



**MITSUBISHI TANABE PHARMA GROUP COMPANIES TO PRESENT NEW DATA ON
INVESTIGATIONAL ORAL FORMULATION OF EDARAVONE FOR ALS AT
29TH INTERNATIONAL SYMPOSIUM ON ALS/MND**

***Initial Study Results Show a Single Oral Dose is Expected to Have
Similar Pharmacokinetic Parameters as IV Infusion***

JERSEY CITY, N.J., November 15, 2018 – Mitsubishi Tanabe Pharma America, Inc. (MTPA) today announced that Mitsubishi Tanabe Pharma group companies will present pharmacokinetic (PK) data on an investigational oral suspension formulation of edaravone for the treatment of amyotrophic lateral sclerosis (ALS) at the 29th International Symposium on ALS/MND being held December 7-9 in Glasgow, Scotland. The Phase 1 study showed oral edaravone is expected to have similar PK parameters to the current intravenous infusion.

The intravenous (IV) formulation of edaravone, known as RADICAVA[®] (edaravone), is a treatment option previously approved by the U.S. Food and Drug Administration (FDA) to slow the loss of physical function in ALS patients.

“The creation and development of an oral suspension of edaravone for the treatment of ALS could provide a beneficial new therapy option for this progressive disease,” said Joseph M. Palumbo, M.D., Vice President, Head of Medical Science and Translational Research, Mitsubishi Tanabe Pharma Development America. “We are committed to furthering the development of this new formulation as quickly as possible in an effort to advance care for people with ALS.”

The initial Phase 1 dose-ranging PK study confirmed that a single oral dose of edaravone has a similar PK profile when compared to IV infusion. No new safety findings were observed relative to IV infusion. Data collection is ongoing, and the latest results and its anticipated development plan will be presented at the upcoming Symposium.

Additional details regarding the oral formulation development program will be released when available.

About RADICAVA[®] (edaravone) IV

The U.S. Food and Drug Administration (FDA) approved RADICAVA[®] (edaravone) on May 5, 2017, as a treatment for amyotrophic lateral sclerosis (ALS).¹ In a clinical trial, people given RADICAVA demonstrated a slower rate of decline in the loss of physical function compared to placebo, as measured by the ALS Functional Rating Scale-Revised (ALSFRS-R), a validated rating instrument for monitoring the progression of disability in people with ALS.^{1,2,3}

Edaravone was discovered and developed for ALS by Mitsubishi Tanabe Pharma Corporation (MTPC) and commercialized in the U.S. by Mitsubishi Tanabe Pharma America, Inc. MTPC group companies began researching ALS in 2001 through an iterative clinical platform over a 13-year period. In 2015, edaravone was approved for use as a treatment for ALS in Japan and South Korea. On October 3, 2018 edaravone was granted market authorization in Canada.

IMPORTANT SAFETY INFORMATION

Before you receive RADICAVA, tell your healthcare provider about all of your medical conditions, including if you:

- have asthma.
- are allergic to other medicines.
- are pregnant or plan to become pregnant. It is not known if RADICAVA will harm your unborn baby.
- are breastfeeding or plan to breastfeed. It is not known if RADICAVA passes into your breast milk. You and your healthcare provider should decide if you will receive RADICAVA or breastfeed.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

What are the possible side effects of RADICAVA?

- RADICAVA may cause serious side effects including hypersensitivity (allergic) reactions and sulfite allergic reactions.
- Hypersensitivity reactions have happened in people receiving RADICAVA and can happen after your infusion is finished.
- RADICAVA contains sodium bisulfite, a sulfite that may cause a type of allergic reaction that can be serious and life-threatening. Sodium bisulfite can also cause less severe asthma episodes in certain people. Sulfite sensitivity can happen more often in people who have asthma than in people who do not have asthma.
- Tell your healthcare provider right away or go to the nearest emergency room if you have any of the following symptoms: hives; swelling of the lips, tongue, or face; fainting; breathing problems; wheezing; trouble swallowing; dizziness; itching; or an asthma attack (in people with asthma).
- Your healthcare provider will monitor you during treatment to watch for signs and symptoms of all the serious side effects.

The most common side effects of RADICAVA include bruising (contusion), problems walking (gait disturbance), and headache.

These are not all the possible side effects of RADICAVA. Call your healthcare provider for medical advice about side effects. You may report side effects to Mitsubishi Tanabe Pharma America, Inc. at 1-888-292-0058 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

For more information, including full Prescribing Information and Patient Information, please visit www.RADICAVA.com.

About Mitsubishi Tanabe Pharma America, Inc.

Based in Jersey City, N.J., Mitsubishi Tanabe Pharma America, Inc. (MTPA) is a wholly-owned subsidiary of Mitsubishi Tanabe Pharma Corporation's (MTPC) 100 percent owned U.S. holding company, Mitsubishi Tanabe Pharma Holdings America, Inc. MTPA is dedicated to delivering innovative products that address the unmet medical needs of patients in North America. It was established by MTPC to commercialize approved pharmaceutical products in North America with plans to expand its product line through collaborations with partners. For more information, please visit www.mt-pharma-america.com or follow us on [Twitter](#) and [Facebook](#).

Overview of Mitsubishi Tanabe Pharma Corporation

Mitsubishi Tanabe Pharma, which was founded in 1678, has its headquarters in Doshomachi, Osaka, which is the birthplace of Japan's pharmaceutical industry. With business centered on ethical pharmaceuticals, Mitsubishi Tanabe Pharma is a well-established company and has the longest history of any listed company in Japan.⁴ In accordance with the corporate philosophy of "contributing to the healthier lives of people around the world through the creation of pharmaceuticals," the Company formulated the key concept of Open Up the Future under the Medium-Term Management Plan 2016-2020. Through the discovery of drugs that address unmet medical needs, centered on its priority disease areas — autoimmune diseases, diabetes and kidney diseases, central nervous system diseases, and vaccines — Mitsubishi Tanabe Pharma will strive to contribute to the health of patients around the world. MTPC is the parent company of MTPA and the license holder of RADICAVA. For more information, go to <http://www.mt-pharma.co.jp/>.

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¹ RADICAVA® U.S. Prescribing Information. August 2017.

² Simon, N. G., Turner, M. R., Vucic, S., Al-Chalabi, A., Shefner, J., Lomen-Hoerth, C., & Kieman, M. C. (2014). Quantifying Disease Progression in Amyotrophic Lateral Sclerosis. *Annals of Neurology*, 76(5), 643–657. <http://dx.doi.org/10.1002/ana.24273>.

³ The Writing Group on behalf of the Edaravone (MCI-186) ALS 19 Study Group (2017). Safety and efficacy of edaravone in well defined patients with amyotrophic lateral sclerosis: a randomised, double-blind, placebo-controlled trial. *The Lancet Neurology*. 16(7), 505-512. [http://dx.doi.org/10.1016/S1474-4422\(17\)30115-1](http://dx.doi.org/10.1016/S1474-4422(17)30115-1).

⁴ Research by TOKYO SHOKO RESEARCH, LTD.