

**Clinical Policy: Deutetrabenazine (Austedo)** 

Reference Number: MDN.CP.PHAR.341

Effective Date: 04.01.22 Last Review Date: 04.22

Line of Business: Meridian IL Medicaid

Revision Log

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

### **Description**

Deutetrabenazine (Austedo®) is a vesicular monoamine transporter 2 (VMAT2) inhibitor.

#### FDA Approved Indication(s)

Austedo is indicated for the treatment of:

- Chorea associated with Huntington's disease
- Tardive dyskinesia (TD) in adults

#### Policy/Criteria

Provider must submit documentation (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<sup>®</sup> that Austedo is **medically necessary** when the following criteria are met:

#### I. Initial Approval Criteria

### A. Chorea Associated with Huntington Disease (must meet all):

- 1. Diagnosis of chorea associated with Huntington disease;
- 2. Prescribed by or in consultation with a neurologist;
- 3. Age  $\geq$  18 years;
- 4. Targeted mutation analysis demonstrates a cytosine-adenine-guanine (CAG) trinucleotide expansion of ≥ 36 repeats in the huntingtin (HTT) gene;
- 5. Evidence of chorea is supported by a Unified Huntington Disease Rating Scale (UHDRS) score ranging from 1 to 4 on any one of chorea items 1 through 7 (*see Appendix D*);
- 6. Austedo is not prescribed concurrently with tetrabenazine or Ingrezza®;
- 7. Dose does not exceed 48 mg per day.

**Approval duration:** 6 months

#### **B.** Tardive Dyskinesia (must meet all):

- 1. Diagnosis of TD secondary to treatment with a centrally acting dopamine receptor blocking agent (DRBA) (*see Appendix G*);
- 2. Prescribed by or in consultation with a psychiatrist or neurologist;
- 3. Age  $\geq$  18 years;
- 4. Evidence of moderate to severe TD is supported by an Abnormal Involuntary Movement Scale (AIMS) score of 3 or 4 on any one of items 1 through 9 (*see Appendix H*);



- 5. Austedo is not prescribed concurrently with tetrabenazine or Ingrezza;
- 6. Dose does not exceed 48 mg per day.

**Approval duration:** 6 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.

#### **II. Continued Therapy**

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

- 1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
- 2. Member meets one of the following (a or b):
  - a. For Huntington disease: Member is responding positively to therapy as evidenced by a reduction since baseline in any one of UHDRS chorea items 1 through 7 (*see Appendix D*);
  - b. For TD: Member is responding positively to therapy as evidenced by a reduction since baseline in any one of AIMS items 1 through 9 (*see Appendix H*);
- 3. Austedo is not prescribed concurrently with tetrabenazine or Ingrezza;
- 4. If request is for a dose increase, new dose does not exceed 48 mg per day.

**Approval duration:** 12 months

### **B.** 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
- 2. 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.

#### 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 policies – CP.PMN.53 for Medicaid or evidence of coverage documents.



## IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key AAN: American Academy of Neurology AIMS: Abnormal Involuntary Movement Scale

APA: American Psychiatry Association DRBA: dopamine receptor blocking agent DSM V: Diagnostic and Statistical Manual, Version 5

FDA: Food and Drug Administration

HTT: huntingtin

MAOI: monoamine oxidase inhibitor

TD: tardive dyskinesia

**UHDRS:** Unified Huntington Disease Rating

Scale

VMAT: vesicular monoamine transporter

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 for all relevant lines of business

and may require prior authorization.

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
tetrabenazine	Huntington's Chorea	25 mg/dose and 50
(Xenazine®)	12.5 mg PO QD for 1 week, then 12.5 mg BID,	mg/day (37.5 mg/dose
	then titrated by 12.5 mg weekly to a tolerated	and 100 mg/day for
	dose up to maximum of 50 mg/day (100 mg/day	CYP2D6 intermediate
	for CYP2D6 intermediate or extensive	or extensive
	metabolizers)	metabolizers)
	TD (off-label)	200 mg/day in divided
	Typical dosing range (mg/day): 25-75	doses
	Comments: Give in divided doses: increase from	
	initial dose of 25-50 mg/day by 12.5 mg/week to	
	maximum of 150-200 mg/day. Retitrate dose for	
	treatment interruptions of more than 5 days. Test	
	for CYP2D6 metabolizer status before giving	
	doses > 50 mg/day. Do not exceed 50 mg/day in	
	poor metabolizers or in patients treated with a	
	strong inhibitor of CYP2D6.	
	The American Psychiatric Association practice guideline	
	for the treatment of patients with schizophrenia. 2020.	
	Third Ed.	

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
  - o Taking reserpine, MAOIs, tetrabenazine or valbenazine
- Boxed warning(s): depression and suicidality in patients with Huntington's disease



Appendix D: Chorea: The Unified Huntington Disease Rating Scale (UHDRS)

- The UHDRS encompasses motor, behavioral, cognitive, and functional components for use in evaluating patients with Huntington disease and is commonly used in both research and clinical practice.
- The American Academy of Neurology (AAN) guidelines evaluating pharmacologic therapies for chorea associated with Huntington disease describe the chorea subscore of the UHDRS motor component as a rating of 7 body regions (facial, bucco-oral-lingual, trunk, extremities) on a five-point scale from 0 to 4 with 0 representing no chorea.
- See Huntington Study Group 1996 and Mestre et al. 2018 for additional information about the UHDRS.

(AAN Guidelines 2012, Huntington Study Group 1996, Mestre 2018)

### Appendix E: Tardive Dyskinesia: 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.<sup>5</sup>
- Tardive dyskinesia is a type of movement disorder that occurs secondary to therapy with *centrally acting* DRBAs (*see Appendix F*). (DSM V)
- Typical therapeutic drug classes containing DRBAs include first- and second-generation antipsychotics, antiemetics, and tri-cyclic antidepressants (*see Appendix G*). (DSM V)
- Other therapeutic drug classes containing agents that have been variously associated with movement disorders are listed below: (Waln 2013, Meyer 2014, Lerner 2015)

Antiarrhythmics

o Antibiotics

Anticholinergics

o Antidepressants

o Antiepileptics

Antihistamines

o Antimanics

o Bronchodilators

Calcium channel blockers

Central nervous system stimulants

o Dopamine agonists

o Dopamine depleting agents

Dopaminergics

o Glucocorticoids

o Immunosuppressants

Mood stabilizers

Muscle relaxants

Oral contraceptives

#### Appendix F: Tardive Dyskinesia: DSM-V Definition

### Tardive Dyskinesia (*ICD-9 333.85/ICD-10 G24.01*)

- 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.
- 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



### Tardive Dyskinesia (*ICD-9 333.85/ICD-10 G24.01*)

dyskinesia is usually time limited, lasting less than 4-8 weeks, dyskinesia that persists beyond this window is considered to be tardive dyskinesia.

(DSM V)

Appendix G: Tardive Dyskinesia: Centrally Acting Dopamine Receptor Blocking Agents

(Neuroleptics)

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

(DSM V, Meyer 2014, Smith 2010, Clinical Pharmacology, Lexicomp)

Appendix H: Tardive Dyskinesia: The Abnormal Involuntary Movement Scale (AIMS)

- The AIMS is a clinician-rated 12-item assessment tool developed by the National Institute of Mental Health to evaluate severity of involuntary movements in multiple movement disorders including TD. The AIMS is commonly used in both research and clinical practice.
- AIMS items 1-10 are rated on a 5-point scale (0 none; 1 minimal; 2 mild; 3 moderate; 4 severe). Items 1-7 assess dyskinesia severity by body region (items 1-4 orofacial; items 5-7 extremity and trunk). Items 8-10 assess overall severity, incapacitation, and patient awareness respectively item 8 uses the highest score of any

<sup>\*</sup>First generation H1 antagonist

<sup>\*\*</sup>Off-label use

<sup>†</sup>A dibenzoxapine that shares properties with phenothiazines



- one of items 1-7. Items 11 (dental) and 12 (dentures) are yes/no questions which help characterize lip, jaw, and tongue movements.
- The 2020 American Psychiatric Association (APA) Practice Guideline for the Treatment
  of Patients With Schizophrenia recommends that patients who have moderate to severe or
  disabling TD be treated with a reversible VMAT2 inhibitor (i.e., deutetrabenazine,
  tetrabenazine, and valbenazine); the guideline notes that the AIMS tool can be
  instrumental in such decision-making.
- See Munetz 1988 for additional information about the AIMS.

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
Huntington's	6 mg/day (6 mg once daily) PO; may be	48 mg/day (18 mg/dose and
chorea	increased weekly by increments of 6	36 mg/day in poor CYP2D6
	mg/day to a maximum of 48 mg/day	metabolizers)
TD	12 mg/day (6 mg twice daily) PO; may be	48 mg/day (18 mg/dose and
	increased weekly by increments of 6	36 mg/day in poor CYP2D6
	mg/day to a maximum of 48 mg/day	metabolizers)

#### VI. Product Availability

Tablets: 6 mg, 9 mg, 12 mg

#### VII. References

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Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy created, adapted from CP.PHAR.341	04.01.22	04.22

#### **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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