

Clinical Policy: Iron Sucrose (Venofer)

Reference Number: CP.PHAR.167 Effective Date: 03.01.16 Last Review Date: 02.21 Line of Business: HIM, Medicaid

Coding Implications Revision Log

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

Description

Iron sucrose (Venofer[®]) injection is an iron replacement product.

FDA Approved Indication(s)

Venofer is indicated for the treatment of iron deficiency anemia (IDA) in patients with chronic kidney disease (CKD).

Policy/Criteria

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

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

I. Initial Approval Criteria

- A. Iron Deficiency Anemia with Chronic Kidney Disease (must meet all):
 - 1. Diagnosis of IDA and CKD;
 - 2. IDA is confirmed by either of the following:
 - a. Transferrin saturation (TSAT) \leq 30%;
 - b. Serum ferritin \leq 500 ng/mL;
 - 3. If CKD does not require hemodialysis or peritoneal dialysis, oral iron therapy is not optimal due to any of the following:
 - a. TSAT < 12%;
 - b. Hgb < 7 g/dL;
 - c. Symptomatic anemia;
 - d. Severe or ongoing blood loss;
 - e. Oral iron intolerance;
 - f. Unable to achieve therapeutic targets with oral iron;
 - g. Co-existing condition that may be refractory to oral iron therapy;
 - 4. Dose does not exceed 500 mg elemental iron per injection.

Approval duration: 3 months

- B. Iron Deficiency Anemia without Chronic Kidney Disease (off-label) (must meet all):
 - 1. Diagnosis of IDA confirmed by any of the following:
 - a. Serum ferritin < 15 ng/mL or < 30 ng/mL if pregnant;
 - b. Serum ferritin \leq 41 ng/mL and Hgb < 12 g/dL (women)/< 13 g/dL (men);
 - c. TSAT < 20%;



- d. Absence of stainable iron in bone marrow;
- e. Increased soluble transferring receptor (sTfR) or sTfR-ferritin index;
- f. Increased erythrocyte protoporphyrin level;
- 2. Oral iron therapy is not optimal due to any of the following:
 - a. TSAT < 12%;
 - b. Hgb < 7 g/dL;
 - c. Symptomatic anemia;
 - d. Severe or ongoing blood loss;
 - e. Oral iron intolerance;
 - f. Unable to achieve therapeutic targets with oral iron;
 - g. Co-existing condition that may be refractory to oral iron therapy;
- 3. At the time of the request, member does not have CKD;
- 4. Dose is within FDA maximum limit for any FDA-approved indication or is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

Approval duration 3 months

C. 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.PMN.53 for Medicaid and HIM.PA.154 for health insurance marketplace.

II. Continued Approval Criteria

A. Iron Deficiency Anemia associated with Chronic Kidney Disease (must meet all):

- 1. Currently receiving the medication via Centene benefit or member has previously met all initial approval criteria;
- 2. Documentation of one of the following laboratory results measured since the last IV iron administration:
 - a. TSAT \leq 30%;
 - b. Serum ferritin \leq 500 ng/mL;
- 3. If request is for a dose increase, new dose does not exceed 500 mg elemental iron per injection.

Approval duration 3 months

- **B.** Iron Deficiency Anemia without Chronic Kidney Disease (off-label) (must meet all):
 - 1. Currently receiving the medication via Centene benefit or member has previously met all initial approval criteria;
 - 2. Documentation of one of the following laboratory results measured since the last IV iron administration:
 - a. Serum ferritin < 15 ng/mL or < 30 ng/mL if pregnant;
 - b. Serum ferritin \leq 41 ng/mL and Hb < 12 g/dL (women)/< 13 g/dL (men);
 - c. TSAT < 20%;
 - d. Absence of stainable iron in bone marrow;
 - e. Increased sTfR or sTfR-ferritin index;



- f. Increased erythrocyte protoporphyrin level;
- 3. At the time of the request, member does not have CKD;
- 4. If request is for a dose increase, new dose is within FDA maximum limit for any FDA-approved indication or is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).
 Approval duration 3 months

Approval duration 5 months

C. 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
- 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.PMN.53 for Medicaid and HIM.PA.154 for health insurance marketplace.

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 policy – HIM.PA.154 for health insurance marketplace and CP.PMN.53 for Medicaid, or evidence of coverage documents.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key CKD: chronic kidney disease ESA: erythropoiesis stimulating agent Hb: hemoglobin

IDA: iron deficiency anemia TSAT: transferrin saturation sTfR: soluble transferring receptor

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 OTC Oral Iron Formulations*		
Ferrous fumarate (Ferretts, Ferrimin 150, Hemocyte)	Varies	
Ferrous gluconate (Ferate)		
Ferrous sulfate (BProtected Pedia Iron, Fer-In-Sol, FeroSul,		
FerrouSul, Iron Supplement, Iron Supplement Childrens, Slow		
Fe, Slow Iron)		
Polysaccharide-iron complex (EZFE 200, Ferrex 150, Ferrix x-		
150, Myferon 150, NovaFerrum 125, NovaFerrum 50,		
NovaFerrum Pediatric Drops, Nu-Iron, Poly-Iron 150)		



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. *Oral formulations include elixirs, liquids, solutions, syrups, capsules, and tablets - including delayed/extended-release tablets.

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s): Known hypersensitivity to Venofer.
- Boxed warning(s): None reported.

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose			
Adults - IDA with CKD: Iron Repletion					
Hemodialysis	100 mg as IV injection or	100 mg per injection/infusion			
	infusion per consecutive HD	-Treatment course: 1000 mg			
	session.	-Treatment may be repeated			
No dialysis	200 mg as IV injection or	500 mg per injection/infusion			
	infusion administered on 5	-Treatment course: 1000 mg			
	different occasions over a 14	-Treatment may be repeated			
	day period or 500 mg on days				
	1 and 14.				
Peritoneal dialysis	3 divided doses, by IV	400 mg per injection/infusion			
	infusion, within a 28 day	-Treatment course: 1000 mg			
	period: 2 infusions each of	-Treatment may be repeated			
	300 mg 14 days apart				
	followed by one 400 mg				
	infusion 14 days later.				
Children ≥ 2 years - IDA with CKD: Iron Maintenance					
Hemodialysis	0.5 mg/kg slow IV injection	100 mg per injection/infusion			
	or infusion not to exceed 100	-Treatment course: 600 mg			
	mg per dose, every TWO	-Treatment may be repeated			
	weeks for 12 weeks.				
No dialysis or peritoneal	0.5 mg/kg slow IV injection	100 mg per injection/infusion			
dialysis	or infusion not to exceed 100	-Treatment course: 300 mg			
And receiving	mg per dose, every FOUR	-Treatment may be repeated			
erythropoietin therapy	weeks for 12 weeks.				

VI. Product Availability

Intravenous solution single-dose vials: 20 mg/mL (2.5 mL, 5mL, 10mL)

VII. References

- 1. Venofer prescribing information. Shirley, NY: American Regent, Inc.; September 2020. Available from <u>https://www.venofer.com/</u>. Accessed November 18, 2020.
- 2. KDIGO 2012 clinical practice guideline for evaluation and management of chronic kidney disease. *Kidney International Supplements*. January 2013; 3(1): 1-136.



- 3. KDIGO 2012 clinical practice guideline for anemia in chronic kidney disease. *Kidney International Supplements*. August 2012; 2(4): 279-331.
- 4. Camaschella C. Iron-Deficiency Anemia. N Engl J Med. 2015; 372: 1832-43. DOI: 10.1056/NEJMra1401038.
- 5. Short MW, Domagalski JE. Iron Deficiency Anemia: Evaluation and Management. *Am Fam Physician*. 2013; 87(2): 98-104. <u>http://www.aafp.org/afp/2013/0115/p98.pdf</u>
- 6. Oral iron monographs. In: UpToDate (Lexicomp), Waltham, MA: Walters Kluwer Health; 2018. Available at www.uptodate.com. Accessed November 18, 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-todate sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPCS Codes	Description
J1756	Injection, iron sucrose, 1 mg

Reviews, Revisions, and Approvals	Date	P&T Approval
		Date
Policy developed	01.16	03.16
Under Section I.B, "Iron maintenance treatment in pediatric patients	10/16	
with CKD", the parenthetical, "see mg/kg dosing", is removed from		
the dosing criteria (even though dosing is weight based) as the intent		
of the dosing criteria is only to focus on the dose not to exceed.		
Labeled and off-labeled use, and diagnostic/follow-up tests, are	02.17	03.17
edited for consistency across ferumoxytol, ferric gluconate, iron		
sucrose, and ferric carboxymaltose policies, and are made broad		
enough to capture use in adults, children and pregnancy. The criteria		
also encompass iron maintenance and replenishment. Diagnostic		
hemoglobin for anemia in men changed from 13.5 to 13 based on		
WHO criteria. Age and dose are removed. Hypersensitivity removed		
as a contraindication.		
1Q18 annual review:	12.01.17	02.18
- No significant changes		
- Converted to the new template		
- Dosing added		
- References reviewed and updated.		
1Q 2019 annual review; under IDA initial and continuation criteria,	11.13.18	02.19
a serum ferritin of less than or equal to 500 is edited by deleting the		
additional requirement of receiving an ESA based on the KDIGO		
2012 guidelines which do not include this restriction; under IDA and		
IDA with CKD continuation criteria, the greater than or equal to 4		
week waiting period before retesting after the last IV iron		



Reviews, Revisions, and Approvals	Date	P&T Approval Date
administration is removed per the KDIGO 2012 guidelines which		
note that only one week need pass before retesting; references		
reviewed and updated.		
1Q 2020 annual review: no significant changes; added HIM line of	11.09.19	02.20
business; references reviewed and updated.		
1Q 2021 annual review: for iron deficiency anemia without CKD	11.18.20	02.21
off-label use, added requirement for provider to submit off-label		
dosing limits per label or practice guidelines; references to		
HIM.PHAR.21 revised to HIM.PA.154; references reviewed and		
updated.		

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.

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