Xenazine (tetrabenazine)

Policy Number: 5.01.541
Origination: 6/2013
Last Review: 7/2016
Next Review: 7/2017

Policy
Blue Cross and Blue Shield of Kansas City (Blue KC) will provide coverage for Xenazine (tetrabenazine) when it is determined to be medically necessary because the following criteria are met.

When Policy Topic is covered
Prior authorization is recommended for prescription benefit coverage of tetrabenazine. Because of the specialized skills required for evaluation and diagnosis of patients treated with tetrabenazine as well as the monitoring required for adverse events and long-term efficacy, approval requires tetrabenazine to be prescribed by or in consultation with a physician who specializes in the condition being treated. Additionally, due to the availability of generic tetrabenazine tablets, approval of brand Xenazine requires a previous trial of the generic
Coverage of tetrabenazine is recommended in those who meet the following criteria:

FDA-Approved Indications

1. Chorea Associated with Huntington’s Disease (HD). Approve for 3 years if the patient meets BOTH of the following criteria (A and B):
   A) Tetrabenazine is prescribed by or after consultation with a neurologist; AND
   B) If brand Xenazine is requested, the patient has tried AND cannot take generic tetrabenazine tablets (due to formulation differences in the inactive ingredients between brand and generic tablets) as identified by the prescribing physician [documentation required].

Tetrabenazine is indicated for the treatment of chorea associated with HD.\(^1\) In addition, the 2012 American Academy of Neurology (AAN) evidence-based guidelines on pharmacologic treatment of chorea in HD states that if HD chorea requires treatment, clinicians should prescribe tetrabenazine, amantadine, or Rilutek\(^{\circledR}\) (riluzole tablets) [Level B].\(^2\)

Other Uses with Supportive Evidence

2. Hemiballism. Approve for 3 years if the patient meets BOTH of the following criteria (A and B):
   A) Tetrabenazine is prescribed by or after consultation with a neurologist; AND
   B) If brand Xenazine is requested, the patient has tried AND cannot take generic tetrabenazine tablets (due to formulation differences in the inactive ingredients between brand and generic tablets) as identified by the prescribing physician [documentation required].

In case reports, tetrabenazine has been effective at treating various involuntary movement disorders, including hemiballism.\(^{12,18}\)

3. Hyperkinetic Dystonia. Approve for 3 years if the patient meets BOTH of the following criteria (A and B):
   A) Tetrabenazine is prescribed by or after consultation with a neurologist; AND
If brand Xenazine is requested, the patient has tried AND cannot take generic tetrabenazine tablets (due to formulation differences in the inactive ingredients between brand and generic tablets) as identified by the prescribing physician [documentation required].

There are multiple controlled and uncontrolled trials conducted with tetrabenazine that included patients with dystonias.\textsuperscript{4-8,10-11,15,18,23-24} In retrospective trials, an overall moderate clinical improvement or better was seen in 161 out of 163 patients with dystonia treated with tetrabenazine.\textsuperscript{23} A treatment algorithm for secondary dystonias was developed that notes tetrabenazine can be tried following a trial of an anticholinergic in children with severe secondary dystonias.\textsuperscript{24} In adults, tetrabenazine can be tried (alone or as combination therapy) following a low-dose trial of anticholinergic.

4. Tardive Dyskinesia (TD). Approve for 3 years if the patient meets BOTH of the following criteria (A and B):
   A) Tetrabenazine is prescribed by or after consultation with a neurologist or psychiatrist; AND
   B) If brand Xenazine is requested, the patient has tried AND cannot take generic tetrabenazine tablets (due to formulation differences in the inactive ingredients between brand and generic tablets) as identified by the prescribing physician [documentation required].

Tetrabenazine has been studied for the treatment of TD, either as initial therapy or in patients who have responded poorly to other agents (e.g., reserpine, bromocriptine, clozapine).\textsuperscript{3-13} Indirect comparisons suggest tetrabenazine may be the most effective agent available for this disorder\textsuperscript{4}, although further studies assessing long-term benefit and the propensity of the drug to aggravate TD are needed. In 2013, the AAN published an evidence-based guideline for the treatment of tardive syndromes (TDS).\textsuperscript{14} The authors found that tetrabenazine possibly reduces TDS symptoms (based on two consistent Class III studies). Therefore, tetrabenazine may be considered in treating TDS (Level C).

5. Tourette Syndrome and Related Tic Disorders. Approve for 3 years if the patient meets BOTH of the following criteria (A and B):
   A) Tetrabenazine is prescribed by or after consultation with a neurologist; AND
   B) If brand Xenazine is requested, the patient has tried AND cannot take generic tetrabenazine tablets (due to formulation differences in the inactive ingredients between brand and generic tablets) as identified by the prescribing physician [documentation required].

Improvement has been observed in some patients with Tourette syndrome treated with tetrabenazine after poor response to prior therapy (e.g., haloperidol), in uncontrolled studies.\textsuperscript{3-8,10,15-17}

When Policy Topic is not covered
The use of Xenazine is considered investigational for all other indications.

Conditions Not Recommended for Approval
Tetrabenazine has not been shown to be effective, or there are limited or preliminary data or potential safety concerns that are not supportive of general approval for the following conditions. Rationale for non-coverage for these specific conditions is provided below. (Note: This is not an exhaustive list of Conditions Not Recommended for Approval.)

1. Coverage is not recommended for circumstances not listed in the Recommended Authorization Criteria. Criteria will be updated as new published data are available.

Considerations
Xenazine requires prior authorization through the Clinical Pharmacy Department.

This Blue Cross and Blue Shield of Kansas City policy Statement was developed using available resources such as, but not limited to: Hayes Medical Technology Directory, Food and Drug
Description of Procedure or Service
Tetrabenazine reversibly depletes monoamines (such as dopamine, serotonin, norepinephrine, and histamine) from nerve terminals. Tetrabenazine, and its major circulating metabolites (α-dihydrotetrabenazine [HTBZ] and β-HTBZ), reversibly inhibits vesicular monoamine transporter type 2 (VMAT2), resulting in decreased uptake of monoamines into synaptic vesicles and depletion of monoamine stores. Tetrabenazine is indicated for the treatment of chorea associated with Huntington’s disease (HD). There are several other published studies which have assessed the efficacy and safety of tetrabenazine for the treatment of other hyperkinetic movement disorders (e.g., tics in Tourette Syndrome and tardive dyskinesia [TD]).

Beginning in September 2015, tetrabenazine has been available as an AB-rated generic to brand Xenazine. Generic tetrabenazine is Food and Drug Administration (FDA)-approved and is available in the same tablet dosage form and the same 12.5 mg and 25 mg strengths as brand Xenazine.

Rationale
References

**Other References Utilized**

**Billing Coding/Physician Documentation Information**

Pharmacy benefit

**Additional Policy Key Words**
Policy Number: 5.01.541

**Policy Implementation/Update Information**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>06/2013</td>
<td>New Policy titled Xenazine</td>
</tr>
<tr>
<td>07/2014</td>
<td>Reviewed – no policy changes made</td>
</tr>
<tr>
<td>07/2015</td>
<td>Reviewed—references updated</td>
</tr>
<tr>
<td>07/2016</td>
<td>Reviewed- no changes to policy statement</td>
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