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

> Sponsor: UCB Deutschland GmbH (formerly SCHWARZ PHARMA Deutschland GmbH) Affred-Nobel-Str. 10 40789 Monheim Germany

Official study title:

An explorative, multicenter, open-label pilot trial with Neupro® (rotigotine transdermal patch) once daily treatment administered perioperatively in patients with idiopathic Parkinson's disease This document

Clinical Trial Report	SPM 962	SP88
Name of company: SCHWARZ PHARMA Deutschland GmbH	Individual trial table referring to part of the dossier NA	(For National Authority Use Only)
(A member of the UCB Group)		
Name of finished product: rotigotine transdermal patch (Neupro®)	Volume: Not applicable	waita lo
Name of active ingredient: rotigotine	Page: Not applicable	cion ⁵ of
Title of trial : An explorative, multi transdermal patch) once daily treatm Parkinson's disease	center, open-label pilot trial with nent administered perioperatively	Neupro [®] (rotigotine in patients with idiopathic
Investigators: This was a multicent	ter trial	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Trial site(s): 12 sites in		A.
Publication (reference): None	, Š	<u>,</u> 0,
Studied period (years): <1	Phase of development: 4	
First subject enrolled:	RT BRY	
28 Oct 2007	C xion	
Last subject completed: 26 May 2008	TED il 21.	
perioperative rotigotine treatment in addition, pharmacokinetics (PK), ef the perioperative management of PI Methodology : SP882 was an open- exploratory information on the feas of subjects with PD, as well as PK,	n a limited number of subjects with ficacy, and safety information on D was collected. label, nonrandomized, multicente ibility of perioperative rotigotine to efficacy, and safety information of	h Parkinson's disease (PD). In the use of rotigotine as part of r, pilot trial to provide treatment in a limited number on the use of rotigotine as part
of the perioperative management of were considered eligible to receive the The trial consisted of the Screening	PD. Subjects who successfully contractment in this trial.	isit (Day 1) Treatment
(operative day [Day 2]; most subject although application could have last extended ventilation period postope patch removal), and Safety Follow-	ets were to be treated with rotigotist ted up to 2 weeks after surgery if f eratively]), End of Treatment (post Up (2 weeks after discharge from	ne patches for 1 or 2 days, necessary [eg, unexpected toperative day; day after last the hospital).
The subject's normal preoperative e and cabergoline) were replaced by 1 6mg/24h (30cm ²), or 8mg/24h (40cr 10mg/24h (50cm ²), 12mg/24h (60cr	evening PD medication (except lev 1 rotigotine patch of 2mg/24h (100 m ²) or by combining 2 rotigotine p m ²), 14mg/24h (70cm ²), or 16mg/	vodopa-containing preparations cm ²), 4mg/24h (20cm ²), patches for the doses 24h (80cm ²) at approximately
7:00pm the evening before surgery dopaminergic stimulation. Levodop day. Cabergoline was to be stopped strength was to be based on the reco	(surgery per protocol [SPP]), prov a could have been taken until 12 i 24 hours prior to the switch. The permendations described in the "T	nding continuous perioperative midnight on the preoperative determination of patch dosage est product, dose and mode of
shongui mus to be bused on the feet		functional data colorition was

Name of company: SCHWARZ PHARMA Deutschland GmbH Individual trial table referring to part of the dossier (For National Authority Use Only) Name of finished product: rotigotine transdermal patch (Neupro®) Name of active ingredient: rotigotine Volume: Not applicable (For National Authority Use Only) Name of active ingredient: rotigotine Page: Not applicable (For National Authority Use Only) Methodology (continued): After surgery, the subject's previous PD medication was to be resumed in the evening of the operative day or rotigotine treatment could have been maintained for up to 2 days, including the preoperative day. If required by the subject and the investigator (eg. unexpected extended ventilation period), rotigotine could have been applied for up to a maximum of 2 weeks following surgery and after notification of the sponsor. Number of subjects (planned and analyzed): Approximately 10 to (5 sites were planned, 12 were initiated and 6 of these 12 enrolled at least 1 subject. A total of 30 subjects were enrolled in the trial. Diagnosis and main criteria for inclusion: Included in this trial were male or female subjects who were ≥18 years of age and ≤80 years of age and who had idiopathic PD (early- or advanced-stage), as defined by the cardinal sign bradykinesia, plus the presence of at least one of the following: resting tremor, rigidity, or postural instability and is without any other known or suspected cause of Parkinsonism. Subjects had American Society of Anesthesiologists (ASA) stage II through III disease as determined by the investigator; were currently taking medication for PD (eg, levodopa, 	Name of company: SCHWAR2 PHARMA Deutschland GmbH (A member of the UCB Group) Individual trial table referring to part of the dossier NA (For National Authority Use Only) Name of finished product: rotigotine transdermal patch (Neupro®) Volume: Not applicable (Page: Not applicable Name of active ingredient: rotigotine Page: Not applicable Page: Not applicable (Page: Not applicable Methodology (continued): After surgery, the subject's previous PD medication was to be resumed in the evening of the operative day or rotigotine treatment could have been maintabled for up to 2 days, including the prooperative day. If required by the subject and the investigator (eg, unexpected extended ventilation period), rotigotine could have been applied for up to a maximum of 2 weeks following surgery and after notification of the sponsor. Number of subjects (planned and analyzed): Approximately 10 to (b) sites were planned, 12 were initiated and 6 of these 12 enrolled at least 1 subject. A total of 30 subjects were enrolled in the trial. Diagnosis and main criteria for inclusion: Included in the trial i 4 subjects who were ≥18 years of age and ≤80 years of age and othe haft dipathic PD (early- or advanced-stage), as defined by the cardinal sign bradykinesia, plus the presence of at least one of the following: resting tremor, rigidity, or postural instability and is without any other known or suspected cause of Parkinsoniam. Subjects had American Scotery of Anesthesiologists (ASA) stage II through III disease as determined by the investigator; were currently taking medication for PD (eg, levodopa, , entacapone,); and were scheduled for an operation requiring general anesthesia.			5186
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were ≥18 years of age and ≤80 years of age and who had idiopathic PD (early- or advanced-stage), as defined by the cardinal sign bradykinesia, plus the presence of at least one of the following: resting tremor, rigidity, or postural instability and is without any other known or suspected cause of Parkinsonism. Subjects had American Society of Anesthesiologists (ASA) stage II through III disease as determined by the investigator; were currently taking medication for PD (eg, levodopa, , entacapone,); and were scheduled for an operation requiring general anesthesia.	were ≥18 years of age and ≤80 years of age and who had idiopathic PD (early- or advanced-stage), as defined by the cardinal sign bradykinesia, plus the presence of at least one of the following: resting tremor, rigidity, or postural instability and is without any other known or suspected cause of Parkinsonism. Subjects had American Society of Anesthesiologists (ASA) stage II through III disease as determined by the investigator; were currently taking medication for PD (eg, levodopa, , entacapone, , entacapone,); and were scheduled for an operation requiring general anesthesia.	initiated and 6 of these 12 enrolle screened, with a target of up to 20 the trial.	ed at least 1 subject. A total of 30 sub 0 subjects to be included in the trial;	bjects were planned to be 14 subjects were enrolled in
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anesthesia.	anesthesia.	Parkinsonism. Subjects had Amer	rican Society of Anesthesiologists (A	ASA) stage II through III
we used to	* cannot be used to	Parkinsonism. Subjects had Amer disease as determined by the inve	rican Society of Anesthesiologists (A estigator; were currently taking medi); and were scheduled for	ASA) stage II through III cation for PD (eg, levodopa, , entacapone, an operation requiring general
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Name of finished product: rotigotine transdermal patch (Neupro®)	Volume: Not applicable	Nation
Name of active ingredient: rotigotine	Page: Not applicable	SIONSO
Test product, dose and mode of dosage strength (as described in the recommendations, but the final de neurologist.	administration, batch number: The "Methodology" section above) we cision of rotigotine dose selection w	he determination of patch vas based on the following was left to the discretion of the
	mg/day prior PD	Equivalent to mg/24h
Conversion	medication	o rotigotine patch
Ropinirole to rotigotine	$1 \rightarrow 0$	1
Cabargaling to notigating		4
		3
The last dose of cabergoline was a administration of pramipexole, rop was at noon o continued to be administered throp taken until 12 midnight on the pre	administered 24 hours before the pa pinirole, entacapone, f the preoperative day. Levodopa-co ugh the evening dose on the preoper operative day.	tch-application. The last ontaining preparations rative day and could have been
subject's previous PD medication rotigotine treatment could have be required by the subject and the inv could have been applied for up to the sponsor. All rotigotine patches used in this	was able to be resumed in the even een maintained for up to 2 days, incluse vestigator (eg, unexpected extended a maximum of 2 weeks following s trial came from the batch number	ing of the operative day or luding the preoperative day. If ventilation period), rotigotine surgery and after notification of
Duration of treatment : The treat of the Screening Phase (up to 28 c End of Treatment (postoperative c to 2 weeks if the intensive care un	ment duration in this trial was at ma lays), Baseline visit (Day 1), Treatn lay; day after last patch removal; th it was involved), and Safety Follow	aximum 8 weeks and consisted nent (operative day [Day 2]), is period could be extended up y-Up (2 weeks after discharge
from the hospital).		

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Deutschland GmbH	Individual trial table referring to part of the dossier NA	(For National Authority Use Only)
(A member of the UCB Group)		
Name of finished product: rotigotine transdermal patch (Neupro®)	Volume: Not applicable	Nation 1
Name of active ingredient: rotigotine	Page: Not applicable	sions of
 Criteria for evaluation: <u>Efficacy</u>: Efficacy variables were neurologist, and the subject. The f perioperative period was evaluated Feasibility assessment question days Days 21) 	the assessments of feasibility by th easibility of applying rotigotine tra d as follows: onnaire by the anesthesiologist (perf	e anesthesiologist, the nsdermal patch during the formed at Visit 3 [operative
 Feasibility assessment question visit [Visit 5; 2 weeks after discovery of the sessment question [Visit 5: 2 weeks after discharter discharter] 	onnaire by the neurologist (performe scharge]) onnaire by the subject (performed at gel)	ed at the Safety Follow-Up the Safety Follow-Up visit
of unconjugated rotigotine was ob	tained prior to removal of the first	patch (Day 2) Additionally
used patches were collected only a These removed patches from Day Safety : The following safety varia events (AEs), laboratory paramete (including neurological) examinat	after Day I (even if the subject was 1 were collected for determination ables were measured: observation a ers, vital signs measurements (blood ion findings, and 12-lead electrocal	treated for a longer period). of the apparent dose on Day 2. nd assessment of adverse pressure, pulse), physical diogram (ECG) findings

Name of company: Individual trial table referring (For National Authority Use to part of the dossier Only) ions thereo SCHWARZ PHARMA NA Deutschland GmbH (A member of the UCB Group) Name of finished product: Volume: Not applicable + Valia rotigotine transdermal patch (Neupro®) <u>sions</u> Name of active ingredient: Page: Not applicable rotigotine etter **Summary and conclusions: Efficacy**: In this trial, for the 11 subjects who completed the feasibility assessment questionnaire and/or • had it completed by the anesthesiologist or neurologist, a rating of 1 (Lagree completely) was the most common response (7 to 10 subjects [63.6% to 90.9%, respectively]) to all questions.

- Only 1 subject had a rating of 6 (I don't agree at all), as noted by the neurologist, for the question "Re-switch was easily feasible." There were no ratings of 6 assessed by the anesthesiologist or the subject.
- The mean feasibility assessment ratings ranged from 1.1 to 1.5 (range 1 to 4) for all questions as assessed by the anesthesiologist, from 1.2 to 1.5 (range 1 to 6) for all questions as assessed by the neurologist, and from 1.2 to 1.5 (range 1 to 4) for all questions as assessed by the subject.
- Ten of the 11 subjects (90.9%) who completed the feasibility assessment questionnaire said that, if they had to undergo surgery again, they would choose the Parkinson patch. None of the subjects chose a rating of 6 (I don't agree at all).

Pharmacokinetics/apparent dose results:

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Rotigotine plasma concentrations are in the same range as seen in various clinical trials. The overall mean measured apparent doses in percent at the Operative Day are around 39%. PK and apparent dose data are consistent with results observed in previous trials.

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Name of finished product: rotigotine transdermal patch (Neupro®)	Volume: Not applicable	A JOILOUS
Name of active ingredient: rotigotine	Page: Not applicable	<i>cions</i> of
(10cm ²), 4mg/24h (20cm ²), 6mg/2 patches for the doses 10mg/24h (2 (80cm ²) for a mean duration of ex Rotigotine was generally well tole procedure, stimulation of dopamin AEs were mild or moderate in inter (TEAEs) were procedural pain, co disorder, and pruritus. There were treatment-emergent serious AEs (and occurred in 1 su possibly related to the endoprothe surgery and the following blood la probably related to the trial medic occurred), and unlikely related to There were no deaths or other sig There were no trends observed in no indication for rotigotine to cau trial. No clinically relevant chang noted.	24h (30cm ²), or 8mg/24h (40cm ²) or 50cm ²), 12mg/24h (60cm ²), 14mg/2 posure of 1.8 days (ranged from 1 c erated during the trial. Most AEs we ne receptors, and the use of a transd ensity. During the trial, the most cor- onstipation, nausea, urinary tract infe e no discontinuations because of AE SAEs) were reported for 4 subjects; , bject each. The event of ventricular esis of right hip since its replacemen oss, highly probably related to the b eation (the second patch was applied the trial design/procedure. nificant AEs during the trial. laboratory parameters that were of es any clinically relevant ECG abno- es in vital signs or physical and neu-	r by combining 2 rotigotine 4h (70cm ²), or 16mg/24h lay to 5 days). re consistent with the surgical ermal patch. The majority of mmon treatment-emergent AEs ection, iron deficiency, sleep s in the trial. Four the SAEs included a asystole was considered t was the reason for the lood loss during surgery, 7 hours before the event

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Conclusions:

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In summary, the objectives of this trial were met based on the following conclusions:

- The feasibility of applying rotigotine transdermal patch during the perioperative period was shown, as evidenced by response to questions on feasibility assessment questionnaires completed by the anesthesiologist, neurologist, and subject.
- Rotigotine plasma concentrations increased with dose.
- Rotigotine was generally well tolerated in this open-label trial. In general, AEs were consistent with the surgical procedure, stimulation of dopamine receptors, and use of transdermal patch.
- The most frequently occurring TEAEs were procedural pain, constipation, nausea, urinary tract infection, iron deficiency, sleep disorder, and pruritus.
- Four treatment-emergent SAEs were reported for 4 subjects; the SAEs included a

and occurred in 1 subject each.

- There were no deaths, other significant AEs, or discontinuations because of AEs in the trial.
- There were no apparent trends in laboratory abnormalities, vital signs, ECGs, or physical or and neurological examination findings throughout the trial.

Date of the report: 07 Apr 2009

SPM 962