

Clinical Policy Title:	deutetrabenazine
Policy Number:	RxA.349
Drug(s) Applied:	Austedo®
Original Policy Date:	03/06/2020
Last Review Date:	09/14/2020
Line of Business Policy Applies to:	All lines of business

Background

Deutetrabenazine (Austedo®) is a vesicular monoamine transporter 2 (VMAT2) inhibitor. Deutetrabenazine is indicated for the treatment of:

- Chorea associated with Huntington’s disease
- Tardive dyskinesia in adults

Dosing Information

Drug Name	Indication	Dosing Regimen	Maximum Dose
Deutetrabenazine (Austedo®)	Huntington’s chorea	6 mg/day (6 mg once daily) PO; may be increased weekly by increments of 6 mg/day to a maximum of 48 mg/day	48 mg/day (18 mg/dose and 36 mg/day in poor CYP2D6 metabolizers)
Deutetrabenazine (Austedo®)	Tardive dyskinesia	12 mg/day (6 mg twice daily) PO; may be increased weekly by increments of 6 mg/day to a maximum of 48 mg/day	48 mg/day (18 mg/dose and 36 mg/day in poor CYP2D6 metabolizers)

Dosage Forms

- Tablets: 6 mg, 9 mg, 12 mg

Clinical Policy

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

I. Initial Approval Criteria

A. Huntington’s Disease (must meet all):

1. Diagnosis of chorea associated with Huntington’s disease;
2. Prescribed by or in consultation with a neurologist;
3. Age > 18 years;
4. Failure of tetrabenazine at up to 100 mg/day, unless contraindicated or clinically significant adverse effects are experienced;
5. At the time of request, reserpine, MAOIs, tetrabenazine, or valbenazine is not prescribed concomitantly;
6. Dose does not exceed 48 mg/day.

Approval duration

Commercial: 6 months

Medicaid/HIM: 6 months

B. Tardive Dyskinesia (must meet all):

1. Diagnosis of tardive dyskinesia secondary to a centrally acting dopamine receptor blocking agent (DRBA);
*See Appendix F; if the offending agent is not included in Appendix F, the status of the agent as a centrally acting DRBA as well as its association with tardive dyskinesia should be confirmed.
2. Prescribed by or in consultation with a psychiatrist or neurologist;
3. Age > 18 years ;
4. At the time of request, reserpine, MAOIs, tetrabenazine, or valbenazine is not prescribed concurrently;
5. Dose does not exceed 48 mg/day.

Approval duration

Commercial: 6 months

Medicaid/HIM: 6 months

II. Continued Therapy Approval

A. All Indications in Section I (must meet all):

1. Currently receiving medication that has been authorized by RxAdvance or member has previously met initial approval criteria listed in this policy;
2. Member is responding positively to therapy;
3. Reserpine, MAOIs, tetrabenazine or valbenazine is not prescribed concomitantly;
4. If request is for a dose increase, new dose does not exceed 48 mg/day.

Approval duration

Commercial: 12 months

Medicaid/HIM: 12 months

III. Appendices

APPENDIX A: Abbreviation/Acronym Key

DRBA: dopamine receptor blocking agent

FDA: Food and Drug Administration

MAOI: monoamine oxidase inhibitor

VMAT: vesicular monoamine transporter

APPENDIX B: Therapeutic Alternatives

<p><i>This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent for all relevant lines of business and may require prior authorization. Drug Name</i></p>	<p>Dosing Regimen</p>	<p>Maximum Dose</p>

tetrabenazine (Xenazine®)	Huntington's Chorea 12.5 mg PO once daily for 1 week, then 12.5 mg BID, then titrated by 12.5 mg weekly to a tolerated dose up to maximum of 50 mg/day (100 mg/day for CYP2D6 intermediate or extensive metabolizers)	25 mg/dose and 50 mg/day (37.5 mg/dose and 100 mg/day for CYP2D6 intermediate or extensive metabolizers)
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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.

APPENDIX C: Contraindications/Boxed Warnings

- Contraindication(s):
 - Suicidal, or untreated/inadequately treated depression in patients with Huntington's disease
 - Hepatic impairment
 - Concurrent therapy with reserpine. 20-day washout period required before starting therapy
 - Concurrent therapy with monoamine oxidase inhibitors (MAOIs). 14-day washout period required before starting therapy
 - Concurrent therapy with tetrabenazine (XENAZINE®) or valbenazine
- Boxed warning(s):
 - Depression and suicidality in patients with Huntington's Disease

APPENDIX D: General Information

- Medication-induced movement disorders, including tardive dyskinesia, are organized in the DSM V as follows: neuroleptic-induced parkinsonism/other medication-induced parkinsonism, neuroleptic malignant syndrome, medication-induced acute dystonia, medication-induced acute akathisia, tardive dyskinesia, tardive dystonia/tardive akathisia, medication-induced postural tremor, other medication-induced movement disorder, antidepressant discontinuation syndrome, and other adverse effects of medication.⁵
- Tardive dyskinesia is a type of movement disorder that occurs secondary to therapy with *centrally acting* DRBAs (see Appendix E).⁵
- Typical therapeutic drug classes containing DRBAs include first- and second-generation antipsychotics, antiemetics, and tri-cyclic antidepressants (see Appendix F).⁵
- Other therapeutic drug classes containing agents that have been variously associated with movement disorders are listed below:⁶⁻⁸
 - Antiarrhythmics
 - Antibiotics
 - Anticholinergics
 - Antidepressants
 - Antiepileptics
 - Antihistamines
 - Antimanics
 - Bronchodilators
 - Calcium channel blockers
 - Central nervous system stimulants
 - Dopamine agonists
 - Dopamine depleting agents
 - Dopaminergics
 - Glucocorticoids

- o Immunosuppressants
- o Mood stabilizers
- o Muscle relaxants
- o Oral contraceptives

APPENDIX E: DSM-V Definition of Tardive Dyskinesia⁵

- **Tardive Dyskinesia (ICD-9 333.85/ICD-10 G24.01)**
 - o Involuntary athetoid or choreiform movements (lasting at least a few weeks) generally of the tongue, lower face and jaw, and extremities (but sometimes involving the pharyngeal, diaphragmatic, or trunk muscles) developing in association with the use of a neuroleptic medication for at least a few months.
 - o Symptoms may develop after a shorter period of medication use in older persons. In some patients, movements of this type may appear after discontinuation, or after change or reduction in dosage, of neuroleptic medications, in which case the condition is called neuroleptic withdrawal emergent dyskinesia. Because withdrawal emergent dyskinesia is usually time limited, lasting less than 4-8 weeks, dyskinesia that persists beyond this window is considered to be tardive dyskinesia.

APPENDIX F: Centrally Acting Dopamine Receptor Blocking Agents (Neuroleptics)^{5,6,9,10}

Pharmacologic Class	Therapeutic Class		
	First-generation (typical) antipsychotics	Antiemetic agents	Tri-cyclic antidepressants
Phenothiazine	Chlorpromazine Fluphenazine Perphenazine Thioridazine Thiothixene Trifluoperazine	Chlorpromazine Perphenazine Prochlorperazine Promethazine* Thiethylperazine	Amoxapine [†]
Butyrophenone	Haloperidol	Droperidol Haloperidol**	
Substituted benzamide		Metoclopramide Trimethobenzamide	
Dibenzazepine	Loxapine		
Diphenylbutylpiperidine	Pimozide		
Second-generation (atypical) antipsychotics			
Quinolone	Aripiprazole, brexpiprazole		
Dibenzazepine	Asenapine		
Piperazine	Cariprazine		
Dibenzodiazepine	Clozapine, quetiapine		
Benzisoxazole	Iloperidone		
Benzisothiazole	Lurasidone, ziprasidone		
Thienobenzodiazepine	Olanzapine		
Pyrimidinone	Paliperidone, risperidone		

*First generation H1 antagonist

**Off-label use

†A dibenzoxapine that shares properties with phenothiazines

References

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Review/Revision History	Review/Revised Date	P&T Approval Date
Policy established.	01/2020	03/06/2020
Policy was reviewed: <ol style="list-style-type: none"> 1. Policy title table was updated. 2. Continued therapy criteria II.A.1 was rephrased to “Currently receiving medication that has been authorized by RxAdvance...”. 3. Age symbols and approval duration was updated in initial and continued therapy approval. 4. Appendix C contraindications and boxed warnings were updated to be more specific. 	08/26/2020	09/14/2020

<ol style="list-style-type: none">5. Updating initial and continued therapy approval criteria to include avoidance of concurrent reserpine and MAOI therapy.6. QD was updated to "once daily" in document.7. References were updated.		
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