





# Agitation Associated With Alzheimer's Dementia (AAD) in the Long-Term Care (LTC) Setting

An Introduction to the Agitation in Alzheimer's Screener for Caregivers  $(AASC^{TM})$ 

© 2024 Otsuka Pharmaceutical Development & Commercialization, Inc., Rockville, MD

Lundbeck, LLC.

April 2024 US.PSY.D.24.00011



This program is paid for by Otsuka Pharmaceutical Development & Commercialization, Inc. (OPDC) and Lundbeck, LLC.

Speakers are paid consultants for Otsuka Pharmaceutical Development & Commercialization, Inc.



## Objectives

Describe how agitation associated with Alzheimer's dementia (AAD) can manifest within the long-term care (LTC) setting and the burden that AAD can pose to both residents and caregivers.

Review current approaches to recognizing and documenting AAD in the LTC setting, as well as potential challenges faced by nursing home caregivers.

Discuss the Agitation in Alzheimer's Screener for Caregivers (AASC<sup>TM</sup>) and how it may be used to identify and document AAD.



### Alzheimer's Dementia Is a Highly Prevalent Neurodegenerative Disorder<sup>1</sup>

Estimated number of US adults aged ≥65 years living with Alzheimer's dementia:



2023 ~6.7 MILLION 2050 ~12.7 MILLION





In 2023, ~65% of people with Alzheimer's or other forms of dementia lived in the community, receiving more care from family members and other unpaid caregivers as their disease progressed

US, United States.

1. Alzheimer's Association 2023. *Alzheimers Dement*. 2023;19(4):1598-1695.



## Disease State Overview of Agitation Associated With Alzheimer's Dementia (AAD)

#### Agitation is one of the most common neuropsychiatric symptoms of Alzheimer's dementia

- Manifestations of Alzheimer's dementia are not limited to cognitive decline and functional impairment, and include a range of neuropsychiatric symptoms, such as anxiety, irritability, and agitation<sup>2–5</sup>
- Symptoms of agitation manifest as both non-aggressive and aggressive behaviors, such as<sup>6,7</sup>:

## **EXCESSIVE MOTOR ACTIVITY:**

Pacing, restlessness, repetitiveness, and hoarding



## PHYSICAL AGGRESSION:

Hitting, kicking, punching, biting, and throwing things



AAD, agitation associated with Alzheimer's dementia. LTC, long-term care.

- 1. Halpern R, et al. Int J Geriatr Psychiatry. 2019;34(3):420-431.
- Alzheimer's Association 2023. Alzheimers Dement. 2023;19(4):1598-1695.
- 3. Antonsdottir IM, et al. Expert Opin Pharmacother. 2015;16(11):1649-1656.
- 4. Anatchkova M, et al. Int Psychogeriatr. 2019;31(9):1305-1318.

## VERBAL AGGRESSION:

Screaming, using profanity, and asking repetitive questions



- Kales HC, et al. BMJ. 2015;350:h369.
- 6. Sano M, et al. Int Psychogeriatr. 2023;1-13.
- 7. Rabinowitz J, et al. Am J Geriatr Psychiatry. 2005;13(11):991-998.
- 8. Cloutier M, et al. Alzheimers Dement (NY). 2019;5:851-861.



is a common cause of placement in Long- Term Care (LTC)<sup>8</sup>





### AAD Worsens the Impact of an Already Devastating and Burdensome Disease for Patients<sup>1,2</sup>

#### Agitation\* in patients with Alzheimer's dementia been associated with:

















**Accelerated** disease progression **Functional** decline

Decreased quality of life

Greater comorbidities

Increased use of concomitant therapies

**Earlier** death

Increased risk of hospitalization/ institutionalization







**Fractures** 







Other NPS<sup>a</sup>

\*Versus no agitation.

<sup>a</sup>Includes depression, anxiety, delusion, and hallucinations.

AAD, agitation associated with Alzheimer's dementia. LTC, long-term care. NPS, neuropsychiatric

- Fillit H, et al. Int J Geriatr Psychiatry. 2021;36(12):1959-1969.
- Jones E. et al. J Alzheimers Dis. 2021:83(1):89-101.

- Halpern R, et al. Int J Geriatr Psychiatry. 2019;34(3):420-431.
- Koenig AM, et al. Curr Psychiatry Rep. 2016;18(1):3.
- Peters ME, et al. Am J Psychiatry. 2015;172(5):460-465.
- Scarmeas N, et al. Arch Neurol. 2007;64(12):1755-1761.
- Banerjee S, et al. J Neurol Neurosurg Psychiatry. 2006;77(2):146-148.



## Agitation in Patients With Alzheimer's Dementia Has Been Associated With High Caregiver Burden Which Increases With Severity<sup>1</sup>

AAD is a risk factor for burnout, reduced workability, and generally weaker health among caregivers<sup>2</sup>

Many professional caregiving themes parallel those of family caregiving,3 including caregiver outcomes4-10:



General health decline



Reduced quality of life



Depression



Anxiety



Embarrassment & guilt



Social isolation



Increased use of clinical services

AAD, agitation associated with Alzheimer's dementia.

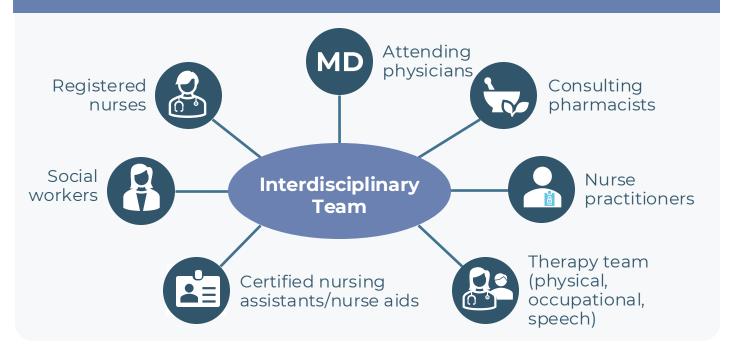
- 1. Schein J, et al. *J Alzheimers Dis.* 2022;88(2):663-677.
- 2. Palm R, et al. *J Alzheimers Dis.* 2018;66(4):1463-1470.
- 3. McCarty EF and Drebing C. J Nurses Staff Dev. 2002;18(5):250-257.
- 4. Kales HC, et al. *BMJ*. 2015;350:h369.
- 5. Mohamed S, et al. Am J Geriatr Psychiatry. 2010;18(10):917-927.

- 6. Isik AT, et al. Int J Geriatr Psychiatry. 2019;34(9):1326-1334.
- 7. Brodaty H and Hadzi-Pavlovic D. Aust N Z J Psychiatry. 1990;24(3):351-361.
- 8. Thomas P, et al. Int J Geriatr Psychiatry. 2006;21(1):50-56.
- 9. Patrick KS, et al. *Psychogeriatrics*. 2022;22(5):688-698.
- 10. Cohen-Mansfield J. J Psychiatr Res. 2008;43(1):64-69.

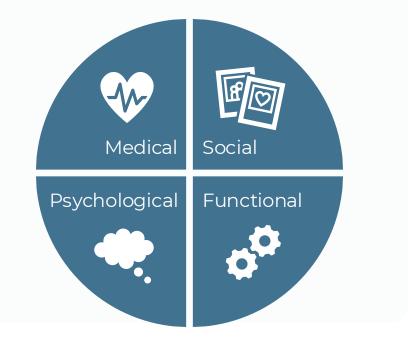


## The Goal of the Interdisciplinary Team Is to Provide Patient-Centered Care<sup>1</sup>

The interdisciplinary team varies by setting and facility, but can be comprised of the following care providers<sup>2,3</sup>:



The interdisciplinary team assesses, coordinates, and manages comprehensive health care for each resident's varying needs<sup>a</sup>:



<sup>a</sup>In accordance with federal/state regulations (eg, 42 CFR 483.5, 42 CFR 483.10 through 483.75; CMS State Operations Manual Appendix PP)<sup>4,5</sup>

CMS, Center for Medicare & Medicaid Services. LTC, long-term care.

- NEJM. NEJM Catalyst. "What Is Patient-Centered Care?" 2017. Available at: https://catalyst.nejm.org/doi/full/10.1056/CAT.17.0559.
- Philip AM and Soper MH. Interdisciplinary Care Teams for Medicare-Medicaid Enrollees: Considerations for States. 2016. Available at: https://www.chcs.org/resource/interdisciplinary-care-teams-for-medicaremedicaid-enrollees-considerations-for-states/
- State Operations Manual Appendix PP Guidance to Surveyors for Long Term Care. Centers for Medicare & Medicaid Services (CMS). Rev. 211. Available at: https://www.cms.gov/medicare/provider-enrollment-and certification/guidanceforlawsandregulations/downloads/appendix-pp-state-operations-manual.pdf.
- 4. Stefanacci RG and Cusak CL. Ann Longterm Care. 2016;24(4):17-20.
  - National Academies of Sciences, Engineering, and Medicine; Health and Medicine Division; Board on Health Care Services; Committee on the Quality of Care in Nursing Homes. The National Imperative to Improve Nursing Home Quality: Honoring Our Commitment to Residents, Families, and Staff. Washington (DC): National Academies Press (US); April 6, 2022.



## Current Approaches and Unmet Needs in Recognition of AAD

Caregivers are often first to experience and manage agitation behaviors and thus play a critical role in recognizing, assessing, and communicating agitation symptoms to HCPs<sup>1-4</sup>

#### Agitation behaviors are under-recognized, despite being among the earliest and most common NPS in Alzheimer's Dementia<sup>5</sup>



Rating scales that measure agitation are available, but thev<sup>3,6-10</sup>:

- Were not designed to screen for agitation or AAD
- Are often scored differently by caregivers and HCPs
- Are not widely or easily used in clinical practice

#### Examples include:

- CMAI (Cohen-Mansfield Agitation Inventory)<sup>7</sup>
- NPI (Neuropsychiatric Inventory)<sup>8</sup>
- IPA (International Psychogeriatric Association) definition of agitation in cognitive disorders<sup>6</sup>

#### Tailored tools that help caregivers better understand symptoms of AAD can help reassure caregivers and may also improve patient outcomes and reduce caregiver burden<sup>6,11,12</sup>

AAD, association associated with Alzheimer's dementia. HCP, healthcare provider. NPS, neuropsychiatric symptoms.

- Kales HC, et al. BMJ. 2015;350:h369.
- 2. Lindeza P, et al. BMJ Support Palliat Care. 2020; bmjspcare-2020- 6.
- 3. Stella F, et al. Int J Geriatr Psychiatry. 2015;30(12):1230-1237.
- 4. Alzheimer's Association 2023. Alzheimers Dement. 2023;19(4):1598-8. Cummings JL. J Neurol. 1997;48(5 Suppl 6):S10-6.
- Lanctôt KL, et al. Alzheimers Dement (N Y). 2017;3(3):440-449.
- Sano M, et al. Int Psychogeriatr. 2023;1-13.
- Cohen-Mansfield J. Instruction Manual for the Cohen-Mansfield Agitation Inventory (CMAI). The Research Institute of the Hebrew Home of Greater Washington; Rockville, Maryland: 1991.
- Rabinowitz J, et al. Am J Geriatr Psychiatry. 2005;13(11):991-998.
- 10. Sano M, et al. J Prev Alzheimers Dis. 2018;5(2):98-102.
- 11. Hoe J, et al. *BJPsych Open.* 2017;3(1):34-40.
  - 12. Rodriguez K, et al. *J Alzheimers Dis Rep.* 2021;5(1):433-442.



### The International Psychogeriatric Association (IPA) Definition of Agitation

#### IPA Criteria Offer a Solid Foundation for Recognition of Agitation in Cognitive Disorders<sup>1</sup>

#### The IPA definition of agitation in cognitive disorders includes four criteria:

- 1. The patient meets the criteria for cognitive impairment or dementia syndrome
- 2. The patient exhibit ≥1 agitation behavior(s) with emotional duress that is persistent or frequently recurrent for ≥2 weeks or the behavior represents a dramatic change from the patient's usual behavior\*
- 3. The behaviors are severe and associated with excess distress or produce disability beyond that due to cognitive impairment
- 4. The behaviors cannot be attributed to another psychiatric disorder, medical condition, including delirium, suboptimal care conditions, or the physiological effects of a substance

#### Agitation behaviors include:



#### **EXCESSIVE MOTOR ACTIVITY BEHAVIORS:**

- Pacing
- Rocking
- Gesturina
- Pointing fingers
- Restlessness
- Performing repetitious mannerisms



#### **VERBAL AGGRESSION BEHAVIORS:**

- Yelling
- Speaking in an excessively loud voice
- Using profanity
- Screaming
- Shouting



#### **PHYSICAL AGGRESSION BEHAVIORS:**

- Grabbing
  - Scratching Biting
- Shovina Pushina
- Throwing objects
- Resisting
  - Hitting self Hitting others • Slamming doors
- Kicking objects or people
- Tearing things
- Destroying property

\*In special circumstances, the ability to document the behaviors over 2 weeks may not be possible and other terms of persistence and severity may be needed to capture the syndrome beyond a single episode. AASC<sup>TM</sup>, Agitation in Alzheimer's Screener for Caregivers, IPA, International Psychogeriatric Association.

Sano M, et al. Int Psychogeriatr. 2023;1-13.



## Documenting Behavioral Symptoms in the Minimum Data Set (MDS)<sup>1</sup>

#### MDS 3.0 Item

#### MDS 3.0 Resident Assessment and Care Screening

#### E0200

Behavioral Symptom -Presence & Frequency Note presence of symptoms and their frequency

- A. Physical behavioral symptoms directed toward others (e.g., hitting, kicking, pushing, scratching, grabbing, abusing others sexually).
- B. Verbal behavioral symptoms directed toward others (e.g., threatening others, screaming at others, cursing at others).
- C. Other behavioral symptoms not directed toward others (e.g., physical symptoms such as hitting or scratching self, pacing, rummaging, public sexual acts, disrobing in public, throwing or smearing food or bodily wastes, or verbal/vocal symptoms like screaming, disruptive sounds).

#### E0500

Impact on Resident Did any of the identified symptoms(s):

- A. Put the resident at significant risk for physical illness or injury?
- B. Significantly interfere with the residents care?
- C. Significantly interfere with the resident's participation in activities or social interactions?

#### E0600

Impact on Others Did any of the identified symptoms(s):

- A. Put others at significant risk for physical injury?
- B. Significantly intrude on the privacy or activity of others?
- C. Significantly disrupt care or living environment?

#### E0800

Rejection of Care
- Presence &
Frequency

Did the resident reject evaluation or care (e.g., bloodwork, taking medications, ADL assistance) that is necessary to achieve the resident's goals for health and well-being?

MDS 3.0, Minimum Data Set - Version 3.0.

1. Centers for Medicare and Medicaid Services. MINIMUM DATA SET (MDS) - Version 3.0 Resident Assessment and Care Screening Nursing Home Comprehensive (NC) Item Set. Web. Accessed Feb 01, 2024. https://www.cms.gov/medicare/quality/nursing-home-improvement/resident-assessment-instrument-manual





simplified concepts,

options

questions, and response

 Allowed for easy and quick completion by caregivers



Assist clinicians in making a potential diagnosis of AAD

AASC™ tool

#### Initial **Expert Feedback** Caregiver feedback development Guided by the IPA definition Provided by clinical and Provided by patient caregivers patient representative during two rounds of semiof agitation in cognitive disorders structured interviews with experts Included items with

Used to inform early modifications to screener items

cognitive debriefing

Used to inform additional modifications to screener items

AAD, agitation associated with Alzheimer's dementia. AASC<sup>M</sup>, Agitation in Alzheimer's Screener for Caregivers. CMAI, Cohen-Mansfield Agitation Inventory. IPA, International Psychogeriatric Association.

Clevenger C, et al. One Minute to Recognition: The Agitation in Alzheimer's Screener for Caregivers (AASCTM). The Gerontological Society of America Annual Scientific Meeting; November 8-12, 2023; Tampa, FL.



### AASC™ Screening Tool Items¹

- Are you noticing any of the following that represent a change from the individual's usual or past behavior?
  - Repeating motions or behaviors (e.g., rocking, raising fist, pointing finger)
  - b. Pacing or restlessness (cannot be still)
  - c. Cursing/using profanity or lashing out verbally
  - d. Raising voice or yelling or screaming
  - e. Resisting assistance or care
  - f. Throwing or hitting or breaking things
  - g. Trying to hurt self or others (e.g., grabbing, kicking, hitting, biting)
- 2. Do any of these behaviors <u>negatively affect</u> the individual's relationships, activities, or willingness to receive care?

## AASC™ Agitation in Alzheimer's Screener for Caregivers

A person with Alzheimer's dementia may become easily upset, frustrated, or angry. These feelings may be associated with agitation, a common symptom of Alzheimer's.

The following questions ask about behaviors associated with agitation that you may have observed in the individual for whom you provide care.

Your answers to these questions can help you talk with your person's healthcare professional. Please select one response for each question.

Patient Name

1.	Are you noticing any of the following that represent a change from the i usual or past behavior?	ndividua	ıl's
		Yes	No
	a. Repeating motions or behaviors (e.g., rocking, raising fist, pointing finger)		
	b. Pacing or restlessness (cannot be still)		
	c. Cursing/using profanity or lashing out verbally		
	d. Raising voice or yelling or screaming		
	e. Resisting assistance or care		
	f. Throwing or hitting or breaking things		
	g. Trying to hurt self or others (e.g., grabbing, kicking, hitting, biting)		

Disclaimer: Otsuka Pharmaceutical Development & Commercialization funded and contributed to the development of this screening tool.

The AASC™ is a screening tool and is not a diagnostic tool.

2. Do any of these behaviors negatively affect the individual's

relationships, activities, or willingness to receive care?

Agitation criteria based on the International Psychogeriatric Association (IPA) definition (Sano et al., 2023).

References: 1. Clevenger C, et al. One Minute to Recognition: The Agitation in Alzheimer's Screener for Caregivers (AASC™). The Gerontological Society of America Annual Scientific Meeting; November 8-12, 2023; Tampa, FL. 2. Sano M, Cummings J, Auer S, et al. Int Psychogeriatr. 2023;1-13.

© 2023 Otsuka Pharmaceutical Development & Commercialization, Inc. All rights reserved.

Otsuka Medical Affairs

The AASC™ is available for download at: <a href="http://www.theaasc.com">http://www.theaasc.com</a>
AASC™. Aqitation in Alzheimer's Screener for Caregivers.

Clevenger C, et al. One Minute to Recognition: The Agitation in Alzheimer's Screener for Caregivers (AASCTM). The Gerontological Society of America Annual Scientific Meeting; November 8-12, 2023; Tampa, FL.







How can a tool like the AASC<sup>™</sup> best be utilized in the long-term care setting?





## Summary



Agitation is one of the most common neuropsychiatric symptoms of Alzheimer's dementia, and is a common cause of placement in a long-term care facility<sup>1,2</sup>



AAD is associated with substantial burden and long-term consequences, for both residents and caregivers<sup>3</sup>



Despite being among the earliest and most common symptoms of Alzheimer's dementia, agitation behaviors are largely unrecognized, worsening the negative impact on residents and caregivers<sup>4,5</sup>



In general, HCPs and caregivers do not discuss agitation behaviors until symptoms become untenable for the caregiver<sup>6,7</sup>



A new screening tool for AAD may facilitate early detection of agitation by caregivers and improve overall management of agitation in patients with Alzheimer's dementia<sup>8</sup>

AAD, agitation associated with Alzheimer's dementia HCP, healthcare provider

- 1. Halpern R, et al. *Int J Geriatr Psychiatry*. 2019;34(3):420-431.
- 2. Cloutier M, et al. Alzheimers Dement (NY). 2019;5:851-861.
- 3. Fillit H, et al. Int J Geriatr Psychiatry. 2021;36(12):1959-1969
- Lanctôt KL, et al. Alzheimers Dement (N Y). 2017;3(3):440-449.

- 5. Michael M. *Alzheimers Dement*. 2022;18(Suppl 11):e060656
- Richler LG, et al. Harv Rev Psychiatry. 2023;31(1):22-27.
- 7. Kales HC, et al. J Am Geriatr Soc. 2014;62(4):762-769.
- Clevenger C, et al. One Minute to Recognition: The Agitation in Alzheimer's Screener for Caregivers (AASC™). The Gerontological Society of America Annual Scientific Meeting; November 8-12, 2023; Tampa, FL.







## Closing







For more information or to request a more detailed live presentation on this topic from your local Medical Science Liaison, please visit www.PsychU.org/events

## www.PsychU.org



## Get Your Resources On The Go



Download the PsychU

App from Google Play or
from the Apple App Store!



Subscribe to The PsychU
Community Podcast on
the Google Podcasts app
or on the Apple Podcasts
app.

Connect with us on social media:







