**SUPPLEMENTAL MATERIAL**

**METHODS**

Other exclusion criteria included the following: evidence or history of clinically significant hematological, renal, endocrine, pulmonary, gastrointestinal, oncologic, dermatologic, cardiovascular disease, or immunologic disease; significant neurological disorder or hepatic disorder; acquired immune deficiency syndrome (AIDS), human immunodeficiency virus (HIV) positive test; and history of either treatment-resistant schizophrenia according to Kane criteria,1 myeloproliferative disorder or clozapine-induced agranulocytosis or granulocytopenia, Neuroleptic Malignant Syndrome, clinically significant tardive dyskinesia, non-nicotine psychoactive substance dependence within 12 months of screening or substance abuse within 3 months prior to screening, or receipt of clozapine in the 6 months prior to randomization, depot antipsychotic medication in the 3 months prior to randomization, or electroconvulsive therapy within 6 months prior to randomization.

These criteria did not preclude adequately controlled hypothyroidism or hyperthyroidism, chronic bronchitis, mild emphysema, chronic obstructive pulmonary disease, controlled Type 2 diabetes, positive hepatitis C antibody with normal liver functions tests, controlled essential hypertension and nonclinically significant sinus bradycardia and sinus tachycardia.

Patients were additionally excluded for repeated demonstration of (Fridericia’s) corrected QT interval >450 msec on 12-lead ECG at screening or baseline and white blood cell (WBC) count <3500/mm3 or absolute neutrophil count (ANC) <2000/mm3 (thresholds for patients with benign ethnic neutropenia, WBC <3000/mm3, ANC <1500/mm3), positive urine drug screen for non-prescribed medications (unless the documented clinical history excluded a substance-induced etiology for the current episode of acute schizophrenia), use of prohibited medications that could not be discontinued during the study, inability to reduce daily benzodiazepine intake during hospitalization to a protocol-defined level, and clinically significant abnormal laboratory test results at screening. Screening aspartate aminotransferase (AST) and alanine aminotransferase (ALT) must have been ≤2 times the upper limit of the reference range, and total bilirubin, ≤1.5 times of the upper limit of the reference range.

Women of childbearing potential must have been sexually abstinent or agreed to use contraception from screening through 30 days after the last dose of study drug. Pregnant and breastfeeding women were excluded.

**TABLE S1.** Change From Baseline at Day 28 in PANSS-Derived Marder Factor Scores

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Assessment** | **N** | **LS Mean (SE) Change From Baseline** | **Difference From Placebo** | | | |
| **LS Mean (SE) Change** | | **80% CI** | ***P*-Value** |
| **Marder Positive Factor Score** | | | | | | |
| PF-02545920 5 mg Q12H | 63 | –5.0 (0.6) | –0.7 (0.9) | (–1.8, 0.4) | | NS |
| PF-02545920 15 mg Q12H | 58 | –4.7 (0.6) | –0.4 (0.9) | (–1.5, 0.8) | | NS |
| Risperidone 3 mg Q12H | 26 | –6.9 (0.9) | –2.6 (1.1) | (–4.1, –1.2) | | 0.010 |
| Placebo | 63 | –4.3 (0.6) | - | - | | - |
| **Marder Negative Factor Score** | | | | | | |
| PF-02545920 5 mg Q12H | 63 | –2.8 (0.6) | –0.8 (0.8) | (–1.8, 0.2) | | NS |
| PF-02545920 15 mg Q12H | 58 | –2.6 (0.6) | –0.6 (0.8) | (–1.6, 0.4) | | NS |
| Risperidone 3 mg Q12H | 26 | –2.8 (0.8) | –0.8 (1.0) | (–2.1, 0.5) | | NS |
| Placebo | 63 | –2.0 (0.6) | - | - | | - |
| **Marder Disorganized Thought Score** | | | | | | |
| PF-02545920 5 mg Q12H | 63 | –2.1 (0.4) | –0.4 (0.6) | (–1.2, 0.4) | | NS |
| PF-02545920 15 mg Q12H | 58 | –1.8 (0.5) | –0.1 (0.6) | (–0.9, 0.7) | | NS |
| Risperidone 3 mg Q12H | 26 | –3.2 (0.7) | –1.5 (0.8) | (–2.5, –0.4) | | 0.035 |
| Placebo | 63 | –1.7 (0.4) | - | - | | - |
| **Marder Hostility / Excitement Score** | | | | | | |
| PF-02545920 5 mg Q12H | 63 | –0.8 (0.4) | –0.04 (0.5) | (–0.7, 0.6) | | NS |
| PF-02545920 15 mg Q12H | 58 | –0.6 (0.4) | 0.2 (0.5) | (–0.5, 0.8) | | NS |
| Risperidone 3 mg Q12H | 26 | –2.4 (0.5) | –1.7 (0.6) | (–2.5, 0.8) | | 0.005 |
| Placebo | 63 | –0.7 (0.4) | - | - | | - |
| **Marder Anxiety / Depression Score** | | | | | | |
| PF-02545920 5 mg Q12H | 63 | –2.5 (0.4) | 0.1 (0.5) | (–0.6, 0.8) | | NS |
| PF-02545920 15 mg Q12H | 58 | –2.2 (0.4) | 0.5 (0.5) | (–0.2, 1.2) | | NS |
| Risperidone 3 mg Q12H | 26 | –4.3 (0.6) | –1.7 (0.7) | (–2.6, 0.9) | | 0.007 |
| Placebo | 63 | –2.6 (0.4) | - | - | | - |
| Level of significance is 0.1.  CI indicates confidence interval; LS, least squares; NS, not statistically significant; SE, standard error. | | | | | | |

**TABLE S2.** Change From Baseline at Day 28 in PANSS-Derived BPRS, CGI-S, and GAF Scores

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assessment** | **N** | **LS Mean (SE) Change From Baseline** | **Difference From Placebo** | | |
| **LS Mean (SE) Change** | **80% CI** | ***P*-Value** |
| **PANSS-Derived BPRS Score** | | | | | |
| PF-02545920 5 mg Q12H | 63 | –3.4 (0.4) | –0.3 (0.6) | (–1.1, 0.4) | NS |
| PF-02545920 15 mg Q12H | 58 | –3.1 (0.4) | –0.04 (0.6) | (–0.8, 0.7) | NS |
| Risperidone 3 mg Q12H | 26 | –5.1 (0.6) | –2.0 (0.7) | (–2.9, –1.1) | 0.003 |
| Placebo | 63 | –3.1 (0.4) | - | - | - |
| **CGI-I Score** | | | | | |
| PF-02545920 5 mg Q12H | 63 | 3.2 (0.1) | –0.1 (0.2) | (–0.3, 0.2) | NS |
| PF-02545920 15 mg Q12H | 58 | 3.4 (0.1) | 0.1 (0.2) | (–0.1, 0.4) | NS |
| Risperidone 3 mg Q12H | 26 | 2.5 (0.2) | –0.8 (0.3) | (–1.1, –0.4) | 0.002 |
| Placebo | 63 | 3.3 (0.1) |  |  |  |
| **CGI-S Score** | | | | | |
| PF-02545920 5 mg Q12H | 63 | –0.7 (0.1) | –0.1 (0.2) | (–0.3, 0.1) | NS |
| PF-02545920 15 mg Q12H | 58 | –0.6 (0.1) | –0.1 (0.2) | (–0.2, 0.2) | NS |
| Risperidone 3 mg Q12H | 26 | –0.9 (0.2) | –0.4 (0.2) | (–0.6, –0.1) | 0.039 |
| Placebo | 63 | –0.6 (0.1) |  |  |  |
| **GAF Score** | | | | | |
| PF-02545920 5 mg Q12H | 62 | 5.7 (1.0) | –0.2 (1.5) | (–2.1, 1.7) | NS |
| PF-02545920 15 mg Q12H | 57 | 6.1 (1.1) | 0.2 (1.5) | (–1.7, 2.2) | NS |
| Risperidone 3 mg Q12H | 26 | 8.4 (1.6) | 2.5 (1.9) | (0.1, 5.0) | NS |
| Placebo | 62 | 5.9 (1.0) | - | - | - |
| Level of significance is 0.1.  BPRS indicates Brief Psychiatric Rating Scale; CGI-I, Clinical Global Impression of Improvement; CGI-S, Clinical Global Impression of Severity; CI, confidence interval; GAF, Global Assessment of Function; LS, least squares; NS, not statistically significant; PANSS, Positive and Negative Syndrome Scale; SE, standard error. | | | | | |

**Figure S1.** Patient disposition.

Screened N = 368

Randomized N = 259

PF-02545920

15 mg Q12H

N = 74

Risperidone

3 mg Q12H

N = 37

Placebo

N = 74

PF-02545920

5 mg Q12H

N = 74

Completed n = 58

Completed n = 25

Completed n = 60

Completed n = 52

Discontinued n = 16

Death n = 1

Insufficient clinical

response n = 4

Lost to follow-up

n = 1

Wanted to withdraw

n = 4

Protocol violation

n = 1

Other n = 3

Drug-related AE  
n = 0

Other AE n = 2

Discontinued n = 22

Death n = 0

Insufficient clinical

response n = 5

Lost to follow-up

n = 2

Wanted to withdraw

n = 8

Protocol violation

n = 1

Other n = 1

Drug-related AE  
n = 3

Other AE n = 2

Discontinued n = 11

Death n = 0

Insufficient clinical

response n = 0

Lost to follow-up

n = 0

Wanted to withdraw

n = 5

Protocol violation

n = 0

Other n = 3

Drug-related AE  
n = 1

Other AE n = 2

Treated n = 36

Withdrew for personal reasons  
n = 1

Treated n = 74

Treated n = 74

Treated n = 74

Discontinued n = 14

Death n = 0

Insufficient clinical

response n = 5

Lost to follow-up

n = 0

Wanted to withdraw

n = 5

Protocol violation

n = 0

Other n = 0

Drug-related AE  
n = 3

Other AE n = 1

**Table S3**

**Germany**

**Coordinating Investigators:**

**Prof. Dr. med. Franz-Markus Leweke**

| **Center** | **Principal Investigator** | **Co-Investigator(s)** | **Sub-Investigator(s)** | **Address(es)** | **Institutional Review Board or Ethics Committee Address(es)** |
| --- | --- | --- | --- | --- | --- |
| 1041 \* | Prof. Dr. med. Franz-Markus Leweke |  | Dr. med. Barbara Bode Dr. med. Frank Enning Juliane Mueller Dr. med. Till van der List Dr. med. Jutta Weikel | Zentralinstitut fuer Seelische Gesundheit Klinik fuer Psychiatrie und Psychotherapie J5 Mannheim, 68159 GERMANY | Ethik-Kommission II der Universitaet Heidelberg Universitaetsklinikum Mannheim Maybachstrasse 14 Mannheim, 68169 GERMANY |
| \*did not randomize pateints | | | | | |
| 1042 \* | Prof. Dr. med. Georg Juckel |  | Prof. Dr. med. Martin Bruene Dr. med. Joerg Heller Dr. med. Patrik Roser Eike Zeschel | LWL-Universitaetsklinik Bochum Psychatrie, Psychotherapie, Psychosomatik, Praeventivmedizin, Klinik der Ruhr-Universitaet Bochum Alexandrinenstr. 1-3 Bochum, 44791 GERMANY | Ethik-Kommission II der Universitaet Heidelberg Universitaetsklinikum Mannheim Maybachstrasse 14 Mannheim, 68169 GERMANY |
| \*did not randomize pateints | | | | | |

**Ukraine**

| **Center** | **Principal Investigator** | **Co-Investigator(s)** | **Sub-Investigator(s)** | **Address(es)** | **Institutional Review Board or Ethics Committee Address(es)** |
| --- | --- | --- | --- | --- | --- |
| 1045 | Prof. Andrii M. Skrypnikov |  | Dr. Volodymyr V. Borysenko Dr. Oleksii A. Kazakov | Poltava Regional Clinical Psychiatric Hospital n.a. O.F. Maltsev  Department of Psychiatry, Narcology and Medical Psychology of UMSA 1 Medychna Street Poltava, 36006 UKRAINE | Central Committee for Ethics Issues of Ministry of Health of Ukraine 5, Narodnogo opolchennya Street Kyiv, 03680 UKRAINE  Committee for Ethics Issues of Poltava Regional Clinical Psychiatric Hospital n.a. O.F. Maltsev 1 Medychna Street Poltava, 36006 UKRAINE |
|  |  |  |  |  |  |
| 1046 | Prof. Iryna D. Spirina |  | Dr. Yelizaveta S. Fedenko Dr. Tamara Y. Shusterman | Municipal Establishment "Dnipropetrovsk Regional Clinical Psychiatric Hospital" Department of Psychiatry, General and Medical Psychology of Dnipropetrovsk State Medical Academy 1 Bekhtereva Street Dnipropetrovsk, 49115 UKRAINE | Central Committee for Ethics Issues of Ministry of Health of Ukraine 5, Narodnogo opolchennya Street Kyiv, 03680 UKRAINE  Committee for Ethics Issues of Dnipropetrovsk Regional Psychiatric Hospital 1 Bekhtereva Street Dnipropetrovsk, 49115 UKRAINE |
|  |  |  |  |  |  |
| 1047 | Prof. Svitlana M. Moroz |  | Dr. Roman V. Kulesh Dr. Inna I. Makarova Dr. Mykola G. Salyayev Dr. Vladlena E. Semenikhina Dr. Nataliya V. Turishcheva | Municipal Establishment "Dnipropetrovsk Regional Clinical Hospital n.a. Mechnikov" Regional Centre of Psychosomatic Disorders 14 Zhovtneva Square Dnipropetrovsk, 49005 UKRAINE | Central Committee for Ethics Issues of Ministry of Health of Ukraine 5, Narodnogo opolchennya Street Kyiv, 03680 UKRAINE  Committee for Ethics Issues of Dnipropetpovsk Regional Clinical Hospital n.a. Mechnikov 14, Zhovtneva Square Dnipropetrovsk, 49005 UKRAINE |
|  |  |  |  |  |  |
| 1048 | Prof. Svitlana E. Kazakova |  | Dr. Vitaliy E. Kazakov Dr. Lyudmyla G. Tarapura Dr. Sergiy O. Ukrayinskyy | Lugansk Regional Clinical Psychoneurological Hospital Department of Psychiatry, Narcology and Medical Psychology of Lugansk State Medical University 22 50-let Oborony Luganska Square Lugansk, 91045 UKRAINE | Central Committee for Ethics Issues of Ministry of Health of Ukraine 5, Narodnogo opolchennya Street Kyiv, 03680 UKRAINE  Committee for Ethics Issues of Lugansk Regional Clinical Psychoneurological Hospital 22 50-let Oborony Luganska Square Lugansk, 91045 UKRAINE |
|  |  |  |  |  |  |
| 1049 | Vladyslav A. Demchenko |  | Dr. Yulia O. Benesko Dr. Petro G. Likhtanskyy Tetyana V. Vitebska | Kyiv City Psychoneurological Hospital #2 8 Miropilska Street Kyiv, 02660 UKRAINE | Central Committee for Ethics Issues of Ministry of Health of Ukraine 5, Narodnogo opolchennya Street Kyiv, 03680 UKRAINE  Committee for Ethics Issues of Kyiv City Psychoneurological Hospital #2 8 Miropilska Street Kyiv, 02660 UKRAINE |
|  |  |  |  |  |  |
| 1050 | Dr. Pavlo V. Palamarchuk |  | Dr. Petro A. Blahyy Dr. Luyiza V. Krymska | Kherson Regional Psychiatric Hospital, Department #3 65 Govard Street Stepanivka, Kherson, 73488 UKRAINE | Central Committee for Ethics Issues of Ministry of Health of Ukraine 5, Narodnogo opolchennya Street Kyiv, 03680 UKRAINE  Committee for Ethics Issues of Kherson Regional Psychiatric Hospital 65 Govard Street Stepanivka, Kherson, 73488 UKRAINE |
|  |  |  |  |  |  |
| 1051 | Dr. Yuliya Blazhevych |  | Dr. Volodymyr L. Chapskyy Dr. Viacheslav D. Mishyiev Dr. Nataliia P. Ostrogliad Dr. Taisa I. Sichenko | Kyiv City Clinical Psychoneurological Hospital #1 Centre of Novel Treatment and Rehabilitation Methods of Psychotic Disorders 103-A Frunze Street Kyiv, 04080 UKRAINE | Central Committee for Ethics Issues of Ministry of Health of Ukraine 5, Narodnogo opolchennya Street Kyiv, 03680 UKRAINE  Committee for Ethics Issues of Kyiv City Clinical Psychoneurological Hospital #1 103-A Frunze Street Kyiv, 04080 UKRAINE |
|  |  |  |  |  |  |

## *United States*

| **Center** | **Principal Investigator** | **Co-Investigator(s)** | **Sub-Investigator(s)** | **Address(es)** | **Institutional Review Board or Ethics Committee Address(es)** |
| --- | --- | --- | --- | --- | --- |
| 1001 | Dr. Richard David Knapp |  | Patria N. Davis Gilbert B. De La Cruz Dr. Martin Stanley Kane Gina Dodson McBride Dr. Jairo Rafael Nunez | Florida Clinical Research Center, LLC Suite 230 2300 Maitland Center Parkway Maitland, FL 32751 UNITED STATES  Lakeside Behavioral Healthcare 434 West Kennedy Boulevard Orlando, FL 32810 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale - Milford Road Cincinnati, OH 45242 UNITED STATES |
|  |  |  |  |  |  |
| 1002 | Dr. Robert Alan Riesenberg |  | Dr. Robert Gwyn Dillon Dr. Andro Giorgadze Dr. Doddametikurke S. Siddappa | Atlanta Center for Medical Research 811 Juniper Street Northeast Atlanta, GA 30308 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
|  |  |  |  |  |  |
| 1003 | Dr. Mark Norbert Lerman |  | Dr. Cary J. Bortnick Poonam Brar Dr. Vanja Cuk Carly Demopoulos Lisa Judge Siddhartha Kumar Danilo P. Matundan Dr. Chinmay K. Patel Mary Santos Karen L. Schmidt Melissa Sullivan | Alexian Brothers Behavioral Health Hospital 1650 Moon Lake Boulevard Hoffman Estates, IL 60169 UNITED STATES  Alexian Brothers Center for Psychiatric Research Suite 200 1786 Moon Lake Boulevard Hoffman Estates, IL 60169 UNITED STATES  Chinmay K. Patel, D.O. Suite 206 1786 Moon Lake Boulevard Hoffman Estates, IL 60169 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
| 1004 | Dr. Armen Krikor Goenjian |  | Dr. Barry Steven Allswang Dr. Winston G. Chung Dr. Gerald A. Cohen Dr. Jack P. Freinhar Dr. Thanh Ho Melissa P. Huy Dr. Sheida Kashani Cynthia Keenan Dr. Kim Lorine Dr. Rene D. Perez-silva Jill E. Schmidt | Collaborative Neuroscience Network, Inc. Suite F-100 19401 South Vermont Avenue Torrance, CA 90502 UNITED STATES Del Amo Hospital 23700 Camino Del Sol Torrance, CA 90505 UNITED STATES | Schulman Associates Institutional Review Board 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
|  |  |  |  |  |  |
| 1005 | Dr. Adam Frederick Lowy |  | Christie R. Blackston Diane D. Broadnax Andria R. Chastain Beth A. Harrod Constantine Shustikoff Kimberly Wills | Comprehensive Neuroscience, Incorporated Psychiatric Institute of Washington 4228 Wisconsin Avenue, Northwest Washington, DC 20016 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
| 1006 | Dr. Ricky Stuart Mofsen |  | Sandra Daniela Duarte Sckell Dr. Junaid M. Syed | St. Louis Clinical Trials, LC 2639 Miami Street St. Louis, MO 63118 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| 1007 | Dr. David Preston Walling |  | Dr. Jonathan Leonard Brand Dr. Jack P. Freinhar Dr. Rebecca L. Gladding Dr. Armen Krikor Goenjian Dr. Thanh Ho Melissa P. Huy Dr. Sheida Kashani Cynthia Keenan Dr. Kim Lorine Dr. Steven H. Reynolds Dr. Seanglong Te | Collaborative Neuroscience Network, Inc. Suite 3 12772 Valley View Street Garden Grove, CA 92845 UNITED STATES  Ocean View Psychiatric Health Facility Suite 500 2600 Redondo Avenue Long Beach, CA 90806 UNITED STATES | Schulman Associates Institutional Review Board 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
|  |  |  |  |  |  |
| 1008 | Dr. Mohammed Abdul Bari |  | Dr. Prakash Krishin Bhatia Dr. Tshekedi Galen Dennis Dr. Gregory S. Paniccia | Early Phase Investigational Center 704 East Grand Avenue Escondido, CA 92025 UNITED STATES  Synergy Clinical Research Center of Escondido 710 East Grand Avenue Escondido, CA 92025 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
|  |  |  |  |  |  |
| 1010 | Dr. Steven Jerome Glass |  | Juliet Brown Dr. David Gary Krefetz Maria F. Pinho Joanne Stein | CRI Worldwide, LLC Suite 202 1113 Hospital Drive Willingboro, NJ 08046 UNITED STATES  Lourdes Medical Center of Burlington County 218 A Sunset Road Willingboro, NJ 08046 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
|  |  |  |  |  |  |
| 1011 | Dr. Mark Anthony Novitsky |  | Melissa Cassidy Dr. Daniel Mark Gruener Ms. Shirley A. Kramer Dr. David Gary Krefetz | CRI Worldwide, LLC Kirkbride Division 111 North 49th Street Philadelphia, PA 19139 UNITED STATES | Schulman Associates Institutional Review Board 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
|  |  |  |  |  |  |
| 1012 | Dr. Kashinath Gangadhara Yadalam |  | Allyson D. Bennett Lenie T. Doucet Dr. Charles Arnold Murphy III Therese A. Novak Colleen Smith Dr. Charles Boyd Woodard | Lake Charles Clinical Trials Suite 1695 One Lakeshore Drive Lake Charles, LA 70629 UNITED STATES  Lake Charles Memorial Hospital 1701 Oak Park Boulevard Lake Charles, LA 70601 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
|  |  |  |  |  |  |
| 1013 | Dr. Marina Bussel |  | David Brull Dr. Amir E. Ettekal Dr. Lev G. Gertsik Deana Guidry Ryan R. Myers  Ijang A. Ngando Dr. Rekha Raja Marcelino Serrano | California Clinical Trials Medical Group 15625 Lakewood Boulevard Paramount, CA 90723 UNITED STATES  LaPaz Geropsychiatric Center 8835 Vans Street Paramount, CA 90723 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
|  |  |  |  |  |  |
| 1015 \* | Dr. Morteza Marandi |  | Dr. George Karamigios | Comprehensive Neuroscience, Inc. Suite A 11080 East Artesia Boulevard Cerritos, CA 90703 UNITED STATES  Comprehensive Neuroscience, Inc. / College Hospital Cerritos 10802 College Place Cerritos, CA 90703 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
| \*did not randomize pateints | | | | | |
| 1016 | Dr. Rajinder Singh Shiwach |  | Catina Adams Ms. Dianna Robinson Chad Sawyer Robin Williams | InSite Clinical Research Suite 205 941 York Drive DeSoto, TX 75115 UNITED STATES  InSite Clinical Research 1008 York Drive DeSoto, TX 75115 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
|  |  |  |  |  |  |
| 1018 | Dr. Matthew Neil Brams |  | Dr. Alice Raymay Mao | Bayou City Research, Ltd.  Suite 310 550 Westcott Street Houston, TX 77007 UNITED STATES  Behavioral Hospital - Bellaire 6550 Mapleridge Houston, TX 77081 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
|  |  |  |  |  |  |
| 1019 | Dr. Jose Tomas Zaglul |  | Jennifer Carol Dr. Andrew Jon Cutler Ranjay Halder | Florida Clinical Research Center, LLC at Manatee Glens Hospital 2020 26th Avenue East Bradenton, FL 34208 UNITED STATES | Schulman Associates Institutional Review Board 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
| 1020 | Dr. Jeffrey Andrew Borenstein |  | Dr. Eduardo C. Bondoc Nancy Cano Denise M. Coachman Andrew D. Diakiwiski Dr. Aggy Jolly Vallanat | Comprehensive Neuroscience, Inc. 87-37 Palermo Street Holliswood, NY 11423 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
|  |  |  |  |  |  |
| 1022 \* | Dr. Jose M. Canive |  | Mr. Lawrence Calais Gloria M. Fuldauer Michael W. Lackey Cristina M. Martinez Ella C. Nye Gregory B. Toney Dr. Gerardo Villarreal | New Mexico Veteran¿s Affairs Health Care System 1501 San Pedro, Southeast Albuquerque, NM 87108 UNITED STATES | University of New Mexico Health Sciences Center Human Research Review Committee MSC 08 4560 BMSB B71 1 University of New Mexico Albuquerque, NM 87131 UNITED STATES |
| 1023 | Dr. Gregory Stephen Kaczenski |  | Christine R. Ashby Betty Davis Lauren Evans Dr. Andrew J. Powell | K & S Professional Research Services, LLC 801 Scott Street Little Rock, AR 72201 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
| \*did not randomize pateints | | | | | |
| 1024 | Dr. Donald Joaquin Garcia Jr |  | Dr. Juan Carlos Gonzalez Mr. Michael T. Huebner Stephanie Patek Lloyd T. Willis | FutureSearch Trials Suite 300 5508 Parkcrest Drive Austin, TX 78731 UNITED STATES  TexasNeuroRehab Center 1106 West Dittmar Road Austin, TX 78745 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
|  |  |  |  |  |  |
| 1025 | Dr. Daniel F. Chueh |  | Lynda M. Bjornson Georgeta L. Drancea Vera M. Grindell Tony Ortiz Dr. Clifton S. Schermerhorn | Leisure Court Center 1135 North Leisure Court Anaheim, CA 92801 UNITED STATES  Neuropsychiatric Research Center of Orange County Suite 406 1440 East First Street Santa Ana, CA 92701 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
|  |  |  |  |  |  |
| 1028 \* | Dr. Steven Garth Potkin |  | Dr. Charles Nguyen Dr. Dana D. Nguyen Dr. Adrian Preda Dr. Christopher R. Reist Joseph R. Simpson | Long Beach VA Healthcare System 5901 East 7th Street Long Beach, CA 90822 UNITED STATES  University of California Irvine Medical Center 101 The City Drive, Building 3, Room 313 Orange, CA 92868 UNITED STATES | Long Beach VA Medical Center Institutional Review Board MC 09/151 5901 East Seventh Street Long Beach, CA 90822 UNITED STATES |
| \*did not randomize pateints | | | | | |
| 1029 \* | Dr. Gregory W. Mattingly |  | Dr. Richard H. Anderson Dr. John P. Canale Dr. Howard Jay Ilivicky | St. Charles Psychiatric Associates / Midwest Research Group Suite 390 330 First Capitol Drive St. Charles, MO 63301 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
| \*did not randomize pateints | | | | | |
| 1031 \* | Dr. James A. Knutson |  | Maria M. Golescu Shauna L. Knutson Jeffrey L. Mikesell Lyn E. Mikesell Dr. Howard John Quint Erin K. Rooks | Eastside Therapeutic Resource 830 6th Street South Kirkland, WA 98033 UNITED STATES  Fairfax Hospital 10200 Northeast 132nd Street Kirkland, WA 98034 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
| \*did not randomize pateints | | | |  |  |
| 1033 | Dr. Michael Gregory Plopper |  | Mark Charles Dobrina Dr. Thomas Anthony Hessling Christopher L. LoCascio Dr. Fadi Joseph Nicolas | Sharp Mesa Vista Hospital 7850 Vista Hill Avenue San Diego, CA 92123 UNITED STATES | Sharp HealthCare, Institutional Review Board 8695 Spectrum Center Boulevard San Diego, CA 92123-1489 UNITED STATES |
| 1034 | Dr. David Warren Brown |  | Diana Brewer Joshua M. Langohr Dr. Hilary Lipson-Parra Joseph R. Mitchell Reynaldo Rocha Dr. John N. Spencer Jr. | Community Clinical Research 8334 Cross Park Drive Austin, TX 78754 UNITED STATES | Schulman Associates Institutional Review Board, Incorporated 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |
|  |  |  |  |  |  |
| 1037 | Dr. Robert Enoch Litman |  | Petranda Alevrofas Dr. Deepan Chatterjee Brima Cherif Dr. Monica D. Franklin Khaled Abdelghany Khalafallah J. David Kofalt Megan Y. Maiorca Heather McKenna Shobha Latha Solomon Deborah Vickerie | CBH Health, LLC Suite 170 9605 Medical Center Drive Rockville, MD 20850 UNITED STATES | Schulman Associates Institutional Review Board 4290 Glendale Milford Road Cincinnati, OH 45242 UNITED STATES |

1. Yohn SE, Conn PJ. Positive allosteric modulation of M1 and M4 muscarinic receptors as potential therapeutic treatments for schizophrenia. *Neuropharmacology.* 2018;136:438-448.