Clinical Policy: Antithrombin III (Thrombate III, Atryn)
Reference Number: CP.MP.179
Date of Last Revision: 10/21

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

Description
This policy describes the medical necessity criteria for Antithrombin III (Thrombate III® and Atryn®).

Policy/Criteria
I. It is the policy of health plans affiliated with Centene Corporation® that antithrombin III is medically necessary for the following indications:
   A. Diagnosis of hereditary antithrombin deficiency and one of the following:
      1. Treatment or prevention of thromboembolism and human-derived antithrombin III (Thrombate III) is requested;
      2. Prevention of peri-operative and peri-partum thromboembolism and recombinant antithrombin III (ATryn) or Thrombate III is requested.

II. It is the policy of health plans affiliated with Centene Corporation that current evidence does not support the use of Antithrombin III (Thrombate III or Atryn) for any other indications, including but not limited to, disseminated intravascular coagulation (DIC) associated with sepsis or trauma.

Background
Deficiency of antithrombin III, also known as antithrombin, can be inherited or acquired, and is associated in some patients with a heightened risk of thromboembolism. Antithrombin can be replaced in patients who are deficient, but questions remain regarding the benefits, risks, and appropriate indications for use.

Thrombate
FDA-approved indications for Thrombate include the following:
Patients with hereditary antithrombin deficiency for:
• Treatment and prevention of thromboembolism
• Prevention of peri-operative and peri-partum thromboembolism

Atryn
FDA-approved indications for Atryn include prevention of peri-operative and peri-partum thromboembolic events in hereditary antithrombin deficient patients.

Antithrombin for disseminated intravascular coagulation (DIC)
In addition to the FDA-approved indications, antithrombin has been suggested for treatment of patients with DIC associated with trauma or sepsis. However, 2009 British guidelines for the diagnosis and management of DIC do not recommend antithrombin in patients with DIC without further prospective evidence in randomized controlled trials. More recent studies have not found clear benefit of antithrombin in treatment of DIC. A 2016 Cochrane review of antithrombin
administered in critically ill patients concluded that there is insufficient evidence to support its use in any category of such patients, including those with sepsis and DIC.4

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<thead>
<tr>
<th>HCPCS Codes</th>
<th>Description</th>
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<tbody>
<tr>
<td>J7196</td>
<td>Injection, antithrombin recombinant, 50 IU</td>
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<tr>
<td>J7197</td>
<td>Antithrombin III (human), per IU</td>
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<tr>
<th>Reviews, Revisions, and Approvals</th>
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<tr>
<td>Policy developed</td>
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<tr>
<td>Replaced “member” with “member/enrollee” in all instances. References reviewed and updated.</td>
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<tr>
<td>Annual review. References reviewed and updated. Changed “review date” in the header to “date of last revision” and “date” in the revision log header to “revision date.” “Not medically necessary” verbiage replaced in policy statement with “current evidence does not support” verbiage.</td>
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References
2. GTC Biotherapeutics, Inc. ATryn prescribing information. Framingham Massachusetts. Published November 2010.

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
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Antithrombin III (Atryn, Thrombate)

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/enrollees. This clinical policy is not intended to recommend treatment for members/enrollees. Members/enrollees should consult with their treating physician in connection with diagnosis and treatment decisions.

Providers referred to in this clinical policy are independent contractors who exercise independent judgment and over whom the Health Plan has no control or right of control. Providers are not agents or employees of the Health Plan.

This clinical policy is the property of the Health Plan. Unauthorized copying, use, and distribution of this clinical policy or any information contained herein are strictly prohibited. Providers, members/enrollees and their representatives are bound to the terms and conditions expressed herein through the terms of their contracts. Where no such contract exists, providers, members/enrollees and their representatives agree to be bound by such terms and conditions by providing services to members/enrollees and/or submitting claims for payment for such services.

Note: For Medicaid members/enrollees, 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.
Note: For Medicare members/enrollees, to ensure consistency with the Medicare National Coverage Determinations (NCD) and Local Coverage Determinations (LCD), all applicable NCDs, LCDs, and Medicare Coverage Articles should be reviewed prior to applying the criteria set forth in this clinical policy. Refer to the CMS website at http://www.cms.gov for additional information.