



Psyadon Announces Positive Results from Phase 2b Clinical Study of Ecopipam for the Treatment of Tourette's Syndrome in Children

GERMANTOWN, MD, January 17, 2017 – [Psyadon Pharmaceuticals, Inc.](#), a company focused on treatments for neurological and psychiatric disorders, announced today that its lead product - ecopipam -- produced significant reductions in total tic severity scores in children (7-17 years) with Tourette's Syndrome.

The study's primary endpoint was a statistically significant reduction in the mean Yale Global Tic Severity Score Total Tic Score (YGTSS-TTS). This is a well-validated and standard measure of the clinical efficacy of drugs treating Tourette's Syndrome. Ecopipam caused significant reductions in the YGTSS-TTS at both two- and four weeks after initiating treatment. Furthermore, the side effects seen in the subjects taking ecopipam were comparable to those seen in the placebo-treated subjects, including no clinically significant changes in standard clinical lab tests or ECG's, and no increases in body weights.

"Ecopipam works by blocking the dopamine D1 receptor which differentiates it from any other drug either on the market or currently in development. Since there hasn't been a mechanistically new drug for the treatment of Tourette's in over 30 years, this could offer a better option for people who suffer with the disease." said Richard Chipkin, Ph.D., President and Chief Executive Officer of Psyadon.

Donald Gilbert, M.D., the study's Principal Investigator and Professor and Director of the Movement Disorder and Tourette Syndrome clinics at Cincinnati Children's Hospital Medical Center said, "Too many individuals with Tourette's Syndrome remain symptomatic despite treatment with available drugs, or experience side effects like weight gain or sedation that limit their use. These results demonstrate the efficacy of D1 antagonism, an entirely new approach that doctors and scientists have speculated about for years. As importantly, the subjects in the study tolerated ecopipam very well, with no weight gain, sedation, or heart problems."

ABOUT THE STUDY

This Phase 2b study called 'Ecopipam Treatment of Tourette's Syndrome in Subjects 7-17 Years (PSY302)', was a double-blind, randomized, placebo-controlled crossover study conducted to assess the efficacy and safety of ecopipam in children with Tourette's Syndrome.

Patients were instructed to take the study medication (either ecopipam or placebo) each evening before bedtime over a four-week treatment period. Patients were evaluated in the clinic every other week with telephone contacts on the alternate weeks. The primary efficacy endpoint was the change in the Yale Global Tic Severity Score – Total Tic Score (YGTSS-TTS), a well-validated rating scale typically used in Tourette's Syndrome trials. The study was fully enrolled at 40 subjects.

ABOUT ECOPIPAM

Ecopipam is a first-in-class drug that selectively blocks the actions of the neurotransmitter dopamine at its receptor. Dopamine receptors can be broadly classified into two families based on their structures: "D1 receptors" and "D2 receptors." Ecopipam blocks dopamine only at D1 receptors. There is evidence that overactive dopamine systems in the brain are responsible for



the symptoms of Tourette's Syndrome, and that D1 receptors play a pivotal role. In contrast, all currently marketed dopamine antagonists for the treatment of Tourette's act at D2 receptors.

ABOUT PSYADON PHARMACEUTICALS

Psyadon Pharmaceuticals is dedicated to the discovery and development of new treatments for serious neurological and psychiatric diseases. Ecopipam, our first development candidate, selectively blocks the actions of the neurotransmitter dopamine at the D1 receptor-family in the brain. This first-in-class compound has the potential to successfully help people who previously had no other therapeutic options.

For more information please visit www.psyadonrx.com.

CONTACT INFORMATION

FOR PSAYDON

Dr. R.E. Chipkin
info@psyadonrx.com
Psyadon Pharmaceuticals, Inc.
20451 Seneca Meadows Parkway
Germantown, MD 20876
(301)-919-2020
www.psyadonrx.com