Tardive Dyskinesia (TD) Screening Toolkit

A Team-Based Approach to DISEASE AWARENESS, IDENTIFICATION, AND ASSESSMENT



Table of Contents

Toolkit Introduction
How It Works
Q&A
FLAG
INTRODUCTION
EDUCATION
FLAGGING TOOL
SCREEN
INTRODUCTION
EDUCATION
SCREENING TOOL
ASSESS15
INTRODUCTION
EDUCATION
ASSESSMENT TOOL



Toolkit Introduction

Over 5% of US adults, about 14.1 million people, live with a serious mental illness [SMI].¹ SMIs are a group of debilitating conditions that include schizophrenia, acute mania, bipolar disorder, major depressive disorder, delusional disorder, severe agitation, borderline personality disorder, Tourette syndrome, dementia, and substance-induced psychotic disorder.²

Many patients with SMI end up needing multiple medications to manage their condition and help them function.³ Antipsychotic medication (AP) is the main treatment option for managing SMIs, both in the acute phase of illness and for longer-term management. APs are effective in controlling SMI symptoms, and maintenance doses are associated with lower relapse rates, but their prolonged use can lead to a condition called tardive dyskinesia (TD).⁴

TD is a persistent, involuntary movement disorder characterized by uncontrollable, abnormal, and repetitive movements of the face, torso, limbs, and fingers or toes. There are ~600,000 people in the United States living with TD, and, of those, ~65% have not yet been diagnosed.⁵ Additionally, research suggests up to 30% of people who have taken first-generation antipsychotics and up to 21% of patients who have taken second-generation antipsychotics over a prolonged period may develop TD.⁶

In addition to the burden on the individual, studies show a significant economic burden associated with TD. For people with TD, the mean total all-cause healthcare costs increased by 26.2% post diagnosis. The major cost driver was inpatient admissions, with an increase of 56.1%, but outpatient clinic, outpatient pharmacy, and emergency room service costs were all also substantially higher.⁷ The US total yearly healthcare and medication costs for people with TD were nearly double the costs for those without TD—\$54,656 vs \$28,777 per person, respectively.⁷

As we address the challenges of caring for people with SMIs, it's important to include TD in the conversation. TD has a significant physical, social, and psychological impact on individuals and a substantial economic impact on the broader healthcare system.⁷ Proactive identification, diagnosis, and treatment of TD can positively impact the lives of people with this debilitating movement disorder and the organizations caring for them.

Neurocrine Biosciences has created a toolkit to support a team-based approach to TD awareness, identification, and diagnosis within your organization. With resources designed around key touchpoints across the care continuum, the toolkit provides materials tailored to staff roles beyond traditional clinicians. Leveraging all care team members who interact directly with this vulnerable population, including nonclinical staff, to support the screening of TD may create operational efficiencies that drive earlier diagnosis and treatment, without increasing the burden on clinical providers.

To learn more about Neurocrine's toolkit and how it can be integrated seamlessly within your staff workflows, please see pages 4–5.

Neurocrine is committed to relieving patient suffering, supporting care teams, and reducing disease burden. Thank you for playing a pivotal role in ensuring the vulnerable population suffering from TD get the diagnosis, treatment, and relief they need.

REFERENCES:

 National Institute of Mental Health. Mental illness. Updated March 2023. Accessed July 11, 2024. https://www.nimh.nih. gov/health/statistics/mental-illness 2. Chokhawala K, Stevens L. Antipsychotic medications. StatPearls [Internet]. Treasure Island [FL]: StatPearls Publishing. Updated February 26, 2023. Accessed July 11, 2024. https://www.ncbi.nlm.nih.gov/books/ NBK519503/?report=classic 3. Stassen HH, Bachmann S, Bridler R, et al. Detailing the effects of polypharmacy in psychiatry: longitudinal study of 320 patients hospitalized for depression or schizophrenia. *Eur Arch Psychiatry Clin Neurosci.* 2022;272[4]:603-619. doi: 10.1007/s00406-021-01358-5 4. Howe J, Lindsey L. The role of pharmacists in supporting service users to optimise antipsychotic medication. *Int J Clin Pharm.* 2023;45[5]:1293-1298. doi: 10.1007/s11096-023-01630-9 5. Tardive dyskinesia (TD). National Alliance on Mental Illness. Updated May 2024. Accessed July 11, 2024. https://namimainlinepa.org/tardive-dyskinesia-td/ 6. Carbon M, Hsieh CH, Kane JM, et al. Tardive dyskinesia prevalence in the period of second-generation antipsychotic use: a metaanalysis. Psychiatrist.com. March 29, 2027. Accessed July 11, 2024. https://www.psychiatrist.com/jcp/tardive-dyskinesia-prevalence/ 7. Utah Department of Health & Human Resources. Resources and Options Regarding Tardive Dyskinesia. November 2023. Accessed June 2, 2024. https://le.utah.gov/interim/2023/pdf/00004492.pdf

How It Works

TD may have an impact on quality of life and on healthcare utilization and costs.¹ Accurate diagnosis of TD is crucial for its effective treatment and management but is challenging due to the subtle and gradual onset and fluctuating nature of symptoms. The risk of TD associated with second-generation antipsychotic treatment is often underestimated, and mild cases may not be easily distinguished from everyday habits, tics, and mannerisms.² Even upon evaluation, TD may be difficult to identify as movements can present at rest but diminish when a person performs any form of volitional movement (eg, tongue dyskinesia reduces when they are asked to protrude their tongue).³

To increase the chances of identifying the subtle and shifting presentation of TD symptoms earlier in the course of the disease, it is best to leverage an interprofessional team. Diverse staff members can flag, screen, and assess for TD, depending on each member's role, training, and interaction type with persons undergoing care.

Integrating simple tools into different staff workflows can help drive earlier TD diagnosis and guideline-directed treatment.

Toolkit Components and Use

This toolkit provides the resources needed to **FLAG**, **SCREEN**, and **ASSESS** TD, including leveled background and education for both nonclinical and clinical care team members. Depending on their level of clinical knowledge and engagement with the people undergoing care, team members can be categorized as **FLAG(gers)**, **SCREEN(ers)**, and **ASSESS(ers)**.

FLAG:

This section can be used by team members who have short interactions with people undergoing care and limited clinical knowledge. Their role is simply to flag any abnormal involuntary movement they notice.

- **Care Team Members:** eg, front desk staff, nursing and medical assistant
- **Settings:** eg, waiting room, examination room, bedside, resident room, activity area
- Resources:
 - **Introduction:** 101-level introduction to TD (eg, what TD is, why it is a burden, and why nonclinical staff play an integral role in helping identify the condition)
 - Education: information on what TD may look and sound like
 - **Tool: Flagging Tool** to note if any abnormal involuntary movements are witnessed and where on the body they are witnessed
- **Use Case:** A care team member will complete the **Flagging Tool** and pass it to the next care team member, either via paper hand-off or by uploading it to the electronic health record [EHR]

Note: The **Flagging Tool** has additional fields that can be used by the next level of provider aka SCREEN(ers). Guidance is provided with the Flagging Tool, noting pieces that are appropriate for use by this level of staff member.

How It Works (continued)

- **Care Team Members:** eg, registered nurse, social worker, nursing or medical assistant, case manager, dietitian
- Settings: eg, examination room, bedside
- Resources:
 - **Introduction:** 201-level introduction to TD (eg, what TD is, why it is a burden, what it may look like, and why this level of staff plays an integral role in helping identify the condition)
 - **Education:** information on TD identification and appropriate use of the **Screening Tool**
 - **Tool: Screening Tool** (MIND-TD Questionnaire) to help facilitate a dialogue with at-risk people about the presence and impact of abnormal involuntary movements
- Use Case: If the Flagging Tool was used to note any abnormal involuntary movements, this care team member will review it. They will then complete the Screening Tool and pass both the Flagging and Screening Tools to the next care team member, either via paper hand-off or by uploading it to the EHR.
- **Care Team Members:** eg, physician, advanced practice provider, minimum data set (MDS) coordinator
- Settings: eg, examination room, bedside
- Resources:
 - **Introduction:** 301-level information on TD (eg, how TD can present and guideline-based recommendations for TD assessment and diagnosis)
 - Education: information on TD best practices and on appropriate use of the Assessment Tool
 - **Tool: Assessment Tool** (aka Abnormal Involuntary Movement Scale [AIMS] Assessment) to assess TD presence and severity
- Use Case: If the Flagging and Screening Tools were completed, this care team member will review and can complete the additional Flagging Tool fields during their interaction(s) with the person receiving care. They will then use the Assessment Tool to determine whether TD should be formally diagnosed and treated.

REFERENCES:

1. Carroll B, Irwin DE. Health care resource utilization and costs for patients with tardive dyskinesia. *J Manag Care Spec Pharm.* 2019;25[7]:810-816. doi: 10.18553/jmcp.2019.25.7.810 2. Kremens DE. Earlier diagnosis of tardive dyskinesia. Psychiatrist.com. December 10, 2019. Accessed July 7, 2024. https://www.psychiatrist.com/jcp/diagnosing-tardive-dyskinesia/ 3. Vasan S. Padhy RK. Tardive dyskinesia. Updated April 24, 2023. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024. https://www.ncbi.nlm.nih.gov/books/NBK448207/

ASSESS:

SCREEN:

This section can be used

by care team members

interactions with people

may have some clinical

knowledge but are

diagnose TD.

not able to formally

undergoing care and who

who have longer

This section can be used by care team members who have longer interactions with people undergoing care, are clinically trained, and are able to formally diagnose TD.

Tardive Dyskinesia Screening Toolkit

Q&A

What if I don't have a FLAG level care team member within my organization? How about if I don't have a SCREEN level care team member?

A: This kit and its contents can be tailored to your organization's staff makeup. Pick and choose the appropriate content level based on the clinical knowledge and patient engagement of staff members at your organization.

Can Education be used across staff cohorts? A: Staff members can review the education below their cohort (eg, SCREEN[ers] can review the FLAG[ers] education), but should not leverage education above their cohort because they may not have sufficient clinical knowledge to understand that information (eg, FLAG[ers] should not try to leverage the SCREEN[ers] education].

Can Tools be used across cohorts?

- A: Similarly, staff members can use the tools below their cohort, but should not leverage tools above their cohort because they may not have sufficient clinical knowledge to correctly complete those associated tasks.
- If an abnormal involuntary movement was not noted in the Flagging Tool, should the Screening Tool still be used? Similarly, if an abnormal involuntary movement was not noted in the Screening Tool, should clinical care members still use the Assessment Tool?
 - **A:** Yes, guideline-based recommendations state that patients on antipsychotics should be assessed regularly.¹

How can I roll out this toolkit within my organization?

A: Consider presenting pages 4-5 (How It Works) to your clinical leads, service line directors, and/or educators. The **Introduction, Education**, and **Tools** for each group can be downloaded and shared digitally as well as printed. Contact your Neurocrine Corporate Account Manager (CAM) if you have questions about the resources, or if you'd like a paper version of the toolkit.

Use Case: FLAG, SCREEN, ASSESS

The scenario below shows how the TD Screening Toolkit may be integrated within a site of care.

The program was introduced to all care team members at a behavioral health center, and then the leveled sections FLAG, SCREEN, ASSESS, each including an **Introduction**, **Education**, and **Tool**, were shared with the appropriate group of team members.

A front desk staff member FLAG[ger] noticed an unusual movement in a patient in the waiting area. This observation prompted them to complete the **Flagging Tool**, which was used to note where on the patient's body the abnormal movement occurred. The **Flagging Tool** was then placed in the patient's chart.

When the nurse SCREEN[er] picked up the patient's chart on their way to bring the patient to the examination room, the **Flagging Tool** prompted them to use the **Screening Tool** to facilitate a dialogue with the patient about the presence and impact of abnormal/involuntary movements. Both the **Flagging and Screening Tools** were then placed in the patient's chart.

When the physician ASSESS[er] met with the patient, the **Flagging and Screening Tools** prompted a formal TD assessment.

All materials were uploaded into the EHR post appointment.

Use Case: SCREEN, ASSESS (No FLAG)

The scenario below shows how the TD Screening Toolkit may be integrated within a site of care. In this case, only 2 of the 3 levels are leveraged, still prompting a formal TD assessment.

The program was introduced to all care team members at a long-term care facility, and then the leveled sections FLAG, SCREEN, ASSESS, each including an **Introduction**, **Education**, and **Tool**, were shared with the appropriate group of team members.

A nurse SCREEN[er] noticed an unusual movement when checking on a resident. This observation prompted them to use the screening tool to facilitate a dialogue with the resident about the presence and impact of abnormal/ involuntary movements. The completed **Screening Tool** was then placed in the resident's chart. When the physician ASSESS[er] met with the resident, the **Screening Tool** prompted a formal TD assessment.

All materials were uploaded into the EHR post patient interaction.

REFERENCE:

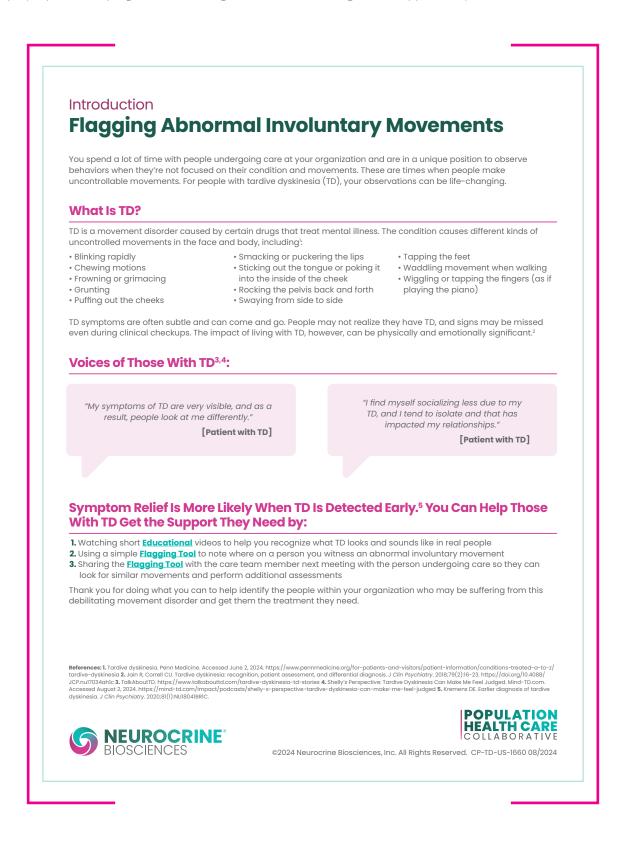
1. Kremens DE. Earlier diagnosis of tardive dyskinesia. Psychiatrist.com. December 10, 2019. Accessed July 7, 2024. https://www.psychiatrist.com/jcp/diagnosing-tardive-dyskinesia/

FLAG Abnormal Involuntary Movements

Tardive Dyskinesia Screening Toolkit

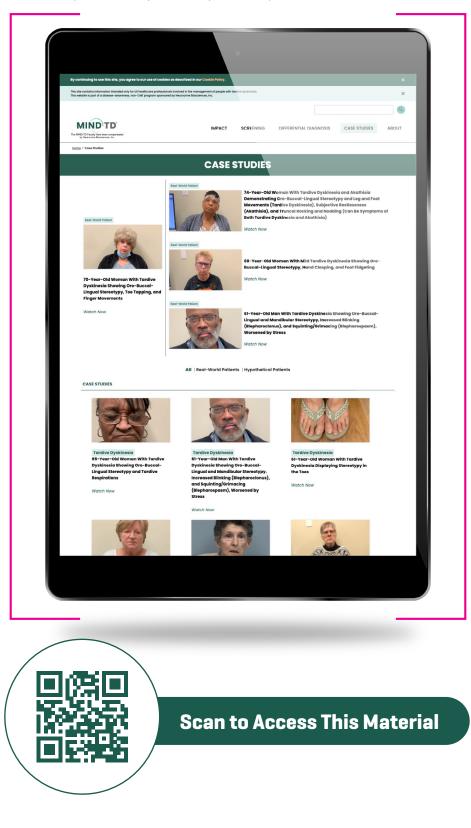
FLAG Introduction

Download this material to learn more about the abnormal involuntary movements caused by TD and how you can play a part in helping those suffering from the condition get the support they need.



FLAG Education

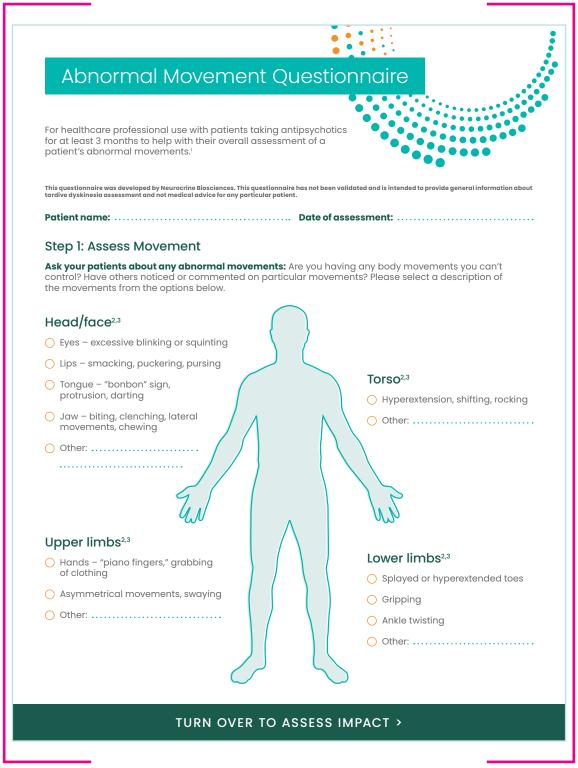
Click **here** or scan the QR code below to view videos showing what abnormal involuntary movements look like in different parts of the body and how a person's speech may be affected.



FLAGGING Tool

Download this material, and use the outline of the human body, to flag where an abnormal involuntary movement is seen in a person. Simply note an X or check mark $[\checkmark]$ on the outline of the body.

Note: The additional fields in the piece should only be completed by care team members who have longer interactions with people undergoing care and who have some clinical knowledge.

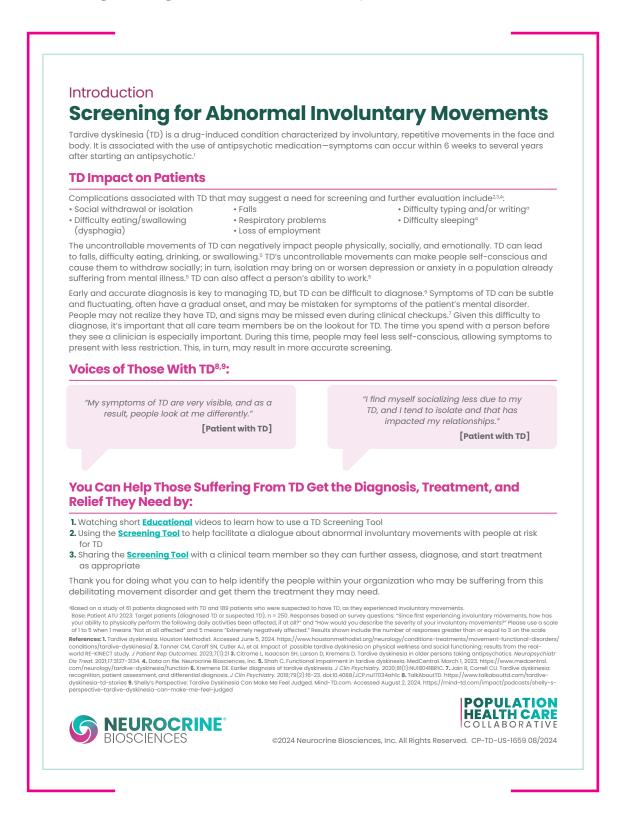


SCREEN for Abnormal Involuntary Movements

Tardive Dyskinesia Screening Toolkit

SCREEN Introduction

Download this material to learn more about TD, the impact it can have, and how you may help those suffering from this condition get the diagnosis, treatment, and relief they need.



SCREEN Education

Click **here** or scan the QR code below to access overview videos of the MIND-TD Questionnaire and learn best practices around the use of the Questionnaire.

	By continuing to use this site, you agree to our use of cookies as described in our Cookie Palicy.					
This site contains information intended only for US healthcare professiona This website is part of a disease-awareness, non-CME program sponsore	s site contains information intended only for US healthcare professionals involved in the management of people with tardive dyskinesia. s wobsite is part of a disease-awareness, non-CME program sponsored by Neurocrine Blacelences, inc.					×
					Q	
MIND TD. The North To Pacify there here compensated by Norther Biotecharter, No.	IMPACT	SCREENING	DIFFERENTIAL DIAG	NOSIS	CASE STUDIES	ABOUT
Home / Screening / Videos / Screening for Tardive Dyskinesia via	Telehealth With the MIND-TD Questionnal	re				
	SCP	EENING				
Screening for Tardive Dyskine	sia <mark>via Tel</mark> ehealth V	Vith the MIND	-TD Question	naire		
Share: 🕑 Over 5-min watch						
				FACULT		s
				TACOLI		
Chapter 1		Chapter 2		Acoel	Leslie Lundt, MD Executive Medical Direc Neurocrine Blosciences, San Diego, CA	, Inc.
Chapter 1		Chapter 2			Executive Medical Direc Neurocrine Blosciences,	, Inc. MHNP-BC lealth
Chapter 1		Chapter 2			Executive Medical Direc Neurocrine Biosciences, San Diego, CA Desiree M. Matthews, Pi Nurse Practitioner Outpatient Behavioral I- Advanced Practice Prov Liaison, Monarch	INC. MHNP-BC lealth rider Clinical
Chapter 1	Desiree MD, and Desiree Matt e exam for tardive d	by Leslie Lundt, MD.*	form a visual telehealth,		Executive Medical Direc Neurocrine Statisticanes, San Diego, CA Desiree M. Matthews, P. Nurse Practitioner Outpatient: Behavioral II Advanced Practice Pro- Liaion, Monarch Charlotte, NC Rakesh Jain, MD, MPH Chincal Professor Department of Psychiak	Inc. MHN-BC lealth Ider Clinical ry evill Sciences mian Basin



Scan to Access This Material

SCREENING Tool

Download the MIND-TD Questionnaire to help facilitate a dialogue with those at risk for TD about the presence and impact of uncontrollable movements.

The	MIND-TD Questionnaire	MIN	
tardive	ND-TD Questionnaire is intended to facilitate a dialogue about abnormal movements wi e dyskinesia. Diagnosis of tardive dyskinesia should be based on the patient's medical his nician's best judgment.		
PART 1	This section may be administered by the treating clinician or by a medical staff memb visit. It can be administered in person or via video or audio-only telehealth.	er ahead o	fthe
	is questionnaire as part of a routine visit for a patient with any of the following:		`
	Patients who are taking or have ever taken an antipsychotic medication (first or second Patients who are taking anticholinergic medications, such as benztropine or trihexypher in conjunction with current or past antipsychotic usage	-	ר)
	Patients who have a current diagnosis of tardive dyskinesia		
M	Movement Do you have extra or unwanted movements in your body?	🗆 yes	🗆 no
0	Impact Do you feel embarrassed or self-conscious about movements in your body?	,	no no
N	Notice Has someone else seen extra movements in your body?	🗆 yes	
D If you	Daily Activities Do any movements cause problems during your daily routine?	U yes	
	i suspect possible abnormal movements that could be related to TD, see Part 2 of this ques This section should be administered by the treating clinician. The "Differentiate" sectio	, stionnaire fa	or next steps.
	i suspect possible abnormal movements that could be related to TD, see Part 2 of this ques	, stionnaire fa	or next steps.
If you PART 2	u suspect possible abnormal movements that could be related to TD, see Part 2 of this ques This section should be administered by the treating clinician. The "Differentiate" sectio observation of the patient, either in person or via video telehealth. Thorough Interview	, stionnaire fa	or next steps.
If you PART 2	a suspect possible abnormal movements that could be related to TD, see Part 2 of this ques This section should be administered by the treating clinician. The "Differentiate" section observation of the patient, either in person or via video telehealth. Thorough Interview Itient about:	, stionnaire fa	or next steps.
If you PART 2 Ask po	a suspect possible abnormal movements that could be related to TD, see Part 2 of this ques This section should be administered by the treating clinician. The "Differentiate" section observation of the patient, either in person or via video telehealth. Thorough Interview Itient about:	stionnaire fo	r next steps. risual
If you PART 2 Ask po	This section should be administered by the treating clinician. The "Differentiate" section observation of the patient, either in person or via video telehealth. Thorough Interview Itient about: Problems with eating, drinking, or swallowing Sores in the mouth, teeth grinding or dental issues, mouth noises (for example, lip smace Problems speaking or involuntary grunting	stionnaire fo	r next steps. risual
If you PART 2 Ask pc	This section should be administered by the treating clinician. The "Differentiate" section observation of the patient, either in person or via video telehealth. Thorough Interview Itient about: Problems with eating, drinking, or swallowing Sores in the mouth, teeth grinding or dental issues, mouth noises (for example, lip smace Problems speaking or involuntary grunting Difficulty gripping objects (for example, a zipper, buttons, silverware, cup, toothbrush)	stionnaire fo	r next steps. risual
If you PART 2 Ask pc	This section should be administered by the treating clinician. The "Differentiate" section observation of the patient, either in person or via video telehealth. Thorough Interview Itient about: Problems with eating, drinking, or swallowing Sores in the mouth, teeth grinding or dental issues, mouth noises (for example, lip smace Problems speaking or involuntary grunting Difficulty gripping objects (for example, a zipper, buttons, silverware, cup, toothbrush) Change in handwriting or difficulty typing	stionnaire fo	r next steps. risual
If you PART 2 Ask pc	This section should be administered by the treating clinician. The "Differentiate" section observation of the patient, either in person or via video telehealth. Thorough Interview Itient about: Problems with eating, drinking, or swallowing Sores in the mouth, teeth grinding or dental issues, mouth noises (for example, lip smace Problems speaking or involuntary grunting Difficulty gripping objects (for example, a zipper, buttons, silverware, cup, toothbrush) Change in handwriting or difficulty typing Foot tapping or fidgeting movement of the legs	stionnaire fo	r next steps. risual
If you PART 2 Ask po	This section should be administered by the treating clinician. The "Differentiate" section observation of the patient, either in person or via video telehealth. Thorough Interview Itient about: Problems with eating, drinking, or swallowing Sores in the mouth, teeth grinding or dental issues, mouth noises (for example, lip smace Problems speaking or involuntary grunting Difficulty gripping objects (for example, a zipper, buttons, silverware, cup, toothbrush) Change in handwriting or difficulty typing	stionnaire fo	r next steps. risual
If you	 This section should be administered by the treating clinician. The "Differentiate" section observation of the patient, either in person or via video telehealth. Thorough Interview Itient about: Problems with eating, drinking, or swallowing Sores in the mouth, teeth grinding or dental issues, mouth noises (for example, lip smace Problems speaking or involuntary grunting Difficulty gripping objects (for example, a zipper, buttons, silverware, cup, toothbrush) Change in handwriting or difficulty typing Foot tapping or loss of balance 	stionnaire fo	r next steps. risual
If you PART 2 Ask pc	 This section should be administered by the treating clinician. The "Differentiate" section observation of the patient, either in person or via video telehealth. Thorough Interview Itient about: Problems with eating, drinking, or swallowing Sores in the mouth, teeth grinding or dental issues, mouth noises (for example, lip smace Problems speaking or involuntary grunting Difficulty gripping objects (for example, a zipper, buttons, silverware, cup, toothbrush) Change in handwriting or difficulty typing Foot tapping or fidgeting movement of the legs Difficulty walking or loss of balance Do they notice their big toe goes up in the air when they have their socks off? 	stionnaire fo	r next steps. risual
If you PART 2 Ask pc	This section should be administered by the treating clinician. The "Differentiate" section observation of the patient, either in person or via video telehealth. Thorough Interview ttient about: Problems with eating, drinking, or swallowing Sores in the mouth, teeth grinding or dental issues, mouth noises (for example, lip smace Problems speaking or involuntary grunting Difficulty gripping objects (for example, a zipper, buttons, silverware, cup, toothbrush) Change in handwriting or difficulty typing Foot tapping or fidgeting movement of the legs Difficulty walking or loss of balance Do they notice their big toe goes up in the air when they have their socks off? Do their legs move or twist, or do their knees knock when they sit?	stionnaire fo	r next steps. risual
If you PART 2 PART 2 PA	This section should be administered by the treating clinician. The "Differentiate" section observation of the patient, either in person or via video telehealth. Thorough Interview titent about: Problems with eating, drinking, or swallowing Sores in the mouth, teeth grinding or dental issues, mouth noises (for example, lip smace Problems speaking or involuntary grunting Difficulty gripping objects (for example, a zipper, buttons, silverware, cup, toothbrush) Change in handwriting or difficulty typing Foot tapping or fidgeting movement of the legs Difficulty walking or loss of balance Do they notice their big toe goes up in the air when they have their socks off? Do their legs move or twist, or do their knees knock when they sit?	stionnaire fo	r next steps. risual
If you PART 2 Ask pc C C C C C C C C C C C C C C C C C C C	This section should be administered by the treating clinician. The "Differentiate" section observation of the patient, either in person or via video telehealth. Thorough Interview ttient about: Problems with eating, drinking, or swallowing Sores in the mouth, teeth grinding or dental issues, mouth noises (for example, lip smace Problems speaking or involuntary grunting Difficulty gripping objects (for example, a zipper, buttons, silverware, cup, toothbrush) Change in handwriting or difficulty typing Foot tapping or fidgeting movement of the legs Difficulty walking or loss of balance Do they notice their big toe goes up in the air when they have their socks off? Do their legs move or twist, or do their knees knock when they sit? st patient to say: LaLaLaLaLaLaLaLaLaLaLaLa	stionnaire fo	r next steps. risual
If you	This section should be administered by the treating clinician. The "Differentiate" section observation of the patient, either in person or via video telehealth. Thorough Interview ttent about: Problems with eating, drinking, or swallowing Sores in the mouth, teeth grinding or dental issues, mouth noises (for example, lip smace Problems speaking or involuntary grunting Difficulty gripping objects (for example, a zipper, buttons, silverware, cup, toothbrush) Change in handwriting or difficulty typing Foot tapping or fidgeting movement of the legs Difficulty walking or loss of balance Do they notice their big toe goes up in the air when they have their socks off? Do their legs move or twist, or do their knees knock when they sit? st patient to say: LaLaLaLaLaLaLaLaLaLaLaLa KaKaKaKaKaKaKa	stionnaire fo	r next steps. risual

ASSESS for TD

Tardive Dyskinesia Screening Toolkit

ASSESS Introduction

Download this material to learn more about the prevalence of TD, the impact it can have, and guideline recommendations for appropriate diagnosis of the condition.

Introduction Assessing for Tardive Dyskinesia

It is estimated that 600,000 people in the US may have tardive dyskinesia (TD)¹²; prevalence rates are ~30% among people being treated with a first-generation antipsychotic (FGA), ~21% among people taking a second-generation antipsychotic (SGA) with unspecified FGA exposure, and ~7% in people taking SGAs with no prior FGA exposure.³

TD has important physical effects, including potential strength deficits and reduced range of motion, dental problems and difficulty eating, and trouble swallowing.⁴⁻³ In addition to these physical impairments, TD also negatively affects activities of daily living. For people who are already trying to manage an underlying mental illness, TD is an added burden and may negatively impact overall mental well-being.^{9,10}

Guideline Recommendations for TD Assessment

Screening is the first step toward TD diagnosis and treatment. Both the American Psychiatric Association (APA) treatment guidelines for schizophrenia and the modified Delphi consensus state that everyone with current or recent exposure to dopamine receptor blocking agents should be screened for TD.^{11,12} If unusual movements are reported or observed, the APA guideline calls for assessment with a structured instrument, such as the Abnormal Involuntary Movement Scale (AIMS).^{11,3}

For people considered "at risk" (ie, for those with exposure to antipsychotics or other dopamine receptor blocking agents), the APA treatment guideline requires differentiation between specific movement disorders: akathisia, dystonia, parkinsonism, and TD.¹¹ The APA guideline and the modified Delphi consensus both also recommend informal screening at every clinical visit.^{11/2} Once a person has screened positive for TD, they should receive a full evaluation based on diagnostic criteria in the Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition, Text Revision (DSM-5-TR) in order to receive an official diagnosis of TD.¹⁴ The diagnosis code for TD is G24.01.¹⁵

View the following page for recommendations on translating guidelines to a potential road map for treatment of TD.

Provider Voices³:

"Tardive dyskinesia is so much more than 'just' a movement disorder. It exacts a heavy price from the afflicted individual's life in terms of bio-psycho-social functioning. And despite functional impact being the rule and not the exception, we clinicians often miss out on the opportunity to go beyond the mere screening and diagnosis of the disorder-to evaluating its functional impact on the individual. After all, it is only after one takes a full measure of the functional impact of tardive dyskinesia that one can optimally treat a patient suffering from this condition."

[Psychiatrist]

"We finally have effective medications for the treatment of a once-feared side effect of medications. We should no longer ignore the elephant in the room. Instead, we should proactively recommend treatment with VMAT2 inhibitors to appropriate patients to aid in their overall recovery. We need not just treat a patient's underlying psychiatric diagnosis; instead, we need to treat the whole patient."

[Psychiatrist]

You Can Support the Accurate and Efficient Diagnosis of TD by:

Reviewing Education that can support your ability to differentiate TD from other involuntary movement disorders
 Reviewing Education to learn how to use the AIMS to assess the severity and progression of TD over time
 Leveraging the AIMS Tool with the people you care for who have been flagged for, or are at risk for, TD

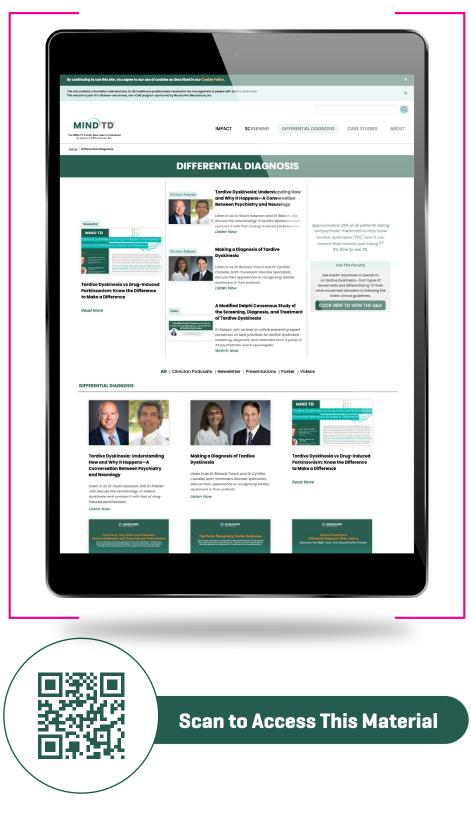
4. Treating people diagnosed with TD with guideline-directed vesicular monoamine transporter 2 (VMAT2) therapy





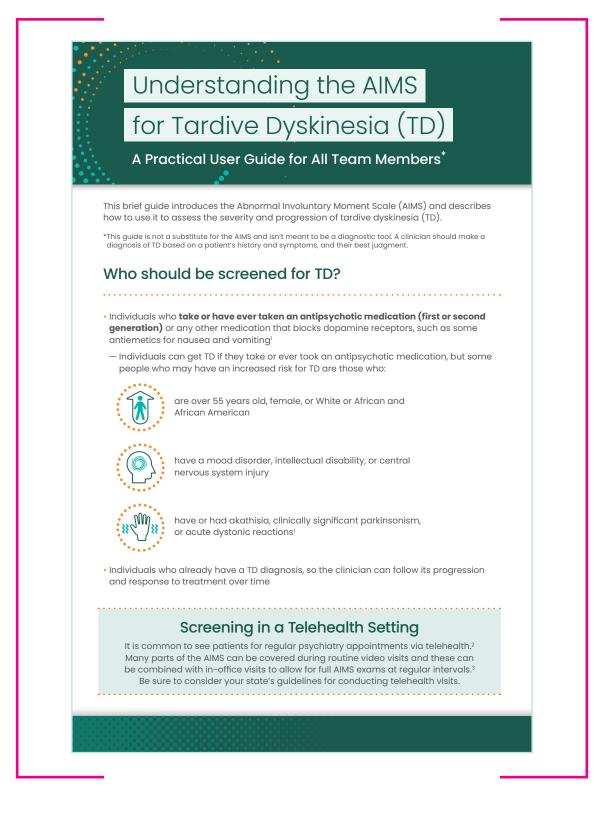
ASSESS Education

Click **here** or scan the QR code below to view resources that will support your ability to differentiate TD from other involuntary movement disorders.



ASSESS Education

Download this material to learn how to use the Abnormal Involuntary Movement Scale (AIMS) to assess the severity and progression of TD over time.



ASSESSMENT Tool

Download the AIMS to assess the severity and progression of TD over time.

C				•						
Score 0	Descriptors (For items 1-7)									
1	No dyskinesia Minimal or slight dyskinesia: Low amplitude, present during some but not most of the exam									
2	Milling of sight dysknesia, tow amplitude, present during some out not most of the exam Mild dyskinesia: Low amplitude and present during most of the exam (or moderate amplitude and present during some of the exam)									
3	Moderate dyskinesia: Moderate amplitude and present during most of the exam									
4	Severe dyskinesia: Maximal amplitude and present during most of the exam									
Facial	and Oral Movements	None	Minimal	Mild	Moderate	Severe				
Muscles of Facial Expression eg, movements of forehead, eyebrows, periorbital area, cheeks, include frowning, blinking, smiling, grimacing		0	1	2	3	4				
	and Perioral Area buckering, pouting, smacking	0	1	2	3	4				
3. Jaw eg, t	, piting, clenching, chewing, mouth opening, lateral movement	о	1	2	3	4				
 Tongue Rate only increase in movement both in and out of mouth, NOT inability to sustain movement 		0	1	2	3	4				
	nity Movements									
Incluspo	er (arms, wrists, hands, fingers) Jde choreic movements (ie, rapid, objectively purposeless, irregular, ntaneous), athetoid movements (ie, slow, irregular, complex, serpentine). NOT include tremor (ie, repetitive, regular, rhythmic)	o	1	2	3	4				
eg, l	er (legs, knees, ankles, toes) ateral knee movement, foot tapping, heel dropping, foot squirming, rsion and eversion of foot	0	1	2	3	4				
Trunk	Movements									
	k, shoulders, hips rocking, twisting, squirming, pelvic gyrations	o	1	2	3	4				
Globa	I Judgments	None	Minimal	Mild	Moderate	Severe				
8. Sev	erity of abnormal movements overall	0	1	2	3	4				
9. Inco	pacitation due to abnormal movements	0	1	2	3	4				
0=N	• ent's awareness of abnormal movements (rate only Patient's report) o awareness; 1=Aware, no distress; 2=Aware, mild distress; 3=Aware, derate distress; 4=Aware, severe distress	0	1	2	3	4				
Denta	Status									
11. Cur	rent problems with teeth and/or dentures	Yes No								

~

Neurocrine is committed to relieving patient suffering, supporting care teams, and reducing disease burden.

Thank you for playing a pivotal role in ensuring the vulnerable population suffering from TD get the diagnosis, treatment, and relief they need.



©2024 Neurocrine Biosciences, Inc. All Rights Reserved. CP-TD-US-1655 08/2024