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Supplementary Material

Article Title: Varenicline for Smoking Cessation in Bipolar Disorder: A Randomized, Double-Blind, Placebo-Controlled Study

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Supplementary eTable 1 Serious Adverse Events (SAE)								
ID	Age/ Gender/ Race	Description	Varenicline or Placebo	Relationship to Study Medicine	Study Phase	Start and Stop Dates of SAE and Outcome	Smoking Status at time of SAE	Actions Taken
102	55/F/C	Subject exposed to significant stressor (terminally ill brother in hospital). Became very anxious and requested admission to hospital. Denied suicidal/homicidal ideation. Subject had taken only 1 dose of study medication. <u>SAE Terminology</u> : Exacerbation of Anxiety	Varenicline	<u>Unlikely</u> Discussed and confirmed at DSMB meeting 03/12/10	Phase 1	03/12/2010-03/20/2010, Resolved	Smoking at same rate	Study medication stopped. Subject terminated from study and hospitalized. Discharged in 8 days with previous psychotropic medications and mirtazapine was added.
104	48/F/C	After 6 days of study medication, subject developed red, raised maculopapular rash on arms, shoulders and inner thighs. Was also receiving lamotrigine (started 3 months prior to study) <u>SAE Terminology</u> : Development of Rash	Varenicline	<u>Possible</u> Discussed and confirmed with DSMB 06/14/10	Phase 1	06/10/2010-06/14/2010, Resolved - 06/23/2010	Smoking at same rate	Study medication stopped. Subject terminated from study. Lamotrigine was discontinued
10	42/M/C	After receiving an eviction notice, subject became very agitated, began using crack cocaine, heroin, and alcohol, became hostile and expressing homicidal intentions toward roommate. Hospitalized on involuntary commitment. <u>SAE Terminology</u> : Agitation, hostility, alcohol abuse, drug abuse.	Varenicline	<u>Possible</u> Discussed and confirmed via e-mail with DSMB on 08/04/10	Phase 1	7/29/2010-08/4/2010, Resolved	Quit for 3 weeks	Study medication stopped. Hospitalized. Discharged in 6 days on previous psychotropic medication regimen.
17	53/F/C	Subject with history of asthma and COPD. Subject experienced severe breathing difficulty and was admitted to the University hospital	Varenicline	<u>Unlikely</u> Discussed and confirmed at DSMB meeting	Phase 1	10/12/2010-11/03/2010, Resolved	Smoking at reduced rate	Continued on study medication in the hospital and upon discharge.

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		and treated with steroids, antibiotics, and breathing treatments. <u>SAE Terminology</u> : Hypoxia, asthma with COPD with acute exacerbation		10/27/10				Completed study. Did not quit.
105	56/F/C	Subject contacted via phone after no show for Visit 4. Subject was incoherent and speech was slurred. Admitted to drinking vodka and unsure if she had taken more medications than prescribed. 911 (ambulance) was called and subject admitted to community hospital <u>SAE Terminology</u> : Hospitalization related to alcohol intoxication	Placebo	<u>Unlikely</u> . Discussed and determined at the DSMB meeting 12/22/10	Phase 1	12/22/2010-12/25/2010, Resolved	Smoking at same rate	Study medication stopped and subject terminated from study. Hospitalized. Discharged on previous psychiatric medication regimen.
40	24/F/C	Contacted by subject's mother that subject was experiencing tremors, heaviness in left arm and grogginess. <u>SAE Terminology</u> : Tremulousness, grogginess, upper left arm weakness.	Varenicline	<u>Unlikely</u> Discussed and determined by DSMB Meeting 06/22/2011	Phase 1	06/07/2011-06/13/2011 Resolved	Smoking at a reduced rate	Seen by emergency room MD and by endocrinology. Diagnosis - Reactive hypoglycemia. Subject withdrew from study.
46	45/F/C	Shortness of breath and worsening of asthma symptoms. Admitted to University hospital where she was treated with antibiotics; steroids and breathing treatments. <u>SAE Terminology</u> : Exacerbation of asthma	Placebo	<u>Unlikely</u> Confirmed and decision made to continue subject in study at DSMB meeting 02/29/12	Phase 1	02/25/2012-02/26/2012, Resolved	Smoking at a reduced rate	Subject continued on study medication in hospital and continued in study. Hospitalized and discharged.

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52	27/F/AA	Laboratory work done at end of treatment phase reported a positive pregnancy test (previous 3 pregnancy tests –were all negative). <u>SAE Terminology</u> : Pregnancy	Placebo	<u>Unlikely</u> Confirmed at DSMB meeting on 08/08/2012	Phase 1	08/07/2012, Resolved	Smoking at reduced rate	Study medication had already been stopped. Subject terminated from study. Subject counseled to stop smoking.
51	61/M/C	Subject hospitalized for c/o gastro intestinal complaints as well as breathing difficulty and nasal congestion. <u>SAE Terminology</u> : Pneumonia	Varenicline	<u>Unlikely</u> Discussed and confirmed at DSMB meeting 09/26/2012	Phase 2	08/23/2012-8/27/2012, Resolved	Quit for nearly 12 weeks	Patient was <u>off study medication for 19 days</u> . Subject continued and completed study. Hospitalized and discharged
54	51/F/AA	Subject went to the hospital after experiencing chest pain and numbness in left hand. Enzymes for myocardial infarction – negative. Pain and numbness subsided. Subject discharged next day. <u>SAE Terminology</u> : Chest pain, left hand numbness	Placebo	<u>Possible</u> Discussed and determined at DSMB meeting on 12/19/2012	Phase 2	12/16/2012-12/17/2012, Resolved	Smoking at a reduced rate	Subject was <u>off study medication for 46 days</u> . Subject continued in study.

Footnote: Phase 1: 12 weeks of Treatment with Varenicline or Placebo, Phase 2: Follow Up (weeks 12 through 24)

Supplementary eTable 2 – Details of Neuropsychiatric Adverse Events – Depressed Mood

<u>ID</u>	<u>Rx</u>	<u>MADRS Baseline</u>	<u>MADRS Scores /Visit #s /# of Days</u>	<u>Episode Of Depression</u>	<u>Specific Rx for Depressive Episode</u>	<u>Quit Status</u>	<u>Severity</u>	<u>Relationship to Study Drug</u>	<u>Study Meds Action Taken</u>
1	V	4	MADRS = 10 Visits 7 (to 8) # Days 11	No	No	No	1	3	1
5	V	8	MADRS = 5 to 10 Visits 10 (to 15) # Days 35	No	No	Yes	1	3	1
21	V	8	MADRS = 10 Visit 14 # Days 11	No	No	Yes	1	3	1
30	V	3	MADRS = 19 Visits 11 (to 12) # Days 14	Yes	Yes, sertraline started	No	2	3	1
40	V	2	MADRS = 18 Visits 6 (to 7) # Days 14	Yes	Yes, Duloxetine increased 60 to 90 mg	No	2	3	4
41	V	1	MADRS = 16 Visit 8 # Days 21	Yes	Yes, escitalopram added	Yes	2	3	1
42	V	8	MADRS = 19 Visits post 14 (to 17) # Days 21	Yes	Yes, ↑therapy visits	No	3	3	1
45	V	4	MADRS = 15 Visits 9 (to 10) # Days 5	No	No	No	2	3	1
31	P	1	MADRS = 9 Visit 16 # Days 9	No	No	No	2	4	1
46	P	1	MADRS = 16 Visits 12(to 14) # Days 14	Yes	Yes, lamotrigine increased	No	3	3	1

V = Varenicline, P = Placebo

Severity → 1 = mild, 2 = moderate, 3 = marked

Relationship → 1 = certain, 2 = probable/likely, 3 = possible, 4 = unlikely

Action Taken → 1 = none, 2 = drugs decreased, 3 = drugs stopped temp, 4 = drugs stopped permanently

Supplementary eTable 3 – Vital Signs ^a

Vital Sign	<u>Baseline</u>		<u>12 Weeks</u>		<u>24 Weeks</u>	
	Varenicline Mean (SD) n = 31	Placebo Mean (SD) n = 29	Varenicline Mean (SD) n = 29	Placebo Mean (SD) n = 25	Varenicline Mean (SD) n = 23	Placebo Mean (SD) n = 20
Blood Pressure						
Systolic (mm/hg)	126.2 (15.3)	125.00 (17.9)	123.4 (11.5)	119.6 (13.4)	123.7 (11.8)	128.9 (12.7)
Diastolic (mm/hg)	80.2 (9.6)	79.0 (8.6)	79.4 (8.2)	78.6 (11)	78.7 (8.8)	79.6 (8.6)
Resting Pulse (beats/min)	79.2 (8.1)	75.5 (10.2)	82.8 (9.4)	78.1 (12.3)	82.6 (9.3)	81.6 (11.5)
Respiratory Rate (rate/min)	18.5 (4)	18.8 (2.2)	18.7 (2)	18.2 (1.9)	19.0 (1.9)	18.7 (1.5)
Temperature (°F)	97.8 (0.6)	98.0 (0.7)	97.7 (0.5)	97.7 (0.7)	97.5 (0.5)	97.8 (0.5)
Body Weight (lbs)	199.2 (47.4)	202.7 (42)	196.8 (47)	204.4 (44.7)	205.3 (49.6)	209 (44.7)

n = number, SD = standard deviation, ^a none of the between group treatment comparisons were statistically significant