

| Policy Name<br>Radicava (edaravone)                                                          | Policy Number<br>MP-RX-FP-75-23 | Scope                                                                  | 🛛 MMM Multihealth |
|----------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------|-------------------|
| Service Category  Anesthesia Surgery Radiology Procedures Pathology and Laboratory Procedure | Evaluati     DME/Pr             | ne Services and Pro<br>ion and Manageme<br>osthetics or Suppli<br>DRUG | ent Services      |

#### Service Description

This document addresses the use of Radicava (edaravone), a drug approved by the Food and Drug Administration (FDA) for the treatment of of Amyotrophic Lateral Sclerosis (ALS).

#### **Background Information**

This document addresses the use of Radicava (edaravone) for treatment of Amyotrophic Lateral Sclerosis (ALS). ALS (commonly known as Lou Gehrig's disease) is a refractory and progressive neuromuscular disease that attacks nerve cells in the spine and brain that are responsible for controlling voluntary movement; the cause of the disease is not known. Median survival from onset to death in ALS is reported to vary from 20 to 48 months. Radicava is available intravenously (IV) and as an oral suspension (ORS). It is a free radical scavenger that is thought to reduce oxidative stress, which may contribute to ALS. Radicava may be used alone or in combination with the oral ALS drug riluzole.

Early studies of Radicava IV included patients with a wide range of disease severity. These studies suggested that Radicava may be effective in a subgroup of patients who were in an earlier stage of the disease. This prompted a phase 3 study (Writing Group 2017) which included patients with definite or probable ALS with a disease duration of 2 years or less, Japan ALS severity classification grade <3, preserved functionality in most activities of daily living (defined as a score of 2 or higher on all items of the ALS Functional Rating Scale-revised; ALSFRS-R), and normal respiratory function with FVC  $\geq$  80%.

Of note, a 24-week, exploratory double-blind, parallel group, placebo-controlled study of Radicava IV (n=25) was also conducted in patients with later stages or more advanced disease, specifically, those with Japan ALS severity classification of Grade 3. This exploratory analysis did not show a statistically significant difference in the ALSFRS-R score compared to placebo. Due to various limitations of the study, the authors concluded that the effect of Radicava in those with Japan ALS Grade 3 disease remains a topic to be explored.

Radicava ORS FDA-approval was based on a bioavailability study comparing it to Radicava IV. Radicava ORS may be taken orally or via feeding tube.



| Policy Name                                                                                                                                                                                                                                                                  | Policy Number                                                                                                                                                                        | Scope                                                                                                              |                                                                                                           |
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| adicava (edaravone)                                                                                                                                                                                                                                                          | MP-RX-FP-75-23                                                                                                                                                                       |                                                                                                                    | 🛛 MMM Multihealth                                                                                         |
| Diagnostic Criteria                                                                                                                                                                                                                                                          |                                                                                                                                                                                      | I                                                                                                                  |                                                                                                           |
| Awaji-Shima criteria (Douglass, 2010; H                                                                                                                                                                                                                                      | lardiman, 2011): Diagnostic criteria used                                                                                                                                            | for ALS consisting of the fo                                                                                       | llowing categories:                                                                                       |
| Clinically definite ALS is defined on clin<br>in the bulbar region and at least two spina<br>Clinically probable ALS is defined on cl<br>spinal regions, with some upper motor ne<br>Clinically possible ALS is defined on cli<br>motor neuron signs alone in two or more    | al regions, or the presence of upper and<br>inical or electrophysiological evidence, d<br>euron signs necessarily rostral to the lowe<br>inical or electrophysiological signs of upp | lower motor neuron signs in<br>emonstrated by upper and k<br>er motor neuron signs.<br>er and lower motor neuron o | three spinal regions.<br>ower motor neuron signs in at least to<br>lysfunction in only one region, or upp |
| El Escorial/revised Airlie House criteri<br>Designed for research purposes to ensur                                                                                                                                                                                          |                                                                                                                                                                                      |                                                                                                                    |                                                                                                           |
| Clinically Definite ALS is defined on clir<br>signs, in the bulbar region and at least tw<br>Clinically Probable ALS is defined on cl<br>rostral to (above) the LMN signs.<br>Clinically Probable - Laboratory-Support                                                       | o spinal regions or the presence of UMN<br>inical evidence alone by UMN and LMN                                                                                                      | and LMN signs in three spir<br>signs in at least two regions                                                       | nal regions.<br>with some UMN signs necessarily                                                           |
| UMN signs alone are present in one region<br>neuroimaging and clinical laboratory prot<br><b>Clinically Possible ALS</b> is defined wher<br>alone in two or more regions; or LMN sign<br>cannot be proven by evidence on clinical<br>studies. Other diagnoses must have been | ocols to exclude other causes.<br>a clinical signs of UMN and LMN dysfunct<br>ns are found rostral to UMN signs and the<br>grounds in conjunction with electrodiagn                  | ion are found together in on<br>e diagnosis of Clinically Prol<br>ostic, neurophysiologic, neu                     | ly one region or UMN signs are found<br>bable - Laboratory-supported ALS                                  |
| Japan ALS Severity Classification                                                                                                                                                                                                                                            |                                                                                                                                                                                      | to 5 as follows:                                                                                                   |                                                                                                           |
| Able to work or perform hous     Independent living but unable                                                                                                                                                                                                               | sework;*                                                                                                                                                                             |                                                                                                                    |                                                                                                           |
|                                                                                                                                                                                                                                                                              | ng, excretion, or ambulation;                                                                                                                                                        |                                                                                                                    |                                                                                                           |
|                                                                                                                                                                                                                                                                              |                                                                                                                                                                                      | outum, or dysphagia; and                                                                                           |                                                                                                           |
| <ol><li>Presence of respiratory insuf</li></ol>                                                                                                                                                                                                                              |                                                                                                                                                                                      |                                                                                                                    | -                                                                                                         |
| <ol><li>Presence of respiratory insuf</li></ol>                                                                                                                                                                                                                              | ube feeding, or tracheostomy positi                                                                                                                                                  | ve pressure ventilation.                                                                                           |                                                                                                           |
| <ol> <li>Presence of respiratory insuf</li> <li>Using a tracheostomy tube, t</li> </ol>                                                                                                                                                                                      | ube feeding, or tracheostomy positi                                                                                                                                                  | ve pressure ventilation.                                                                                           |                                                                                                           |
| <ol> <li>Presence of respiratory insuf</li> <li>Using a tracheostomy tube, t</li> </ol>                                                                                                                                                                                      | ube feeding, or tracheostomy positi                                                                                                                                                  | ve pressure ventilation.                                                                                           |                                                                                                           |
| <ol> <li>Presence of respiratory insuf</li> <li>Using a tracheostomy tube, t</li> </ol>                                                                                                                                                                                      | ube feeding, or tracheostomy positi                                                                                                                                                  | ve pressure ventilation.                                                                                           |                                                                                                           |
| <ol> <li>Presence of respiratory insuf</li> <li>Using a tracheostomy tube, t</li> </ol>                                                                                                                                                                                      | ube feeding, or tracheostomy positi                                                                                                                                                  | ve pressure ventilation.                                                                                           |                                                                                                           |
| <ol> <li>Presence of respiratory insuf</li> <li>Using a tracheostomy tube, t</li> </ol>                                                                                                                                                                                      | ube feeding, or tracheostomy positi                                                                                                                                                  | ve pressure ventilation.                                                                                           |                                                                                                           |



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                                                                                                                                                                                     | 🛛 MMM Multihealth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ALS Functional Rating Scale-revised (A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | LSFRS-R); (Cedarbaum 1999)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| A commonly used functional rating system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | for persons with ALS, scored as for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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               |
| <ul> <li>Speech <ul> <li>4 Normal speech processes</li> <li>3 Detectable speech disturbance</li> <li>2 Intelligible with repeating</li> <li>1 Speech combined with nonvocal communication</li> <li>0 Loss of useful speech</li> </ul> </li> <li>Salivation <ul> <li>4 Normal</li> <li>3 Slight but definite excess of saliva in mouth; may have nighttime drooling</li> <li>2 Moderately excessive saliva; may have minimal drooling</li> <li>1 Marked excess of saliva with some drooling</li> <li>0 Marked drooling; requires constant tissue or handkerchief</li> </ul> </li> <li>Swallowing <ul> <li>4 Normal eating habits</li> <li>3 Early eating problems — occasional choking</li> <li>2 Dietary consistency changes</li> <li>1 Needs supplemental tube feeding</li> <li>0 NPO (exclusively parenteral or enteral feeding)</li> <li>Handwriting</li> <li>4 Normal</li> <li>3 Slow or sloppy: all words are legible</li> <li>2 Not all words are legible</li> <li>1 Able to grip pen but unable to write</li> <li>0 Unable to grip pen</li> </ul> </li> </ul> | <ul> <li>Cutting food and handling utensil (patients without gastrostomy)</li> <li>4 Normal</li> <li>3 Somewhat slow and clumsy, burneeded</li> <li>2 Can cut most foods, although clislow; some help needed</li> <li>1 Food must be cut by someone, is still feed slowly</li> <li>0 Needs to be fed</li> <li>Cutting food and handling utensil (alternate scale for patients with gastrostomy)</li> <li>4 Normal</li> <li>3 Clumsy but able to perform all manipulations independently</li> <li>2 Some help needed with closure: fasteners</li> <li>1 Provides minimal assistance to 0 Unable to perform any aspect of Dressing and hygiene</li> <li>4 Normal function</li> <li>3 Independent and complete self-effort or decreased efficiency</li> <li>2 Intermittent assistance or substimethods</li> <li>1 Needs attendant for self-care</li> <li>0 Total dependence</li> <li>Turning in bed and adjusting bed</li> <li>4 Normal</li> <li>3 Somewhat slow and clumsy, burneeded</li> <li>2 Can turn alone or adjust sheets, great difficulty</li> <li>1 Can initiate, but not turn or adjustalone</li> <li>0 Helpless</li> </ul> | <ul> <li>4 No</li> <li>3 Ea</li> <li>1 No</li> <li>2 Wa</li> <li>1 No</li> <li>2 Ura</li> <li>1 No</li> <li>0 No</li> <li>0 No</li> <li>2 Millis</li> <li>1 Ne</li> <li>2 Millis</li> <li>1 Ne</li> <li>0 Ca</li> <li>2 No</li> <li>3 Oc</li> <li>2 Oc</li> <li>eatin</li> <li>1 Oc</li> <li>a So</li> <li>2 Oc</li> <li>eatin</li> <li>1 Oc</li> <li>eatin</li> <li>1 Oc</li> <li>a So</li> <li>2 Oc</li> <li>eatin</li> <li>1 Oc</li> <li>a So</li> <li>2 Oc</li> <li>eatin</li> <li>1 Oc</li> <li>eatin</li> <li>3 So</li> <li>2 Ne</li> <li>(mor</li> <li>clothes</li> <li>1 Ca</li> <li>0 Un</li> <li>t no help</li> <li>Respir</li> <li>4 No</li> <li>3 Intrastructure</li> <li>a So</li> <li>t no help</li> <li>t So</li> <li>t No</li> <li>t</li></ul> | rmal<br>rly ambulation difficulties<br>alks with assistance<br>nambulatory functional movement<br>purposeful leg movement<br><b>ng stairs</b><br>rmal<br>w<br>d unsteadiness or fatigue<br>eds assistance<br>nnot do<br><b>ea (new)</b><br>ne<br>curs when walking<br>curs with one or more of the followin<br>g, bathing, dressing (ADL)<br>curs at rest, difficulty breathing wher<br>r sitting or lying<br>unificant difficulty, considering using<br>nanical respiratory support<br>onea (new)<br>ne<br>me difficulty sleeping at night due to<br>thess of breath, does not routinely us<br>than two pillows<br>eds extra pillows in order to sleep<br>e than two)<br>n only sleep sitting up<br>able to sleep<br>ratory insufficiency (new)<br>ne<br>ermittent use of BiPAP<br>ntinuous use of BiPAP during the nig<br>ntinuous use of BiPAP during the nig |

Amyotrophic Lateral Sclerosis (ALS)



| Policy Name          | Policy Number  | Scope    |                 |
|----------------------|----------------|----------|-----------------|
| Radicava (edaravone) | MP-RX-FP-75-23 | 🛛 МММ МА | MMM Multihealth |

# **Applicable Codes**

The following list(s) of procedure and/or diagnosis codes is provided for reference purposes only and may not be all inclusive. Inclusion or exclusion of a procedure, diagnosis or device code(s) does not constitute or imply member coverage or provider reimbursement policy. Benefit coverage for health services is determined by the member specific benefit plan document and applicable laws that may require coverage for a specific service. The inclusion of a code does not imply any right to reimbursement or guarantee claim payment. Other Policies and Guidelines may apply.

| njection, edaravone, 1 mg [Radicava] |
|--------------------------------------|
|                                      |
|                                      |
| Description                          |
| Amyotrophic lateral sclerosis        |
|                                      |



| Policy Name          | Policy Number  | Scope |                   |
|----------------------|----------------|-------|-------------------|
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## Medical Necessity Guidelines

When a drug is being reviewed for coverage under a member's medical benefit plan or is otherwise subject to clinical review (including prior authorization), the following criteria will be used to determine whether the drug meets any applicable medical necessity requirements for the intended/prescribed purpose.

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

Radicava (edaravone)

## A. Criteria For Initial Approval

i. Initial requests for Radicava (edaravone) may be approved if the following criteria are met (Writing Group 2017):

I. Individual is diagnosed with definite or probable amyotrophic lateral sclerosis (based on El Escorial/revised Airlie House criteria or Awaji-Shima criteria); AND

II. Onset of amyotrophic lateral sclerosis (ALS) has been less than 2 years at time of therapy initiation; AND

III. Documentation is provided that Japan ALS severity classification grade is less than 3 at time of therapy initiation; AND 3

IV. Documentation is provided that there is a score of 2 or more points on each single revised ALS Functional Rating Scale (ALSFRSR) item at time of therapy initiation; ANDV. Documentation is provided that individual has normal respiratory function defined as forced vital capacity (FVC) of greater than or equal to 80% at the time of initiation.

## B. Criteria For Continuation of Therapy

i. I. Individual does not require mechanical ventilation by intubation or tracheostomy.

## C. Authorization Duration

- i. Approval Duration:
  - a. Initial Approval Duration: 6 months
  - b. Reauthorization Approval Duration: 12 months



## **Reference Information**

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- The Writing Group on behalf of the edaravone (MCI-186) ALS 18 study group (2017) Exploratory double-blind, parallel-group, placebo-controlled study of edaravone (MCI-186) in amyotrophic lateral sclerosis (Japan ALS severity classification: Grade 3, requiring assistance for eating, excretion or ambulation), Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 18:sup1, 40-48.



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| adicava (edaravone) |                                       |           | / MA 🛛 🛛 MMM Multihealth |                       |
| olicy History       |                                       |           |                          |                       |
| Revision Type       | Summary of Changes                    |           | P&T<br>Approval Date     | MPCC<br>Approval Date |
| Policy Inception    | Elevance Health's Medical Policy      | adoption. | N/A                      | 11/30/2023            |
|                     |                                       |           |                          |                       |
|                     |                                       |           |                          |                       |