

Clinical Policy: Remestemcel-L-rknd (Ryoncil)

Reference Number: LA.PHAR.474

Effective Date:

Last Review Date: 09.17.25

Line of Business: Medicaid

Coding Implications
Revision Log

See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

Please note: This policy is for medical benefit

Description

Remestemcel-L-rknd (Ryoncil®) is an allogeneic bone marrow-derived mesenchymal stem cell (MSC) therapy.

FDA Approved Indication(s)

Ryoncil is indicated for the treatment of steroid-refractory acute graft versus host disease (GVHD) in pediatric patients 2 months of age and older.

Policy/Criteria

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

It is the policy of Louisiana Healthcare Connections that Ryoncil is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

A. Acute Graft Versus Host Disease (must meet all):

- 1. Diagnosis of grade II to IV (*see Appendix F*) acute GVHD following hematopoietic cell transplantation;
- 2. Disease is steroid-refractory as evidenced by any of the following (a, b, or c):
 - a. Progression of acute GVHD within 3 to 5 days of therapy onset with ≥ 2 mg/kg per day of prednisone or dose equivalent corticosteroid (*see Appendix D and E*);
 - b. Failure to improve within 5 to 7 days of treatment initiation with ≥ 2 mg/kg per day of prednisone or dose equivalent corticosteroid (*see Appendix D and E*);
 - c. Partial response after > 28 days of immunosuppressive treatment including ≥ 2 mg/kg per day of prednisone or dose equivalent corticosteroid (*see Appendix B*, D, and E);
- 3. Prescribed by or in consultation with an oncologist, hematologist, or bone marrow transplant specialist;
- 4. Age 2 months to ≤ 17 years;
- 5. Documentation of member's current body weight in kg;
- 6. Request meets one of the following (a or b):*
 - a. Dose does not exceed 2 x 10⁶ MSC/kg (1 dose) two times per week;



b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

*Prescribed regimen must be FDA-approved or recommended by NCCN

Approval duration: 1 month (8 doses)

B. Other diagnoses/indications (must meet 1 or 2):

- 1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer toLA.PMN.255
- 2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policyLA.PMN.53.

II. Continued Therapy

A. Acute Graft Versus Host Disease (must meet all):

- 1. Currently receiving medication via Louisiana Healthcare Connections, or documentation supports that member is currently receiving Ryoncil for acute GVHD and has received this medication for at least 28 days;
- 2. For requests extending beyond 28 days, one of the following (a or b):
 - a. Member has demonstrated evidence of a partial or mixed response but not yet a complete response (*see Appendix E*);
 - b. GVHD has recurred following a complete response (see Appendix E);
- 3. Member has not received more than 16 doses of Ryoncil;
- 4. If request is for a dose increase, documentation of member's current body weight in kg;
- 5. Request meets one of the following (a, b, or c):*
 - a. For members with partial or mixed response: Dose does not exceed 2 x 10⁶ MSC/kg (1 dose) per week;
 - b. For recurrence of GVHD after complete response, or for requests to complete the first 28 days of treatment: Dose does not exceed 2 x 10⁶ MSC/kg (1 dose) two times per week;
 - c. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

*Prescribed regimen must be FDA-approved or recommended by NCCN

Approval duration: 1 month

Members requesting completion of the first 28 days of treatment: up to 8 doses Members with partial or mixed response: 4 additional doses, up to a total of 12 doses Members experiencing recurrence of GVHD after complete response: 8 additional doses, up to a total of 16 doses

B. Other diagnoses/indications (must meet 1 or 2):

- 1. If this drug has recently (within the last 6 months) undergone a label change (e.g., newly approved indication, age expansion, new dosing regimen) that is not yet reflected in this policy, refer to LA.PMN.255
- 2. If the requested use (e.g., diagnosis, age, dosing regimen) is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized) AND criterion 1 above does not apply, refer to the off-label use policy LA.PMN.53.



III. Diagnoses/Indications for which coverage is NOT authorized:

A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policyLA.PMN.53 **Appendices/General Information**

Appendix A: Abbreviation/Acronym Key

FDA: Food and Drug Administration NCCN: National Comprehensive Cancer

GVHD: graft-versus-host disease Network

MSC: mesenchymal stem cells

Appendix B: Therapeutic Alternatives

This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent and may require prior authorization.

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose		
Examples of corticosteroids for acute GVHD				
betamethasone,	Dose recommendations per NCCN	Corticosteroid dosage must		
dexamethasone,	based on organ involvement:	be individualized and is		
prednisone,	Upper GI only: 0.5-1 mg/kg/day	highly variable depending		
prednisolone,	methylprednisolone (or prednisone	on the nature and severity of		
methylprednisone*	dose equivalent)	the disease, route of		
	Skin/lower GI/liver: 1-2 mg/kg/day	treatment, and on patient		
	methylprednisolone (or	response		
	prednisone dose equivalent)			

Therapeutic alternatives are listed as Brand name® (generic) when the drug is available by brand name only and generic (Brand name®) when the drug is available by both brand and generic.
*Off-label

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): known hypersensitivity to dimethyl sulfoxide (DMSO) or porcine and bovine proteins
- Boxed warning(s): none reported

Appendix D: Equivalent Corticosteroid Dosages

Acute Steroid-Refractory GVHD: Equivalent Corticosteroid Dosages			
Prednisolone	5 mg PO		
Prednisone	5 mg PO		
Methylprednisolone	4 mg PO		
Dexamethasone	0.75 mg PO		
Betamethasone	0.75 mg PO		

Appendix E: Measurement of Response to Therapy

Response Definitions	per Pivotal Study and Prescribing Information
Complete response	Resolution of acute GVHD in all involved organs



Response Definitions per Pivotal Study and Prescribing Information		
Partial response	Organ improvement of at least 1 stage without worsening of any other organs	
Mixed response	Improvement in at least 1 evaluable organ with worsening in another	
No response	No change in any organ stage in any organ system and no improvement in organ stage	
Progression	Deterioration in at least 1 organ system by 1 stage or more with no improvement in any other organ	

Appendix F: General Information

• Acute GVHD refers to an allogeneic inflammatory response occurring in three organs: the skin, the liver, and the gastrointestinal tract. A grading system is used to assess the severity of disease based on clinical manifestations and the extent of organ involvement. There are a number of different grading systems available (e.g., Glucksberg, modified Glucksberg, Keystone, International Bone Marrow Transplantation Registry [IBMTR], Mount Sinai Acute GvHD International Consortium [MAGIC]), none of which has been shown to be superior in predicting survival. While there are no standardized definitions for each grade across these systems, all consider grade I disease to involve only the skin. Grade II, III, and IV disease go beyond the skin and additionally involve the liver and/or gastrointestinal tract.

IV. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
Steroid-	2 x 10 ⁶ MSC/kg IV twice weekly (at least 3 days	See regimen
refractory acute	apart) for 4 consecutive weeks (8 infusions)	
GVHD		
	Assess response 28 ± 2 days after the first dose, and	
	administer further treatment if appropriate as	
	described below:	
	• If complete response, no further treatment with	
	Ryoncil	
	If partial or mixed response, repeat	
	administration of Ryoncil once a week for	
	additional 4 weeks (i.e., 4 additional infusions)	
	• If no response, consider alternative treatments	
	• If GVHD recurs after complete response, repeat	
	administration of Ryoncil twice a week for an	
	additional 4 consecutive weeks (i.e., 8	
	additional infusions)	

V. Product Availability

Cell suspension for intravenous infusion in a target concentration of 6.68×10^6 MSCs per mL in 3.8 mL contained in a 6 mL cryovial

VI. References



- 1. Ryoncil Prescribing Information. New York, NY: Mesoblast, Inc.; December 2024. Available at: https://www.fda.gov/media/184603/download. Accessed January 8, 2025.
- 2. National Comprehensive Cancer Network. Hematopoietic Cell Transplantation (HCT): Pre-Transplant Recipient Evaluation and Management of Graft-Versus-Host Disease Version 2.2024. Available at: https://www.nccn.org/professionals/physician_gls/pdf/hct.pdf. Accessed January 8, 2025.
- 3. Kurtzberg J, Abdel-Azim H, Carpenter P et al. A phase 3, single-arm, prospective study of remestemcel-L, ex-vivo culture-expanded adult human mesenchymal stromal cells, for the treatment of pediatric patients who failed to respond to steroid treatment for acute GVHD. Biol Blood Marrow Transplant. 2020 May; 26(5): 845-854.
- 4. Clinical Pharmacology [database online]. Philadelphia, PA: Elsevier; 2025. Available at: https://www.clinicalkey.com/pharmacology/. Accessed January 8, 2025.
- 5. Schoemans HM, Lee SJ, Ferrara JL, et al. EBMT-NIH-CIBMTR Task Force position statement on standardized terminology & guidance for graft-versus-host disease assessment. Bone Marrow Transplant. 2018;53(11):1401–1415.
- 6. Oncologic Drugs Advisory Committee briefing document: Remestemcel-L for treatment of steroid refractory acute graft versus host disease in pediatric patients. Published August 13, 2020.

Coding Implications

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPCS	Description
Codes	
J3590	Unclassified biologics
C9399	Unclassified drugs or biologicals

Reviews, Revisions, and Approvals	Date	LDH Approval Date
Converted corporate to local policy.	09.17.25	

Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. LHCC makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved.



The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions, and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Louisiana Healthcare Connections administrative policies and procedures.

This clinical policy is effective as of the date determined by LHCC. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. LHCC retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment, or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

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