## Janssen-Ortho Inc., Canada MEDICAL AFFAIRS

## SYNOPSIS

Name of Sponsor/Company:	Janssen Ortho Inc.	Individual Study Table Referring to Part of the Dossier <b>n/a</b>	(for National Authority Use only)				
Name of Finished Product:	Concerta	Volume: n/a					
Name of Active Ingredient:	methylphenidate	Page: n/a					
Title of Study:		A double blind, randomized trial to evaluate the safety, tolerability and efficacy of CONCERTA® augmentation of SSRI/SNRI monotherapy in adult patients with Major Depressive Disorder					
Investigators: Study centre(s):		A. Ravindran ON;A. Fallu, J.;J. Ali NS;R. Chandrasena ON; P.Chokka AB; M-J Filteau QC;W. Gallarraga ON;S. Girgla ON;D. Koczerginski ON;S. Lessard ON, H. Leung ON;R. Milev ON;A. Moscovitch AB;A. Munshi NS;S. Patry QC;M. Renuka-Prasad SK;P. Turner ON					
Publication (reference)		submitted to Journal of Clinical Psychiatry November 2006					
Studied period (years): over 2 years		Phase of development:	Phase 3				
(date of first e	/	8 June 2005					
(date of last completed) Objectives:		18 April 2006         To evaluate the effects of adjunctive CONCERTA® or placebo in outpatients with Major Depressive Disorder (MDD). The safety and tolerability of the CONCERTA® and antidepressant combination will be assessed.					
Methodology:		A multi-center, double-blind, randomized, placebo control parallel group, clinical trial. There are 7 mandated study vi consisting of up to a 2-week screening period and a 5-weel treatment period. Male or female outpatients (18 – 65 year age) meeting diagnostic criteria for current Major Depress Disorder who have had an inadequate response (refer to in- criteria #5) to antidepressant therapy and are currently on a dose of SSRI/SNRI therapy (defined in protocol) will be en					
Number of patients (pl analyzed):	anned and	130 planned	145 analyzed				
Diagnosis and main cr	iteria for inclusion:	- male or female outpatients, between 18 and 65 years of age inclusive; -current Major Depressive Episode without psychotic features, DSM-IV-TR criteria and confirmed by M.I.N.I. at screening; -an inadequate response to at least one but not more than 3 trial of adequate dosage of monotherapy antidepressant (SSRI/SNR given for a minimum of 4 weeks (the current antidepressant ma be considered a failed course) at screening; -currently on an adequate antidepressant dosage (SSRI/SNRI) the past 4 weeks at screening (see Attachment 2); -must have the following MADRS scores; a minimum total sco of $\geq 20$ , the lassitude item #7 score of $\geq 2$ and suicidal thought item #10 score of <4 at screening and baseline; -a CGI-S $\geq 4$ at screening and baseline; -healthy on the basis of ECG, physical and laboratory tests					

Test product, dose and mode of administration, batch number:	18mg CONCERTA® or matching placebo administered orally in the morning was provided by Cardinal Health. The maximum dose would be 54 mg (or $3 \times 18$ mg tab/day).
Duration of treatment:	5 weeks
Reference therapy, dose and mode of administration, batch number	Matching placebo administered as multiples of 18 mg.
Criteria for evaluation:	
Efficacy:	Efficacy measures collected include: Montgomery-Asberg Rating Scale (MADRS), 7-atypical items of the Hamilton Depression Scale (HAM-D- 31), Clinical Global Impression of Severity and Improvement (CGI-S, CGI-I) Scale, the Sexual Function Scale (SEX FX) and the subject's self reports, Multidimensional Assessment of Fatigue (MAF) and Apathy Evaluation Scale (AES).
Safety:	Adverse events, fasting laboratory tests, vital signs, physical exam, ECG
Statistical Methods:	The primary variable to be assessed is the MADRS. At present the mean treatment difference (defined as the change from baseline in total MADRS score between the two groups) and the standard deviation (SD) of this difference are unknown. This exploratory trial will estimate a 95% confidence interval for the mean treatment difference of the MADRS score change from baseline. The sample size was calculated by requiring that the size of the 95% confidence interval estimate of the MADRS treatment groups difference be less than or equal to 80% the size of the estimated standard deviation of the difference. Assuming a 30% drop out, a sample of 65 subjects per group, for a total of 130 subjects is required The efficacy analyses will be based on the ITT population, defined as all subjects who receive at least one dose of the investigational medication and have at least one post-baseline efficacy assessment. For each continuous efficacy variable, the change from baseline score at each visit and at endpoint will be analyzed by group and for between-group differences with descriptive statistics. Intergroup differences will also be presented with 95% confidence intervals. For each of the categorical efficacy variables, the frequency distribution will be presented by group for each visit. For binary response variables, intergroup differences will be presented with 95% confidence intervals. The primary population for safety will be all subjects who receive at least one dose of study medication. The percentage of subjects with specific treatment-emergent adverse events during treatment will be summarized for each treatment group. For vital sign, changes from baseline in vital sign measurements will be presented descriptively.

Subject Flow		
	Concerta	Placebo
	N (%)	N (%)
Randomized	73	72
Completed study	62(84.9)	68(94.4)
Early	11 (15.1)	4 (5.6)
discontinuation		
Subject choice	0	1 (1.6%)
(consent withdrawn)		
Insufficient	1 (1.4%)	1 (1.4%)
response		
Adverse event	6 (8.2%)	0
Subject non-	2(2.7%)	0
compliant		
Other reason		
Study drug lost	0	1(1.4%)
Study med stolen	2 (2.7%)	1(1.4%)

All randomized patients were eligible for the intent to treat (ITT) population; 68 Concerta and 66 placebo patients were eligible for the per protocol population. Since the results for the per protocol population were similar to the ITT population, the results presented here are for the ITT population.

Treatment					
group (AGE)	Ν	Mean	SD	Minimum	Maximum
Concerta	73	45.6	10.81	22	65
Placebo	72	41.9	10.90	18	65

## EFFICACY RESULTS

Characteristics		Concerta	Placebo
Gender:	Male	26 (35.6%)	25 (34.7%)
	Female	47(64.4%)	47(65.3%)
Race:	Caucasian	71(97.3%)	71 (98.6%)
	Other	2(2.8%)	1(1.4%)

Trial medication mean dose, all patients.

	Ν	Mean	SD	Minimum	Maximum
Concerta	73	36.4	9.15	8.6	45.8
Placebo	74	40.8	5.21	18.0	45.9

Trial medication mean final dose, completers

	Ν	Mean	SD	Minimum	Maximum
Concerta	62	48.2	10.15	18.00	54.0
Placebo	68	51.6	6.89	18.0	54.0

Final dose frequency:65.8% of patients were on a final Concerta dose of 54mg, 21.9% on 36mg and 12.3% on 18mg.

The primary efficacy variable, the MADRS, improved over time, with a statistically significant improvement in favor of Concerta® observed at day 14 (p<0.05). However, this difference was not maintained at other timepoints measured and there was no significant difference in mean MADRS scores between the two groups at endpoint (-10.38 for Concerta®; -10.83 for placebo). None of the secondary efficacy variables (7 atypical items HAM-D, CGI-S and I,SEX-FX) demonstrated a difference at endpoint between the active and placebo group except for the AES and the MAF using mixed model analysis.

The AES was statistically significant in favour of Concerta beginning at Day 5 (p<0.02) and at each visit thereafter to Day 35/endpoint (p<0.01).

The MAF demonstrated a statistically significant effect in favor of Concerta at each visit beginning at Day 5(p-0.005) to Day 28(p<0.005) but not at endpoint(p=0.11). When the mixed model analysis was performed, a statistically significant difference was found in favor of Concerta® (df=1, F-value 6.82, p<0.01). Similar to the MADRS, the mean CGI-I score was statistically significant at day 14 in favor of Concerta® (2.8, p = 0.0074) compared to placebo (3.3) and was not maintained. The mean CGI-S score was statistically significant in favour of Concerta only at Day 5 (p=0.02) and not at any other visit.
The Sexual Functioning Questionnaire (SEX FX) is a clinician-rated scale to evaluate function in the domains of desire, arousal, and orgasm among depressed patients, who are either taking antidepressant medication or who are untreated (Kennedy et al, 2000). One component of the scale measures change in the domains of sexual function the other component measures change of overall satisfaction of sexual functioning and enjoyment of sexual romantic life. There were was a statistically significant difference seen in the SEX-FX for function in subjects sexually active at baseline but no difference in the patient's global sexual impression of satisfaction/enjoyment. There was no statistically significant difference between treatment groups for patients who were not sexually active at baseline.

		-	<b>=</b> 0 /						
	Table of	adverse events $\geq$	5%		Co	ncerta	2		Placebo
	Event					MCCI (A) % (N)	9		% (N)
	Headac	che				.14 (22	)		19.44 (14)
	Nausea				15	.07 (11			9.72 (7)
	* *	te Decreased Nos				.22 (6)			
		on Cold iinal Cramps				.22 (6) .48 (4)			
	Dry Me	-				.48 (4)			
	Fatigue	e Aggravated			5	.48 (4)			
	Anxiet					.48 (4)			
	Insomn	na			5	.48 (4)			6.94 (5)
	Five patients o "doubtful" cau experienced ac was "unlikely" A serious adve	webo discontinued on Concerta experi- sality by the invest dverse events rated '. erse event was rep- accident, receivin	ienced stigator d as sev orted f	adverse e r and 1 of vere of w for a patie	ther was hich 1 w ent who h	rated "u as cons	inlikel	y". Three "doubtfu	placebo pat l" causality a
	Heart rate in th	ne Concerta group	increa	sed a me	an of 1.3	(SD 9.	03) be	ats per m	inute at endp
	in comparison group. Mean s Hg (SD 10.2- i	ne Concerta group to a mean 1.7 bea ystolic blood press increase in the Co . A similar effect y	t (SD ) sure ch ncerta	12.1) per nanges wo ® group o	minute of ere simil compare	(SD 9. lecrease ar betw 1 to a 0.	e in hea een the 8 decr	art rate in 2 groups	the placebo s with a 1.1m
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	in comparison group. Mean s Hg (SD 10.2- i placebo group. Vit Observed Values Change from	to a mean 1.7 bea ystolic blood press increase in the Co A similar effect w al Signs Screened Baseline Day 5 Day 14 Day 21	nt (SD sure ch ncerta was sec n 73 73 72 66 64	12.1) per nanges wo ® group o en in dias ncerta N= Mean 73.3 76.2 1.1 3.0 1.6	minute c ere simil compared stolic blo * 73 * 5D 10.07 10.16 * .35 9.46 9.19 9.28	(SD 9. lecrease ar betw d to a 0. od pres pla n 71 72 72 71 69	e in hea een the 8 decrusure. Mean 73.8 76.7 -0.7 -1.1 0.5 -0.4	art rate in e 2 groups ease (SD = 72 SD 10.12 12.04 8.15 10.55 9.76	the placebo s with a 1.1m
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CONC	LUSION: This is of Conc was see endpoir improve placebo previou	the first certa aug n on de tt. How ement o groups sly pres	all in the placebo sterol and/or trig clinically signific ted in the Concer- up. large, multicentr gmentation of an pressive symptor ever, the symptor ver the 5week tre experienced a re cribed antidepres	lyceride cant ECC rta® gro re rando tidepres ns as as ns of fa catment sponse ssants, s	s were G chang bup con mized, ssants in sessed tigue at period rate of pontance	common ges in eit apared to placebo n treatme by MAD ad apath in favor 40%. It i eous rem	controll controll ent resision RS and y showe of Conc s possibilissions a	ed study tant depr CGI-S/I d early a verta. Bo le that the	th the Concerta and ne ongoing effect of supportive therapeutic
Date of this re	the Cor blood p Concer adverse	icerta gr ressure. ta appea events.	oup did not deme Adverse events red to be well to	onstrate were mi	any cli ld to m	nically s oderate	ignification in the m	nt effect ajority c	the groups.Patients in s on ECG, heart rate or of Concerta patients and scontinuations due to

## Disclaimer

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