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MEDICAL POLICY



An independent licensee of the Blue Cross Blue Shield Association

Medical Policy Title Chelation Therapy

Policy Number 8.01.03

Current Effective Date October 16, 2025

Next Review Date October 2026

Our medical policies are based on the assessment of evidence based, peer-reviewed literature, and professional guidelines. Eligibility for reimbursement is based upon the benefits set forth in the member's subscriber contract. (Link to <u>Product Disclaimer</u>)

POLICY STATEMENT(S)

- I. Chelation therapy is considered **medically appropriate** for **ALL** the following conditions:
 - A. Extreme conditions of metal toxicity, including: arsenic, cadmium, copper, gold, iron, lead, and mercury;
 - B. Thalassemia intermedia with hemosiderosis;
 - C. Thalassemia major (Cooley's anemia);
 - D. Iron overload due to chronic transfusions in sickle cell anemia patients;
 - E. Patients receiving chronic transfusions (e.g. myelodysplasia, aplastic anemia);
 - F. Wilson's disease (hepatolenticular degeneration);
 - G. As a cardioprotectant in women with metastatic breast cancer who have received a cumulative doxorubicin dose of at least 300 mg/m2.
- II. Chelation therapy is considered **not medically necessary** in the treatment of coronary artery disease, including atherosclerosis, arteriosclerosis, and hypercholesterolemia.
- III. Chelation therapy as a method of treatment for digitalis toxicity and hypercalcemia is considered **not medically necessary**.
- IV. The use of post-chelator challenge/post-provocation urinary metal testing to diagnose toxic metal conditions is considered **not medically necessary**.
- V. Chelation therapy is considered **investigational** in the treatment of **ANY** of the following indications, including, but not limited to:
 - A. Alzheimer's disease:
 - B. Arthritis/arthralgia;
 - C. Autism Spectrum Disorders;
 - D. Diabetes;
 - E. Cystinuria;
 - F. Environmental allergies;
 - G. Multiple Sclerosis.

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RELATED POLICIES

Corporate Medical Policy

11.01.03 Experimental or Investigational Services

Refer requests for Exjade (deferasirox) or other oral chelators to the pharmacy department (Pharmacy Management)

POLICY GUIDELINE(S)

Not Applicable

DESCRIPTION

Chelation therapy consists of the intravenous or oral administration of chelating agents, which remove toxic metal ions from the body. These heavy metal antagonists form complexes with heavy metals, rendering them physiologically inactive and enhancing their excretion in the urine. Chemical endarterectomy, a form of chelation therapy, is utilized for the removal of plaque or calcium. Chelating agents include but are not limited to: ethylenediaminetetraacetic acid (EDTA), disodium edetate (Endrate), deferoxamine (DFO, Desferal), dimercaprol (BAL in oil), penicillamine (Cuprimine, Depen), edetate calcium disodium, dexazoxane (Zinecard), deferasirox (Exjade), trientene HCL (Syprine), and succimer (Chemet).

SUPPORTIVE LITERATURE

Chelation therapy is an established treatment method for metal toxicity and overload conditions due to diseases such as Cooley's anemia, sickle cell anemia, and Wilson's disease. Studies investigating chelation therapy for coronary artery disease and atherosclerosis showed no significant differences in the outcomes of disease severity and subjective improvements. Therefore, there is insufficient scientific evidence to determine the effectiveness of chelation therapy in improving clinical outcomes of patients with atherosclerosis. Clinical trials have demonstrated that the use of dexrazoxane was associated with a decreased risk of clinical cardiotoxicity in women with breast cancer (e.g., cardiac events occurred in 31% of patients receiving placebo and only in 14% of patients receiving dexrazoxane). Published trials investigating chelation therapy for other diseases such as Alzheimer's disease, arthritis, multiple sclerosis (MS), and autism have not provided evidence to support its use for these conditions.

PROFESSIONAL GUIDELINE(S)

The position statement of the American College of Medical Toxicology (2017) states that post-chelator challenge urinary metal testing has not been scientifically validated, has no demonstrated benefit, and may be harmful when applied in the assessment and treatment of patients in whom there is a concern for metal poisoning.

REGULATORY STATUS

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Calcium-EDTA (Versenate) has been approved by the U.S. Food and Drug Administration (FDA) for lowering blood lead levels among both pediatric and adult patients with lead poisoning. Succimer is approved for the treatment of lead poisoning in pediatric patients only. Disodium-EDTA was FDA-approved for use in selected patients with hypercalcemia and for use in patients with heart rhythm problems due to intoxication with the drug, digitalis. In 2008, however, the FDA withdrew approval of disodium-EDTA due to safety concerns and recommended that other forms of chelation therapy be used.

Several iron-chelating agents are FDA-approved:

- I. Deferoxamine for subcutaneous, intramuscular, or intravenous injections was approved to treat acute iron intoxication and chronic iron overload due to transfusion-dependent anemia.
- II. Deferasirox, approved in 2005, is available as a tablet for oral suspension and is indicated for the treatment of chronic iron overload due to blood transfusions in patients aged two years and older. In 2013, under the accelerated approval program, the FDA expanded the indications for deferasirox to include treatment of patients aged 10 years and older with chronic iron overload due to nontransfusion-dependent thalassemia (NTDT).
- III. In 2011, the FDA approved the iron chelator, deferiprone (Ferriprox), for treatment of patients with transfusional overload due to thalassemia syndromes when other chelation therapy is inadequate. Deferiprone is available in tablet form for oral use.

CODE(S)

- Codes may not be covered under all circumstances.
- Code list may not be all inclusive (AMA and CMS code updates may occur more frequently than policy updates).
- (E/I)=Experimental/Investigational
- (NMN)=Not medically necessary/appropriate

CPT Codes

Code	Description
No Applicable	

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HCPCS Codes

Code	Description
M0300 (E/I)	I.V. Chelation therapy (chemical endarterectomy)
J0470	Injection, dimercaprol, per 100mg
J0600	Injection, edetate calcium disodium, up to 1,000 mg
J0895	Injection, deferoxamine mesylate, 500 mg

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Code	Description
J1190	Injection, dexazoxane HCI, per 250 mg (Zinecard)
J3520	Edetate disodium (EDTA, Disotate) per 150 mg
S9355	Home infusion therapy, chelation therapy; administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment, per diem

ICD10 Codes

Code	Description	
Medically appropriate diagnosis codes include:		
E83.00- E83.09	Disorders of copper metabolism, code range	
D56.0-D56.9	Thalassemia, code range	
D57.00- D57.419	Sickle cell disorders, code range	
D57.80- D57.819	Other sickle cell disorders, code range	
D60.0-D60.9	Acquired pure red cell aplasia, code range	
D61.01-D61.9	Aplastic anemia and other bone marrow failure syndromes	
C94.6, D46.9- D46.Z	Myelodysplasia, code range	
T56.0x1A - T56.0x4A	Toxic effect of lead and its compounds, code range	
T56.1x1A- T56.1x4A	Toxic effect of mercury and its compounds, code range	
T56.3x1A- T56.3x4A	Toxic effect of cadmium and its compounds, code range	
T56.4x1A- T56.4x4A	Toxic effect of copper and its compounds, code range	
T56.5x1A- T56.5x4A	Toxic effect of zinc and its compounds, code range	
T56.6x1A- T56.6x4A	Toxic effect of tin and its compounds, code range	

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Code	Description
T56.811A- T56.814A	Toxic effect of thallium and its compounds, code range
T56.891A- T56.894A	Toxic effect of other metals, code range
T56.91xA- T56.94xA	Toxic effect of unspecified metals, code range
T57.0x1A- T57.0x4A	Toxic effect of arsenic and its compound, code range

REFERENCES

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SEARCH TERMS

Not Applicable

CENTERS FOR MEDICARE AND MEDICAID SERVICES (CMS)

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NCD - Chelation Therapy for Treatment of Atherosclerosis (20.21) [accessed 2025 Aug 29]

PRODUCT DISCLAIMER

- Services are contract dependent; if a product does not cover a service, medical policy criteria do not apply.
- If a commercial product (including an Essential Plan or Child Health Plus product) covers a specific service, medical policy criteria apply to the benefit.
- If a Medicaid product covers a specific service, and there are no New York State Medicaid guidelines (eMedNY) criteria, medical policy criteria apply to the benefit.
- If a Medicare product (including Medicare HMO-Dual Special Needs Program (DSNP) product) covers a specific service, and there is no national or local Medicare coverage decision for the service, medical policy criteria apply to the benefit.
- If a Medicare HMO-Dual Special Needs Program (DSNP) product DOES NOT cover a specific service, please refer to the Medicaid Product coverage line.

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POLICY HISTORY/REVISION			
Committee Approval Dates			
11/19/09, 11/18	6/01, 06/20/02, 04/24/03, 04/15/04, 04/21/05, 03/16/06, 01/18/07, 01/17/08, 8/10, 10/20/11, 10/18/12, 10/17/13, 10/16/14, 10/15/15, 10/20/16, 10/19/17, 7/19, 10/22/20, 10/28/21, 10/20/22, 10/19/23, 10/17/24, 10/16/25		
Date	Summary of Changes		
10/16/25	Annual review, policy intent unchanged.		
01/01/25	Summary of changes tracking implemented.		
10/08/99	Original effective date		