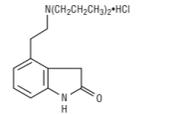


**DESCRIPTION**  
Ropinirole hydrochloride is an orally administered non-ergoline dopamine agonist. It is the hydrochloride salt of 4-(2-(diisopropylamino)ethyl)-1,3-dihydro-2H-imidazo[5,1-b]indole hydrochloride. The structural formula is:



Ropinirole hydrochloride is a pale yellow to greenish powder with a melting range of 243° to 250°C and a solubility of 133 mg/mL in water.

Each convex, round film-coated tablet contains ropinirole hydrochloride equivalent to ropinirole, 0.25 mg, 0.5 mg, 1 mg, 2 mg, 3 mg, 4 mg, 6 mg, or 8 mg, and the following inactive ingredients: croscarmellose sodium, hydroxypropyl cellulose, lactose monohydrate, magnesium stearate, microcrystalline cellulose, polyethylene glycol, polyvinyl alcohol-part hydrolyzed, talc, and titanium dioxide. In addition, the 0.25 mg, 1 mg, 2 mg, 3 mg, 4 mg, and 6 mg tablets contain lactin; the 0.5 mg, 1 mg, and 4 mg tablets contain iron oxide yellow; the 1 mg, 3 mg, and 4 mg tablets contain FD&C Blue #2/Indigo Carmine Aluminum Lake; the 0.5 mg, 2 mg, and 5 mg tablets contain iron oxide red; and the 2 mg and 4 mg tablets contain iron oxide black; the 3 mg tablet contains FD&C Blue #1/Bright Blue Aluminum Lake and D&C Red #20/Hexelene Pink Aluminum Lake.

**CLINICAL PHARMACOLOGY**  
**Mechanism of Action**  
Ropinirole hydrochloride is a non-ergoline dopamine agonist with high relative *in vitro* specificity and full intrinsic activity at the D<sub>2</sub> and D<sub>3</sub> dopamine receptor subtypes, binding with high affinity to D<sub>2</sub> over to D<sub>2</sub> or D<sub>4</sub> receptor subtypes.  
Ropinirole has moderate *in vitro* affinity for opioid receptors. Ropinirole and its metabolites have negligible *in vitro* affinity for dopamine D<sub>1</sub>, 5-HT<sub>1</sub>, 5-HT<sub>2</sub>, benzodiazepine, GABA<sub>A</sub>, muscarinic, alpha<sub>1</sub>-, alpha<sub>2</sub>-, and beta<sub>1</sub>-adrenoreceptors.

**Restless Legs Syndrome (RLS)**  
The precise mechanism of action of ropinirole hydrochloride as a treatment for Restless Legs Syndrome (also known as Ekborum Syndrome) is unknown. Although the pathophysiology of RLS is largely unknown, neurophysiologic evidence suggests primary dopaminergic system involvement. Positron emission tomographic (PET) studies suggest that a mid striatal presynaptic dopaminergic mechanism may be involved in the pathogenesis of RLS.

**Clinical Pharmacokinetics**  
In healthy normotensive subjects, single oral doses of ropinirole hydrochloride in the range 0.01 to 2.5 mg had little or no effect on supine blood pressure and pulse rates. Upon standing, ropinirole hydrochloride caused decreases in systolic and diastolic blood pressure of approximately 0.25 mg. In some subjects, these changes were associated with the emergence of orthostatic symptoms, bradycardia, and, in one case, transient sinus arrest with syncope. With repeat dosing and slow titration up to 4 mg once daily in healthy volunteers, postural hypotension or hypotension-related adverse events were noted in 15% of subjects on ropinirole hydrochloride and none of the subjects on placebo.

The mechanism of postural hypotension induced by ropinirole hydrochloride is presumed to be due to a D<sub>2</sub>-mediated blunting of the noradrenergic response to standing and subsequent reduction in peripheral vascular resistance. Nausea is a common concomitant of orthostatic signs and symptoms.

At oral doses as low as 0.2 mg, ropinirole hydrochloride suppressed serum prolactin concentrations in healthy male volunteers.

Ropinirole hydrochloride had no dose-related effect on ECG wave form and rhythm in young, healthy, male volunteers in the range of 0.01 to 2.5 mg.

Ropinirole hydrochloride had no dose- or exposure-related effect on mean QT interval in healthy male and female volunteers titrated to doses up to 4 mg/day. The effect of ropinirole hydrochloride on QT intervals at higher exposures achieved due to drug interactions has not been systematically evaluated.

**Pharmacokinetics**  
**Absorption, Distribution, Metabolism, and Elimination**  
Ropinirole is rapidly absorbed after oral administration, reaching peak concentration in approximately 1 to 2 hours. In clinical studies, over 88% of a radio labeled dose was recovered in urine and the absolute bioavailability was 55%, indicating a first-pass effect. Relative bioavailability from a tablet compared to an oral solution is 85%. Food does not affect the extent of absorption of ropinirole, although its *C<sub>max</sub>* is increased by 25 hours and its *t<sub>1/2</sub>* is decreased by approximately 25% when the drug is taken with a high-fat meal. The clearance of ropinirole after oral administration to the patients is 47 L/hr (cv ±45%) and its elimination half-life is approximately 6 hours. Ropinirole is extensively metabolized by the liver. Active metabolites displays linear kinetics over the therapeutic dosing range of 0.1 to 8 mg 3 times daily. Steady state concentrations are expected to be achieved within 2 days of dosing. Accumulation upon multiple dosing is predictive from single dosing.

Ropinirole is widely distributed throughout the body, with an apparent volume of distribution of 7.5 L/kg (cv ±23%). It is up to 40% bound to plasma proteins and has a blood-to-plasma ratio of 1:1.

The major metabolic pathways are N-despropylation and hydroxylation to form the inactive N-despropyl and hydroxy metabolites. *In vitro* studies indicate that the major cytochrome P-450 enzyme involved in the metabolism of ropinirole is CYP1A2, an enzyme known to be stimulated by smoking and omeprazole, and inhibited by, for example, fluvoxamine, mephenytoin, and the older fluorquinolones such as ciprofloxacin and norfloxacin. The N-despropyl metabolite is converted to carbonyl glucuronide, carboxylic acid, and N-despropyl metabolites. The hydroxy metabolite of ropinirole is rapidly glucuronidated. Less than 10% of the administered dose is excreted as unchanged drug in urine. N-despropyl ropinirole is the predominant metabolite found in urine (40%), followed by the carboxylic acid metabolite (10%), and the hydroxy metabolite (10%).

***P<sub>450</sub>* Interaction**  
*In vitro* metabolism studies showed that CYP1A2 was the major enzyme responsible for the metabolism of ropinirole. Inhibitors or inducers of the enzyme have been shown to alter the clearance when coadministered with ropinirole. Therefore, if therapy with a drug known to be a potent inhibitor of CYP1A2 is stopped or started during treatment with ropinirole hydrochloride, adjustment of the dose of ropinirole hydrochloride may be required.

**Population Subgroups**  
Because therapy with ropinirole hydrochloride is initiated at a low dose and gradually titrated according to clinical tolerability to obtain the optimum therapeutic effect, adjustment of the initial dose based on gender, weight, or age is not necessary.

Oral clearance of ropinirole is reduced by 30% in patients above 65 years of age compared to younger patients. Dosage adjustment is not necessary in the elderly (above 65 years), as the dose of ropinirole is to be individually titrated to clinical response.

**Race**  
Ropinirole and male patients showed similar oral clearance.

The influence of race on the pharmacokinetics of ropinirole has not been evaluated.

**Cigarette Smoking**  
Smoking is expected to increase the clearance of ropinirole since CYP1A2 is known to be an enzyme involved in the metabolism of ropinirole. In patients with a history of smoking, 30% lower *C<sub>max</sub>* and a 38% lower AUC than did nonsmokers (n = 11), when those parameters were normalized for dose.

**Renal Impairment**  
Based on population pharmacokinetic analysis, no difference was observed in the pharmacokinetics of ropinirole in patients with moderate renal impairment (creatinine clearance between 30 to 50 mL/min) compared to an age-matched population with creatinine clearance above 50 mL/min. Therefore, no dosage adjustment is necessary in patients with moderate renal impairment. The use of ropinirole hydrochloride in patients with severe renal impairment has not been studied. The effect of hemodialysis on drug removal is not known, but because of the relatively high apparent volume of distribution of ropinirole (525 L), the removal of the drug by hemodialysis is unlikely.

**Hepatic Impairment**  
The pharmacokinetics of ropinirole have not been studied in hepatically impaired patients. These patients may have higher plasma levels and lower clearance of the drug than patients with normal hepatic function. The drug should be titrated with caution in this population.

**Other Diseases**  
Population pharmacokinetic analysis revealed no change in the oral clearance of ropinirole in patients with concomitant diseases such as hypertension, depression, osteoarthritis/arthritis, and insomnia.

**Clinical Trials**  
**Restless Legs Syndrome (RLS)**  
The effectiveness of ropinirole hydrochloride in the treatment of RLS was demonstrated in randomized, double-blind, placebo-controlled studies in adults diagnosed with the well-defined, international Restless Legs Syndrome. Study Group Diagnostic criteria are listed in the **INDICATIONS AND USAGE**. Patients were required to have a minimum of 15 RLS episodes/month during the previous month and a total score of ≥ 15 on the International RLS Rating Scale (IRLS scale) at baseline. Patients with RLS secondary to other conditions (e.g., pregnancy, renal failure, and anemia) were excluded. All studies employed flexible dosing with patients initiating therapy at 0.25 mg ropinirole hydrochloride once daily. Patients were titrated based on clinical response and tolerability over 7 weeks to a maximum of 4 mg once daily. All doses were taken between 1 and 3 hours before bedtime.

A series of measures were used to assess the effects of treatment including the IRLS Scale and Clinical Global Impression-Global Assessment (CGI-H) scores. The IRLS scale contains 10 items designed to assess the severity of sensory and motor symptoms, sleep disturbance, daytime somnolence, and impact on activities of daily living as most associated with RLS. The range of scores is 0 to 4, with 0 being absence of RLS symptoms and 40 the most severe

symptoms. Three of the controlled studies utilized the change from baseline in the IRLS Scale at the week 12 endpoint as the primary efficacy outcome.

In three hour-long studies, patients were randomized to receive ropinirole hydrochloride (n = 187) or placebo (n = 150) in a US study; 284 were randomized to receive either ropinirole hydrochloride (n = 146) or placebo (n = 138) in a multinational study (excluding US); and 267 patients were randomized to ropinirole hydrochloride (n = 131) or placebo (n = 136) in a multinational study (excluding US). Across the 3 studies, the mean duration of RLS was 19 to 22 years (range of 0 to 65 years), mean age was approximately 54 years (range of 18 to 79 years), and approximately 61% were women. The mean dose at week 12 was approximately 2 mg/day for the 3 studies.

In all 3 studies, a statistically significant difference between the treatment group receiving ropinirole hydrochloride and the placebo treatment group was observed in the mean change from baseline in the IRLS Scale total score and the percentage of patients rated as responders (much improved or very much improved) on the CGI-H (see **Table 1**).

**Table 1. Mean Change in IRLS Score and Percent Responders on CGI-H**

	Ropinirole	Placebo	p-value
Mean Change in IRLS score at Week 12			
US study	-13.5	-9.8	p < 0.0001
Multinational study (excluding US)	-11.0	-8.0	p = 0.0026
Multinational study (including US)	-11.2	-8.7	p = 0.0197
Percent responders on CGI-H at Week 12			
US study	73.3%	56.5%	p = 0.0006
Multinational study (excluding US)	53.4%	40.9%	p = 0.0416
Multinational study (including US)	59.5%	39.6%	p = 0.0010

Long-term maintenance of efficacy in the treatment of RLS was demonstrated in a 36 week study. Following a 2 week single-blind treatment phase (flexible doses of ropinirole hydrochloride of 0.25 to 4 mg once daily), patients who were responders (defined as a decrease of 6 points on the IRLS Scale total score) were randomized in a double-blind fashion to placebo or continuation of ropinirole hydrochloride for an additional 12 weeks. Relapse was defined as an increase of at least 6 points on the IRLS Scale total score to a total score of at least 15, or withdrawal due to lack of efficacy. For patients who were responders at week 24, the mean dose of ropinirole was 2 mg (range 0.25 to 4 mg). Patients continued on ropinirole hydrochloride demonstrated a significantly lower relapse rate compared to patients randomized to placebo (32.6% vs 57.8%, p = 0.0156).

**INDICATIONS AND USAGE**  
**Restless Legs Syndrome**  
Ropinirole hydrochloride tablets are indicated for the treatment of moderate-to-severe primary idiopathic Restless Legs Syndrome.

Key diagnostic criteria for RLS are: an urge to move the legs usually accompanied or caused by uncomfortable and unpleasant leg sensations; symptoms begin or worsen during periods of rest or inactivity such as lying or sitting; symptoms are partially or totally relieved by movement such as walking or stretching at least as long as the rest of the day; symptoms are worse or occur only in the evening or night. Difficulty falling asleep may frequently be associated with moderate-to-severe RLS.

**CONTRAINDICATIONS**  
Ropinirole hydrochloride tablets are contraindicated for patients known to have hypersensitivity to ropinirole hydrochloride or any of its inactive ingredients.

**WARNINGS**  
**Falling Asleep During Activities of Daily Living**  
Patients treated with ropinirole hydrochloride have reported falling asleep while engaged in activities that require alertness, including the operation of motor vehicles, while operating a machine, or during activities that require active participation (e.g., conversations, eating, etc.). Ropinirole hydrochloride should remain active or discontinued. (See **DOSE AND ADMINISTRATION** for guidance in discontinuing ropinirole hydrochloride.) If a decision is made to continue ropinirole hydrochloride, patients should be advised to not drive and to avoid other potentially dangerous activities. There is insufficient information to establish that dose reduction will eliminate episodes of falling asleep while engaged in activities of daily living.

**Syncope**  
Syncope, sometimes associated with bradycardia, was observed in association with ropinirole in RLS patients.  
In patients with RLS, of 496 patients treated with ropinirole hydrochloride in 12 week placebo-controlled trials, there were reports of syncope in 5 (1.0%) compared with 1 of 500 (0.2%) patients treated with placebo.  
In 2 studies in RLS patients that used a forced titration regimen and orthostatic challenge with intensive blood pressure monitoring, 1 of 55 RLS patients treated with ropinirole hydrochloride compared with 0 of 27 patients receiving placebo reported syncope. In these 1-study including 110 healthy volunteers, 1 patient developed hypotension, bradycardia, and sinus arrest of 26 seconds accompanied by syncope; the patient recovered spontaneously without intervention. One other healthy volunteer reported syncope.

**Symptomatic Hypotension**  
Clinical studies and clinical experience, appear to impair the systemic regulation of blood pressure, with resulting postural hypotension, especially during dose escalation.  
In 12 week placebo-controlled trials in patients with RLS, the adverse event orthostatic hypotension was reported in 4 of 496 patients (0.8%) treated with ropinirole hydrochloride compared with 2 of 500 patients (0.4%) receiving placebo.  
In two phase 2 studies in patients with RLS that used a force-titration regimen and orthostatic challenges with intensive blood pressure monitoring, 14 of 55 patients (25%) receiving ropinirole hydrochloride experienced an adverse event of hypotension or postural hypotension. As described above, one additional patient was noted to have an episode of vasovagal syncope (although no blood pressure recordings was documented). None of the 27 patients receiving placebo had a similar adverse event. In these studies, 11 of the 55 patients (20%) receiving ropinirole hydrochloride and 3 of the 26 patients (12%) who had post-dose blood pressure assessments following placebo, experienced an orthostatic blood pressure decrease of at least 40 mm Hg systolic and/or at least 30 mm Hg diastolic, not due to changes in posture. In these studies, 10 patients were hospitalized in force nature these studies used a similar titration schedule as those in the phase 2 efficacy trials.

In three phase 2 studies of ropinirole hydrochloride that included 110 healthy volunteers, 9 subjects had documented symptomatic postural hypotension. These episodes appeared mainly at doses above 0.8 mg and these doses are higher than those used in the phase 2 efficacy studies. In 8 of these individuals, the hypotension was accompanied by bradycardia, but did not develop into syncope (see **Syncope** subsection). None of these events resulted in death or hospitalization.

**Hallucinations**  
In patients with RLS, hallucinations were reported by 0% of patients treated with ropinirole hydrochloride (0 of 496) compared with 0.2% of patients who received placebo (1 of 500) in the 12 week placebo-controlled trials; in premarketing long-term open-label studies, 0.5% of patients reported hallucinations during therapy with ropinirole hydrochloride (2 of 390) but did not require treatment and symptoms resolved.

**PRECAUTIONS**  
**General**  
**Dizziness**  
Dizziness may potentiate the dopaminergic side effects of L-dopa and may cause and/or exacerbate preexisting dyskinesia in patients treated with L-dopa. Decreasing the dose of L-dopa may ameliorate this side effect.

**Renal Impairment**  
Renal dosage adjustment is needed in patients with mild to moderate renal impairment (creatinine clearance of 30 to 50 mL/min). The use of ropinirole hydrochloride in patients with severe renal impairment has not been studied.

**Hepatic Impairment**  
The pharmacokinetics of ropinirole have not been studied in patients with hepatic impairment. Since patients with hepatic impairment may have higher plasma levels and lower clearance, ropinirole hydrochloride should be titrated with caution in these patients.

**Fibrotic Complications**  
Cases of pulmonary fibrosis, pulmonary infiltrates, pleural effusion, pleural thickening, pericarditis, and cardiac valvulopathy have been reported in some patients treated with ergot-derived dopaminergic agents. While these complications may resolve when the drug is discontinued, complete resolution does not always occur.

Although these adverse events are believed to be related to the ergoline structure of these compounds, whether other, nonergot-derived dopaminergic agents can cause them is unknown.

A small number of reports have been received of possible fibrotic complications, including pleural effusion, pleural fibrosis, interstitial lung disease, and cardiac valvulopathy, in the

development program and postmarketing experience for ropinirole hydrochloride. While the evidence is not sufficient to establish a causal relationship between ropinirole hydrochloride and these specific complications, a contribution of ropinirole hydrochloride cannot be completely ruled out in rare cases.

**Melanoma**  
Although ropinirole hydrochloride has not been associated with an increased risk of melanoma occurrence, its potential role as a risk factor has not been systematically studied. Incidence of ropinirole hydrochloride for any indication should undergo periodic dermatologic screening.

**Augmentation and Rebound in RLS**  
Reports in the literature indicate that treatment of RLS with dopaminergic rebounds can result in a greater incidence and severity of fetal malformations (primarily cleft defects) than has also been described during therapy for RLS. Augmentation refers to the earlier onset of symptoms in the evening (or even the afternoon), increase in symptoms, and spread of symptoms to other body parts. The rebound phenomenon is characterized by an increase in RLS symptoms in patients with RLS excluded patients with augmentation and rebound were generally not of sufficient duration to capture these phenomena. The frequency of augmentation and/or rebound after ropinirole hydrochloride treatment was not statistically significant. An appropriate management of these events, have not been evaluated in controlled clinical trials.

**Retinal Pathology**  
**Albino rats**  
Retinal degeneration was observed in albino rats in the 2 year carcinogenicity study at all doses equivalent to 0.6 to 20 times the maximum recommended human dose on a mg/m<sup>2</sup> basis), but was statistically significant at the highest dose (50 mg/kg/day). Additional studies to further evaluate the specificity (e.g., loss of photoreceptor cells) have not been performed. Retinal changes were not observed in a 2 year carcinogenicity study in albino mice or in rats or monkeys treated for 1 year. The potential significance of this effect in humans has not been established, but cannot be disregarded because disruption of a mechanism that is universally present in vertebrates (e.g., disk shedding) may be involved.

**Human**  
In order to evaluate the effect of ropinirole hydrochloride in humans, ocular electroretinogram (ERG) assessments were conducted during a 2 year, double-blind, multicenter, flexible dose, L-dopa controlled clinical study. A total of 156 patients (78 on ropinirole hydrochloride and 78 on L-dopa, mean dose 555.2 mg/day) were evaluated for evidence of retinal dysfunction during electroretinograms. There was no clinically meaningful difference between the treatment groups in the duration of the study.

**Binding to Melanin**  
Ropinirole hydrochloride binds to melanin-containing tissues (i.e., eyes, skin) in pigmented rats. After a single dose, long-term retention of drug was demonstrated, with a half-life in the eye of 20 days. It is not known if ropinirole hydrochloride accumulates in these tissues over the course of the duration of the study.

**Information for Patients**  
Physicians should instruct their patients to read the Patient Information leaflet before starting therapy with ropinirole hydrochloride and to read it upon prescription renewal for new therapy. Patients should be advised to avoid alcohol and to avoid potentially dangerous activities until they have gained sufficient experience with ropinirole hydrochloride to gauge whether or not it affects their mental and/or motor performance adversely. Patients should be advised that if increased symptoms of falling asleep during activities of daily living (e.g., driving, operating a machine, passenger in a car, etc.) are experienced at any time during treatment, they should not drive or participate in potentially dangerous activities until they have contacted their physician.

Patients should be alerted to the potential sedating effects associated with ropinirole hydrochloride, including somnolence and the possibility of falling asleep while engaged in activities of daily living. Since somnolence is a frequent adverse event with potentially serious consequences, patients should be advised to not engage in other potentially dangerous activities until they have gained sufficient experience with ropinirole hydrochloride to gauge whether or not it affects their mental and/or motor performance adversely. Patients should be advised that if increased symptoms of falling asleep during activities of daily living (e.g., driving, operating a machine, passenger in a car, etc.) are experienced at any time during treatment, they should not drive or participate in potentially dangerous activities until they have contacted their physician.

Because of possible additive effects, caution should be advised when patients are taking other sedating medications in combination with ropinirole hydrochloride and when taking concomitant medications that increase plasma levels of ropinirole (e.g., ciprofloxacin). Because of the possible additive sedative effects, caution should also be used when patients are taking alcohol or other CNS depressants (e.g., benzodiazepines, antipsychotics, antidepressants, etc.) in combination with ropinirole hydrochloride.

Patients should be advised to avoid alcohol and to avoid potentially dangerous activities until they have gained sufficient experience with ropinirole hydrochloride to gauge whether or not it affects their mental and/or motor performance adversely. Patients should be advised that if increased symptoms of falling asleep during activities of daily living (e.g., driving, operating a machine, passenger in a car, etc.) are experienced at any time during treatment, they should not drive or participate in potentially dangerous activities until they have contacted their physician.

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#### What are the possible side effects of ropinirole hydrochloride?

- Most people who take ropinirole hydrochloride tolerate it well. The most commonly reported side effects in people taking ropinirole hydrochloride for RLS are nausea, vomiting, dizziness, and drowsiness or sleepiness. You should be careful until you know if ropinirole hydrochloride affects your ability to remain alert while doing normal daily activities, and you should watch for the development of significant daytime sleepiness or episodes of falling asleep. It is possible that you could fall asleep while doing normal activities such as driving a car, doing physical tasks, or using hazardous machinery while taking ropinirole hydrochloride. Your chances of falling asleep while doing normal activities while taking ropinirole hydrochloride are greater if you are taking other medicines that cause drowsiness.
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#### Other information about ropinirole hydrochloride

Patients being treated with ropinirole hydrochloride should have periodic skin examinations for melanoma.

- Take ropinirole hydrochloride exactly as your doctor prescribes it.
- Do not share ropinirole hydrochloride with other people, even if they have the same symptoms you have.
- Keep ropinirole hydrochloride out of the reach of children.
- Store ropinirole hydrochloride at room temperature out of direct sunlight.
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This label may not be the latest approved by FDA.

For current labeling information, please visit <https://www.fda.gov/drugsatfda>

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pneumonia, postoperative infection, respiratory tract infection, tonsillitis, tooth infection, vaginal candidiasis, vaginal infection, vaginal mycosis, viral infection, viral upper respiratory tract infection, wound infection

**Injury, Poisoning, and Procedural Complications:** **Inrequent:** Concussion, lower limb fracture, post procedural hemorrhage, road traffic accident.

**Investigations:** **Inrequent:** Blood cholesterol increased, blood iron decreased, blood pressure increased, blood urine present, hemoglobin decreased, heart rate increased, protein urine present, weight decreased, weight increased.

**Metabolism and Nutrition Disorders:** **Inrequent:** Anorexia, decreased appetite, diabetes mellitus non-insulin-dependent, fluid retention, gout, hypercholesterolemia.

**Musculoskeletal and Connective Tissue Disorders:** **Frequent:** Muscle spasms, musculoskeletal stiffness, myalgia, neck pain, osteoarthritis, tendonitis. **Inrequent:** Arthritis, aseptic necrosis bone, bone pain, bone spur, bursitis, green pain, intervertebral disc degeneration, intervertebral disc protrusion, joint stiffness, joint swelling, localized osteoarthritis, monoarthritis, muscle contracture, muscle lightness, muscle twitching, osteoporosis, rotator cuff syndrome, sacroiliitis, synovitis.

**Neoplasms Benign, Malignant, and Unspecified:** **Inrequent:** Anaplastic thyroid cancer, angiosarcoma, basal cell carcinoma, breast cancer, gastric cancer, gastrointestinal stromal tumor, malignant melanoma, prostate cancer, skin papilloma, squamous cell carcinoma, uterine leiomyoma.

**Nervous System Disorders:** **Frequent:** Hypoesthesia, migraine. **Inrequent:** Amnesia, aphasia, ataxia, balance disorder, benign intracranial hypertension, burning sensation, carpal tunnel syndrome, disturbance in attention, dizziness postural, dysgeusia, dyskinesia, head discomfort, hyperesthesia, hypersomnia, lethargy, loss of consciousness, memory impairment, migraine with aura, migraine without aura, neuralgia, scotalgia, sinus headache, sleep apnea syndrome, syncope vasovagal, tension headache, transient ischemic attack, tremor.

**Psychiatric Disorders:** **Frequent:** Anxiety, depression, irritability, sleep disorder. **Inrequent:** Abnormal dreams, agitation, bruxism, confusional state, depressed mood, disorientation, early onset mania, manic depressive disorder, nasal polyps, respiratory tract congestion, rhinorrhea, sinus congestion, sneezing, wheezing, yawning.

**Renal and Urinary Disorders:** **Inrequent:** Dysuria, hematuria, hypertonic bladder, micturition disorder, nephrolithiasis, nocturia, pollakiuria, proteinuria, urinary retention.

**Reproductive System and Breast Disorders:** **Frequent:** Erectile dysfunction. **Inrequent:** Breast cyst, dysmenorrhea, menorrhagia, pelvic peritoneal adhesions, postmenopausal hemorrhage, premenstrual syndrome, prostatitis.

**Respiratory, Thoracic and Mediastinal Disorders:** **Frequent:** Asthma, pharyngolaryngeal pain. **Inrequent:** Dry throat, dyspnea, epistaxis, hemoptysis, hoarseness, interstitial lung disease, rhinomucosal disorder, nasal polyps, respiratory tract congestion, rhinorrhea, sinus congestion, sneezing, wheezing, yawning.

**Skin and Subcutaneous Tissue Disorders:** **Frequent:** Night sweats, rash. **Inrequent:** Acne, actinic keratosis, alopecia, cold sweat, dermatitis, dermatitis allergic, dermatitis contact, eczema, exanthem, face edema, photosensitivity reaction, pruritus, psoriasis, rash pruritic, skin lesion, urticaria.

**Vascular Disorders:** **Frequent:** Hot flush, hypertension, hypotension. **Inrequent:** Atherosclerosis, circulatory collapse, flushing, hematoma, thrombosis, varicose vein.

##### DRUG ABUSE AND DEPENDENCE

##### Controlled Substance Class

Ropinirole hydrochloride is not a controlled substance.

##### Physical and Psychological Dependence

Animal studies and human clinical trials with ropinirole hydrochloride did not reveal any potential for drug-seeking behavior or physical dependence.

##### OVERDOSAGE

Of patients who received a dose greater than 24 mg/day, reported symptoms included adverse events commonly reported during dopaminergic therapy (nausea, dizziness), as well as visual hallucinations, hyperhidrosis, claustrophobia, chorea, palpitations, asthenia, and nightmares. Additional symptoms reported for doses of 24 mg or less or for overdoses of unknown amount included vomiting, increased coughing, fatigue, syncope, vasovagal syncope, dyskinesia, agitation, chest pain, orthostatic hypotension, somnolence, and confusional state.

##### Overdose Management

It is anticipated that the symptoms of overdose with ropinirole hydrochloride will be related to its dopaminergic activity. General supportive measures are recommended. What signs should be maintained, if necessary. Removal of any unabsorbed material (e.g., by gastric lavage) should be considered.

##### DOSEAGE AND ADMINISTRATION

##### General Dosing Considerations for RLS

Ropinirole hydrochloride tablets can be taken with or without food. Patients may be advised that taking ropinirole hydrochloride tablets with food may reduce the occurrence of nausea. However, this has not been established in controlled clinical trials.

If a significant interruption in therapy with ropinirole hydrochloride has occurred, reinitiation of therapy may be warranted.

##### Geriatric Use

Pharmacokinetic studies demonstrated a reduced clearance of ropinirole in the elderly (see **CLINICAL PHARMACOLOGY**). Dose adjustment is not necessary since the dose is individually titrated to clinical response.

##### Renal Impairment

The pharmacokinetics of ropinirole were not altered in patients with moderate renal impairment (see **CLINICAL PHARMACOLOGY**). Therefore, no dosage adjustment is necessary in patients with moderate renal impairment. The use of ropinirole hydrochloride in patients with severe renal impairment has not been studied.

##### Hepatic Impairment

The pharmacokinetics of ropinirole have not been studied in patients with hepatic impairment. Since patients with hepatic impairment may have higher plasma levels and lower clearance, ropinirole hydrochloride should be titrated with caution in these patients.

##### Dosing for Restless Legs Syndrome

In all clinical trials, the dose for ropinirole hydrochloride was initiated at 0.25 mg once daily, 1 to 3 hours before bedtime. Patients were titrated based on clinical response and tolerability.

The recommended adult starting dosage for RLS is 0.25 mg once daily, 1 to 3 hours before bedtime. After 2 days, the dosage can be increased to 0.5 mg once daily and to 1 mg once daily at the end of the first week of dosing, then as shown in **Table 3** as needed to achieve efficacy. For RLS, the safety and effectiveness of doses greater than 4 mg once daily have not been established.

Table 3. Dose Titration Schedule for RLS	
Day/Week	Dosage to be taken once daily, 1 to 3 hours before bedtime
Days 1 and 2	0.25 mg
Days 3 to 7	0.5 mg
Week 2	1 mg
Week 3	1.5 mg
Week 4	2 mg
Week 5	2.5 mg
Week 6	3 mg
Week 7	4 mg

In clinical trials of patients being treated for RLS with doses up to 4 mg once daily, ropinirole hydrochloride was discontinued without a taper.

##### HOW SUPPLIED

Ropinirole hydrochloride tablets are supplied as follows:

0.25 mg are white, film-coated, convex, round tablets, debossed with "93" on one side and "5287" on the other side in bottles of 100 and 1000.

0.5 mg are yellow, film-coated, convex, round tablets, debossed with "93" on one side and "5283" on the other side in bottles of 100 and 1000.

1 mg are green, film-coated, convex, round tablets, debossed with "93" on one side and "5284" on the other side in bottles of 100 and 1000.

2 mg are pink, film-coated, convex, round tablets, debossed with "93" on one side and "5285" on the other side in bottles of 100 and 1000.

3 mg are purple, film-coated, convex, round tablets, debossed with "93" on one side and "5286" on the other side in bottles of 100.

4 mg are beige, film-coated, convex, round tablets, debossed with "93" on one side and "5287" on the other side in bottles of 100.

5 mg are blue, film-coated, convex, round tablets, debossed with "93" on one side and "5288" on the other side in bottles of 100.

**STORAGE**  
Protect from light and moisture. Close container tightly after each use.

Store at 20° to 25°C (68° to 77°F) (See USP Controlled Room Temperature).

Dispense in a light, light-resistant container as defined in the USP, with a child-resistant closure (as required).

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##### PATIENT INFORMATION

##### ROPINIROLE HYDROCHLORIDE TABLETS

##### Read only

Read this information completely before you start taking ropinirole hydrochloride. Read the information each time you get more medicine. There may be new information. This leaflet provides a summary about ropinirole hydrochloride. It does not include everything there is to know about your medicine. This information should not take the place of discussions with your doctor about your medical condition or ropinirole hydrochloride.

##### What is ropinirole hydrochloride?

Ropinirole hydrochloride tablet is a prescription medicine to treat primary moderate-to-severe Restless Legs Syndrome.

##### What is the most important information I should know about ropinirole hydrochloride?

- A lower dose of ropinirole hydrochloride is generally needed for patients with RLS, and is taken once daily before bedtime (see **How should I take ropinirole hydrochloride tablets for RLS?** for the recommended dosing).

- There are known side effects of ropinirole hydrochloride. If you fall asleep or feel very sleepy while doing normal activities such as driving, faint, feel dizzy, nauseated, or sweaty when you stand up from sitting or lying down, you should talk with your doctor (see **What are the possible side effects of ropinirole hydrochloride?**).

- Before starting ropinirole hydrochloride tablet, be sure to tell your doctor if you are taking any medicines that make you drowsy.

##### Who should not take ropinirole hydrochloride?

You should not take ropinirole hydrochloride tablets if you are allergic to the active ingredient ropinirole or to any of the inactive ingredients. Your doctor and pharmacist have a list of the inactive ingredients.

##### What should I tell my doctor?

Be sure to tell your doctor if:

- you are pregnant or plan to become pregnant.
- you are breast-feeding.
- you have daytime sleepiness from a sleep disorder other than RLS or have unexpected sleepiness or periods of sleep while taking ropinirole hydrochloride.
- you are taking any other prescription or over-the-counter medicines. Some of these medicines may increase your chances of getting side effects while taking ropinirole hydrochloride.

- you start or stop taking other medicines while you are taking ropinirole hydrochloride. This may increase your chances of getting side effects.

- you start or stop smoking while you are taking ropinirole hydrochloride. Smoking may decrease the treatment effect of ropinirole hydrochloride.

- you feel dizzy, nauseated, sweaty, or faint when you stand up from sitting or lying down.

- you drink alcoholic beverages. This may increase your chances of becoming drowsy or sleepy while taking ropinirole hydrochloride.

##### How should I take ropinirole hydrochloride tablets for RLS?

- Be sure to take ropinirole hydrochloride tablets exactly as directed by your doctor or healthcare provider.

- The usual way to take ropinirole hydrochloride tablets is once in the evening, 1 to 3 hours before bedtime.

- Your doctor will start you on a low dose of ropinirole hydrochloride tablets. Your doctor may change the dose until you are taking the amount of medicine that is right for you to control your symptoms.

- If you miss your dose, do not double your next dose.** Take only your usual dose 1 to 3 hours before your next bedtime.

- Contact your doctor, if you stop taking ropinirole hydrochloride tablets for any reason. Do not restart without consulting your doctor.

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- Store ropinirole hydrochloride at room temperature out of direct sunlight.

- Keep ropinirole hydrochloride in a tightly closed container.

This leaflet summarizes important information about ropinirole hydrochloride. Medicines are sometimes prescribed for purposes other than those listed in this leaflet. Do not take ropinirole hydrochloride for a condition for which it was not prescribed. For more information, talk with your doctor or pharmacist. They can give you information about ropinirole hydrochloride that is written for healthcare professionals.

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