

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use REQUIP safely and effectively. See full prescribing information for REQUIP.

REQUIP (ropinirole) tablets, for oral use

Initial U.S. Approval: 1997

INDICATIONS AND USAGE

REQUIP is a non-ergoline dopamine agonist indicated for the treatment of Parkinson's disease (PD) and moderate-to-severe primary Restless Legs Syndrome (RLS). (1.1, 1.2)

DOSAGE AND ADMINISTRATION

- REQUIP Tablets can be taken with or without food. (2.1)
- Retitration of REQUIP may be warranted if therapy is interrupted. (2.1)

Parkinson's Disease:

- The recommended starting dose is 0.25 mg taken three times daily; titrate to a maximum daily dose of 24 mg. (2.2)
- Renal Impairment: The maximum recommended dose is 18 mg/day in patients with end-stage renal disease on hemodialysis. (2.2)

Restless Legs Syndrome:

- The recommended starting dose is 0.25 mg once daily, 1 to 3 hours before bedtime, titrate to a maximum recommended dose of 4 mg daily. (2.3)
- Renal Impairment: The maximum recommended dose is 3 mg/day in patients with end-stage renal disease on hemodialysis. (2.3)

DOSAGE FORMS AND STRENGTHS

Tablets: 0.25 mg, 0.5 mg, 1 mg, 2 mg, 3 mg, 4 mg, and 5 mg (3)

CONTRAINDICATIONS

History of hypersensitivity/allergic reaction (including urticaria, angioedema, rash, pruritus) to ropinirole or to any of the excipients. (4)

WARNINGS AND PRECAUTIONS

- Sudden onset of sleep and somnolence may occur (5.1)

- Syncope may occur (5.2)
- Hypotension, including orthostatic hypotension may occur (5.3)
- May cause hallucinations and psychotic-like behaviors (5.4)
- May cause or exacerbate dyskinesia (5.5)
- May cause problems with impulse control or compulsive behaviors (5.6)

ADVERSE REACTIONS

Most common adverse reactions (incidence with REQUIP at least 5% greater than placebo) in the respective indications were:

- Early PD: Nausea, somnolence, dizziness, syncope, asthenic condition, viral infection, leg edema, vomiting, and dyspepsia. (6.1)
- Advanced PD: Dyskinesia, somnolence, nausea, dizziness, confusion, hallucinations, sweating, and headache. (6.1)
- RLS: Nausea, vomiting, somnolence, dizziness, and asthenic condition. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact GlaxoSmithKline at 1-888-825-5249 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Inhibitors or inducers of CYP1A2: May alter the clearance of REQUIP; dose adjustment of REQUIP may be required. (7.1, 12.3)
- Hormone replacement therapy (HRT): Starting or stopping HRT may require dose adjustment of REQUIP. (7.2, 12.3)
- Dopamine antagonists (e.g., neuroleptics, metoclopramide): May reduce efficacy of REQUIP. (7.3)

USE IN SPECIFIC POPULATIONS

Pregnancy: Based on animal data, may cause fetal harm. (8.1)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Parkinson's Disease

REQUIP is indicated for the treatment of Parkinson's disease.

1.2 Restless Legs Syndrome

REQUIP is indicated for the treatment of moderate-to-severe primary Restless Legs Syndrome (RLS).

2 DOSAGE AND ADMINISTRATION

2.1 General Dosing Recommendations

REQUIP can be taken with or without food [*see Clinical Pharmacology (12.3)*].

If a significant interruption in therapy with REQUIP has occurred, retitration of therapy may be warranted.

2.2 Dosing for Parkinson's Disease

The recommended starting dose of REQUIP for Parkinson's disease is 0.25 mg 3 times daily. Based on individual patient therapeutic response and tolerability, if necessary, the dose should then be titrated with weekly increments as described in Table 1. After Week 4, if necessary, the daily dose may be increased by 1.5 mg/day on a weekly basis up to a dose of 9 mg/day, and then by up to 3 mg/day weekly up to a maximum recommended total daily dose of 24 mg/day (8 mg 3 times daily). Doses greater than 24 mg/day have not been tested in clinical trials.

Table 1. Ascending-Dose Schedule of REQUIP for Parkinson's Disease

Week	Dosage	Total Daily Dose
1	0.25 mg 3 times daily	0.75 mg
2	0.5 mg 3 times daily	1.5 mg
3	0.75 mg 3 times daily	2.25 mg
4	1 mg 3 times daily	3 mg

REQUIP should be discontinued gradually over a 7-day period in patients with Parkinson's disease. The frequency of administration should be reduced from 3 times daily to twice daily for 4 days. For the remaining 3 days, the frequency should be reduced to once daily prior to complete withdrawal of REQUIP.

Renal Impairment

No dose adjustment is necessary in patients with moderate renal impairment (creatinine clearance of 30 to 50 mL/min). The recommended initial dose of ropinirole for patients with

end-stage renal disease on hemodialysis is 0.25 mg 3 times a day. Further dose escalations should be based on tolerability and need for efficacy. The recommended maximum total daily dose is 18 mg/day in patients receiving regular dialysis. Supplemental doses after dialysis are not required. The use of REQUIP in patients with severe renal impairment without regular dialysis has not been studied.

2.3 Dosing for Restless Legs Syndrome

The recommended adult starting dose for RLS is 0.25 mg once daily 1 to 3 hours before bedtime. After 2 days, if necessary, the dose 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 2 as needed to achieve efficacy. Titration should be based on individual patient therapeutic response and tolerability, up to a maximum recommended dose of 4 mg daily. For RLS, the safety and effectiveness of doses greater than 4 mg once daily have not been established.

Table 2. Dose Titration Schedule of REQUIP for Restless Legs Syndrome

Day/Week	Dose to be taken once daily 1 to 3 hours before bedtime
Days 1 and 2	0.25 mg
Days 3 - 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

When discontinuing REQUIP in patients with RLS, gradual reduction of the daily dose is recommended [*see Warnings and Precautions (5.9)*].

Renal Impairment

No dose adjustment is necessary in patients with moderate renal impairment (creatinine clearance of 30 to 50 mL/min). The recommended initial dose of ropinirole for patients with end-stage renal disease on hemodialysis is 0.25 mg once daily. Further dose escalations should be based on tolerability and need for efficacy. The recommended maximum total daily dose is 3 mg/day in patients receiving regular dialysis. Supplemental doses after dialysis are not required. The use of REQUIP in patients with severe renal impairment without regular dialysis has not been studied.

3 DOSAGE FORMS AND STRENGTHS

- 0.25-mg, white, film-coated tablet, imprinted with “SB” and “4890”

- 0.5-mg, yellow, film-coated tablet, imprinted with “SB” and “4891”
- 1-mg, green, film-coated tablet, imprinted with “SB” and “4892”
- 2-mg, pale yellowish-pink, film-coated tablet, imprinted with “SB” and “4893”
- 3-mg, pale to moderate reddish-purple, film-coated tablet, imprinted with “SB” and “4895”
- 4-mg, pale brown, film-coated tablet, imprinted with “SB” and “4896”
- 5-mg, blue, film-coated tablet imprinted with “SB” and “4894”

4 CONTRAINDICATIONS

REQUIP is contraindicated in patients known to have a hypersensitivity/allergic reaction (including urticaria, angioedema, rash, pruritus) to ropinirole or to any of the excipients.

5 WARNINGS AND PRECAUTIONS

5.1 Falling Asleep during Activities of Daily Living and Somnolence

Patients treated with REQUIP have reported falling asleep while engaged in activities of daily living, including driving or operating machinery, which sometimes resulted in accidents. Although many of these patients reported somnolence while on REQUIP, some perceived that they had no warning signs, such as excessive drowsiness, and believed that they were alert immediately prior to the event. Some have reported these events more than 1 year after initiation of treatment.

In controlled clinical trials, somnolence was commonly reported in patients receiving REQUIP and was more frequent in Parkinson’s disease (up to 40% REQUIP, 6% placebo) than in RLS (12% REQUIP, 6% placebo) [*see Adverse Reactions (6.1)*].

It has been reported that falling asleep while engaged in activities of daily living usually occurs in a setting of pre-existing somnolence, although patients may not give such a history. For this reason, prescribers should reassess patients for drowsiness or sleepiness, especially since some of the events occur well after the start of treatment. Prescribers should also be aware that patients may not acknowledge drowsiness or sleepiness until directly questioned about drowsiness or sleepiness during specific activities.

Before initiating treatment with REQUIP, patients should be advised of the potential to develop drowsiness and specifically asked about factors that may increase the risk with REQUIP such as concomitant sedating medications or alcohol, the presence of sleep disorders (other than RLS), and concomitant medications that increase ropinirole plasma levels (e.g., ciprofloxacin) [*see Drug Interactions (7.1)*]. If a patient develops significant daytime sleepiness or episodes of falling asleep during activities that require active participation (e.g., driving a motor vehicle, conversations, eating), REQUIP should ordinarily be discontinued [*see Dosage and Administration (2.2, 2.3)*]. If a decision is made to continue REQUIP, 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.

5.2 Syncope

Syncope, sometimes associated with bradycardia, was observed in association with treatment with REQUIP in both patients with Parkinson's disease and patients with RLS. In controlled clinical trials in patients with Parkinson's disease, syncope was observed more frequently in patients receiving REQUIP than in patients receiving placebo (early Parkinson's disease without levodopa [L-dopa]: REQUIP 12%, placebo 1%; advanced Parkinson's disease: REQUIP 3%, placebo 2%). Syncope was reported in 1% of patients treated with REQUIP for RLS in 12-week, placebo-controlled clinical trials compared with 0.2% of patients treated with placebo [*see Adverse Reactions (6.1)*]. Most cases occurred more than 4 weeks after initiation of therapy with REQUIP and were usually associated with a recent increase in dose.

Because the trials conducted with REQUIP excluded patients with significant cardiovascular disease, patients with significant cardiovascular disease should be treated with caution.

Approximately 4% of patients with Parkinson's disease enrolled in Phase 1 trials had syncope following a 1-mg dose of REQUIP. In 2 trials in patients with RLS that used a forced-titration regimen and orthostatic challenge with intensive blood pressure monitoring, 2% of RLS patients treated with REQUIP compared with 0% of patients receiving placebo reported syncope.

In Phase 1 trials including healthy volunteers, the incidence of syncope was 2%. Of note, 1 subject with syncope developed hypotension, bradycardia, and sinus arrest; the subject recovered spontaneously without intervention.

5.3 Hypotension/Orthostatic Hypotension

Patients with Parkinson's disease may have impaired ability to respond normally to a fall in blood pressure after standing from lying down or seated position. Patients on REQUIP should be monitored for signs and symptoms of orthostatic hypotension, especially during dose escalation, and should be informed of the risk for syncope and hypotension [*see Patient Counseling Information (17)*].

Although the clinical trials were not designed to systematically monitor blood pressure, there were individual reported cases of orthostatic hypotension in early Parkinson's disease (without L-dopa) in patients treated with REQUIP. Most of these cases occurred more than 4 weeks after initiation of therapy with REQUIP and were usually associated with a recent increase in dose.

In 12-week, placebo-controlled trials of patients with RLS, the adverse event orthostatic hypotension was reported by 4 of 496 patients (0.8%) treated with REQUIP compared with 2 of 500 patients (0.4%) receiving placebo.

In 2 Phase 2 trials in patients with RLS, 14 of 55 patients (25%) receiving REQUIP experienced an adverse event of hypotension or orthostatic hypotension compared with none of the 27 patients receiving placebo. In these trials, 11 of the 55 patients (20%) receiving REQUIP 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 20 mm Hg diastolic.

In Phase 1 trials of REQUIP with healthy volunteers who received single doses on more than one occasion without titration, 7% had documented symptomatic orthostatic hypotension. These episodes appeared mainly at doses above 0.8 mg, and these doses are higher than the starting doses recommended for patients with either Parkinson's disease or with RLS. In most of these individuals, the hypotension was accompanied by bradycardia but did not develop into syncope [*see Warnings and Precautions (5.2)*].

Although dizziness is not a specific manifestation of hypotension or orthostatic hypotension, patients with hypotension or orthostatic hypotension frequently reported dizziness. In controlled clinical trials, dizziness was a common adverse reaction in patients receiving REQUIP and was more frequent in patients with Parkinson's disease or with RLS receiving REQUIP than in patients receiving placebo (early Parkinson's disease without L-dopa: REQUIP 40%, placebo 22%; advanced Parkinson's disease: REQUIP 26%, placebo 16%; RLS: REQUIP 11%, placebo 5%). Dizziness of sufficient severity to cause trial discontinuation of REQUIP was 4% in patients with early Parkinson's disease without L-dopa, 3% in patients with advanced Parkinson's disease, and 1% in patients with RLS. [*See Adverse Reactions (6.1)*].

5.4 Hallucinations/Psychotic-Like Behavior

In double-blind, placebo-controlled, early-therapy trials in patients with Parkinson's disease who were not treated with L-dopa, 5.2% (8 of 157) of patients treated with REQUIP reported hallucinations, compared with 1.4% of patients on placebo (2 of 147). Among those patients receiving both REQUIP and L-dopa in advanced Parkinson's disease trials, 10.1% (21 of 208) were reported to experience hallucinations, compared with 4.2% (5 of 120) of patients treated with placebo and L-dopa.

The incidence of hallucination was increased in elderly patients (i.e., older than 65 years) treated with extended-release REQUIP [*see Use in Specific Populations (8.5)*].

Postmarketing reports indicate that patients may experience new or worsening mental status and behavioral changes, which may be severe, including psychotic-like behavior during treatment with REQUIP or after starting or increasing the dose of REQUIP. Other drugs prescribed to improve the symptoms of Parkinson's disease can have similar effects on thinking and behavior. This abnormal thinking and behavior can consist of one or more of a variety of manifestations including paranoid ideation, delusions, hallucinations, confusion, psychotic-like behavior, disorientation, aggressive behavior, agitation, and delirium.

Patients with a major psychotic disorder should ordinarily not be treated with REQUIP because of the risk of exacerbating the psychosis. In addition, certain medications used to treat psychosis may exacerbate the symptoms of Parkinson's disease and may decrease the effectiveness of REQUIP [*see Drug Interactions (7.3)*].

5.5 Dyskinesia

REQUIP may cause or exacerbate pre-existing dyskinesia in patients treated with L-dopa for Parkinson's disease.

In double-blind, placebo-controlled trials in advanced Parkinson's disease, dyskinesia was much more common in patients treated with REQUIP than in those treated with placebo. Among those patients receiving both REQUIP and L-dopa in advanced Parkinson's disease trials, 34% were reported to experience dyskinesia, compared with 13% of patients treated with placebo [*see Adverse Reactions (6.1)*].

Decreasing the dose of dopaminergic medications may ameliorate this adverse reaction.

5.6 Impulse Control/Compulsive Behaviors

Reports suggest that patients can experience intense urges to gamble, increased sexual urges, intense urges to spend money, binge or compulsive eating, and/or other intense urges, and the inability to control these urges while taking one or more of the medications, including REQUIP, that increase central dopaminergic tone and that are generally used for the treatment of Parkinson's disease and RLS. In some cases, although not all, these urges were reported to have stopped when the dose was reduced or the medication was discontinued. Because patients may not recognize these behaviors as abnormal, it is important for prescribers to specifically ask patients or their caregivers about the development of new or increased gambling urges, sexual urges, uncontrolled spending, binge or compulsive eating, or other urges while being treated with REQUIP. Physicians should consider dose reduction or stopping the medication if a patient develops such urges while taking REQUIP.

5.7 Withdrawal-Emergent Hyperpyrexia and Confusion

A symptom complex resembling the neuroleptic malignant syndrome (characterized by elevated temperature, muscular rigidity, altered consciousness, and autonomic instability), with no other obvious etiology, has been reported in association with rapid dose reduction of, withdrawal of, or changes in, dopaminergic therapy. Therefore, it is recommended that the dose be tapered at the end of treatment with REQUIP as a prophylactic measure [*see Dosage and Administration (2.2, 2.3)*].

5.8 Melanoma

Epidemiological studies have shown that patients with Parkinson's disease have a higher risk (2-fold to approximately 6-fold higher) of developing melanoma than the general population.

Whether the increased risk observed was due to Parkinson's disease or other factors, such as drugs used to treat Parkinson's disease, is unclear.

For the reasons stated above, patients and providers are advised to monitor for melanomas frequently and on a regular basis when using REQUIP for any indication. Ideally, periodic skin examinations should be performed by appropriately qualified individuals (e.g., dermatologists).

5.9 Augmentation and Early-Morning Rebound in Restless Legs Syndrome

Augmentation is a phenomenon in which dopaminergic medication causes a worsening of symptom severity above and beyond the level at the time the medication was started. The symptoms of augmentation may include the earlier onset of symptoms in the evening (or even the afternoon), increase in symptoms, and spread of symptoms to involve other extremities. Augmentation has been described during therapy for RLS. Rebound refers to new onset of symptoms in the early morning hours. Augmentation and/or early-morning rebound have been observed in a postmarketing trial of REQUIP. If augmentation or early-morning rebound occurs, the use of REQUIP should be reviewed and dosage adjustment or discontinuation of treatment should be considered. When discontinuing REQUIP in patients with RLS, gradual reduction of the daily dose is recommended whenever possible [*see Dosage and Administration 2.3*].

5.10 Fibrotic Complications

Cases of retroperitoneal 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 reactions are believed to be related to the ergoline structure of these compounds, whether other, non-ergot-derived dopamine agonists, such as ropinirole, can cause them is unknown.

Cases of possible fibrotic complications, including pleural effusion, pleural fibrosis, interstitial lung disease, and cardiac valvulopathy have been reported in the development program and postmarketing experience for ropinirole. While the evidence is not sufficient to establish a causal relationship between ropinirole and these fibrotic complications, a contribution of ropinirole cannot be excluded.

5.11 Retinal Pathology

Retinal degeneration was observed in albino rats in the 2-year carcinogenicity study at all doses tested. The lowest dose tested (1.5 mg/kg/day) is less than the maximum recommended human dose (MRHD) for Parkinson's disease (24 mg/day) on a mg/m² basis. Retinal degeneration was not observed in a 3-month study in pigmented rats, in a 2-year carcinogenicity study in albino mice, or in 1-year studies in monkeys or albino rats. The significance of this effect for humans has not been established, but involves disruption of a mechanism that is universally present in vertebrates (e.g., disk shedding).

Ocular electroretinogram assessments were conducted during a 2-year, double-blind, multicenter, flexible dose, L-dopa-controlled clinical trial of ropinirole in patients with Parkinson's disease; 156 patients (78 on ropinirole, mean dose: 11.9 mg/day, and 78 on L-dopa, mean dose: 555.2 mg/day) were evaluated for evidence of retinal dysfunction through electroretinograms. There was no clinically meaningful difference between the treatment groups in retinal function over the duration of the trial.

5.12 Binding to Melanin

Ropinirole binds to melanin-containing tissues (e.g., 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.

6 ADVERSE REACTIONS

The following adverse reactions are described in more detail in other sections of the label:

- Hypersensitivity [*see Contraindications (4)*]
- Falling asleep during activities of daily living and somnolence [*see Warnings and Precautions (5.1)*]
- Syncope [*see Warnings and Precautions (5.2)*]
- Hypotension/orthostatic hypotension [*see Warnings and Precautions (5.3)*]
- Hallucinations/psychotic-like behavior [*see Warnings and Precautions (5.4)*]
- Dyskinesia [*see Warnings and Precautions (5.5)*]
- Impulse control/compulsive behaviors [*see Warnings and Precautions (5.6)*]
- Withdrawal-emergent hyperpyrexia and confusion [*see Warnings and Precautions (5.7)*]
- Melanoma [*see Warnings and Precautions (5.8)*]
- Augmentation and early-morning rebound in RLS [*see Warnings and Precautions (5.9)*]
- Fibrotic complications [*see Warnings and Precautions (5.10)*]
- Retinal pathology [*see Warnings and Precautions (5.11)*]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared with rates in the clinical trials of another drug (or of another development program of a different formulation of the same drug) and may not reflect the rates observed in practice.

Parkinson's Disease

During the premarketing development of REQUIP, patients received REQUIP either without L-dopa (early Parkinson's disease trials) or as concomitant therapy with L-dopa (advanced

Parkinson’s disease trials). Because these 2 populations may have differential risks for various adverse reactions, this section will in general present adverse reaction data for these 2 populations separately.

Early Parkinson’s Disease (without L-dopa): In the double-blind, placebo-controlled trials in patients with early-stage Parkinson’s disease, the most commonly observed adverse reactions in patients treated with REQUIP (incidence at least 5% greater than placebo) were nausea, somnolence, dizziness, syncope, asthenic condition (i.e., asthenia, fatigue, and/or malaise), viral infection, leg edema, vomiting, and dyspepsia.

Approximately 24% of patients treated with REQUIP who participated in the double-blind, placebo-controlled early Parkinson’s disease (without L-dopa) trials discontinued treatment due to adverse reactions compared with 13% of patients who received placebo. The most common adverse reactions in patients treated with REQUIP (incidence at least 2% greater than placebo) of sufficient severity to cause discontinuation were nausea and dizziness.

Table 3 lists treatment-emergent adverse reactions that occurred in at least 2% of patients with early Parkinson’s disease (without L-dopa) treated with REQUIP participating in the double-blind, placebo-controlled trials and were numerically more common than the incidence for placebo-treated patients. In these trials, either REQUIP or placebo was used as early therapy (i.e., without L-dopa).

Table 3. Treatment-Emergent Adverse Reaction Incidence in Double-blind, Placebo-Controlled Early Parkinson’s Disease (without L-dopa) Trials (Events \geq 2% of Patients Treated with REQUIP and Numerically More Frequent than the Placebo Group)^a

Body System/Adverse Reaction	REQUIP (n = 157) (%)	Placebo (n = 147) (%)
Autonomic nervous system		
Flushing	3	1
Dry mouth	5	3
Increased sweating	6	4
Body as a whole		
Asthenic condition ^b	16	5
Chest pain	4	2
Dependent edema	6	3
Leg edema	7	1
Pain	8	4
Cardiovascular general		
Hypertension	5	3
Hypotension	2	0

Orthostatic symptoms	6	5
Syncope	12	1
Central/peripheral nervous system		
Dizziness	40	22
Hyperkinesia	2	1
Hypesthesia	4	2
Vertigo	2	0
Gastrointestinal		
Abdominal pain	6	3
Anorexia	4	1
Dyspepsia	10	5
Flatulence	3	1
Nausea	60	22
Vomiting	12	7
Heart rate/rhythm		
Extrasystoles	2	1
Atrial fibrillation	2	0
Palpitation	3	2
Tachycardia	2	0
Metabolic/nutritional		
Increased alkaline phosphatase	3	1
Psychiatric		
Amnesia	3	1
Impaired concentration	2	0
Confusion	5	1
Hallucination	5	1
Somnolence	40	6
Yawning	3	0
Reproductive male		
Impotence	3	1
Resistance mechanism		
Viral infection	11	3
Respiratory		
Bronchitis	3	1
Dyspnea	3	0
Pharyngitis	6	4
Rhinitis	4	3
Sinusitis	4	3
Urinary		
Urinary tract infection	5	4

Vascular extracardiac Peripheral ischemia	3	0
Vision		
Eye abnormality	3	1
Abnormal vision	6	3
Xerophthalmia	2	0

^a Patients may have reported multiple adverse reactions during the trial or at discontinuation; thus, patients may be included in more than one category.

^b Asthenic condition (i.e., asthenia, fatigue, and/or malaise).

Advanced Parkinson's Disease (with L-dopa): In the double-blind, placebo-controlled trials in patients with advanced-stage Parkinson's disease, the most commonly observed adverse reactions in patients treated with REQUIP (incidence at least 5% greater than placebo) were dyskinesia, somnolence, nausea, dizziness, confusion, hallucinations, increased sweating, and headache.

Approximately 24% of patients who received REQUIP in the double-blind, placebo-controlled advanced Parkinson's disease (with L-dopa) trials discontinued treatment due to adverse reactions compared with 18% of patients who received placebo. The most common adverse reaction in patients treated with REQUIP (incidence at least 2% greater than placebo) of sufficient severity to cause discontinuation was dizziness.

Table 4 lists treatment-emergent adverse reactions that occurred in at least 2% of patients with advanced Parkinson's disease (with L-dopa) treated with REQUIP who participated in the double-blind, placebo-controlled trials and were numerically more common than the incidence for placebo-treated patients. In these trials, either REQUIP or placebo was used as an adjunct to L-dopa.

Table 4. Treatment-Emergent Adverse Reaction Incidence in Double-blind, Placebo-Controlled Advanced Parkinson's Disease (with L-dopa) Trials (Events \geq 2% of Patients Treated with REQUIP and Numerically More Frequent than the Placebo Group)^a

Body System/Adverse Reaction	REQUIP (n = 208) (%)	Placebo (n = 120) (%)
Autonomic nervous system		
Dry mouth	5	1
Increased sweating	7	2
Body as a whole		
Increased drug level	7	3
Pain	5	3

Cardiovascular general		
Hypotension	2	1
Syncope	3	2
Central/peripheral nervous system		
Dizziness	26	16
Dyskinesia	34	13
Falls	10	7
Headache	17	12
Hypokinesia	5	4
Paresis	3	0
Paresthesia	5	3
Tremor	6	3
Gastrointestinal		
Abdominal pain	9	8
Constipation	6	3
Diarrhea	5	3
Dysphagia	2	1
Flatulence	2	1
Nausea	30	18
Increased saliva	2	1
Vomiting	7	4
Metabolic/nutritional		
Weight decrease	2	1
Musculoskeletal		
Arthralgia	7	5
Arthritis	3	1
Psychiatric		
Amnesia	5	1
Anxiety	6	3
Confusion	9	2
Abnormal dreaming	3	2
Hallucination	10	4
Nervousness	5	3
Somnolence	20	8
Red blood cell		
Anemia	2	0
Resistance mechanism		
Upper respiratory tract infection	9	8
Respiratory		
Dyspnea	3	2

Urinary		
Pyuria	2	1
Urinary incontinence	2	1
Urinary tract infection	6	3
Vision		
Diplopia	2	1

^a Patients may have reported multiple adverse reactions during the trial or at discontinuation; thus, patients may be included in more than one category.

Restless Legs Syndrome

In the double-blind, placebo-controlled trials in patients with RLS, the most commonly observed adverse reactions in patients treated with REQUIP (incidence at least 5% greater than placebo) were nausea, vomiting, somnolence, dizziness, and asthenic condition (i.e., asthenia, fatigue, and/or malaise).

Approximately 5% of patients treated with REQUIP who participated in the double-blind, placebo-controlled trials in the treatment of RLS discontinued treatment due to adverse reactions compared with 4% of patients who received placebo. The most common adverse reaction in patients treated with REQUIP (incidence at least 2% greater than placebo) of sufficient severity to cause discontinuation was nausea.

Table 5 lists treatment-emergent adverse reactions that occurred in at least 2% of patients with RLS treated with REQUIP participating in the 12-week, double-blind, placebo-controlled trials and were numerically more common than the incidence for placebo-treated patients.

Table 5. Treatment-Emergent Adverse Reaction Incidence in Double-blind, Placebo-Controlled Restless Legs Syndrome Trials (Events $\geq 2\%$ of Patients Treated with REQUIP and Numerically More Frequent than the Placebo Group)^a

Body System/Adverse Reaction	REQUIP (n = 496) (%)	Placebo (n = 500) (%)
Ear and labyrinth		
Vertigo	2	1
Gastrointestinal		
Nausea	40	8
Vomiting	11	2
Diarrhea	5	3
Dyspepsia	4	3
Dry mouth	3	2
Abdominal pain upper	3	1

General disorders and administration site conditions		
Asthenic condition ^b	9	4
Edema peripheral	2	1
Infections and infestations		
Nasopharyngitis	9	8
Influenza	3	2
Musculoskeletal and connective tissue		
Arthralgia	4	3
Muscle cramps	3	2
Pain in extremity	3	2
Nervous system		
Somnolence	12	6
Dizziness	11	5
Paresthesia	3	1
Respiratory, thoracic, and mediastinal		
Cough	3	2
Nasal congestion	2	1
Skin and subcutaneous tissue		
Hyperhidrosis	3	1

^a Patients may have reported multiple adverse reactions during the trial or at discontinuation; thus, patients may be included in more than one category.

^b Asthenic condition (i.e., asthenia, fatigue, and/or malaise).

7 DRUG INTERACTIONS

7.1 Cytochrome P450 1A2 Inhibitors and Inducers

In vitro metabolism studies showed that cytochrome P450 1A2 (CYP1A2) is the major enzyme responsible for the metabolism of ropinirole. There is thus the potential for inducers or inhibitors of this enzyme to alter the clearance of ropinirole. Therefore, if therapy with a drug known to be a potent inducer or inhibitor of CYP1A2 is stopped or started during treatment with REQUIP, adjustment of the dose of REQUIP may be required. Coadministration of ciprofloxacin, an inhibitor of CYP1A2, increases the AUC and C_{max} of ropinirole [see *Clinical Pharmacology (12.3)*]. Cigarette smoking is expected to increase the clearance of ropinirole since CYP1A2 is known to be induced by smoking [see *Clinical Pharmacology (12.3)*].

7.2 Estrogens

Population pharmacokinetic analysis revealed that higher doses of estrogens (usually associated with hormone replacement therapy) reduced the clearance of ropinirole. Starting or stopping hormone replacement therapy may require adjustment of dosage of REQUIP [see *Clinical Pharmacology (12.3)*].

7.3 Dopamine Antagonists

Because ropinirole is a dopamine agonist, it is possible that dopamine antagonists such as neuroleptics (e.g., phenothiazines, butyrophenones, thioxanthenes) or metoclopramide may reduce the efficacy of REQUIP.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no adequate data on the developmental risk associated with the use of REQUIP in pregnant women. In animal studies, ropinirole had adverse effects on development when administered to pregnant rats at doses similar to (neurobehavioral impairment) or greater than (teratogenicity and embryoletality at >36 times) the MRHD for Parkinson's disease. Ropinirole doses associated with teratogenicity and embryoletality in pregnant rats were associated with maternal toxicity. In pregnant rabbits, ropinirole potentiated the teratogenic effects of L-dopa when these drugs were administered in combination [*see Data*].

In the U.S. general population, the estimated background risk of major birth defects and of miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively. The background risk of major birth defects and miscarriage in the indicated populations is unknown.

Data

Animal Data: Oral administration of ropinirole (0, 20, 60, 90, 120, or 150 mg/kg/day) to pregnant rats during organogenesis resulted in embryoletality, increased incidence of fetal malformations (digit, cardiovascular, and neural tube defects) and variations, and decreased fetal weight at the 2 highest doses. These doses were also associated with maternal toxicity. The highest no-effect dose for adverse effects on embryofetal development (90 mg/kg/day) is approximately 36 times the MRHD for Parkinson's disease (24 mg/day) on a body surface area (mg/m²) basis.

No effect on embryofetal development was observed in rabbits when ropinirole was administered alone during organogenesis at oral doses of 0, 1, 5, or 20 mg/kg/day (up to 16 times the MRHD on a mg/m² basis). In pregnant rabbits, there was a greater incidence and severity of fetal malformations (primarily digit defects) when ropinirole (10 mg/kg/day) was administered orally during gestation in combination with L-dopa (250 mg/kg/day) than when L-dopa was administered alone. This drug combination was also associated with maternal toxicity.

Oral administration of ropinirole (0, 0.1, 1, or 10 mg/kg/day) to rats during late gestation and continuing throughout lactation resulted in neurobehavioral impairment (decreased startle response) and decreased body weight in offspring at the highest dose. The no-effect dose of 1 mg/kg/day is less than the MRHD on a mg/m² basis.

8.2 Lactation

Risk Summary

There are no data on the presence of ropinirole in human milk, the effects of ropinirole on the breastfed infant, or the effects of ropinirole on milk production. However, inhibition of lactation is expected because ropinirole inhibits secretion of prolactin in humans. Ropinirole or metabolites, or both, are present in rat milk.

The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for REQUIP and any potential adverse effects on the breastfed infant from ropinirole or from the underlying maternal condition.

8.4 Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

8.5 Geriatric Use

Dose adjustment is not necessary in elderly (65 years and older) patients, as the dose of REQUIP is individually titrated to clinical therapeutic response and tolerability. Pharmacokinetic trials conducted in patients demonstrated that oral clearance of ropinirole is reduced by 15% in patients older than 65 years compared with younger patients [*see Clinical Pharmacology (12.3)*].

In flexible-dose clinical trials of extended-release ropinirole for Parkinson's disease, 387 patients were 65 years and older and 107 patients were 75 years and older. Among patients receiving extended-release ropinirole, hallucination was more common in elderly patients (10%) compared with non-elderly patients (2%). In these trials, the incidence of overall adverse reactions increased with increasing age for both patients receiving extended-release ropinirole and placebo.

In the fixed-dose clinical trials of extended-release ropinirole, 176 patients were 65 years and older and 73 were 75 and older. Among patients with advanced Parkinson's disease receiving extended-release ropinirole, vomiting and nausea were more common in patients greater than 65 years (5% and 9%, respectively) compared with patients less than 65 (1% and 7%, respectively).

8.6 Renal Impairment

No dose adjustment is necessary in patients with moderate renal impairment (creatinine clearance of 30 to 50 mL/min). For patients with end-stage renal disease on hemodialysis, a reduced maximum dose is recommended [*see Dosage and Administration (2.2, 2.3), Clinical Pharmacology (12.3)*].

The use of REQUIP in patients with severe renal impairment (creatinine clearance <30 mL/min) without regular dialysis has not been studied.

8.7 Hepatic Impairment

The pharmacokinetics of ropinirole have not been studied in patients with hepatic impairment.

10 OVERDOSAGE

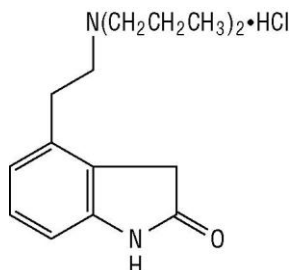
The symptoms of overdose with REQUIP are related to its dopaminergic activity. General supportive measures are recommended. Vital signs should be maintained, if necessary.

In clinical trials, there have been patients who accidentally or intentionally took more than their prescribed dose of ropinirole. The largest overdose reported with ropinirole in clinical trials was 435 mg taken over a 7-day period (62.1 mg/day). 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 in cases of overdose included vomiting, increased coughing, fatigue, syncope, vasovagal syncope, dyskinesia, agitation, chest pain, orthostatic hypotension, somnolence, and confusional state.

11 DESCRIPTION

REQUIP contains ropinirole, a non-ergoline dopamine agonist, as the hydrochloride salt. The chemical name of ropinirole hydrochloride is 4-[2-(dipropylamino)ethyl]-1,3-dihydro-2H-indol-2-one and the empirical formula is $C_{16}H_{24}N_2O \cdot HCl$. The molecular weight is 296.84 (260.38 as the free base).

The structural formula is:



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

Each pentagonal film-coated TILTAB tablet with beveled edges contains 0.29, 0.57, 1.14, 2.28, 3.42, 4.56, or 5.70 mg of ropinirole hydrochloride equivalent to ropinirole 0.25, 0.5, 1, 2, 3, 4, or 5 mg, respectively. Inactive ingredients consist of croscarmellose sodium, hydrous lactose, magnesium stearate, microcrystalline cellulose, and one or more of the following: carmine, FD&C Blue No. 2 aluminum lake, FD&C Yellow No. 6 aluminum lake, hypromellose, iron oxides, polyethylene glycol, polysorbate 80, titanium dioxide.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Ropinirole is a non-ergoline dopamine agonist. The precise mechanism of action of ropinirole as a treatment for Parkinson's disease is unknown, although it is thought to be related to its ability

to stimulate dopamine D₂ receptors within the caudate-putamen in the brain. The precise mechanism of action of ropinirole as a treatment for RLS is unknown, although it is thought to be related to its ability to stimulate dopamine receptors.

12.2 Pharmacodynamics

Clinical experience with dopamine agonists, including ropinirole, suggests an association with impaired ability to regulate blood pressure resulting in orthostatic hypotension, especially during dose escalation. In some patients in clinical trials, blood pressure changes were associated with the emergence of orthostatic symptoms, bradycardia, and, in one case in a healthy volunteer, transient sinus arrest with syncope [*see Warnings and Precautions (5.2, 5.3)*].

The mechanism of orthostatic hypotension induced by ropinirole is presumed to be due to a D₂-mediated blunting of the noradrenergic response to standing and subsequent decrease in peripheral vascular resistance. Nausea is a common concomitant symptom of orthostatic signs and symptoms.

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

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

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

12.3 Pharmacokinetics

Ropinirole displayed linear kinetics over the dosing range of 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.

Absorption

Ropinirole is rapidly absorbed after oral administration, reaching peak concentration in approximately 1 to 2 hours. In clinical trials, more than 88% of a radiolabeled dose was recovered in urine and the absolute bioavailability was 45% to 55%, indicating approximately 50% first-pass effect.

Relative bioavailability from a tablet compared with an oral solution is 85%. Food does not affect the extent of absorption of ropinirole, although its T_{max} is increased by 2.5 hours and its C_{max} is decreased by approximately 25% when the drug is taken with a high-fat meal.

Distribution

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

Metabolism

Ropinirole is extensively metabolized by the liver. The major metabolic pathways are N-despropylation and hydroxylation to form the inactive N-despropyl metabolite and hydroxy metabolites. The N-despropyl metabolite is converted to carbamyl glucuronide, carboxylic acid, and N-despropyl hydroxy metabolites. The hydroxy metabolite of ropinirole is rapidly glucuronidated.

In vitro studies indicate that the major cytochrome P450 enzyme involved in the metabolism of ropinirole is CYP1A2, an enzyme known to be induced by smoking and omeprazole and inhibited by, for example, fluvoxamine, mexiletine, and the older fluoroquinolones such as ciprofloxacin and norfloxacin.

Elimination

The clearance of ropinirole after oral administration is 47 L/h and its elimination half-life is approximately 6 hours. 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 glucuronide of the hydroxy metabolite (10%).

Specific Populations

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

Geriatric Patients: Oral clearance of ropinirole is reduced by 15% in patients older than 65 years compared with younger patients. Dosage adjustment is not necessary in the elderly (older than 65 years), as the dose of ropinirole is to be individually titrated to clinical response.

Male and Female Patients: Male and female patients showed similar clearance.

Racial or Ethnic Groups: 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 induced by smoking. In a trial in patients with RLS, smokers (n = 7) had an approximately 30% lower C_{max} and a 38% lower AUC than did nonsmokers (n = 11) when those parameters were normalized for dose.

Patients with Renal Impairment: Based on population pharmacokinetic analysis, no difference was observed in the pharmacokinetics of ropinirole in subjects with moderate renal impairment (creatinine clearance between 30 to 50 mL/min) compared with an age-matched population with

creatinine clearance above 50 mL/min. Therefore, no dosage adjustment is necessary in patients with moderate renal impairment.

A trial of ropinirole in subjects with end-stage renal disease on hemodialysis has shown that clearance of ropinirole was reduced by approximately 30%. The recommended maximum dose is lower in these patients [see *Dosage and Administration* (2.2, 2.3)].

The use of ropinirole in subjects with severe renal impairment (creatinine clearance <30 mL/min) without regular dialysis has not been studied.

Patients with Hepatic Impairment: The pharmacokinetics of ropinirole have not been studied in patients with hepatic impairment. Because ropinirole is extensively metabolized by the liver, these patients may have higher plasma levels and lower clearance of ropinirole than patients with normal hepatic function.

Other Diseases: Population pharmacokinetic analysis revealed no change in the clearance of ropinirole in patients with concomitant diseases such as hypertension, depression, osteoporosis/arthritis, and insomnia compared with patients with Parkinson's disease only.

Drug Interaction Studies

Digoxin: Coadministration of REQUIP (2 mg 3 times daily) with digoxin (0.125 to 0.25 mg once daily) did not alter the steady-state pharmacokinetics of digoxin in 10 patients.

Theophylline: Administration of theophylline (300 mg twice daily), a substrate of CYP1A2, did not alter the steady-state pharmacokinetics of ropinirole (2 mg 3 times daily) in 12 patients with Parkinson's disease. REQUIP (2 mg 3 times daily) did not alter the pharmacokinetics of theophylline (5 mg/kg intravenously) in 12 patients with Parkinson's disease.

Ciprofloxacin: Coadministration of ciprofloxacin (500 mg twice daily), an inhibitor of CYP1A2, with REQUIP (2 mg 3 times daily) increased ropinirole AUC by 84% on average and C_{max} by 60% (n = 12 patients).

Estrogens: Population pharmacokinetic analysis revealed that estrogens (mainly ethinylestradiol: intake 0.6 to 3 mg over 4-month to 23-year period) reduced the oral clearance of ropinirole by 36% in 16 patients.

L-dopa: Coadministration of carbidopa + L-dopa (10/100 mg twice daily) with REQUIP (2 mg 3 times daily) had no effect on the steady-state pharmacokinetics of ropinirole (n = 28 patients). Oral administration of REQUIP 2 mg 3 times daily increased mean steady-state C_{max} of L-dopa by 20%, but its AUC was unaffected (n = 23 patients).

Commonly Administered Drugs: Population analysis showed that commonly administered drugs (e.g., selegiline, amantadine, tricyclic antidepressants, benzodiazepines, ibuprofen, thiazides, antihistamines, anticholinergics) did not affect the clearance of ropinirole. An in vitro study indicates that ropinirole is not a substrate for P-glycoprotein. Ropinirole and its circulating

metabolites do not inhibit or induce P450 enzymes; therefore, ropinirole is unlikely to affect the pharmacokinetics of other drugs by a P450 mechanism.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

Two-year carcinogenicity studies of ropinirole were conducted in mice at oral doses of 0, 5, 15, and 50 mg/kg/day and in rats at oral doses of 0, 1.5, 15, and 50 mg/kg/day.

In rats, there was an increase in testicular Leydig cell adenomas at all doses tested. The lowest dose tested (1.5 mg/kg/day) is less than the MRHD for Parkinson's disease (24 mg/day) on a mg/m² basis. The endocrine mechanisms believed to be involved in the production of these tumors in rats are not considered relevant to humans.

In mice, there was an increase in benign uterine endometrial polyps at a dose of 50 mg/kg/day. The highest dose not associated with this finding (15 mg/kg/day) is 3 times the MRHD on a mg/m² basis.

Mutagenesis

Ropinirole was not mutagenic or clastogenic in in vitro (Ames, chromosomal aberration in human lymphocytes, mouse lymphoma *tk*) assays, or in the in vivo mouse micronucleus test.

Impairment of Fertility

When administered to female rats prior to and during mating and throughout pregnancy, ropinirole caused disruption of implantation at oral doses of 20 mg/kg/day (8 times the MRHD on a mg/m² basis) or greater. This effect in rats is thought to be due to the prolactin-lowering effect of ropinirole. In rat studies using a low oral dose (5 mg/kg) during the prolactin-dependent phase of early pregnancy (gestation days 0 to 8), ropinirole did not affect female fertility at oral doses up to 100 mg/kg/day (40 times the MRHD on a mg/m² basis). No effect on male fertility was observed in rats at oral doses up to 125 mg/kg/day (50 times the MRHD on a mg/m² basis).

14 CLINICAL STUDIES

14.1 Parkinson's Disease

The effectiveness of REQUIP in the treatment of Parkinson's disease was evaluated in a multinational drug development program consisting of 11 randomized, controlled trials. Four trials were conducted in patients with early Parkinson's disease and no concomitant L-dopa and 7 trials were conducted in patients with advanced Parkinson's disease with concomitant L-dopa.

Three placebo-controlled trials provide evidence of effectiveness of REQUIP in the management of patients with Parkinson's disease who were and were not receiving concomitant L-dopa. Two

of these 3 trials enrolled patients with early Parkinson’s disease (without L-dopa) and 1 enrolled patients receiving L-dopa.

In these trials a variety of measures were used to assess the effects of treatment (e.g., Unified Parkinson’s Disease Rating Scale [UPDRS], Clinical Global Impression [CGI] scores, patient diaries recording time “on” and “off,” tolerability of L-dopa dose reductions).

In both trials of patients with early Parkinson’s disease (without L-dopa), the motor component (Part III) of the UPDRS was the primary outcome assessment. The UPDRS is a multi-item rating scale intended to evaluate mentation (Part I), activities of daily living (Part II), motor performance (Part III), and complications of therapy (Part IV). Part III of the UPDRS contains 14 items designed to assess the severity of the cardinal motor findings in patients with Parkinson’s disease (e.g., tremor, rigidity, bradykinesia, postural instability) scored for different body regions and has a maximum (worst) score of 108. In the trial of patients with advanced Parkinson’s disease (with L-dopa), both reduction in percent awake time spent “off” and the ability to reduce the daily use of L-dopa were assessed as a combined endpoint and individually.

Trials in Patients with Early Parkinson’s Disease (without L-dopa)

Trial 1 was a 12-week multicenter trial in which 63 patients with idiopathic Parkinson’s disease receiving concomitant anti-Parkinson medication (but not L-dopa) were enrolled and 41 were randomized to REQUIP and 22 to placebo. Patients had a mean disease duration of approximately 2 years. Patients were eligible for enrollment if they presented with bradykinesia and at least tremor, rigidity, or postural instability. In addition, they must have been classified as Hoehn & Yahr Stage I-IV. This scale, ranging from I = unilateral involvement with minimal impairment to V = confined to wheelchair or bed, is a standard instrument used for staging patients with Parkinson’s disease. The primary outcome measure in this trial was the proportion of patients experiencing a decrease (compared with baseline) of at least 30% in the UPDRS motor score.

Patients were titrated for up to 10 weeks, starting at 0.5 mg twice daily, with weekly increments of 0.5 mg twice daily to a maximum of 5 mg twice daily. Once patients reached their maximally tolerated dose (or 5 mg twice daily), they were maintained on that dose through 12 weeks. The mean dose achieved by patients at trial endpoint was 7.4 mg/day. Mean baseline UPDRS motor score was 18.6 for patients treated with REQUIP and 19.9 for patients treated with placebo. At the end of 12 weeks, the percentage of responders was greater on REQUIP than on placebo and the difference was statistically significant (Table 6).

Table 6. Percent Responders for Unified Parkinson’s Disease Rating Scale Motor Score in Trial 1 (Intent-to-Treat Population)

	Responders	Difference from Placebo
Placebo	41%	NA
REQUIP	71%	30%

Trial 2 in patients with early Parkinson’s disease (without L-dopa) was a double-blind, randomized, placebo-controlled, 6-month trial. In this trial, 241 patients were enrolled and 116 were randomized to REQUIP and 125 to placebo. Patients were essentially similar to those in the trial described above; concomitant use of selegiline was allowed, but patients were not permitted to use anticholinergics or amantadine during the trial. Patients had a mean disease duration of 2 years and limited (not more than a 6-week period) or no prior exposure to L-dopa. The starting dosage of REQUIP in this trial was 0.25 mg 3 times daily. The dosage was titrated at weekly intervals by increments of 0.25 mg 3 times daily to a dosage of 1 mg 3 times daily. Further titrations at weekly intervals were at increments of 0.5 mg 3 times daily up to a dosage of 3 mg 3 times daily, and then weekly at increments of 1 mg 3 times daily. Patients were to be titrated to a dosage of at least 1.5 mg 3 times daily and then to their maximally tolerated dosage, up to a maximum of 8 mg 3 times daily. The mean dose attained in patients at trial endpoint was 15.7 mg/day.

The primary measure of effectiveness was the mean percent reduction (improvement) from baseline in the UPDRS motor score. At the end of the 6-month trial, patients treated with REQUIP showed improvement in motor score compared with placebo and the difference was statistically significant (Table 7).

Table 7. Mean Percentage Change from Baseline in Unified Parkinson’s Disease Rating Scale (UPDRS) Motor Score at End of Treatment in Trial 2 (Intent-to-Treat Population)

Treatment	Baseline UPDRS Motor Score	Mean Change from Baseline	Difference from Placebo
Placebo	17.7	+4%	NA
REQUIP	17.9	-22%	-26%

Trial in Patients with Advanced Parkinson’s Disease (with L-dopa)

Trial 3 was a double-blind, randomized, placebo-controlled, 6-month trial that randomized 149 patients (Hoehn & Yahr II-IV) who were not adequately controlled on L-dopa. Ninety-five patients were randomized to REQUIP and 54 were randomized to placebo. Patients in this trial had a mean disease duration of approximately 9 years, had been exposed to L-dopa for approximately 7 years, and had experienced “on-off” periods with L-dopa therapy. Patients previously receiving stable doses of selegiline, amantadine, and/or anticholinergic agents could continue on these agents during the trial. Patients were started at a dosage of 0.25 mg 3 times daily of REQUIP and titrated upward by weekly intervals until an optimal therapeutic response was achieved. The maximum dosage of trial medication was 8 mg 3 times daily. All patients had to be titrated to at least a dosage of 2.5 mg 3 times daily. Patients could then be maintained on this dosage level or higher for the remainder of the trial. Once a dosage of 2.5 mg 3 times daily was achieved, patients underwent a mandatory reduction in their L-dopa dosage, to be followed by additional mandatory reductions with continued escalation of the dosage of REQUIP. Reductions in the dosage of L-dopa were also allowed if patients experienced adverse reactions

that the investigator considered related to dopaminergic therapy. The mean dose attained at trial endpoint was 16.3 mg/day. The primary outcome was the proportion of responders, defined as patients who were able both to achieve a decrease (compared with baseline) of at least 20% in their L-dopa dosage and a decrease of at least 20% in the proportion of the time awake in the “off” condition (a period of time during the day when patients are particularly immobile), as determined by subject diary. In addition, the mean change in “off” time from baseline and the percent change from baseline in daily L-dopa dosage were examined.

At the end of 6 months, the percentage of responders was greater on REQUIP than on placebo and the difference was statistically significant (Table 8).

Based on the protocol-mandated reductions in L-dopa dosage with escalating doses of REQUIP, patients treated with REQUIP had a 19.4% mean reduction in L-dopa dosage while patients treated with placebo had a 3% reduction. Mean daily L-dopa dosage at baseline was 759 mg for patients treated with REQUIP and 843 mg for patients treated with placebo.

The mean number of daily “off” hours at baseline was 6.4 hours for patients treated with REQUIP and 7.3 hours for patients treated with placebo. At the end of the 6-month trial, there was a mean reduction of 1.5 hours of “off” time in patients treated with REQUIP and a mean reduction of 0.9 hours of “off” time in patients treated with placebo, resulting in a treatment difference of 0.6 hours of “off” time.

Table 8. Mean Responder Percentage of Patients Reducing Daily L-Dopa Dosage by at Least 20% and Daily Proportion of “Off” Time by at Least 20% at End of Treatment in Trial 3 (Intent-to-Treat Population)

Treatment	Responders	Difference from Placebo
Placebo	11%	NA
REQUIP	28%	17%

14.2 Restless Legs Syndrome

The effectiveness of REQUIP in the treatment of RLS was demonstrated in randomized, double-blind, placebo-controlled trials in adults diagnosed with RLS using the International Restless Legs Syndrome Study Group diagnostic criteria. Patients were required to have a history of 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, anemia) were excluded. All trials employed flexible dosing, with patients initiating therapy at 0.25 mg of REQUIP 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 variety of measures were used to assess the effects of treatment, including the IRLS scale and Clinical Global Impression-Global Improvement (CGI-I) 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 and mood associated with RLS. The range of scores is 0 to 40, with 0 being absence of RLS symptoms and 40 the most severe symptoms. Three of the controlled trials utilized the change from baseline in the IRLS scale at the Week 12 endpoint as the primary efficacy outcome.

Three hundred eighty patients were randomized to receive REQUIP (n = 187) or placebo (n = 193) in a U.S. trial (RLS-1); 284 were randomized to receive either REQUIP (n = 146) or placebo (n = 138) in a multinational trial (excluding U.S.) (RLS-2); and 267 patients were randomized to REQUIP (n = 131) or placebo (n = 136) in a multinational trial (including U.S.) (RLS-3). Across the 3 trials, the mean duration of RLS was 16 to 22 years (range: 0 to 65 years), mean age was approximately 54 years (range: 18 to 79 years), and approximately 61% were women. The mean dose at Week 12 was approximately 2 mg/day for the 3 trials.

At baseline, mean total IRLS score was 22.0 for REQUIP and 21.6 for placebo in RLS-1, 24.4 for REQUIP and 25.2 for placebo in RLS-2, and 23.6 for REQUIP and 24.8 for placebo in RLS-3. In all 3 trials, a statistically significant difference between the treatment group receiving REQUIP and the treatment group receiving placebo was observed at Week 12 for both 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-I (see Table 9).

Table 9. Mean Change in Total IRLS Rating Scale Score and Percent Responders on CGI-I

	REQUIP	Placebo	Difference from Placebo
Mean change in total IRLS scale score at Week 12			
RLS-1	-13.5	-9.8	-3.7
RLS-2	-11.0	-8.0	-3.0
RLS-3	-11.2	-8.7	-2.5
Percent responders on CGI-I at Week 12			
RLS-1	73.3%	56.5%	16.8%
RLS-2	53.4%	40.9%	12.5%
RLS-3	59.5%	39.6%	19.9%

IRLS = International Restless Legs Syndrome, CGI-I = Clinical Global Impression-Global Improvement, RLS = Restless Legs Syndrome.

Long-term maintenance of efficacy in the treatment of RLS was demonstrated in a 36-week trial. Following a 24-week, single-blind treatment phase (flexible dosages of REQUIP 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 relative to baseline) were randomized in double-blind fashion to placebo or continuation of REQUIP 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 REQUIP was

2 mg (range: 0.25 to 4 mg). Patients continued on REQUIP demonstrated a significantly lower relapse rate compared with patients randomized to placebo (32.6% versus 57.8%, $P = 0.0156$).

16 HOW SUPPLIED/STORAGE AND HANDLING

Each pentagonal film-coated TILTAB tablet with beveled edges contains ropinirole hydrochloride equivalent to the labeled amount of ropinirole as follows:

- 0.25 mg: white tablets imprinted with “SB” and “4890” in bottles of 100 (NDC 0007-4890-20)
- 0.5 mg: yellow tablets imprinted with “SB” and “4891” in bottles of 100 (NDC 0007-4891-20)
- 1 mg: green tablets imprinted with “SB” and “4892” in bottles of 100 (NDC 0007-4892-20)
- 2 mg: pale yellowish-pink tablets imprinted with “SB” and “4893” in bottles of 100 (NDC 0007-4893-20)
- 3 mg: pale to moderate reddish-purple tablets, imprinted with “SB” and “4895” in bottles of 100 (NDC 0007-4895-20)
- 4 mg: pale brown tablets imprinted with “SB” and “4896” in bottles of 100 (NDC 0007-4896-20)
- 5 mg: blue tablets imprinted with “SB” and “4894” in bottles of 100 (NDC 0007-4894-20)

Storage

Store at room temperature between 20°C and 25°C (68°F and 77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature]. Protect from light and moisture. Close container tightly after each use.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information).

Dosing Instructions

Instruct patients to take REQUIP only as prescribed. If a dose is missed, advise patients not to double their next dose. REQUIP can be taken with or without food [*see Dosage and Administration (2.1)*].

Ropinirole is the active ingredient in both REQUIP XL and REQUIP tablets (the immediate-release formulation). Ask your patients if they are taking another medication containing ropinirole.

Hypersensitivity/Allergic Reactions

Advise patients about the potential for developing a hypersensitivity/allergic reaction including manifestations such as urticaria, angioedema, rash, and pruritus when taking any ropinirole

product. Inform patients who experience these or similar reactions to immediately contact their healthcare professional [*see Contraindications (4)*].

Falling Asleep during Activities of Daily Living and Somnolence

Alert patients to the potential sedating effects caused by REQUIP, including somnolence and the possibility of falling asleep while engaged in activities of daily living. Because somnolence is a frequent adverse reaction with potentially serious consequences, patients should not drive a car, operate machinery, or engage in other potentially dangerous activities until they have gained sufficient experience with REQUIP to gauge whether or not it adversely affects their mental and/or motor performance. Advise patients that if increased somnolence or episodes of falling asleep during activities of daily living (e.g., conversations, eating, driving a motor vehicle) are experienced at any time during treatment, they should not drive or participate in potentially dangerous activities until they have contacted their physician.

Advise patients of possible additive effects when patients are taking other sedating medications, alcohol, or other central nervous system depressants (e.g., benzodiazepines, antipsychotics, antidepressants) in combination with REQUIP or when taking a concomitant medication (e.g., ciprofloxacin) that increases plasma levels of ropinirole [*see Warnings and Precautions (5.1)*].

Syncope and Hypotension/Orthostatic Hypotension

Advise patients that they may experience syncope and may develop hypotension with or without symptoms such as dizziness, nausea, syncope, and sometimes sweating while taking REQUIP, especially if they are elderly. Hypotension and/or orthostatic symptoms may occur more frequently during initial therapy or with an increase in dose at any time (cases have been seen after weeks of treatment). Postural/orthostatic symptoms may be related to sitting up or standing. Accordingly, caution patients against standing rapidly after sitting or lying down, especially if they have been doing so for prolonged periods and especially at the initiation of treatment with REQUIP [*see Warnings and Precautions (5.2, 5.3)*].

Hallucinations/Psychotic-Like Behavior

Inform patients that they may experience hallucinations (unreal visions, sounds, or sensations), and that other psychotic-like behavior can occur while taking REQUIP. The elderly are at greater risk than younger patients with Parkinson's disease. This risk is greater in patients who are taking REQUIP with L-dopa or taking higher doses of REQUIP and may also be further increased in patients taking any other drugs that increase dopaminergic tone. Tell patients to report hallucinations or psychotic-like behavior to their healthcare provider promptly should they develop [*see Warnings and Precautions (5.4)*].

Dyskinesia

Inform patients that REQUIP may cause and/or exacerbate pre-existing dyskinesias [*see Warnings and Precautions (5.5)*].

Impulse Control/Compulsive Behaviors

Advise patients that they may experience impulse control and/or compulsive behaviors while taking 1 or more of the medications (including REQUIP) that increase central dopaminergic tone, that are generally used for the treatment of Parkinson's disease. Advise patients to inform their physician or healthcare provider if they develop new or increased gambling urges, sexual urges, uncontrolled spending, binge or compulsive eating, or other urges while being treated with REQUIP. Physicians should consider dose reduction or stopping the medication if a patient develops such urges while taking REQUIP [see *Warnings and Precautions* (5.6)].

Withdrawal-Emergent Hyperpyrexia and Confusion

Advise patients to contact their healthcare provider if they wish to discontinue REQUIP or decrease the dose of REQUIP [see *Warnings and Precautions* (5.7)].

Melanoma

Advise patients with Parkinson's disease that they have a higher risk of developing melanoma. Advise patients to have their skin examined on a regular basis by a qualified healthcare provider (e.g., dermatologist) when using REQUIP for any indication [see *Warnings and Precautions* (5.8)].

Augmentation and Rebound

Inform patients with RLS that augmentation and/or rebound may occur after starting treatment with REQUIP [see *Warnings and Precautions* (5.9)].

Nursing Mothers

Because of the possibility that ropinirole may be excreted in breast milk, discuss the developmental and health benefits of breastfeeding along with the mother's clinical need for REQUIP and any potential adverse effects on the breastfed child from ropinirole or from the underlying maternal condition [see *Use in Specific Populations* (8.2)]. Advise patients that REQUIP could inhibit lactation because ropinirole inhibits prolactin secretion.

Pregnancy

Because experience with ropinirole in pregnant women is limited and ropinirole has been shown to have adverse effects on embryofetal development in animals, including teratogenic effects, advise patients of this potential risk. Advise patients to notify their physician if they become pregnant or intend to become pregnant during therapy [see *Use in Specific Populations* (8.1)].

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Research Triangle Park, NC 27709

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REP:7PI

PHARMACIST-DETACH HERE AND GIVE INSTRUCTIONS TO PATIENT

PATIENT INFORMATION

**REQUIP (RE-qwip)
(ropinirole) tablets**

**REQUIP XL (RE-qwip)
(ropinirole) extended-release tablets**

If you have Parkinson’s disease, read this side.

If you have Restless Legs Syndrome (RLS), read the other side.

Important Note: REQUIP XL has not been studied in RLS and is not approved for the treatment of RLS. However, an immediate-release form of ropinirole (REQUIP) is approved for the treatment of moderate to severe primary RLS (see other side of this leaflet).

What is the most important information I should know about REQUIP and REQUIP XL?

REQUIP and REQUIP XL can cause serious side effects, including:

- **Falling asleep during normal activities.** You may fall asleep while doing normal activities such as driving a car, doing physical tasks, or using hazardous machinery while taking REQUIP or REQUIP XL. You may suddenly fall asleep without being drowsy or without warning. This may result in having accidents. Your chances of falling asleep while doing normal activities while taking REQUIP or REQUIP XL are greater if you take other medicines that cause drowsiness. Tell your healthcare provider right away if this happens. Before starting REQUIP or REQUIP XL, be sure to tell your healthcare provider if you take any medicines that make you drowsy.
- **Fainting.** Fainting can happen, and sometimes your heart rate may be decreased. This can happen especially when you start taking REQUIP or REQUIP XL or your dose is increased. Tell your healthcare provider if you faint, feel dizzy, or feel light-headed.
- **Decrease in blood pressure.** REQUIP and REQUIP XL can decrease your blood pressure (hypotension), especially when you start taking REQUIP or REQUIP XL or when your dose is changed. If you faint or feel dizzy, nauseated, or sweaty when you stand up from sitting or lying down (orthostatic hypotension), this may mean that your blood pressure is decreased. When you change position from lying down or sitting to standing up, you should do it carefully and slowly. Call your healthcare provider if you have any of the symptoms of decreased blood pressure listed above.
- **Increase in blood pressure.** REQUIP XL may increase your blood pressure.
- **Changes in heart rate (decrease or increase).** REQUIP and REQUIP XL can decrease or increase your heart rate.
- **Hallucinations and other psychotic-like behavior.** REQUIP and REQUIP XL can cause or worsen psychotic-like behavior including hallucinations (seeing or hearing things that are not real), confusion, excessive suspicion, aggressive behavior, agitation, delusional beliefs (believing things that are not real), and disorganized thinking. The chances of having hallucinations or these other psychotic-like changes are higher in people with Parkinson’s disease who are taking REQUIP or REQUIP XL or taking higher doses of these drugs. If you have hallucinations or any of these other psychotic-like changes, talk with your healthcare provider.
- **Uncontrolled sudden movements.** REQUIP and REQUIP XL may cause uncontrolled sudden movements or make such movements you already have worse or more frequent. Tell your healthcare provider if this happens. The doses of your anti-Parkinson’s medicine may need to be changed.

- **Unusual urges.** Some patients taking REQUIP or REQUIP XL get urges to behave in a way unusual for them. Examples of this are an unusual urge to gamble, increased sexual urges and behaviors, or an uncontrollable urge to shop, spend money, or eat. If you notice or your family notices that you are developing any unusual behaviors, talk to your healthcare provider.
- **Increased chance of skin cancer (melanoma).** People with Parkinson's disease may have a higher chance of getting melanoma. It is not known if REQUIP and REQUIP XL increase your chances of getting melanoma. You and your healthcare provider should check your skin on a regular basis. Tell your healthcare provider right away if you notice any changes in your skin such as a change in the size, shape, or color of moles on your skin.

What are REQUIP and REQUIP XL?

- REQUIP is a short-acting prescription medicine containing ropinirole (usually taken 3 times a day) that is used to treat Parkinson's disease. It is also used to treat a condition called Restless Legs Syndrome (RLS).
- REQUIP XL is a long-acting prescription medicine containing ropinirole (taken 1 time a day) that is used only to treat Parkinson's disease but not to treat RLS.

Having one of these conditions does not mean you have or will develop the other condition.

You should not be taking more than 1 medicine containing ropinirole. Tell your healthcare provider if you are taking any other medicine containing ropinirole.

It is not known if REQUIP and REQUIP XL are safe and effective for use in children younger than 18 years of age.

Do not take REQUIP or REQUIP XL if you:

- are allergic to ropinirole or any of the ingredients in REQUIP or REQUIP XL. See the end of this page for a complete list of the ingredients in REQUIP and REQUIP XL.

Get help right away if any of the symptoms of an allergic reaction cause problems swallowing or breathing. Call your healthcare provider if you have any of the symptoms of an allergic reaction.

Symptoms of an allergic reaction may include:

- | | |
|--|-----------|
| • hives | • rash |
| • swelling of the face, lips, mouth, tongue, or throat | • itching |

Before taking REQUIP or REQUIP XL, tell your healthcare provider about all of your medical conditions, including if you:

- have daytime sleepiness from a sleep disorder or have unexpected or unpredictable sleepiness or periods of sleep.
- start or stop taking other medicines while you are taking REQUIP or REQUIP XL. This may increase your chances of getting side effects.
- start or stop smoking while you are taking REQUIP or REQUIP XL. Smoking may decrease the treatment effect of REQUIP or REQUIP XL.
- feel dizzy, nauseated, sweaty, or faint when you stand up from sitting or lying down.
- drink alcoholic beverages. This may increase your chances of becoming drowsy or sleepy while taking REQUIP or REQUIP XL.
- have high or low blood pressure.

- have or have had heart problems.
- are pregnant or plan to become pregnant. It is not known if REQUIP or REQUIP XL can harm your unborn baby.
- are breastfeeding or plan to breastfeed. It is not known if REQUIP or REQUIP XL passes into your breast milk. The amount of breast milk you make may be decreased while taking REQUIP or REQUIP XL. Talk to your healthcare provider to decide if you should breastfeed while taking REQUIP or REQUIP XL.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Some of these medicines may increase your chances of getting side effects while taking REQUIP or REQUIP XL.

How should I take REQUIP or REQUIP XL?

- Take REQUIP or REQUIP XL exactly as directed by your healthcare provider.
- Take REQUIP or REQUIP XL with or without food.
- **Do not** suddenly stop taking REQUIP or REQUIP XL without talking to your healthcare provider. If you stop this medicine suddenly, you may develop fever, confusion, or severe muscle stiffness.
- Before starting REQUIP or REQUIP XL, you should talk to your healthcare provider about what to do if you miss a dose. If you have missed the previous dose and it is time for your next dose, **do not double the dose.**
- Your healthcare provider will start you on a low dose of REQUIP or REQUIP XL. Your healthcare provider will change the dose until you are taking the right amount of medicine to control your symptoms. **It may take several weeks before you reach a dose that controls your symptoms.**
- Contact your healthcare provider if you stop taking REQUIP or REQUIP XL for any reason. Do not restart without talking with your healthcare provider.
- Your healthcare provider may prescribe REQUIP or REQUIP XL alone, or add REQUIP or REQUIP XL to medicine that you are already taking for Parkinson’s disease.
- You should not substitute REQUIP for REQUIP XL or REQUIP XL for REQUIP without talking with your healthcare provider.

If you are taking REQUIP:

- REQUIP tablets are usually taken 3 times a day for Parkinson’s disease.

If you are taking REQUIP XL:

- Take REQUIP XL extended-release tablets 1 time each day for Parkinson’s disease, preferably at or around the same time of day.
- Swallow REQUIP XL extended-release tablets whole. Do not chew, crush, or split REQUIP XL extended-release tablets.
- REQUIP XL extended-release tablets release drug over a 24-hour period. If you have a condition where medicine passes through your body too quickly, such as diarrhea, the tablet(s) may not dissolve completely and you may see tablet residue in your stool. If this happens, let your healthcare provider know as soon as possible.

What are the possible side effects of REQUIP and REQUIP XL?

REQUIP and REQUIP XL can cause serious side effects, including:

• **See “What is the most important information I should know about REQUIP and REQUIP XL?”**

The most common side effects of REQUIP and REQUIP XL include:

- fainting
- sleepiness or drowsiness
- hallucinations (seeing or hearing things that are not real)
- dizziness
- nausea or vomiting
- uncontrolled sudden movements
- upset stomach, abdominal pain or discomfort
- fatigue, tiredness, or weakness
- confusion
- headache
- leg swelling
- increased sweating
- constipation
- suddenly falling asleep
- high blood pressure (hypertension)

Tell your healthcare provider about any side effect that bothers you or that does not go away.

These are not all of the possible side effects with REQUIP and REQUIP XL. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store REQUIP or REQUIP XL?

- Store REQUIP or REQUIP XL at room temperature between 68°F and 77°F (20°C and 25°C).
- Keep REQUIP or REQUIP XL in a tightly closed container and out of direct sunlight.

Keep REQUIP or REQUIP XL and all medicines out of the reach of children.

General information about the safe and effective use of REQUIP or REQUIP XL.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use REQUIP or REQUIP XL for a condition for which it was not prescribed. Do not give REQUIP or REQUIP XL to other people, even if they have the same symptoms that you have. It may harm them. You can ask your pharmacist or healthcare provider for information about REQUIP or REQUIP XL that is written for health professionals.

What are the ingredients in REQUIP and REQUIP XL?

The following ingredients are in REQUIP:

Active ingredient: ropinirole (as ropinirole hydrochloride)

Inactive ingredients: croscarmellose sodium, hydrous lactose, magnesium stearate, microcrystalline cellulose, and one or more of the following: carmine, FD&C Blue No. 2 aluminum lake, FD&C Yellow No. 6 aluminum lake, hypromellose, iron oxides, polyethylene glycol, polysorbate 80, titanium dioxide.

The following ingredients are in REQUIP XL:

Active ingredient: ropinirole (as ropinirole hydrochloride)

Inactive ingredients: carboxymethylcellulose sodium, colloidal silicon dioxide, glycerol behenate, hydrogenated castor oil, hypromellose, lactose monohydrate, magnesium stearate, maltodextrin, mannitol, povidone, and one or more of the following: FD&C Yellow No. 6 aluminum lake, FD&C Blue No.2 aluminum lake, ferric oxides (black, red, yellow), polyethylene glycol 400, titanium dioxide.

PATIENT INFORMATION

**REQUIP (RE-qwip)
(ropinirole) tablets**

If you have Restless Legs Syndrome (RLS), read this side.

If you have Parkinson’s disease, read the other side.

Important Note: REQUIP XL has not been studied in RLS and is not approved for the treatment of RLS.

People with RLS should take REQUIP differently than people with Parkinson's disease (see "**How should I take REQUIP for RLS?**") for the recommended dosing for RLS). A lower dose of REQUIP is generally needed for people with RLS, and is taken once daily before bedtime.

What is the most important information I should know about REQUIP?

REQUIP can cause serious side effects, including:

- **Falling asleep during normal activities.** You may fall asleep while doing normal activities such as driving a car, doing physical tasks, or using hazardous machinery while taking REQUIP. You may suddenly fall asleep without being drowsy or without warning. This may result in having accidents. Your chances of falling asleep while doing normal activities while taking REQUIP are greater if you take other medicines that cause drowsiness. Tell your healthcare provider right away if this happens. Before starting REQUIP, be sure to tell your healthcare provider if you take any medicines that make you drowsy.
- **Fainting.** Fainting can happen, and sometimes your heart rate may be decreased. This can happen especially when you start taking REQUIP or your dose is increased. Tell your healthcare provider if you faint, feel dizzy, or feel light-headed.
- **Decrease in blood pressure.** REQUIP can decrease your blood pressure (hypotension), especially when you start taking REQUIP or when your dose is changed. If you faint or feel dizzy, nauseated, or sweaty when you stand up from sitting or lying down (orthostatic hypotension), this may mean that your blood pressure is decreased. When you change position from lying down or sitting to standing up, you should do it carefully and slowly. Call your healthcare provider if you have any of the symptoms of decreased blood pressure listed above.
- **Hallucinations and other psychotic-like behavior.** REQUIP can cause or worsen psychotic-like behavior including hallucinations (seeing or hearing things that are not real), confusion, excessive suspicion, aggressive behavior, agitation, delusional beliefs (believing things that are not real), and disorganized thinking. If you have hallucinations or any of these other psychotic-like changes, talk with your healthcare provider.
- **Unusual urges.** Some patients taking REQUIP get urges to behave in a way unusual for them. Examples of this are an unusual urge to gamble, increased sexual urges and behaviors, or an uncontrollable urge to shop, spend money, or eat. If you notice or your family notices that you are developing any unusual behaviors, talk to your healthcare provider.
- **Increased chance of skin cancer (melanoma).** It is not known if REQUIP increases your chance of getting melanoma. You and your healthcare provider should check your skin on a regular basis. Tell your healthcare provider right away if you notice any changes in your skin such as a change in the size, shape, or color of moles on your skin.
- **Changes in RLS symptoms.** REQUIP may cause RLS symptoms to come back in the morning (rebound), happen earlier in the evening, or even happen in the afternoon.

What is REQUIP?

REQUIP is a prescription medicine containing ropinirole used to treat moderate-to-severe primary RLS. It is also used to treat Parkinson's disease.

Having one of these conditions does not mean you have or will develop the other condition.

You should not be taking more than 1 medicine containing ropinirole. Tell your healthcare provider if you are taking any other medicine containing ropinirole.

It is not known if REQUIP is safe and effective for use in children younger than 18 years of age.

Do not take REQUIP if you:

- are allergic to ropinirole or any of the ingredients in REQUIP. See the end of this page for a complete list of the ingredients in REQUIP.
- Get help right away if any of the symptoms of an allergic reaction cause problems swallowing or breathing. Call your healthcare provider if you have any of the symptoms of an allergic reaction. Symptoms of an allergic reaction may include:
 - hives
 - rash
 - swelling of the face, lips, mouth, tongue, or throat
 - itching

Before taking REQUIP, tell your healthcare provider about all of your medical conditions, including if you:

- have daytime sleepiness from a sleep disorder or have unexpected or unpredictable sleepiness or periods of sleep.
- start or stop taking other medicines while you are taking REQUIP. This may increase your chances of getting side effects.
- start or stop smoking while you are taking REQUIP. Smoking may decrease the treatment effect of REQUIP.
- feel dizzy, nauseated, sweaty, or faint when you stand up from sitting or lying down.
- drink alcoholic beverages. This may increase your chances of becoming drowsy or sleepy while taking REQUIP.
- have high or low blood pressure.
- have or have had heart problems.
- are pregnant or plan to become pregnant. It is not known if REQUIP can harm your unborn baby.
- are breastfeeding or plan to breastfeed. It is not known if REQUIP passes into your breast milk. The amount of breast milk you make may be decreased while taking REQUIP. Talk to your healthcare provider to decide if you should breastfeed while taking REQUIP.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Some of these medicines may increase your chances of getting side effects while taking REQUIP.

How should I take REQUIP?

- Take REQUIP exactly as directed by your healthcare provider.
- REQUIP tablets are usually taken once in the evening, 1 to 3 hours before bedtime.
- Take REQUIP with or without food.
- **Do not** suddenly stop taking REQUIP without talking to your healthcare provider. If you stop this medicine suddenly, you may develop fever, confusion, or severe muscle stiffness.
- Your healthcare provider will start you on a low dose of REQUIP. Your healthcare provider may change the dose until you are taking the right amount of medicine 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 healthcare provider if you stop taking REQUIP for any reason. Do not restart without talking with your healthcare provider.

What are the possible side effects of REQUIP?

REQUIP can cause serious side effects, including:

- See “What is the most important information I should know about REQUIP?”

The most common side effects of REQUIP include:

- nausea or vomiting
- drowsiness or sleepiness
- dizziness
- fatigue, tiredness, or weakness

Tell your healthcare provider about any side effect that bothers you or that does not go away.

These are not all of the possible side effects with REQUIP. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store REQUIP?

- Store REQUIP at room temperature between 68°F and 77°F (20°C and 25°C).
- Keep REQUIP in a tightly closed container and out of direct sunlight.

Keep REQUIP and all medicines out of the reach of children.

General information about the safe and effective use of REQUIP.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use REQUIP for a condition for which it was not prescribed. Do not give REQUIP to other people, even if they have the same symptoms that you have. It may harm them.

You can ask your pharmacist or healthcare provider for information about REQUIP that is written for health professionals.

What are the ingredients in REQUIP?

Active ingredient: ropinirole (as ropinirole hydrochloride)

Inactive ingredients: croscarmellose sodium, hydrous lactose, magnesium stearate, microcrystalline cellulose, and one or more of the following: carmine, FD&C Blue No. 2 aluminum lake, FD&C Yellow No. 6 aluminum lake, hypromellose, iron oxides, polyethylene glycol, polysorbate 80, titanium dioxide.



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This Patient Information has been approved by the U.S. Food and Drug Administration

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