Ø a	Project: CO-0034378	Document: PPC-3201096	Version: 2
e-Banner	Site Code: 6200000055411	Operator: RND43811	Date/Time Created: 10.Nov.2020 17:50 GMT

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	Manufacturing Site(s): GSK ARANDA SPAIN				
	Product Market Trade Name: Requip				
Approving Market(s): CFUN-GRA Labelling-General Export Pack					
	Print Process: N/A	<u> </u>			
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Parkinson's Disease

- QUALITATIVE AND QUANTITATIVE COMPOSITION Each immediate release tablet contains ropinirole hydrochloride equivalent to 0.25 mg, 0.5 mg,
- 1.0 mg, 2.0 mg or 5.0 mg ropinirole free base.

CLINICAL INFORMATION

- Indications REQUIP is indicated for the treatment of idiopathic Parkinson's disease:
- · REQUIP may be used alone (without levodopa [L-Dopa]) in the treatment of idiopathic
- Parkinson's disease Addition of REQUIP to levodopa may be used to control "on-off" fluctuations and permit a
- reduction in the total daily dose of L-Dopa. Dosage and Administration

Pharmaceutical Form:

Film-coated, pentagonal-shaped tablets for oral administration. The tablet strengths are distinguished by colour and debossing

- 0.25 mg: white, pentagonal-shaped, film-coated tablets marked "SB" on one side and "4890" on the other
- $0.5~\mbox{mg:}$ yellow, pentagonal-shaped, film-coated tablets marked "SB" on one side and "4891" on the other.
- 1.0 mg: green, pentagonal-shaped, film-coated tablets marked "SB" on one side and "4892" on the other.
- 2.0 mg; pink, pentagonal-shaped, film-coated tablets marked "SB" on one side and "4893" on the other
- 5.0 mg: blue, pentagonal-shaped, film-coated tablets marked "SB" on one side and "4894" on the other
- When switching treatment from another dopamine agonist to REQUIP, the manufacturer's guidance on discontinuation should be followed before initiating REQUIP.
- Individual dose titration against efficacy and tolerability is recommended

Patients should be down-titrated if they experience disabling somnolence at any dose level. For other adverse events, down-titration followed by more gradual up-titration has been shown to be beneficial.

Adults

REQUIP should be taken three times a day and may be taken with or without food (see Pharmacokinetics)

Treatment initiation: The initial dose should be 0.25 mg t.i.d (three times a day). A guide for the titration regimen for the first four weeks of treatment is given in the table below

•		-				
		Week				
	1	2	3	4		
Unit dose (mg)	0.25	0.5	0.75	1.0		
T	0.75		0.05			

Total daily dose (mg) 0.75 1.5 2.25 3.0 Therapeutic regimen: After the initial titration, weekly increments of up to 3 mg/day may be given. REQUIP is usually given in divided doses three times per day.

A therapeutic response may be seen between 3 mg and 9 mg/day, although adjunct therapy patients may require higher doses.

If sufficient symptomatic control is not achieved or maintained after the initial titration period, as described above, the dose of REQUIP may be increased until an acceptable therapeutic response is established

The safety and efficacy of doses above 24 mg/day have not been established and this dose should not be exceeded.

When REQUIP is given as adjunct therapy to L-dopa, it may be possible to reduce gradually the L-dopa dose, depending on the clinical response. In clinical trials, the L-dopa dose was reduced gradually by approximately 20% in patients receiving ropinirole concurrently.

In patients with advanced Parkinson's disease receiving REQUIP in combination with L-dopa. dyskinesias can occur during the initial titration of REQUIP. In clinical trials it was shown that a reduction of the L-dopa dose may ameliorate dyskinesia (see Adverse Reactions).

As with other dopamine agonists, REQUIP should be discontinued gradually by reducing the number of daily doses over the period of one week (see Warnings and Precaution If treatment is interrupted for one day or more, re-initiation by dose titration should be

considered (see above).

Elderly

The clearance of ropinirole is decreased in patients aged 65 years or above, but the dose of REQUIP for elderly patients can be titrated in the normal manne

Children and Adolescents

The safety and efficacy of ropinirole have not been established in patients under 18 years of age; therefore, REQUIP is not recommended for use in patients within this age group

Renal impairment

In patients with mild to moderate renal impairment (creatinine clearance 30 - 50 mL/min) no change in the clearance of ropinirole was observed, indicating that no dosage adjustment is necessary in this population.

A study into the use of ropinirole in patients with end stage renal disease (patients or haemodialysis) has shown that a dose adjustment in these natients is required as follows: The initial dose of REQUIP should be 0.25 mg three times a day. Further dose escalations should

The minut does on tolerability and efficacy. The recommended maximum dose is 18 mg/day in patients receiving regular dialysis.

Supplemental doses after dialysis are not required. The use of ropinirole in patients with severe renal im



In some ropinirole cases, other factors were present such as a history of compulsive behaviours or concurrent dopaminergic treatment.

The dose of ropinirole should be reduced gradually when discontinuing treatment (see Dosage and Administration). Non-motor adverse effects may occur when tapering or discontinuing dopamine agonists, including ropinirole. Symptoms include insomnia, apathy, anxiety, depression, fatigue, sweating and pain which may be severe. Patients should be informed about this before dose reduction and monitored regularly thereafter. In case of persistent symptoms, it may be necessary to increase the ropinirole dose temporarily (see Adverse Reactions).

Interactions

Neuroleptics and other centrally active dopamine antagonists, such as sulpiride or metoclopramide, may diminish the effectiveness of ropinirole and, therefore, concomitant use of these drugs with REQUIP should be avoided.

There is no pharmacokinetic interaction between ropinirole and L-dopa or domperidone which would necessitate dosage adjustment of these drugs. No interaction has been seen between ropinirole and other drugs commonly used to treat Parkinson's disease.

In a study in parkinsonian patients receiving concurrent digoxin, no interaction was seen which would require dosage adjustment.

Ropinirole is principally metabolised by the cytochrome P450 enzyme CYP1A2. A pharmacokinetic study in Parkinson's patients revealed that ciprofloxacin increased the C_{max} and AUC of ropinirole by approximately 60% and 84% respectively. Hence, in patients already receiving REQUIP, the dose of REQUIP may need to be adjusted when drugs known to inhibit CYP1A2, e.g. ciprofloxacin, enoxacin or fluvoxamine, are introduced or withdrawn. A pharmacokinetic interaction study in Parkinson's patients between ropinirole and theophylline. as representative of substrates of CYP1A2, revealed no change in the pharmacokinetics of either ropinirole or theophylline. Hence, changes in ropinirole pharmacokinetics following

co-administration with other substrates of CYP1A2 are not expected. Increased plasma concentrations of ropinirole have been observed in patients treated with high doses of oestrogens. In patients already receiving hormone replacement therapy (HRT), REQUIP treatment may be initiated in the normal manner. However, if HRT is stopped or introduced during treatment with REQUIP, dosage adjustment may be required.

No information is available on the potential for interaction between ropinirole and alcohol. As with other centrally active medications, patients should be cautioned against taking REQUIP with alcohol. Smoking is known to induce CYP1A2 metabolism, therefore if patients stop or start smoking during treatment with REQUIP, adjustment of dose may be required.

Pregnancy and Lactation

Fertility

There are no data on the effects of ropinirole on human fertility. In female fertility studies in rats, effects were seen on implantation (see Non-Clinical Information). No effects were seen on male fertility in rats.

Pregnancy

There are no adequate and well-controlled studies of ropinirole in pregnant women. Ropinirole concentrations may gradually increase during pregnancy (see Pharmacokinetics). Studies in animals have shown embryo-foetal toxicity (see Non-Clinical Information). It is recommended that REQUIP is not used during pregnancy unless the potential benefit to the patient outweighs the potential risk to the foetus.

Lactation

There are no data regarding the excretion of ropinirole in human milk. Ropinirole has been detected in rat milk (see Non-Clinical Information). REQUIP should not be used in nursing mothers as it may inhibit lactation.

Effects on Ability to Drive and Use Machines

No data are available on the effect of ropinirole on the ability to drive or use machinery. Patients should be cautioned about their ability to drive or operate machinery whilst taking REQUIP because of the possibility of somnolence and of dizziness (including vertigo). Patients should be informed about the possibility of sudden onset of sleep without any prior warning or apparent daytime somnolence (see Adverse Reactions), which has primarily been observed in patients with Parkinson's disease, and should be cautioned that their safety and that

of others is at risk should this happen when driving or operating machinery. If patients develop significant daytime sleepiness or episodes of falling asleep during activities that require active participation, patients should be told not to drive and to avoid other potentially dangerous activities Adverse Reactions

Adverse reactions are tabulated below according to the indication. The overall safety profile of ropinirole comprises adverse reactions from all indications from clinical trial data and from post-marketing experience.

Adverse events are listed below by system organ class and frequency. Frequencies are defined as: very common (≥1/10), common (≥1/100, <1/10), uncommon (≥1/1,000, <1/100), rare (≥1/10,000, <1/1,000), very rare (<1/10,000), including isolated reports

Clinical Trial Data The tables below list the adverse drug reactions reported at a higher rate with ropinirole than placebo or a higher or comparable rate to comparator in clinical trials

Adverse Drug Reactions Reported from Patients with Parkinson's Disease

Unless otherwise indicated, the data in the following table was observed with both immediate release and prolonged release formulations.

	Use in monotherapy studies	Use in adjunct therapy studies:
Psychiatric disorde	rs	
Common	Hallucinations	Hallucinations, confusion ¹
Nervous system dis	orders	
Very common	Somnolence, syncope1	Dyskinesia ³
Common	Dizziness (including vertigo), sudden onset of sleep ²	Somnolence ² , dizziness (including vertigo), sudden onset of sleep ²
Vascular disorders		
Common		Postural hypotension ² , hypotension ²
Uncommon	Postural hypotension ² , hypotension ²	
Gastrointestinal dis	orders	
Very common	Nausea	
Common	Abdominal pain ¹ , vomiting ¹ , dyspepsia ¹ , constipation ²	Nausea, constipation ²
General disorders a	nd administrative site conditions	
Common	Oedema peripheral (including leg oedema)	Oedema peripheral ²
1 Immediate release c	linical trials data	



PHARMA CODE N° 7633

to advise SDC when changes required impact the following:

Formulation **Tablet embossing** Storage conditions **Shelf Life**

NOTE TO MARKET

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30 mL/min) without regular dialysis has not been studied

Hepatic impairment

The use of ropinirole in patients with hepatic impairment has not been studied. Administration of REQUIP to such patients is not recommended.

Contraindications

Hypersensitivity to ropinirole or to any of the excipients.

Warnings and Precautions

Due to the pharmacological action of ropinirole, patients with severe cardiovascular disease should be treated with caution.

Co-administration of ropinirole with anti-hypertensive and anti-arrhythmic agents has not been studied. As with other dopaminergic drugs, caution should be exercised when these compounds are given concomitantly with REQUIP because of the unknown potential for the occurrence of hypotension, bradycardias or other arrhythmias.

Patients with a history or presence of, major psychotic disorders should only be treated with dopamine agonists if the potential benefits outweigh the risks.

Impulse control symptoms including compulsive behaviours (including pathological gambling, hypersexuality, compulsive shopping and binge eating) and mania have been reported in patients treated with dopaminergic agents, including ropinirole (see Adverse Reactions - Post Marketing Data). These were generally reversible upon dose reduction or treatment discontinuation.

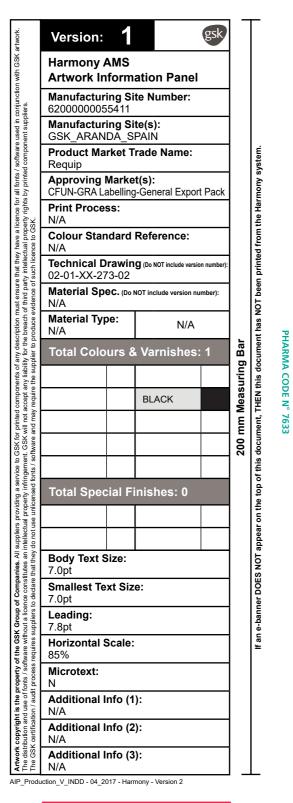
²Prolonged release clinical trials data

³In patients with advanced Parkinson's disease, dvskinesias can occur during the initial

titration of REQUIP. In clinical trials it was shown that a reduction of the L-dopa dose may ameliorate dyskinesia (see Dosage and Administration).

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Adverse Drug Reactions Reported During Clinical Trials in Patients with Restless Legs

Psychiatric disorders			
Common	Nervousness		
Nervous system disorders			
Common	Dizziness (including vertigo), somnolence, syncope		
Gastrointestinal disorders			
Very common	Nausea, vomiting		
Common	Abdominal pain		
General disorders and administrative site conditions	· ·		
Common	Fatigue		
Post Marketing Data			
Immune system disorders			
Very rare	Hypersensitivity reactions (including urticaria, angioedema, rash, pruritus).		
Psychiatric disorders			
Uncommon	Psychotic reactions (other than hallucinations) including delusion, paranoia, delirium. Impulse control symptoms, increased libido including hypersexuality, pathological gambling compulsive shopping, binge eating (see Warnings and Precautions). Aggression*		
Very rare	Mania		
,	notic reactions as well as compulsive symptoms.		
Nervous system disorders			
Very rare [†] As with other dopaminergic therapies, extra been reported primarily in Parkinson's disea	se. Patients experiencing sudden onset of sleep		
Very rare tAs with other dopaminergic therapies, extrr been reported primarily in Parkinson's disea cannot resist the urge to sleep, and on waki sleep. Where data from post-marketing repord down titration or on withdrawal of the drug.	me somnolence and sudden onset of sleep have se. Patients experiencing sudden onset of sleep ng may be unaware of any tiredness prior to the orts were available, patients had recovered after In most cases the patients received concomitant		
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Ropinirole acts in the hypothalamus and pituitary to inhibit the secretion of prolactin **Pharmacokinetics**

The pharmacokinetics of ropinirole are consistent between healthy volunteers, Parkinson's disease patients and patients with Restless Legs Syndrome.

Wide inter-individual variability in the pharmacokinetic parameters has been seen. Bioavailability of ropinirole is approximately 50% (36 to 57%).

Absorption

Oral absorption of ropinirole is rapid with peak concentrations of the drug achieved at a median time of 1.5 hours post dose.

The bioavailability of ropinirole was similar in both the fed and fasted state. However, a high fat meal decreases the rate of absorption of ropinirole, as shown by a delay in median $\mathrm{T}_{\mathrm{max}}$ by 2.6 hours and an average 25% decrease in Cmm

As expected for a drug being administered approximately every half life, there is, on average, two-fold higher steady-state plasma concentrations of ropinirole following the recommended t.i.d. regimen compared to those observed following a single oral dose.

Distribution Plasma protein binding of the drug is low (10 to 40%). Consistent with its high lipophilicity.

Renal Impairment:

There was no change observed in the pharmacokinetics of ropinirole in Parkinson's disease patients with mild to moderate renal impairment.

In patients with end stage renal disease receiving regular dialysis, oral clearance of ropinirole is reduced by approximately 30%. The recommended maximum dose of REQUIP is limited to 18 mg/day in patients with Parkinson's disease (see Dosage and Administration, Renal impair

Pregnancy:

Physiological changes in pregnancy (including decreased CYP1A2 activity) are predicted to gradually lead to an increased maternal systemic exposure of ropinirole (reaching an approximate 2-fold increase by the third trimester based on physiologically based pharmacokinetic modelling) **Clinical Studies**

A double-blind 5-year study in 268 patients compared ropinirole and L-dopa in the treatment of early Parkinson's disease. The incidence of dyskinesias in patients receiving ropinirole (either alone or following subsequent L-dopa supplementation) was markedly lower than for patients receiving L-dopa (with or without additional L-dopa supplementation). Patients randomised to ropinirole were 4 times less likely to develop dyskinesias than those on L-dopa (odds ratio 3.8: 95% Cl [2.1, 6.9]; p<0.0001); the incidence of dyskinesia was 20% and 46% for ropinirole and L-dopa patients, respectively. In those patients who completed the study without the need for supplemental L-dopa, ropinirole patients were 15-times less likely to develop dyskinesia than L-dopa patients (odds ratio 15.2: 95%CI [6.2, 36.9]; p<0.0001); the incidence of dyskinesia was

5% and 36% for ropinirole and L-dopa patients, respectively. In the patients who completed the 5-year study, there was no significant difference in efficacy between those who received either ropinirole or L-dopa. A difference of 1.5 (95% CI [-0.1, 3.2] from baseline to completion in the Activities of Daily Living (ADL) score on the Unified Parkinson's Disease Rating Scale (UPDRS), was observed. Thirty-four percent (34%) of ropinirole patients who completed the 5-year study remained on monotherapy at study endpoint.

The mean dose of ropinirole at study endpoint was 16.5 mg for all patients and 15.0 mg for those on monotherapy.

Non-Clinical Information

Carcinogenesis, mutagenesis

Two-year studies have been conducted in the mouse and rat at dosages up to 50 mg/kg. The mouse study did not reveal any carcinogenic effect. In the rat, the only drug-related lesions were Levdig cell hyperplasia/adenoma in the testis resulting from the hypoprolactinaemic effect of ropinirole. These lesions are considered to be a species-specific phenomenon and do not constitute a hazard with regard to the clinical use of ropinirole. Genotoxicity was not observed in a battery of in vitro and in vivo tests.

Reproductive toxicology

In fertility studies in rats, effects were seen on implantation due to the prolactin-lowering effect of ropinitole. In humans, chorionic gonadotropin, not prolactin, is essential for implantation in females. No effects were seen on male fertility.

Administration of ropinirole to pregnant rats at maternally toxic doses resulted in decreased foetal body weight at 60 mg/kg, increased foetal death at 90 mg/kg and digit malformations at 150 mg/kg (3.4, 5.1 and 8.5 times the mean human AUC at the Maximum Recommended Human Dose (MRHD)). There was no teratogenic effect in the rat at 120 mg/kg (6.8 times the mean human AUC at the MRHD) and no indication of an effect during organogenesis in the rabbit when given alone at 20 mg/kg (9.5 times the mean human C_{max} at the MRHD). However, ropinirole at 10 mg/kg (4.8 times the mean human C_{max} at the MRH0 administered to rabbits in combination with oral L-dopa produced a higher incidence and severity of digit malformations than L-dopa alone.

Ropinirole-related material was shown to transfer into the milk of lactating rats in small amounts (approximately 0.01% of the dose per pup).

Animal toxicology and/or pharmacology

Ropinirole caused no serious or irreversible toxicity in laboratory animals at 15 mg/kg (monkey), 20 mg/kg (mouse) or 50 mg/kg (rat); 0.9, 0.4 and 2.8 times the mean human AUC at the MRHD. The toxicology profile is principally determined by the pharmacological activity of the drug (behavioural changes, hypoprolactinaemia, decrease in blood pressure and heart rate, ptosis and salivation). PHARMACEUTICAL INFORMATION

List of Excipients

Tablet cores: lactose monohydrate, microcrystalline cellulose, croscarmellose sodium magnesium stearate

Film coats:

	Tablet strength (mg) and colour				
	0.25	0.5	1.0	2.0	5.0
Tablet Colour	White	Yellow	Green	Pink	Blue
Hypromellose	1	1	1	1	1
Polyethylene glycol/Macrogol	1	1	1	1	1
Titanium Dioxide	1	1	1	1	~
Iron Oxide Yellow		1	1	1	
Iron Oxide Red		1		1	
Indigo Carmine Aluminium Lake E132 (FD&C Blue No. 2)		1	1		1
Polysorbate 80	1				1

Shelf Life

The expiry date is indicated on the packaging Storage

The storage conditions are detailed on the packaging.

Nature and Contents of Container Opaque, PVC/PCTFE/Aluminium blister

Cold form blister (Al/Al)

Cold form child-resistant blister (Al-Al/paper)

to advise SDC when changes required impact the following:

Formulation **Tablet embossing** Storage conditions Shelf Life

NOTE TO MARKET

Local approvers must ensure that trade mark and copyright statements included in the brief comply with guidance provided by Legal: Global Trade Marks.

ropinirole exhibits a large volume of distribution (approx. 7 L/kg).

Metabolism

Ropinirole is primarily cleared by CYP1A2 metabolism and its metabolites are mainly excreted in the urine. The major metabolite is at least 100 times less potent than ropinirole in animal models of dopaminergic function.

Elimination

Ropinirole is cleared from the systemic circulation with an average elimination half-life of about 6 hours. The increase in systemic exposure (C_{max} and AUC) to ropinirole is approximately proportional over the therapeutic dose range. No change in the oral clearance of ropinirole is observed following single and repeated oral

administration.

Pharmacokinetic/Pharmacodynamic relationships:

In Parkinson's disease patients treated with ropinirole there was a trend for slightly higher average plasma concentrations of ropinirole in responders compared to non-responders. **Special Patient Populations**

Elderly:

Oral clearance of ropinirole is reduced by approximately 15% in elderly patients (65 years or above) compared to younger patients. Dosing adjustment is not necessary in the elderly.

PVC/PCTEE/PVC/Aluminium blister PVC/PCTFE/PCV-Aluminium/paper child-resistant blister PVC/PE/PVdC-Aluminium/paper child-resistant blister HDPE bottle. Incompatibilities None known Use and Handling No special instructions Further information is available on request. Not all presentations are available in every country Manufactured by: Glaxo Wellcome S A * Avenida de Extremadura 3 09400 Aranda De Duero, Burgos, Spain *Member of GSK group of companies Trade marks are owned by or licensed to the GSK group of companies. © 2020 GSK group of companies or its licensor Version number: GDS36/IPI21 Date of issue: 21 July 2020

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