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Personal information has been removed to protect the privacy of patients and the individuals named in the synopsis.

> Sponsor: UCB BIOSCIENCES, Inc. (formerly SCHWARZ BIOSCIENCES, Inc.) 8010 Arco Corporate Drive Raleigh, NC 27617 USA

Official study title:

A multi-center, multinational, Phase 3, open-label extension trial to assess the safety of long-term treatment of rotigotine patch in subjects with advanced stage, idiopathic Parkinson's disease who are not well controlled on levodopa This document

Clinical Trial Report	SPM 962	SP51
Name of company : SCHWARZ BIOSCIENCES, Inc.	Individual trial table referring to part of the dossier Not applicable	(For National Authority Use Only)
Name of finished product:	Volume: Not applicable	
Rotigotine transdermal system*		il all
Name of active ingredient:	Page: Not applicable	Or No
Rotigotine		ions
Title of trial : A multi-center, m safety of long-term treatment of Parkinson's disease who are not	ultinational, Phase 3, open-lab rotigotine patch in subjects w well controlled on levodopa	bel extension triat to assess the ith advanced stage, idiopathic
Investigators: This was a multi-	-center, multinational trial.	and
Trial site(s): Sixty-three sites (in	n)
Publication (reference): None	t olic	0
Studied period (years): Up to 5	5 Phase of developmen	t: Phase 3
First subject enrolled: 30 Aug 2004 Last subject completed: 19 Dec 2008	REDACTED	
Objectives : The objective of thi treatment of rotigotine in subjec	s trial was to assess the safety ts with idiopathic Parkinson's	and tolerability of long-term disease.
Methodology : This trial was a s (DB) trial, SP515. Subjects who eligible to enroll in this extension their optimal dose level in SP51. treatment with rotigotine at a do to the optimal dose every 7 ± 3 da 16mg/24h. The Maintenance Perwhen both the subject and the in the maximum length of the Titra of rotigotine could be increased subject's effective dose during the disease symptoms progressed, in encouraged, up to the maximal canti-Parkinson medications. Sub Period for up to 5 years or until cessation of therapy, the dose of Depending upon the subject's dot does not be a subject's dot for the subject's dot	single-arm, open-label (OL) ex had completed 4 months of n on trial. Before entering SP516 5. After de-escalation was cor- ise level of 4mg/24h. The rotig ays by 2mg/24h increments up riod began when the Titration avestigator decided that an opt ation Period was 49±21 days. If or decreased as needed by the he Maintenance Period. In cass increase of the rotigotine dose of dose of 16mg/24h, prior to add ojects continued rotigotine treat the sponsor closed the trial, w Frotigotine was reduced gradu ose during the Maintenance Period	Attension of the double-blind haintenance in SP515 were b, subjects de-escalated from inplete, all subjects started gotine dose could be uptitrated to a maximum dose of Period was complete, or imal dose had been reached; If necessary, a subject's dose investigator to maintain a be a subject's Parkinson's to the next higher dose was ling or altering adjunctive attment in the Maintenance hichever came first. At ally in a De-escalation

Cinical Inal Report	51 WI 902		
Name of company: SCHWARZ BIOSCIENCES, Inc.	Individual trial table referring to part of the dossier Not applicable	(For National Authority Use Only)	
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Rotigotine transdermal system		il ⁱ	
Name of active ingredient:	Page: Not applicable	or	
Rotigotine		cions	
and had taken that dose for 2 da upon the subject's maintenance SFU Visit 28 days after the End	ys. De-escalation could last for dose. The subject was asked to of Treatment Visit.	r up to 12 days depending o return to the clinic for a	
who had completed 4 months of of long-term treatment with roti performed. It was assumed that approximat DB maintenance in SP515. Of t	and analyzed): This was an OL extension trial for subjects DB maintenance therapy in SP515 to give them the option gotine. Therefore, no formal sample size determination was ely 85% of the subjects would complete the 4 months of hese subjects, it was expected that about 90% would enter		
the OL extension. A total of 395 Set (ES) and the Safety Set (SS)	b).		
Diagnosis and main criteria fo Parkinson's disease who had con SP515, and who did not have ar related to trial medication were	or inclusion: Subjects with adv mpleted 4 months of maintenan n ongoing serious adverse even eligible to enter SP516.	vanced-stage, idiopathic nce treatment in the DB trial, t (SAE) that was assessed as	
Test product, dose and mode administered transdermally once Doses and patch sizes were as for 8mg/24h (40cm ²). Doses greate 16mg/24h) were administered u	of administration, batch num e daily with a silicone-based pa ollows: rotigotine 4mg/24h (20 r than 8mg/24h (ie, 10mg/24h, using a combination of multiple	aber : Rotigotine was atch for a period of 24 hours. cm^2), $6mg/24h$ ($30cm^2$), and 12mg/24h, $14mg/24h$, and e patches.	
Trial medication was dispensed	was dispensed from the following batches:		
20cm ² :			
30cm ² :			
40cm ² :			

Clinical Trial Report	SPM 962		SP516
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Name of finished product:	Volume: Not applicable		onst
Rotigotine transdermal system		.(il ^{alle}
Name of active ingredient:	Page: Not applicable	04	
Rotigotine		cions	

Duration of treatment: The planned duration of the trial per subject was until completion . els of a Maintenance Period of up to 5 years or until the sponsor closed the triat, whichever N

Reference therapy, dose and mode of administration, batch number: Not applicable

Na SC In	ame of company : CHWARZ BIOSCIENCES, c.	Individual trial table referring to part of the dossier Not applicable	(For National Authority Use Only)		
N	ame of finished product:	Volume: Not applicable			
Ro	otigotine transdermal system		ALL		
N	ame of active ingredient:	Page: Not applicable	or		
Ro	otigotine		ions		
Cı Tł	riteria for evaluation: ne following variables and ana	lyses were originally defined	d for SP516:		
•	Adverse events (AEs), as re- investigator recorded over th	ported spontaneously by the ne course of the trial	subject or observed by the		
•	 Modified Minnesota Imp Change from Baseline in the clinical laboratory values, an of the trial 	Modified Minnesota Impulsive Disorders Interview Change from Baseline in the vital signs, body weight, electrocardiograms (ECGs), linical laboratory values, and Epworth Sleepiness Scale (ESS) scores over the course of the trial			
•	Changes from Baseline in pl of the trial	Changes from Baseline in physical and neurological examination data over the course of the trial			
•	Change from Baseline in Ur Part II over the course of the	hange from Baseline in Unified Parkinson's Disease Rating Scale (UPDRS) scores art II over the course of the trial			
•	Change from Baseline in UI	PDRS scores Part III over the	e course of the trial		
•	Change from Baseline in UI	PDRS scores Part IV over the	e course of the trial		
•	Change from Baseline in the trial	e'sum of UPDRS scores Parts	s II + III over the course of the		
•	Change from Baseline in the of the trial	hange from Baseline in the sum of UPDRS scores Parts II, III, and IV over the course f the trial			
•	Clinical Global Impressions during the course of the trial				
•	Change from pretreatment in Hoehn and Yahr stage over the course of the trial				
•	Change in quality of life, from Baseline to end of the trial, as assessed using the Parkinson's Disease Questionnaire 39 Item (PDQ-39)				
6	Change in quality of sleep, f Parkinson's Disease Sleep S	from Baseline to end of the transformed to the transformed cale (PDSS)	rial, as assessed using the		
•	Plasma levels of rotigotine (course of the trial	in approximately 20% of the	e trial population) over the		

Clinical Trial Report	SPM 962	S	P516
Name of company : SCHWARZ BIOSCIENCES, Inc.	Individual trial table referring to part of the dossier Not applicable	(For National Authority Use Only)	thereof.
Name of finished product:	Volume: Not applicable		IONST
Rotigotine transdermal system		il.	
Name of active ingredient: Rotigotine	Page: Not applicable	ionsorve	
Statistical methods : As the prinsafety variables, including AEs, examinations, 12-lead ECGs, vir	nary focus of this trial was on l laboratory parameters, physica tal signs, and ESS values were	ong-term safety, the primary l and neurological analyzed descriptively.	
Absolute and relative frequencies Summary statistics, such as mea were given for continuous varial A "dose of longest duration" dur period. For subjects who had mo	es of subjects were calculated for in, standard deviation, median, bles. ring SP516 was allocated to all ore than 1 dose of longest durat	or categorical variables. minimum, and maximum, subjects for the analysis ion in the analysis period (ie,	
ties), the minimum dose was use the subject was exposed at least dose was utilized. Subjects were longest duration subjects receive	ed. Similarly, if the "dose of lor once to rotigotine during SP51 grouped by dose in analysis di ed during the entire SP516 trial.	ngest duration" was 0mg, but 6, the minimum rotigotine splays based on the dose of	
Baseline for SP516 was defined assessment before treatment (eg defined as SP516 Visit 1, and Ba Visit 1.	as SP515 Visit 2 for most asses, laboratory assessments). Base aseline for Hoehn and Yahr sco	ssments or the last SP515 line for UPDRS Part IV was ore was defined as SP515	
Adverse events and diseases we Activities (MedDRA [®] , Version using the World Health Organiz coding was performed prior to d	re coded using the Medical Dic 9.1). Concomitant and previous ation-Drug Reference List (WH atabase lock.	tionary for Regulatory s medications were coded IO-DRL, 2Q/2004). All	

coding was performed prior to database loci

SPM 962

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SP516

Name of company : SCHWARZ BIOSCIENCES, Inc.	Individual trial table referring to part of the dossier Not applicable	(For National Authority Use Only)	×
Name of finished product:	Volume: Not applicable	. S	Ś
Rotigotine transdermal system		il all	
Name of active ingredient:	Page: Not applicable	Or You	
Rotigotine		OLS	

Summary and conclusions:

Clinical Trial Report

Safety results:

In this OL extension trial, subjects were treated with rotigotine (ranging from 4mg/24h to 16mg/24h) for a mean duration of 858 days (ranging from 1 to 1520 days).

Overall, rotigotine was generally well tolerated during the trial. Most AEs were consistent with stimulation of dopamine receptors, the use of a transdermal patch, and the clinical picture of the subjects' underlying disease. The majority of AEs were mild or moderate in intensity. The most common AEs were somnolence, application and instillation site reactions (high level term [HLT]), fall, and Parkinson's disease. Investigator reported terms, including worsening or deterioration, were coded to the preferred term of Parkinson's disease. A total of 20% of subjects withdrew from the trial due to an AE, the most common AEs leading to discontinuation being application and instillation site reactions (HLT). Thirty-eight percent of subjects reported at least 1 SAE, and the SAEs occurred across multiple system organ classes (SOCs) with no obvious grouping.

Fifteen deaths were reported (one of which was 4 days post-treatment), resulting from bronchial carcinoma (2 subjects), Parkinson's disease, cerebrovascular accident, cardiac failure, pneumonia, loss of consciousness, narcotic intoxication, sepsis, myocardial infarction, cerebral haemorrhage, intestinal obstruction, and pulmonary embolism (all 1 subject each). One subject who died had respiratory failure and cardiovascular insufficiency, and another had both colon neoplasm and metastatic neoplasm. Except 1 AE of myocardial infarction, where causality was assessed as possibly related by the investigator, all other AEs leading to death were assessed either as unlikely related or not related to the trial medication. Given the comorbidity and the age of the subjects, as well as the long duration of the trial, the spectrum of AEs leading to death during this trial is not unexpected.

A total of 42 AEs (in 22 subjects, 6%) indicative of impulsive-compulsive behavior were recorded during the trial, 25 of which (in 16 subjects) were assessed by the investigators as being at least probably related to the trial medication.

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Name of finished product:	Volume: Not applicable	
Rotigotine transdermal system		, ALAN
Name of active ingredient:	Page: Not applicable	or
Rotigotine		cions
reactions were severe in intensit discontinued prematurely due to Overall, there were no mean cha	ty, and 2 were serious in natur to these reactions. anges in laboratory parameters	e. A total of 14 subjects (4%)
observed in a few subjects.	f clinical relevance in hemato	erit and hemoglobin were
(EoM). There was no indication majority of subjects (75% to 99 for heart rate by Bazett's formu formula classified as <450ms, a subjects across all visits).	a for rotigotine to cause any E0 % of subjects across all visits) la or QT interval corrected for nd had a change from Baselin	CG abnormalities. Overall, the had a QT interval corrected heart rate by Fridericia's e <30ms (75% to 96% of
The ESS total score increased for Epworth Sleepiness Scale total daytime somnolence.	rom 7.1 at Baseline to 8.3 at V scores of less than 10 are belo	Visit 25 (end of Year 4). w the cutoff for excessive
mot be used to st		

16 Mar 2010

Clinical Trial Report	SPM 962	S	<u>P516</u>
Name of company: SCHWARZ BIOSCIENCES, Inc.	Individual trial table referring to part of the dossier Not applicable	(For National Authority Use Only)	inereot
Name of finished product:	Volume: Not applicable		ons
Rotigotine transdermal system			Sp
Name of active ingredient:	Page: Not applicable	0570	
Rotigotine		tions	
Efficacy results:		L'ENS	
Based on UPDRS results, OL tr subjects' ability to cope with ac	eatment with rotigotine led to to the total to the total tot	a general improvement in S Part II) and motor function	

disease then worsened until the EoM (ie, over a period of approximately 4 years). At the EoM, the mean score for UPDRS Part III was improved over the Baseline value. Throughout the Maintenance Period, subjects benefited from treatment with rotigotine regarding tremor, sensory complaints related to parkinsonism, and cutting food and handling utensils. Many of the individual item scores for UPDRS Part III improved from Baseline to the EoM. At the EoM, 39% of subjects could still be defined as responders, meaning that they had a decrease of 20% or more in their total UPDRS sum score (Part II

(UPDRS Part III) during the Titration Period. As expected, the subjects' Parkinson's

+ III) compared to Baseline.

This document

Based on CGI analyses, the mean score was the same at Baseline and the End of Treatment, indicating no change in subjects' severity of Parkinson's disease throughout the OL treatment with rotigotine.

At the end of OL treatment, 3% of subjects reported having side effects that outweighed the therapeutic effect of rotigotine.

Pharmacokinetics/pharmacodynamics results:

The results of rotigotine plasma concentration measurements (ie, mean concentrations and variability based on rotigotine doses of 4, 6, 8, 10, 12, 14, and 16mg/24h) are consistent with results observed in other trials. Results gained for the Maintenance Period illustrate a stable plasma level of rotigotine during long-term administration (ie, up to 1 year of repeated dosing).

Name of finished product: Rotigotine transdermal system Volume: Not applicable Name of active ingredient: Rotigotine Page: Not applicable Page: Not applicable Page: Not applicable Conclusions: • • Rotigotine was generally well tolerated in this OL extension trial. In general, AEs were consistent with stimulation of dopamine receptors, the use of a transdermal patch, and complications connected to the subjects' underlying disease. • The most frequently reported AEs were somnolence, application and instillation site reactions (HLT), fall, and Parkinson's disease. The majority of AEs were mild or moderate in intensity. • Serious AEs occurred without any grouping to a specific SOC. • Overall, there were no mean changes in laboratory parameters that were of clinical relevance. Furthermore, the incidences of vital sign outliers were not clinically relevant throughout the trial. • Based on UPDRS results, OL treatment with rotigotine led to a general improvement in subjects' ability to cope with activities of daily living and motor function during the Titration Period. As expected, the subjects' Parkinson's disease progressed over the course of the study (ie, over a period of approximately 4 years), but remained improved relative to Baseline. • Rotigotine plasma concentrations showed a dose proportionality for doses ranging from 4mg/24h to 16mg/24h. • Rotigotine plasma concentrations remained stable during long-term (up to 1 year) administration. •	Na SC In	ame of company : CHWARZ BIOSCIENCES, c.	Individual trial table referring to part of the dossier Not applicable	(For National Authority Use Only)		
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Name of active ingredient: Rotigotine Page: Not applicable Rotigotine Conclusions: • Rotigotine was generally well tolerated in this OL extension trial. In general, AEs were consistent with stimulation of dopamine receptors, the use of a transfermal patch, and complications connected to the subjects' underlying disease. • The most frequently reported AEs were somnolence, application and instillation site reactions (HLT), fall, and Parkinson's disease. The majority of AEs were mild or moderate in intensity. • Serious AEs occurred without any grouping to a specific SOC. • Overall, there were no mean changes in laboratory parameters that were of clinical relevance. Furthermore, the incidences of vital sign outliers were not clinically relevant throughout the trial. • Based on UPDRS results, OL treatment with rotigotine led to a general improvement in subjects' ability to cope with activities of daily living and motor function during the Titration Period. As expected, the subjects' Parkinson's disease progressed over the course of the study (ie, over a period of approximately 4 years), but remained improved relative to Baseline. • Rotigotine plasma concentrations remained stable during long-term (up to 1 year) administration. • Although there was a slight increase in subjects' severity of Parkinson's disease throughout SP516, only 3% of subjects reported having side effects that outweighed the therapeutic effect of rotigotine.	Ro	otigotine transdermal system				
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Date of the report: 16 Mar 2010	D	ate of the report: 16 Mar 201	0			