

CORRIGENDUM

Critical appraisal of rotigotine transdermal system in management of Parkinson's disease and restless legs syndrome - patient considerations [Corrigendum]

Kesayan T, Shaw JD, Jones TM, Staffetti JS, Zesiewicz TA. Degenerative Neurological and Neuromuscular Disease 2015;5:63-72.

The authors would like to correct the following errors: on page 64; paragraph 1, "RTG doses for treatment of early-stage PD monotherapy range from 2 mg/24 hours to 6 mg/24 hours, with recommended titration of 2 mg/24 hours weekly.5 For adjunct therapy in advanced-stage PD, RTG may be started at 4 mg/24 hour period and titrated up weekly by an additional 2 mg/24 hour period, with a maximum recommended dose of 16 mg/24 hours.7" should be "RTG doses for treatment of early-stage PD monotherapy range from 2 mg/24 hours to 8 mg/24 hours (2-6 mg/24 hours in the US), with recommended titration of 2 mg/24 hours weekly.5 For adjunct therapy in advanced-stage PD, RTG may be started at 4 mg/24 hour period and titrated up weekly by an additional

2 mg/24 hour period, with a maximum recommended dose of 16 mg/24 hours (4-8 mg/24 hours in the US).5"

On page 64; paragraph 5, "The mean RTG dose was 8 mg/24 hours, while the mean ropinirole dose was 14.1 mg/day." should have been "The majority of patients (92%) received RTG maintenance dose of 8 mg/24 h, while the median ropinirole dose was 14.1 mg/day."

On page 64; paragraph 6, "Three hundred and forty-one patients were randomized to receive RTG 8 mg/24 hours, 12 mg/24 hours, or placebo for 28 weeks." should have been "Three hundred and forty-one patients were randomized to receive RTG up to 8 mg/24 hours, up to 12 mg/24 hours, or placebo for 28 weeks."

On page 65; Table 1, data in the Doses column and the Notes section have been updated.

Table I Efficacy of RTG in early and advanced PD

	Dose (mg/24 hour)	n	Change from baseline ± SD (P-value)			
			UPDRS II ADL	UPDRS III motor		
Early PD						
Güldenpfennig et al ²⁰	8 mg/24 hour ^a	25	-2.84±3.45 (0.0004)	-4.88±5.56 (0.0002)		
	<8 mg/24 hour ^a	4	-2.25±2.36 (0.1622)	-3.00±3.56 (0.1671		
	Plo	0	_	_		
Jankovic et al ²¹	5.7 mg/24 hour ^b	177	$-0.39 \pm 0.26 \ (0.002)$	-3.58±0.54 (0.001)		
	Plo	96	0.92±0.35 (0.002)	0.38±0.73 (0.001)		
Parkinson Study Group ²²	2 mg/24 hour ^a	49	-0.04 (0.94)	-0.90 (0.44)		
	4 mg/24 hour ^a	47	-0.84 (0.11)	-1.88 (0.11)		
	6 mg/24 hour ^a	48	-0.92 (0.08)	-3.91 (0.001)		
	8 mg/24 hour ^a	51	-1.56 (0.003)	-3.82 (0.001)		
	Plo	47	_	_		
Watts et al ²³	5.7 mg ^b	180	-0.30±3.54	-3.50±7.26		
	Plo	96	-	_		
Giladi et al²	8 mg ^c	215	-2.1 ^d	-5.2^{d}		
	Plo	118	-0.I	-2.I		
Trenkwalder et al ²⁵	2–16 mg	178	-2.6±3.6	-7.0 (0.002)		
	Plo	89	-1.3±3.4	-3.9		
Advanced PD						
LeWitt et al ²⁶	≤8 mg/24 h	113	-3.I (0.00 4)	-6.8 (0.0185)		
	≤12 mg/24 h	109	-3.2 (0.0023)	-8.7 (0.0006)		
	Plo	119	-0.5	-3.4		

(Continued)

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Table I (Continued)

	Dose (mg/24 hour)	n	Change from baseline ± SD (P-value)			
			UPDRS II ADL	UPDRS III motor		
Poewe et al ²⁷	4–16 mg/24 hour	201	-4.2±4.5 (<0.0001)	-8.7±8.0 (<0.0001)		
	Plo	100	-2.0±4.3 (<0.0001)	-4.3±9.3 (<0.0001)		

Notes: 'RTG content per system (mg) originally reported; RTG nominal doses (mg/24 h) were calculated using a ratio of 2.25 (as per US prescribing information⁵), ie, 4.5 mg is equivalent to 2 mg/24 h, 9 mg to 4 mg/24 h, 13.5 mg to 6 mg/24 h, and 18 mg to 8 mg/24 h; ^bThe mean (SD) dose was 5.7 (0.84) mg/24 h; 6 mg dose for majority of participants; 'Ninety-two percent of those in the RTG group were treated with this dose in the maintenance phase and 8% had lower doses; there was no SD reported for UPDRS II or III separately; however, the combined UPDRS part III + part II scores were significantly more improved compared to placebo at the end of the maintenance phase (P<0.0001); 'there was no SD reported for UPDRS II or III separately, however the combined UPDRS part III + part II scores were significantly more improved compared to placebo at the end of the maintenance phase (P<0.0001).

Abbreviations: RTG, rotigotine; PD, Parkinson's disease; UPDRS II, Unified Parkinson's Disease Rating Scale part II (activities of daily living); UPDRS III, Unified Parkinson's. Disease Rating Scale part III (motor examination); Plo, placebo.

Table 3 Efficacy of RTG in RLS – change from baseline \pm SD (*P*-value)

Study, dose (mg/24 hour)	n	IRLS total score ± SD	CGI-I score ± SD	PSQI total score ±		
		(P-value)	(P-value)	SD (P-value)		
Inoue et al ⁴⁰						
2 mg	95	-14.3±8.9 (0.030)	_	-3.1±3.2 (0.188)		
3 mg	94	-14.6±9.0 (0.016)	_	-3.2±3.3 (0.112)		
Plo	95	−I I.6±8.2	_	-2.5 ± 2.4		
Oertel et al ²⁴						
2 mg ^a	41	-16.5±9.3	–2.7±1.4	-		
Plo	20	-9.9±9.9	−1.7±1.5	-		
Hening et al ¹⁰						
0.5 mg	98	-10.9±8.9 (0.0682)	4.7±0.8 (0.0603)	-		
l mg	99	-II.I±9.3 (0.0535)	4.6±0.7 (0.0857)	-		
2 mg	95	-13.4±9.2 (0.0002)	4.7±0.8 (0.0007)	_		
3 mg	103	-14.3±9.4 (<0.0001)	4.7±0.8 (<0.0001)	_		
Plo	99	-9.0±7.7	4.7±0.6	_		
Trenkwalder et al ⁸						
I mg	148	-14.0±0.8 (<0.0001)	-2.13±0.12 (<0.0001)	_		
2 mg	96	-16.4±1.0 (<0.0001)	-2.41±0.14 (<0.0001)	_		
3 mg	92	-16.8±1.1 (<0.0001)	-2.55±0.17 (<0.0001)	_		
Plo	111	-8.7±0.9	-I.37±0.15	_		
Oertel et al ⁹						
0.5 mg	50	-10.5±9.2 (0.2338)	-1.6±1.4	_		
I mg	64	-15.3±10.0 (0.0004)	−2.2±1.5 (<0.05)	-		
2 mg	49	-15.7±9.5 (0.0003)	−2.4±1.3 (<0.05)	_		
3 mg	64	-17.3±10.5 (<0.0001)	-2.7±1.6 (<0.05)	_		
4 mg	53	-14.9±10.3 (0.0013)	-2.3±1.5 (<0.05)	_		
Plo	53	-9.3±9.6	-1.5±1.4	_		
Stiasny-Kolster ⁴¹						
0.5 mg/24 hour ^b	19	-10.5±2.0	_	_		
I mg/24 hour⁵	13	-12.3±2.3	_	-		
2 mg/24 hour ^b	17	−15.7±1.9	_	-		
Plo	14	-8.0±2.2	_	_		

Notes: 'A mean dose of RTG in the treatment group was reported as 2.1 mg/24 hours; 'BRTG content per system (mg) originally reported; RTG nominal doses (mg/24 h) were calculated using a ratio of 2.25 (as per US prescribing information⁵), ie, 1.125 mg is equivalent to 0.5 mg/24 h, 2.25 mg to 1 mg/24 h, and 4.5 mg to 2 mg/24 h.

Abbreviations: RTG, rotigotine; RLS, restless legs syndrome; SD, standard deviation; IRLS, International Restless Legs Syndrome Study Group severity rating scale; CGI-1, Clinical Global Impressions item-1; PSQI, Pittsburgh Sleep Quality Index; Plo, placebo.

On page 66; paragraph 2, "In an open-label study, advanced-PD patients were treated with levodopa, pramipexole (<1.5 mg/day), or ropinirole (<6.0 mg/day), and RTG (<8 mg/24 hours) for an 8-week treatment period.⁷" should have been "In an open-label study, advanced-PD patients were treated with levodopa, pramipexole (≤1.5 mg/day), or

ropinirole (≤6.0 mg/day), and RTG (≤8 mg/24 hours) for an 8-week treatment period.^{7"}

On page 68; Table 3, data in the Study, doses column for the Stiasny-Kolster study and the Notes section have been updated. On page 69; Table 4, the data for the Stiasny–Kolster study and the Notes section have been updated.

Table 4 Side effects present in participants (%) during randomized, double-blinded, placebo-controlled trials

Side effect	Dose (mg/ 24 hour)	Inoue et al ⁴⁰		Hening et al ¹⁰	3	Trenkwalder et al ⁸	walder	Oertel et al ⁹		Oertel et al ^{24,a}		Stiasny– Kolster ^{41,b}	
		RTG	Plo	RTG	Plo	RTG	Plo	RTG	Plo	RTG	Plo	RTG	Plo
Application	0.5 mg	_	7.4	22.2	5.0	_	_	9.8	1.8	_	4.8	17.6	28.6
site reaction	l mg	_	_	17	_	35.0	2.0	15.6	_	_	_	38.5	_
2 mg 3 mg 4 mg		42.I	_	34.3	_	41.0	_	16.3	_	17.4	_	26.3	_
		50.0	_	34	_	52.0	_	20	_	_	_	_	_
	4 mg	_	_	_	_	_	_	25	_	_	_	_	_
Headache	0.5 mg	_	0	14.1	8.0	_	-	11.8	7.3	_	14.3	11.8	7.1
	I mg	_	_	12	_	10.0	7.0	7.8	_	_	_	38.5	_
	2 mg	5.3	_	10.1	_	13.0	-	2	_	17.4	_	21.1	_
	3 mg	2.1	_	10.4	_	16.0	_	4.6	_	_	_	_	_
	4 mg	_	_	_	_	_	_	12.5	_	_	_	_	_
Nausea	0.5 mg	_	9.5	13.1	10.0	_	-	5.9	9.1	_	4.8	0.0	14.3
	I mg	_	_	20	_	9.0	_	9.4	_	_	_	7.7	_
	2 mg	33.7	_	18.2	_	21.0	_	6.1	_	21.7	_	5.3	_
	3 mg	43.6	_	20.8	_	18.0	-	24.6	_	_	_	_	_
	4 mg	_	_	_	_	_	_	23.2	_	_	_	_	_
Fatigue	0.5 mg	_	_	10.1	4.0	_	_	3.9	9.1	_	9.5	0.0	0.0
	I mg	_	_	3	_	7.0	9.0	4.7	_	_	_	0.0	_
	2 mg	_	_	7.1	_	15.0	_	6.1	_	8.7	_	10.5	_
	3 mg	_	_	6.6	_	11.0	-	10.8	_	_	_	_	_
	4 mg	_	_	_	_	_	_	7.1	_	_	_	_	_
Pruritus	0.5 mg	_	_	9.1	2.0	_	_	5.9	1.8	_	_	5.9	7.1
	I mg	_	_	2	_	_	_	3.1	_	_	_	15.4	_
	2 mg	_	_	3	_	_	_	0	_	_	_	0.0	_
	3 mg	_	_	7.5	_	_	_	10.8	_	_	_	_	_
	4 mg	_	_	_	_	_	_	3.6	_	_	_	_	_
Hyperhidrosis	0.5 mg	_	_	_	_	_	-	_	_	_	_	_	0.0
	I mg	_	_	_	_	5.0	3.0	_	_	_	_	0.0	_
	2 mg	_	_	_	_	6.0	-	_	_	_	_	0.0	_
	3 mg	_	_	_	_	4.0	_	_	_	_	_	10.5	_
	4 mg	_	_	_	_	_	_	_	_	_	_	_	_
Somnolence	0.5 mg	_	2.1	8.1	6.0	_	_	_	_	_	9.5	_	_
	I mg	_	-	10.0	_	_	-	_	-	_	_	_	-
	2 mg	10.5	-	13.1	_	_	-	_	-	10.9	_	_	-
	3 mg	_	-	15.1	_	_	-	_	-	_	_	_	-
	4 mg	_	_	_	_	_	_	_	_	_	_	_	_

Notes: ^aThe study did not report the association of adverse events (AE) in relation to the dose of RTG. A mean dose of RTG in the treatment group was reported as 2.1 mg/24 hours; ^bRTG content per system (mg) originally reported; RTG nominal doses (mg/24 h) were calculated using a ratio of 2.25 (as per US prescribing information⁵), ie, 1.125 mg is equivalent to 0.5 mg/24 h, 2.25 mg to 1 mg/24 h, and 4.5 mg to 2 mg/24 h.

Abbreviations: RTG, rotigotine; Plo, placebo.

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