

Clinical Policy: Benznidazole

Reference Number: CP.PMN.90

Effective Date: 10.17.17

Last Review Date: 02.18

Line of Business: Commercial, Health Insurance Marketplace, Medicaid

[Revision Log](#)

See [Important Reminder](#) at the end of this policy for important regulatory and legal information.

Description

Benznidazole is a nitroimidazole antimicrobial.

FDA Approved Indication(s)

Benznidazole is indicated in pediatric patients 2 to 12 years of age for the treatment of Chagas disease (American trypanosomiasis), caused by *Trypanosoma cruzi* (*T. cruzi*).

This indication is approved under accelerated approval based on the number of treated patients who became Immunoglobulin G (IgG) antibody negative against the recombinant antigens of *T. cruzi*. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trials.

Policy/Criteria

Provider must submit documentation (which may include office chart notes and lab results) supporting that member has met all approval criteria.

It is the policy of health plans affiliated with Centene Corporation[®] that benznidazole is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

A. Chagas Disease (must meet all):

1. Diagnosis of Chagas disease confirmed by one of the following tests (a, b, or c):
 - a. Detection of circulating *T. cruzi* trypomastigotes on microscopy;
 - b. Detection of *T. cruzi* DNA by polymerase chain reaction assay;
 - c. Two positive diagnostic serologic tests* using different techniques (e.g., enzyme-linked immunoassay, indirect fluorescent antibody) and antigens (e.g., whole-parasite lysate, recombinant antigens) showing IgG antibodies to *T. cruzi*;
2. Prescribed by or in consultation with an infectious disease specialist;
3. Age 2 to ≤ 12 years;
4. Dose (weight-based) does not exceed 400 mg/day.

Approval duration: 60 days total

**If two commercial diagnostic IgG tests are unavailable, providers should consult their state health department for guidance; if results are discordant, a third assay may be needed. Chagas disease is a reportable disease in some states. Donor screening tests and Immunoglobulin M serology tests are not considered diagnostic tests.*

B. Other diagnoses/indications

1. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.CPA.09 for commercial, HIM.PHAR.21 for health insurance marketplace, and CP.PMN.53 for Medicaid.

II. Continued Therapy

A. Chagas Disease (must meet all):

1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
2. Member has not yet received 60 or more days of benznidazole therapy;
3. If request is for a dose increase, new dose does not exceed 400 mg/day.

Approval duration: 60 days total

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

1. Currently receiving medication via Centene benefit and documentation supports positive response to therapy.

Approval duration: Duration of request or 6 months (whichever is less); or

2. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.CPA.09 for commercial, HIM.PHAR.21 for health insurance marketplace, and CP.PMN.53 for Medicaid.

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 policies – CP.CPA.09 for commercial, HIM.PHAR.21 for health insurance marketplace, and CP.PMN.53 for Medicaid or evidence of coverage documents.**

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

CDC: Centers for Disease Control and Prevention

IgG: immunoglobulin G

T cruzi: Trypanosoma cruzi

WHO: World Health Organization

Appendix B: Therapeutic Alternatives

N/A

Appendix C: General Information

• Resources and Consultation

- Centers for Disease Control and Prevention (CDC)

1. Parasitic Diseases: 404-718-4745, <https://www.cdc.gov/parasites/chagas/>

- CDC recommended guidance document: Bern C, Montgomery SP, Herwaldt BL, et al. Evaluation and treatment of Chagas disease in the United States: a systematic review. JAMA 2007; 298:2171.

2. CDC Drug Service: 404-639-3670

3. CDC Emergency Operations Center: 770-488-7100
 - World Health Organization (WHO)
 1. Outside the US: www.who.int/chagas/home_treatment/en/
 - American Society of Tropical Medicine and Hygiene
 1. Directory of consultants: <http://www.astmh.org/education-resources/clinical-consultants-directory>

V. Dosage and Administration

Indication	Dosing Regimen					Maximum Dose
	Body Weight Range (kg)	Dose (mg)	# of 12.5 mg tablets	# of 100 mg tablets	Duration and Frequency of Therapy	
Chagas disease	<15 kg	50 mg	4 tablets	½ tablet	PO BID approximately 12 hours apart for 60 days	400 mg/day
	15 kg to <20 kg	62.5 mg	5 tablets			
	20 kg to <30 kg	75 mg	6 tablets	¾ tablet		
	30 kg to <40 kg	100 mg		1 tablet		
	40 kg to <60 kg	150 mg		1 ½ tablets		
	≥60 kg	200 mg		2 tablets		

VI. Product Availability

Tablets: 12.5 mg (not scored) or 100 mg (scored for halves or quarters)

VII. References

1. Benznidazole Prescribing Information. Florham Park, NJ: Exeltis USA, Inc.; August 2017. Available at https://www.accessdata.fda.gov/drugsatfda_docs/label/2017/209570lbl.pdf. Accessed October 17, 2017.
2. Benznidazole Drug Monograph. Clinical Pharmacology [database online]. Tampa, FL: Gold Standard, Inc.; 2017. Available at: <http://www.clinicalpharmacology-ip.com/>.
3. Estani SS, Segura EL, Ruiz AM, et al. Efficacy of chemotherapy with benznidazole in children in the indeterminate phase of Chagas disease. 1998; Am J Trop Med Hyg 59: 526-529.
4. Sgambatti de Andrade, ALS, Zicker F, Mauricio de Oliveira. R, et al. Randomised trial of efficacy of benznidazole in treatment of early *Trypanosoma cruzi* infection. 1996; Lancet 348: 1407-1413.
5. Perez-Molina JA, Molina I. Chagas disease: Seminar. Lancet. June 30, 2017. [http://dx.doi.org/10.1016/S0140-6736\(17\)31612-4](http://dx.doi.org/10.1016/S0140-6736(17)31612-4). Access October 2017.
6. Bern C. Chagas disease. N Engl J Med 2015; 373: 456-66. DOI: 10.1056/NEJMra1410150.
7. Bern C, Montgomery SP, Herwaldt BL, et al. Evaluation and treatment of Chagas disease in the United States: A systematic review. JAMA 2007; 298:2171.
8. Formulary (Benznidazole, nifurtimox): Infectious Diseases Laboratory. Centers for Disease Control and Prevention. Available

at <https://www.cdc.gov/dpdx/trypanosomiasisamerican/index.html>. Last updated August 30, 2017. Accessed September 2017.

9. American Trypanosomiasis. DPDx - Laboratory identification of parasitic diseases of public health concern. Centers for Disease Control and Prevention. Available at <https://www.cdc.gov/dpdx/trypanosomiasisamerican/index.html>. Last updated August 30, 2017. Accessed September 2017.

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy created.	10.17.17	02.18

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. The Health Plan 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. “Health Plan” means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan’s affiliates, as applicable.

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 Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. 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. The Health Plan 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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Note:

For Medicaid members, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

For Health Insurance Marketplace members, when applicable, this policy applies only when the prescribed agent is on your health plan approved formulary. Request for non-formulary drugs must be reviewed using the formulary exception policy.

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