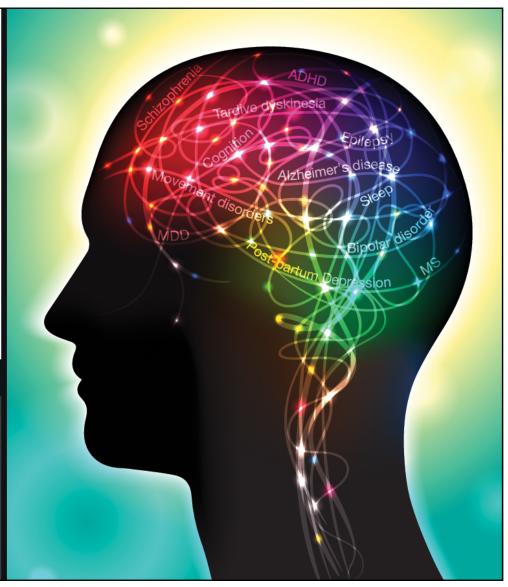




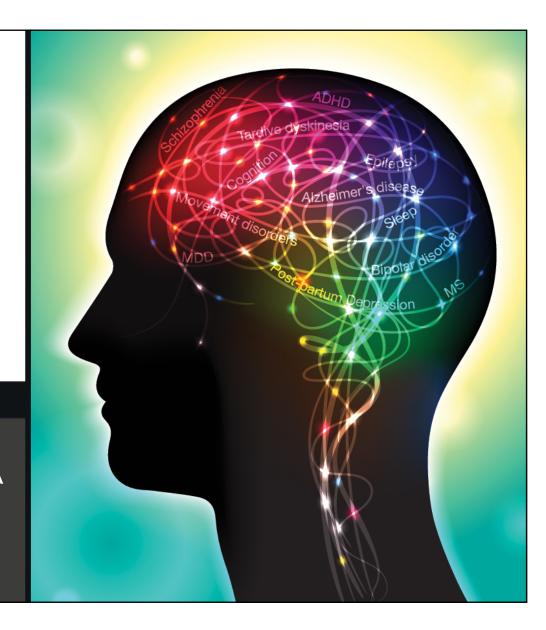
November 16 - 18, 2017 | Hotel Monteleone | New Orleans, LA

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Assessment and Diagnosis of Tardive Dyskinesia

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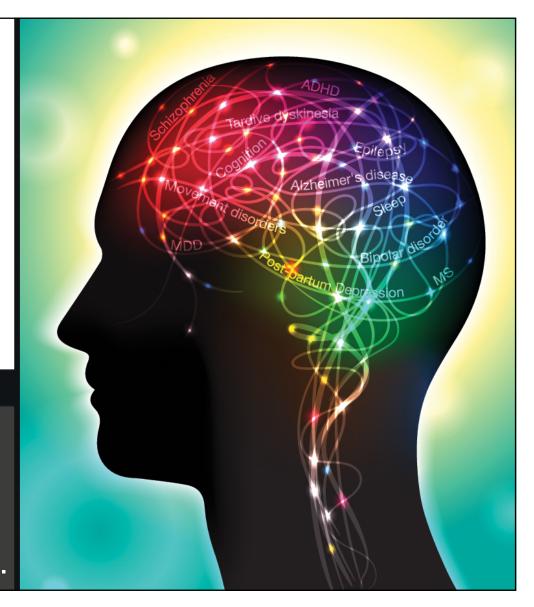
Stephen R. Marder, MD Disclosures



- Research/Grants: Neurocrine Biosciences, Inc.
- Advisory Board: Allergan; Lundbeck; Neurocrine Biosciences, Inc.; Newron Pharmaceuticals SPA; Otsuka America Pharmaceutical, Inc.; Takeda Pharmaceuticals U.S.A.; Teva Pharmaceuticals

Learning Objective

Integrate assessment scales to accurately identify and assess the severity of TD in at least 80% of patients on antipsychotics throughout the course of treatment.



Brief Clinical Assessment of Movement Disorders for Patients on Antipsychotic Medications

Side Effect and Examination Procedure

Akathisia

- Observe for restless movements
- Inquire about difficulty sitting still, restless feelings, and pacing

Rigidity and tremor

- Observe for spontaneous movements and tremor
- Examine for cogwheeling
- Observe arm swing and gait while patient is walking

Tardive movements

- Observe abnormal face and extremity movements while patient is sitting still with feet flat and again while patient is distracted with alternating thumb and finger tapping
- Observe truncal, pelvic, and arm/hand movements while patient is walking

Bratti IM, et al. AM J Psychiatry. 2007;164(11):1648-1654.

Abnormal Involuntary Movement Scale (AIMS)

This scale is available in the public domain and has not been modified. Final 9/2000. Access at:

https://dmh.mo.gov/docs/dd/forms/healthsafety/aims.doc

ABNORMAL INVOLUNTARY MOVEMENT SCALE (AIMS)

Public Health Service	NAME:
Alcohol, Drug Abuse, and Mental Health Administration	DATE:
National Institute of Mental Health	Prescribing Practitioner:

CODE: 0 = None

1 = Minimal, may be extreme normal

2 = MildComplete Examination Procedure (attachment d.) 3 = Moderate

INSTRUCTIONS:

before making				4	- Seve					
MOVEMENT RATINGS: Rate highest severity observed. Rate		RATER		RATER		RATER		RATER		
movements that occur upon activation one less than those observed										
spontaneously. Circle movement as well as code number that		Date		Date		Date		Date		
applies.										
Facial and	1.	Muscles of Facial Expression	0 1 2	2 3 4	0 1 3	2 3 4	0 1	2 3 4	0 1 2	2 3 4
Oral		e.g. movements of forehead, eyebrows								
Movements		periorbital area, cheeks, including frowning								
		blinking, smiling, grimacing								
	2.	Lips and Perioral Area	0 1 2	2 3 4	0 1 3	2 3 4	0 1	2 3 4	0 1 2	2 3 4
		e.g., puckering, pouting, smacking								
	3.	Jaw e.g. biting, clenching, chewing, mouth	0 1 2	2 3 4	0 1 3	2 3 4	0 1	2 3 4	0 1 2	2 3 4
		opening, lateral movement								
	4.	Tongue Rate only increases in movement								
		both in and out of mouth. NOT inability to	0 1 2	2 3 4	0 1 2	2 3 4	0 1	2 3 4	O 1	2 3 4
		sustain movement. Darting in and out of								
		mouth.								
	5.	Upper (arms, wrists,, hands, fingers)								
		Include choreic movements (i.e., rapid,								
Extremity		objectively purposeless, irregular,								
Movements		spontaneous) athetoid movements (i.e., slow,	0 1 2	2 3 4	0 1 3	2 3 4	0 1	2 3 4	0 1 2	2 3 4
		irregular, complex, serpentine). DO NOT								
6. I		INCLUDE TREMOR (i.e., repetitive,								
	regular, rhythmic)									
	6.	Lower (legs, knees, ankles, toes)								
		e.g., lateral knee movement, foot tapping,	0 1 2		0.1	2 3 4	0 1	2 3 4	0.1.	
		heel dropping, foot squirming, inversion and eversion of foot.	0 1 2	2 3 4	0 1 .	2 3 4	0 1	2 3 4	0 1 2	2 3 4
m 1	7.	Neck, shoulders, hips e.g., rocking,	0.1	2 3 4	0.1	2 3 4	0.1	2 3 4	0.1.1	2 3 4
Trunk Movements	/.		0 1	2 3 4	01.	2 3 4	0 1	2 3 4	0 1 2	2 3 4
Movements	0	twisting, squirming, pelvic gyrations	0.1.2	2 4	0.1.	2 2 4	Λ 1	2 2 4	0.1.	2.4
Global	8. 9.	Severity of abnormal movements overall	0 1 2			2 3 4		2 3 4	0 1 2	2 3 4
Judgments	9.	Incapacitation due to abnormal movements	0 1 2	2 3 4	0 1 .	2 3 4	0 1	2 3 4	0 1 2	2 3 4
Judgments	10									
	10.	Patient's awareness of abnormal								
		movements. Rate only patient's report No awareness 0	0		0		0		0	
		Aware, no distress 1	1		1		0		1	
		Aware, no distress 1 Aware, mild distress 2		2		2	1	2		2
		Aware, mild distress 2 Aware, moderate distress 3	3		3		3		2 3	
		Aware, severe distress 4		3 4		3		4		3 4
	11	Current problems with teeth and/or	-	4		4		-		4
Dental Status	11.	dentures	No	Yes	No	Yes	No	Yes	No	Yes
Dentai Status	-	uciitui es	No	Yes	No	Yes	No	Yes	No	Yes
	12	Are dentures usually worn?	INU	1 08	INO	1 08	1110	1 08	INU	1 68
	12.	Are uentures usuany worn:	No	Yes	No	Yes	No	Yes	No	Yes
	12	Edentia?	INO	res	INO	res	INO	res	INO	res
	13.	Euchua:	No	Yes	No	Yes	No	Yes	No	Yes
	14	D	INO	res	INO	res	INO	res	INO	res
	14.	Do movements disappear in sleep?	<u> </u>		1		1		l	

AIMS Instructions



- Ask patient whether there is anything in his/her mouth and if there is, to remove it
- Ask patient about the current condition of his/her teeth
 - Ask patient if he/she wears dentures
 - Do teeth or dentures bother patient now?
- Ask patient whether he/she notices any movements in mouth, face, hands, or feet
 - If yes, ask to describe and to what extent they currently bother patient or interfere with his/her activities
- Have patient sit in chair with hands on knees, legs slightly apart, and feet flat on floor
 - Look at the entire body for movements while the patient is in this position

Guy W. ECDEU Assessment Manual for Psychopharmacology. 1976.

AIMS Instructions



- Ask patient to sit with hands hanging unsupported
 - If male, between legs
 - If female and wearing a dress, hanging over knees
 - Observe hands and other body areas
- Ask patient to open mouth*
 - Observe tongue at rest within mouth
- Ask patient to protrude tongue*
 - Observe abnormalities of tongue movement
- Ask patient to tap thumb, with each finger, as rapidly as possible for 10-15 seconds
 - Separately with right hand, then with left hand
 - Observe facial and leg movements

*Do this twice., †Activated movements. Guy W. *ECDEU Assessment Manual for Psychopharmacology*. 1976.

AIMS Instructions



- Flex and extend patient's left and right arms, one at a time
 - Note any rigidity and rate on DOTES
- Ask patient to stand up
 - Observe in profile
 - Observe all body areas again, hips included
- Ask patient to extend both arms outstretched in front with palms down*
 - Observe trunk, legs, and mouth
- Have patient walk a few paces, turn, and walk back to chair*†

DOTES = dosage record and treatment emergent symptoms scale. *Activated movement, †Do this twice.

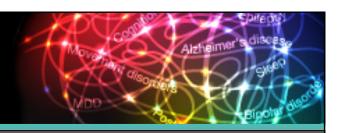
Guy W. ECDEU Assessment Manual for Psychopharmacology. 1976.

Call to Action



 Incorporate the AIMS scale into clinical practice to assess patients at risk for TD

Scoring The AIMS Examination



SCORING THE AIMS EXAMINATION

O = No Movements

1 = Minimal (EXTREME NORMAL)

2 = Mild

3 = Moderate

4 = Severe

Questions Answers

Don't forget to fill out your evaluations to collect your credit.

