postmarketing experience in the U.S. in postpartum patients 89 cases of hypertension have been reported, sometimes at the initiation of therapy, but often developing in the second week of therapy; seizures have been reported in 72 cases (including 4 cases of status epilepticus), both with and without the prior development of hypertension; 30 cases of stroke have been reported mostly in postpartum patients whose prenatal and obstetric courses had been uncomplicated. Many of these patients experiencing seizures and/or strokes reported developing a constant and often progressively severe headache hours to days prior to the acute event. Some cases of strokes and seizures were also preceded by visual disturbances (blurred vision, and transient cortical blindness). Nine cases of acute myocardial infarction have been reported.**

Although a causal relationship between Parlodel administration and hypertension, seizures, strokes, and myocardial infarction in postpartum women has not been established, use of the drug for prevention of physiological lactation, or in patients with uncontrolled hypertension is not recommended. In patients being treated for hyperprolactinemia Parlodel should be withdrawn when pregnancy is diagnosed (*see PRECAUTIONS, Hyperprolactinemic States*). In the event that Parlodel is reinstated to control a rapidly expanding macroadenoma (*see PRECAUTIONS, Hyperprolactinemic States*) and a patient experiences a hypertensive disorder of pregnancy, the benefit of continuing Parlodel must be weighed against the possible risk of its use during a hypertensive disorder of pregnancy. When Parlodel is being used to treat acromegaly or Parkinson's disease in patients who subsequently become pregnant, a decision should be made as to whether the therapy continues to be medically necessary or can be withdrawn. If it is continued, the drug should be withdrawn in those who may experience hypertensive disorders of pregnancy (including eclampsia, preeclampsia, or pregnancy-induced hypertension) unless withdrawal of Parlodel is considered to be medically contraindicated. Because of the possibility of an interaction between Parlodel and other ergot alkaloids, the concomitant use of these medications is not recommended. Particular attention should be paid to patients who have recently received other drugs that can alter the blood pressure. Periodic monitoring of the blood pressure, particularly during the first weeks of therapy is prudent. If hypertension, severe, progressive, or unremitting headache (with or without visual disturbance), or evidence of CNS toxicity develops, drug therapy should be discontinued and the patient should be evaluated promptly.

Long-term treatment (6-36 months) with Parlodel in doses ranging from 20-100 mg/day has been associated with pulmonary infiltrates, pleural effusion and thickening of the pleura in a few patients. In those instances in which Parlodel treatment was terminated, the changes slowly reverted towards normal.

PRECAUTIONS

General

Safety and efficacy of Parlodel[®] (bromocriptine mesylate) have not been established in patients with renal or hepatic disease. Care should be exercised when administering Parlodel therapy concomitantly with other medications known to lower blood pressure.

The drug should be used with caution in patients with a history of psychosis or cardiovascular disease. If acromegalic patients or patients with prolactinoma or Parkinson's disease are being treated with Parlodel during pregnancy, they should be cautiously observed, particularly during the post-partum period if they have a history of cardiovascular disease.

Hyperprolactinemic States

Visual field impairment is a known complication of macroprolactinoma. Effective treatment with Parlodel leads to a reduction in hyperprolactinaemia and often to a resolution of the visual impairment. In some patients, however, a secondary deterioration of visual fields may subsequently develop despite normalised prolactin levels and tumor shrinkage, which may result from traction on the optic chiasm which is pulled down into the now partially empty sella. In these cases the visual field defect may improve on reduction of bromocriptine dosage while there is some elevation of prolactin and some

tumour re-expansion. Monitoring of visual fields in patients with macroprolactinoma is therefore recommended for an early recognition of secondary field loss due to chiasmal herniation and adaptation of drug dosage.

The relative efficacy of Parlodel versus surgery in preserving visual fields is not known. Patients with rapidly progressive visual field loss should be evaluated by a neurosurgeon to help decide on the most appropriate therapy.

Since pregnancy is often the therapeutic objective in many hyperprolactinemic patients presenting with amenorrhea/galactorrhea and hypogonadism (infertility), a careful assessment of the pituitary is essential to detect the presence of a prolactin-secreting adenoma. Patients not seeking pregnancy, or those harboring large adenomas, should be advised to use contraceptive measures, other than oral contraceptives, during treatment with Parlodel. Since pregnancy may occur prior to reinitiation of menses, a pregnancy test is recommended at least every 4 weeks during the amenorrheic period, and, once menses are reinitiated, every time a patient misses a menstrual period. Treatment with Parlodel SnapTabs[®] or capsules should be discontinued as soon as pregnancy has been established. Patients must be monitored closely throughout pregnancy for signs and symptoms that may signal the enlargement of a previously undetected or existing prolactin-secreting tumor. Discontinuation of Parlodel treatment in patients with known macroadenomas has been associated with rapid regrowth of tumor and increase in serum prolactin in most cases.

Acromegaly

Cold sensitive digital vasospasm has been observed in some acromegalic patients treated with Parlodel. The response, should it occur, can be reversed by reducing the dose of Parlodel and may be prevented by keeping the fingers warm. Cases of severe gastrointestinal bleeding from peptic ulcers have been reported, some fatal. Although there is no evidence that Parlodel increases the incidence of peptic ulcers in acromegalic patients, symptoms suggestive of peptic ulcer should be investigated thoroughly and treated appropriately. Patients with a history of peptic ulcer or gastrointestinal bleeding should be observed carefully during treatment with Parlodel.

Possible tumor expansion while receiving Parlodel therapy has been reported in a few patients. Since the natural history of growth hormone secreting tumors is unknown, all patients should be carefully monitored and, if evidence of tumor expansion develops, discontinuation of treatment and alternative procedures considered.

Parkinson's Disease

Safety during long-term use for more than 2 years at the doses required for parkinsonism has not been established.

As with any chronic therapy, periodic evaluation of hepatic, hematopoietic, cardiovascular, and renal function is recommended. Symptomatic hypotension can occur and, therefore, caution should be exercised when treating patients receiving antihypertensive drugs.

High doses of Parlodel may be associated with confusion and mental disturbances. Since parkinsonian patients may manifest mild degrees of dementia, caution should be used when treating such patients.

Parlodel administered alone or concomitantly with levodopa may cause hallucinations (visual or auditory). Hallucinations usually resolve with dosage reduction; occasionally, discontinuation of

Parlodel is required. Rarely, after high doses, hallucinations have persisted for several weeks following discontinuation of Parlodel.

As with levodopa, caution should be exercised when administering Parlodel to patients with a history of myocardial infarction who have a residual atrial, nodal, or ventricular arrhythmia.

Retroperitoneal fibrosis has been reported in a few patients receiving long-term therapy (2-10 years) with Parlodel in doses ranging from 30-140 mg daily.

Information for Patients

During clinical trials, dizziness, drowsiness, faintness, fainting, and syncope have been reported early in the course of Parlodel therapy. In post-marketing reports, Parlodel has been associated with somnolence, and episodes of sudden sleep onset, particularly in patients with Parkinson's disease. Sudden onset of sleep during daily activities, in some cases without awareness or warning signs, has been reported very rarely. All patients receiving Parlodel should be cautioned with regard to engaging in activities requiring rapid and precise responses, such as driving an automobile or operating machinery.

Patients receiving Parlodel for hyperprolactinemic states associated with macroadenoma or those who have had previous transsphenoidal surgery, should be told to report any persistent watery nasal discharge to their physician. Patients receiving Parlodel for treatment of a macroadenoma should be told that discontinuation of drug may be associated with rapid regrowth of the tumor and recurrence of their original symptoms.

Drug Interactions

The risk of using Parlodel in combination with other drugs has not been systematically evaluated, but alcohol may potentiate the side effects of Parlodel. Parlodel may interact with dopamine antagonists, butyrophenones, and certain other agents. Compounds in these categories result in a decreased efficacy of Parlodel: phenothiazines, haloperidol, metoclopramide, pimozide. Concomitant use of Parlodel with other ergot alkaloids is not recommended.

Carcinogenesis, Mutagenesis, Impairment of Fertility

A 74-week study was conducted in mice using dietary levels of bromocriptine mesylate equivalent to oral doses of 10 and 50 mg/kg/day. A 100-week study in rats was conducted using dietary levels equivalent to oral doses of 1.7, 9.8, and 44 mg/kg/day. The highest doses tested in mice and rats were approximately 2.5 and 4.4 times, respectively, the maximum human dose administered in controlled clinical trials (100 mg/day) based on body surface area. Malignant uterine tumors, endometrial and myometrial, were found in rats as follows: 0/50 control females, 2/50 females given 1.7 mg/kg daily, 7/49 females given 9.8 mg/kg daily, and 9/50 females given 44 mg/kg daily. The occurrence of these neoplasms is probably attributable to the high estrogen/progesterone ratio which occurs in rats as a result of the prolactin-inhibiting action of bromocriptine mesylate. The endocrine mechanisms believed to be involved in the rats are not present in humans. There is no known correlation between uterine malignancies occurring in bromocriptine-treated rats and human risk. In contrast to the findings in rats, the uteri from mice killed after 74 weeks treatment did not exhibit evidence of drug-related changes.

Bromocriptine mesylate was evaluated for mutagenic potential in the battery of tests that included Ames bacterial mutation assay, mutagenic activity *in vitro* on V79 Chinese hamster fibroblasts, cytogenetic analysis of Chinese hamster bone marrow cells following *in vivo* treatment, and an *in vivo* micronucleus test for mutagenic potential in mice.

No mutagenic effects were obtained in any of these tests.

Fertility and reproductive performance in female rats were not influenced adversely by treatment with bromocriptine beyond the predicted decrease in the weight of pups due to suppression of lactation. In males treated with 50 mg/kg of this drug, mating and fertility were within the normal range. Increased perinatal loss was produced in the subgroups of dams, sacrificed on day 21 postpartum (p.p.) after mating with males treated with the highest dose (50 mg/kg).

Pregnancy

Category B: Administration of 10-30 mg/kg of bromocriptine to 2 strains of rats on days 6-15 post coitum (p.c.) as well as a single dose of 10 mg/kg on day 5 p.c. interfered with nidation. Three mg/kg given on days 6-15 were without effect on nidation, and did not produce any anomalies. In animals treated from day 8-15 p.c., i.e., after implantation, 30 mg/kg produced increased prenatal mortality in the form of increased incidence of embryonic resorption. One anomaly, aplasia of spinal vertebrae and ribs, was found in the group of 262 fetuses derived from the dams treated with 30 mg/kg bromocriptine. No fetotoxic effects were found in offspring of dams treated during the peri- or post-natal period.

Two studies were conducted in rabbits (2 strains) to determine the potential to interfere with nidation. Dose levels of 100 or 300 mg/kg/day from day 1 to day 6 p.c. did not adversely affect nidation. The high dose was approximately 63 times the maximum human dose administered in controlled clinical trials (100 mg/day), based on body surface area. In New Zealand white rabbits some embryo mortality occurred at 300 mg/kg which was a reflection of overt maternal toxicity. Three studies were conducted in 2 strains of rabbits to determine the teratological potential of bromocriptine at dose levels of 3, 10, 30, 100, and 300 mg/kg given from day 6 to day 18 p.c. In 2 studies with the Yellow-silver strain, cleft palate was found in 3 and 2 fetuses at maternally toxic doses of 100 and 300 mg/kg, respectively. One control fetus also exhibited this anomaly. In the third study conducted with New Zealand white rabbits using an identical protocol, no cleft palates were produced.

No teratological or embryo-toxic effects of bromocriptine were produced in any of 6 offspring from 6 monkeys at a dose level of 2 mg/kg.

Information concerning 1276 pregnancies in women taking Parlodel has been collected. In the majority of cases, Parlodel was discontinued within 8 weeks into pregnancy (mean 28.7 days), however, 8 patients received the drug continuously throughout pregnancy. The mean daily dose for all patients was 5.8 mg (range 1-40 mg).

Of these 1276 pregnancies, there were 1088 full term deliveries (4 stillborn), 145 spontaneous abortions (11.4%), and 28 induced abortions (2.2%). Moreover, 12 extrauterine gravidities and 3 hydatidiform moles (twice in the same patient) caused early termination of pregnancy. These data compare favorably with the abortion rate (11%-25%) cited for pregnancies induced by clomiphene citrate, menopausal gonadotropin, and chorionic gonadotropin.

Although spontaneous abortions often go unreported, especially prior to 20 weeks of gestation, their frequency has been estimated to be 15%.

The incidence of birth defects in the population at large ranges from 2%-4.5%. The incidence in 1109 live births from patients receiving bromocriptine is 3.3%.

There is no suggestion that Parlodel contributed to the type or incidence of birth defects in this group of infants.

Nursing Mothers

Parlodel should not be used during lactation in postpartum women.

Pediatric Use

The safety and effectiveness of bromocriptine for the treatment of prolactin-secreting pituitary adenomas have been established in patients age 16 to adult. No data are available for bromocriptine use in pediatric patients under the age of 8 years. A single 8-year old patient treated with bromocriptine for a prolactin-secreting pituitary macroadenoma has been reported without therapeutic response.

The use of bromocriptine for the treatment of prolactin-secreting adenomas in pediatric patients in the age group 11 to under 16 years is supported by evidence from well-controlled trials in adults, with additional data in a limited number (n=14) of children and adolescents 11 to 15 years of age with prolactin-secreting pituitary macro- and microadenomas who have been treated with bromocriptine. Of the 14 reported patients, 9 had successful outcomes, 3 partial responses, and 2 failed to respond to bromocriptine treatment. Chronic hypopituitarism complicated macroadenoma treatment in 5 of the responders, both in patients receiving bromocriptine alone and in those who received bromocriptine in combination with surgical treatment and/or pituitary irradiation.

Safety and effectiveness of bromocriptine in pediatric patients have not been established for any other indication listed in the INDICATIONS AND USAGE section.

Geriatric Use

Clinical studies for Parlodel did not include sufficient numbers of subjects aged 65 and over to determine whether the elderly respond differently from younger subjects. However, other reported clinical experiences, including post-marketing reporting of adverse events, have not identified differences in response or tolerability between elderly and younger patients. Even though no variation in efficacy or adverse reaction profile in geriatric patients taking Parlodel has been observed, greater sensitivity of some elderly individuals cannot be categorically ruled out. In general, dose selection for an elderly patient should be cautious, starting at the lower end of the dose range, reflecting the greater frequency of decreased hepatic, renal or cardiac function, and of concomitant disease or other drug therapy in this population.

ADVERSE REACTIONS

Hyperprolactinemic Indications

The incidence of adverse effects is quite high (69%) but these are generally mild to moderate in degree. Therapy was discontinued in approximately 5% of patients because of adverse effects. These in decreasing order of frequency are: nausea (49%), headache (19%), dizziness (17%), fatigue (7%), lightheadedness (5%), vomiting (5%), abdominal cramps (4%), nasal congestion (3%), constipation (3%), diarrhea (3%) and drowsiness (3%).

A slight hypotensive effect may accompany Parlodel[®] (bromocriptine mesylate) treatment. The occurrence of adverse reactions may be lessened by temporarily reducing dosage to ½ SnapTabs[®] tablet 2 or 3 times daily. A few cases of cerebrospinal fluid rhinorrhea have been reported in patients receiving Parlodel for treatment of large prolactinomas. This has occurred rarely, usually only in patients who have received previous transsphenoidal surgery, pituitary radiation, or both, and who were receiving Parlodel for tumor recurrence. It may also occur in previously untreated patients whose tumor extends into the sphenoid sinus.

Acromegaly

The most frequent adverse reactions encountered in acromegalic patients treated with Parlodel were: nausea (18%), constipation (14%), postural/orthostatic hypotension (6%), anorexia (4%), dry mouth/nasal stuffiness (4%), indigestion/dyspepsia (4%), digital vasospasm (3%), drowsiness/tiredness (3%) and vomiting (2%).

Less frequent adverse reactions (less than 2%) were: gastrointestinal bleeding, dizziness, exacerbation of Raynaud's Syndrome, headache and syncope. Rarely (less than 1%) hair loss, alcohol potentiation, faintness, lightheadedness, arrhythmia, ventricular tachycardia, decreased sleep requirement, visual hallucinations, lassitude, shortness of breath, bradycardia, vertigo, paresthesia, sluggishness, vasovagal attack, delusional psychosis, paranoia, insomnia, heavy headedness, reduced tolerance to cold, tingling of ears, facial pallor and muscle cramps have been reported.

Parkinson's Disease

In clinical trials in which Parlodel was administered with concomitant reduction in the dose of levodopa/carbidopa, the most common newly appearing adverse reactions were: nausea, abnormal involuntary movements, hallucinations, confusion, "on-off" phenomenon, dizziness, drowsiness, faintness/fainting, vomiting, asthenia, abdominal discomfort, visual disturbance, ataxia, insomnia, depression, hypotension, shortness of breath, constipation, and vertigo.

Less common adverse reactions which may be encountered include: anorexia, anxiety, blepharospasm, dry mouth, dysphagia, edema of the feet and ankles, erythromelalgia, epileptiform seizure, fatigue, headache, lethargy, mottling of skin, nasal stuffiness, nervousness, nightmares, paresthesia, skin rash, urinary frequency, urinary incontinence, urinary retention, and rarely, signs and symptoms of ergotism such as tingling of fingers, cold feet, numbness, muscle cramps of feet and legs or exacerbation of Raynaud's Syndrome.

Pleural and pericardial effusions, pleural, and pulmonary fibrosis or retroperitoneal fibrosis and constrictive pericarditis have been reported rarely in patients treated with Parlodel.

Very rarely, a syndrome resembling Neuroleptic Malignant Syndrome has been reported on abrupt withdrawal of Parlodel.

Abnormalities in laboratory tests may include elevations in blood urea nitrogen, SGOT, SGPT, GGPT, CPK, alkaline phosphatase and uric acid, which are usually transient and not of clinical significance.

Adverse Events Observed in Other Conditions

Postpartum Patients

In postpartum studies with Parlodel 23 percent of postpartum patients treated had at least 1 side effect, but they were generally mild to moderate in degree. Therapy was discontinued in approximately 3% of patients. The most frequently occurring adverse reactions were: headache (10%), dizziness (8%), nausea (7%), vomiting (3%), fatigue (1.0%), syncope (0.7%), diarrhea (0.4%) and cramps (0.4%). Decreases in blood pressure (≥ 20 mm Hg systolic and ≥ 10 mm Hg diastolic) occurred in 28% of patients at least once during the first 3 postpartum days; these were usually of a transient nature. Reports of fainting in the puerperium may possibly be related to this effect. In postmarketing experience in the U.S. serious adverse reactions reported include 72 cases of seizures (including 4 cases of status epilepticus), 30 cases of stroke, and 9 cases of myocardial infarction among postpartum patients. Seizure cases were not necessarily accompanied by the development of hypertension. An unremitting and often progressively severe headache, sometimes accompanied by visual disturbance, often preceded by hours to days many cases of seizure and/or stroke. Most patients had shown no evidence of any of the hypertensive disorders of pregnancy including eclampsia, preeclampsia or pregnancy induced hypertension. One stroke case was associated with sagittal sinus thrombosis, and another was associated with cerebral and cerebellar vasculitis. One case of myocardial infarction was associated with unexplained disseminated intravascular coagulation and a second occurred in conjunction with use of another ergot alkaloid. The relationship of these adverse reactions to Parlodel administration has not been established.

OVERDOSAGE

The most commonly reported signs and symptoms associated with acute Parlodel[®] (bromocriptine mesylate) overdose are: nausea, vomiting, constipation, diaphoresis, dizziness, pallor, severe hypotension, malaise, confusion, lethargy, drowsiness, delusions, hallucinations, and repetitive yawning. The lethal dose has not been established and the drug has a very wide margin of safety. However, one death occurred in a patient who committed suicide with an unknown quantity of Parlodel and chloroquine.

Treatment of overdose consists of removal of the drug by emesis (if conscious), gastric lavage, activated charcoal, or saline catharsis. Careful supervision and recording of fluid intake and output is essential. Hypotension should be treated by placing the patient in the Trendelenburg position and administering I.V. fluids. If satisfactory relief of hypotension cannot be achieved by using the above measures to their fullest extent, vasopressors should be considered.

DOSAGE AND ADMINISTRATION

General

It is recommended that Parlodel[®] (bromocriptine mesylate) be taken with food. Patients should be evaluated frequently during dose escalation to determine the lowest dosage that produces a therapeutic response.

Hyperprolactinemic Indications

The initial dosage of Parlodel Snap Tabs[®] in adults is ½ to one 2½ mg scored tablet daily. An additional 2½ mg tablet may be added to the treatment regimen as tolerated every 2-7 days until an optimal therapeutic response is achieved. The therapeutic dosage ranged from 2.5-15 mg daily in adults studied clinically.

Based on limited data in children of age 11 to 15, (see Pediatric Use subsection) the initial dose is ½ to one 2½ mg scored tablet daily. Dosing may need to be increased as tolerated until a therapeutic response is achieved. The therapeutic dosage ranged from 2.5-10 mg daily in children with prolactin-secreting pituitary adenomas.

In order to reduce the likelihood of prolonged exposure to Parlodel should an unsuspected pregnancy occur, a mechanical contraceptive should be used in conjunction with Parlodel therapy until normal ovulatory menstrual cycles have been restored. Contraception may then be discontinued in patients desiring pregnancy.

Thereafter, if menstruation does not occur within 3 days of the expected date, Parlodel therapy should be discontinued and a pregnancy test performed.

Acromegaly

Virtually all acromegalic patients receiving therapeutic benefit from Parlodel also have reductions in circulating levels of growth hormone. Therefore, periodic assessment of circulating levels of growth hormone will, in most cases, serve as a guide in determining the therapeutic potential of Parlodel. If, after a brief trial with Parlodel therapy, no significant reduction in growth hormone levels has taken place, careful assessment of the clinical features of the disease should be made, and if no change has occurred, dosage adjustment or discontinuation of therapy should be considered.

The initial recommended dosage is ½ to one 2½ mg Parlodel SnapTabs tablet on retiring (with food) for 3 days. An additional ½ to 1 SnapTabs[®] tablet should be added to the treatment regimen as tolerated every 3-7 days until the patient obtains optimal therapeutic benefit. Patients should be reevaluated monthly and the dosage adjusted based on reductions of growth hormone or clinical response. The usual optimal therapeutic dosage range of Parlodel varies from 20-30 mg/day in most patients. The maximal dosage should not exceed 100 mg/day.

Patients treated with pituitary irradiation should be withdrawn from Parlodel therapy on a yearly basis to assess both the clinical effects of radiation on the disease process as well as the effects of Parlodel therapy. Usually a 4-8 week withdrawal period is adequate for this purpose. Recurrence of the signs/symptoms or increases in growth hormone indicate the disease process is still active and further courses of Parlodel should be considered.

Parkinson's Disease

The basic principle of Parlodel therapy is to initiate treatment at a low dosage and, on an individual basis, increase the daily dosage slowly until a maximum therapeutic response is achieved. The dosage of levodopa during this introductory period should be maintained, if possible. The initial dose of Parlodel is ½ of a 2½ mg SnapTabs tablet twice daily with meals. Assessments are advised at 2-week intervals during dosage titration to ensure that the lowest dosage producing an optimal therapeutic response is not exceeded. If necessary, the dosage may be increased every 14-28 days by 2½ mg/day with meals. Should it be advisable to reduce the dosage of levodopa because of adverse reactions, the daily dosage of Parlodel, if increased, should be accomplished gradually in small (2½ mg) increments.

The safety of Parlodel has not been demonstrated in dosages exceeding 100 mg/day.

HOW SUPPLIED

Parlodel® (bromocriptine mesylate) SnapTabs®

2½ mg

Round, off-white, bevelled-edge SnapTabs®, each containing 2½ mg bromocriptine (as the mesylate). Engraved "PARLODEL 2½" on one side and scored on reverse side. Complies with USP dissolution test 1.

Packages of 30	NDC 0078-0017-15
Packages of 100	NDC 0078-0017-05

Parlodel® (bromocriptine mesylate) Capsules

5 mg

Caramel and white capsules, each containing 5 mg bromocriptine (as the mesylate). Imprinted in red ink "PARLODEL 5 mg" on one half and "△" on other half

Packages of 30	NDC 0078-0102-15
Packages of 100	NDC 0078-0102-05

Store and Dispense

Below 25°C (77°F); tight, light-resistant container.

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 **NOVARTIS**

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