

# Dementia Agitation: Causes, Symptoms & Treatment

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## Defining Agitated Behavior in the Context of Dementia

Agitated behavior in dementia (ABD) is recognized as a complex and highly distressing manifestation within the spectrum of Behavioral and Psychological Symptoms of Dementia (BPSDs). It is typically defined as excessive motor activity, verbal aggressiveness, or emotional distress that is inappropriate to the immediate context and often repetitive or non-purposeful. This definition encompasses a wide range of actions, from relatively benign behaviors such as pacing and restlessness, to more severe and dangerous actions including hitting, pushing, screaming, or persistent refusal of care. Crucially, ABD is not simply a reaction to a specific stimulus but often reflects an internal state of confusion, discomfort, or unmet need that the individual with cognitive impairment cannot articulate through conventional means. Therefore, understanding agitation requires moving beyond merely labeling the behavior as "disruptive" and instead viewing it as a critical form of communication regarding underlying physiological or environmental distress.

The distinction between general restlessness and clinical agitation is important for therapeutic intervention. While many individuals with dementia experience periods of anxiety or mild irritability, clinically significant agitation involves behaviors that jeopardize the safety of the patient or others, cause substantial distress, or significantly interfere with daily care activities. Standardized assessment tools, such as the Cohen-Mansfield Agitation Inventory (CMAI), often categorize these behaviors into three main domains: physically aggressive behaviors (e.g., hitting, kicking), physically non-aggressive behaviors (e.g., pacing, wandering, hoarding), and verbally aggressive behaviors (e.g., screaming, cursing, negative vocalizations). Recognizing these specific behavioral subtypes is essential, as the underlying cause and the most effective intervention strategy may vary significantly depending on the predominant manifestation observed in the individual.

Furthermore, it is vital to differentiate agitation from psychotic symptoms, such as hallucinations or delusions, although they frequently co-occur. Agitation refers primarily to the motor or emotional expression of distress, whereas psychosis involves disturbances in thought content or perception. The neurological basis of agitation is thought to involve damage to frontal-subcortical circuits, particularly those responsible for emotional regulation, impulse control, and executive function, which are severely impacted by neurodegenerative diseases like Alzheimer's disease and vascular dementia. This neurobiological vulnerability, combined with psychological factors such as fear, confusion, and loss of control, establishes agitation as a core challenge in the advanced stages of cognitive decline, demanding a person-centered and multidisciplinary approach to management.

## Prevalence and Clinical Significance

Agitated behavior represents one of the most persistent and debilitating challenges associated with dementia care, exhibiting extremely high prevalence rates across various care settings. Longitudinal studies consistently demonstrate that between 60% and 80% of individuals with

dementia will experience clinically significant episodes of agitation at some point during the course of their illness, with rates peaking during the moderate to severe stages of cognitive decline. In institutional settings, such as nursing homes and long-term care facilities, the prevalence often remains consistently high, reflecting the complexity of managing large populations with advanced cognitive impairment and co-morbid physical health issues. The sheer frequency of these behaviors underscores their status not as an unusual complication, but as an expected and integral component of the dementia syndrome, necessitating proactive planning and specialized staff training.

The clinical significance of uncontrolled agitation extends far beyond the immediate behavioral episode, profoundly affecting the quality of life for the individual and generating substantial burden on the healthcare system. For the person living with dementia, agitation is linked to increased risk of falls, injuries, malnutrition, and rapid functional decline, often due to resistance to essential care activities like bathing, feeding, or medication administration. The persistent state of distress and emotional dysregulation associated with agitation also contributes to increased pain perception and overall suffering, further diminishing their remaining cognitive and physical capacities. Effectively managing agitation is therefore not merely about maintaining order, but fundamentally about upholding the dignity and well-being of the patient.

Moreover, agitation is the single greatest predictor of caregiver burnout, distress, and the decision to transition an individual from home care to institutional care. Family caregivers often lack the specific training and emotional resilience required to safely and compassionately handle aggressive or resistant behaviors, leading to high levels of stress, depression, and physical exhaustion. Economically, agitation significantly increases healthcare utilization costs, primarily through repeated emergency room visits, hospitalizations for injury management, and the need for higher staffing ratios in long-term care settings. Addressing agitation effectively is thus a critical public health priority, serving to stabilize patients, reduce caregiver strain, and optimize resource allocation within geriatric mental health services.

## **Etiology and Contributing Factors**

The etiology of agitated behavior in dementia is multifactorial, rarely attributable to a single cause, and is best understood through the lens of a biopsychosocial model that considers the dynamic interaction between the individual's neurobiological deficits, their psychological state, and the surrounding environment. Neurochemically, agitation is hypothesized to involve dysregulation in several neurotransmitter systems, including reduced serotonergic activity (implicated in impulse control), altered dopaminergic function (related to motor activity and reward pathways), and changes in the cholinergic system (linked to attention and arousal). The physical damage caused by the neurodegenerative process, particularly the atrophy in the temporal and frontal lobes, compromises the brain's ability to filter stimuli, regulate emotions, and generate appropriate

responses, setting the stage for emotional lability and agitation.

A crucial framework for understanding the immediate triggers of agitation is the concept of the **unmet need**. Because individuals with dementia progressively lose the ability to clearly articulate their needs or discomforts, agitation often serves as a proxy communication. Common internal factors that precipitate agitation include acute medical conditions, which must always be ruled out first: pain (often musculoskeletal or dental), infection (urinary tract infections being highly prevalent), constipation, dehydration, and adverse effects or interactions of multiple medications (polypharmacy). Sensory deficits, such as uncorrected hearing or vision loss, can also contribute significantly, leading to confusion, misinterpretation of environmental cues, and subsequent fearful or aggressive reactions. A comprehensive assessment must therefore systematically screen for these physiological drivers before assuming the cause is purely psychological or environmental.

Psychological factors play a profound role, rooted in the individual's diminished sense of identity, security, and control. As cognitive function declines, the world becomes increasingly confusing and unpredictable, leading to high levels of anxiety and fear. Agitation can manifest as a protective mechanism or a response to perceived threat, particularly during necessary but intrusive care activities like dressing or bathing, which strip the individual of privacy and autonomy. Additionally, individuals may experience catastrophic reactions--intense emotional outbursts triggered by minor stressors when their coping reserves are depleted--which are a direct result of the brain's inability to process information and regulate emotion under pressure. Addressing these psychological needs through validation and empathetic communication is essential for prevention.

Finally, the immediate physical and social environment serves as a powerful determinant of agitated behavior. Factors such as overstimulation (excessive noise, bright lights, television), under-stimulation (boredom, lack of meaningful activity), rapid changes in routine, unfamiliar surroundings, or interactions with untrained or stressed staff members can act as potent triggers. The **social environment** is particularly critical; communication that is too rapid, condescending, or confrontational often escalates distress. Environmental interventions, such as reducing noise levels, providing natural lighting, and establishing consistent, predictable daily routines, are foundational components of non-pharmacological management aimed at creating a therapeutic and calming milieu that minimizes potential stressors.

## Common Manifestations and Behavioral Syndromes

Agitated behavior presents along a wide continuum, ranging from mild, chronic restlessness to acute, explosive aggression. These manifestations are broadly categorized to facilitate accurate identification and targeted intervention. **Physically aggressive behaviors**, such as hitting, kicking, pushing, scratching, or biting, represent the highest risk to caregivers and often necessitate immediate de-escalation strategies. These behaviors are frequently linked to specific task

performance (e.g., resistance during personal care) or reactions to perceived invasion of personal space. Conversely, **physically non-aggressive behaviors** are generally less threatening but highly problematic, encompassing actions like pacing (often goal-directed but unsuccessful), repetitive motor acts (tapping, rocking), rummaging, and wandering. Wandering is a particularly complex syndrome, sometimes driven by a search for familiarity, an attempt to fulfill a past role (e.g., going to work), or a response to internal restlessness.

**Verbal manifestations** of agitation include persistent screaming, yelling, repetitive questioning, cursing, or making loud, negative vocalizations. These behaviors are often exacerbated in situations where the individual feels ignored, unheard, or unable to communicate a crucial need. While distressing to staff and other residents, verbal agitation should be viewed as a desperate attempt to gain attention or express discomfort when linguistic capacity has failed. A specific pattern known as **shadowing**, where the person closely follows a caregiver, often expressing anxiety when separated, is another common manifestation that reflects a deep-seated need for security and continuous reassurance, highlighting the psychological dependence created by cognitive impairment.

Understanding the temporal patterns of agitation is also crucial for effective management. Many individuals exhibit **sundowning**, an increase in confusion, restlessness, and agitation that occurs late in the afternoon or early evening. Although the exact cause of sundowning is debated, it is hypothesized to involve fatigue, changes in circadian rhythms, reduced environmental stimulation, or shifts in staffing presence. Identifying these specific behavioral syndromes and their peak times allows caregivers to proactively adjust the environment, optimize lighting, and schedule therapeutic activities to preempt the onset of these challenging behaviors, thereby reducing the reliance on reactive interventions.

## Comprehensive Assessment Strategies

Effective management of agitated behavior hinges upon a rigorous and comprehensive assessment process, which must be systematic and multidimensional to identify underlying causes rather than merely documenting symptoms. The gold standard for assessment involves the systematic recording of the **ABC sequence**: the **A**ntecedent (what happened immediately before the behavior), the **B**ehavior (a detailed description of the action), and the **C**onsequence (what happened immediately after the behavior, including the staff or caregiver response). This functional analysis is critical because the consequence often inadvertently reinforces the behavior, and identifying the antecedent provides the clearest pathway to prevention.

The assessment must incorporate standardized psychometric tools to quantify the frequency, severity, and type of agitation, allowing for baseline measurement and tracking of treatment effectiveness. The **Cohen-Mansfield Agitation Inventory (CMAI)** is widely used, employing a 29-

item scale that rates the frequency of various aggressive and non-aggressive behaviors. Other tools, such as the Neuropsychiatric Inventory (NPI), assess agitation alongside other BPSDs. Beyond formalized scales, the assessment requires thorough review of the patient's medical history, current medications (checking for psychotropic load and potential drug-drug interactions), recent vital signs, and laboratory results to rule out acute medical issues. Any sudden onset of agitation must immediately trigger a search for pain, infection, or delirium, as these are highly treatable causes.

Crucially, the assessment must extend beyond the medical chart to incorporate the perspective of those who know the individual best--the family and consistent caregivers. Interviews should focus on the individual's life history, preferences, past routines, cultural background, and typical coping mechanisms. This **person-centered information** is vital for tailoring interventions, as a behavior deemed agitated (e.g., rearranging objects) might actually be a remnant of a lifelong coping strategy (e.g., obsessive tidiness). Furthermore, a thorough environmental audit should be conducted, evaluating noise levels, lighting, activity scheduling, and staff-to-patient ratios, to identify external triggers contributing to the observed distress.

The final stage of the assessment involves synthesizing all gathered data to generate a specific hypothesis regarding the function of the behavior. Is the agitation driven by chronic pain, boredom, fear of abandonment, or a need for sensory input? Once the function is hypothesized, a targeted, individualized behavioral care plan can be developed. This commitment to detailed, functional assessment ensures that interventions are based on understanding the individual's perspective and underlying needs, rather than simply suppressing the outward manifestation of distress.

## Non-Pharmacological Interventions (First-Line Treatment)

Non-pharmacological strategies constitute the primary, first-line treatment for agitated behavior in dementia, guided by the principles of **person-centered care**. The fundamental goal is not to eliminate the behavior entirely, but to understand its meaning and replace the distressed reaction with a more adaptive or comforting response. These interventions require patience, consistency, and highly specialized communication skills from caregivers. Key strategies involve environmental modification, structured activities, and therapeutic communication techniques aimed at validating the individual's emotional state.

Therapeutic communication techniques are paramount in de-escalating agitation. These include **validation therapy**, which acknowledges and validates the person's feelings and reality, even if factually incorrect, thereby reducing confrontation and distress. Redirection involves gently guiding the individual's attention away from the source of distress toward a preferred, enjoyable activity. Caregivers must utilize slow, clear, short sentences; maintain a calm, non-threatening posture; and avoid arguing or demanding compliance, as these actions invariably heighten anxiety. Maintaining

a consistent presence and providing simple, tangible comfort (e.g., a hand massage or a warm blanket) can significantly reduce feelings of insecurity that fuel agitation.

Structured, meaningful engagement is a powerful preventative measure against agitation driven by boredom or lack of purpose. Interventions should be tailored to the individual's preserved abilities and past interests. Examples include:

**Sensory Stimulation:** Utilizing music therapy (especially familiar music), aromatherapy, pet therapy, or therapeutic touch to evoke positive emotional memories and reduce anxiety.

**Activity Programming:** Implementing simple, repetitive tasks that mimic former work or home roles (e.g., folding laundry, sanding wood blocks, sorting items).

**Physical Exercise:** Encouraging walking or light exercise during the day to reduce motor restlessness and improve sleep patterns, which can mitigate sundowning.

These activities provide structure, reduce idle time, and reinforce a sense of competence and normalcy, which are essential for emotional well-being.

The implementation of non-pharmacological interventions requires meticulous planning and consistency. A behavioral care plan should be developed and rigorously followed by all staff members to ensure uniformity of response. This plan involves identifying a hierarchy of preferred interventions for specific triggers and tracking the effectiveness of each strategy. Staff training must emphasize proactive measures--anticipating situations likely to cause distress (e.g., meal times, shift changes) and intervening before agitation escalates--rather than relying solely on reactive de-escalation. By systematically addressing the underlying psychological and environmental needs, the frequency and intensity of agitated episodes can often be significantly reduced without recourse to chemical restraints.

## Pharmacological Management Considerations

Pharmacological intervention for agitated behavior in dementia is considered a second-line approach, reserved only for situations where non-pharmacological strategies have been exhausted and the behavior poses a significant, immediate risk of harm to the individual or others, or causes severe, intractable distress. The guiding principle is to use the lowest effective dose for the shortest possible duration, recognizing the high risk of adverse effects in the geriatric population. Due to the significant heterogeneity in dementia syndromes and individual patient responses, medication selection must be highly individualized and closely monitored.

The class of medications most commonly studied for agitation are the **atypical antipsychotics** (e.g., risperidone, olanzapine, aripiprazole). While these agents have demonstrated modest efficacy in reducing the severity of aggression, their use is heavily constrained by serious safety concerns. Regulatory bodies, including the U.S. Food and Drug Administration (FDA), have issued

black box warnings highlighting the increased risk of mortality, primarily due to cardiovascular events (stroke, heart failure) and infection, when atypical antipsychotics are used in elderly patients with dementia-related psychosis or agitation. Furthermore, side effects such as sedation, gait disturbance, and extrapyramidal symptoms increase the risk of falls and cognitive decline, potentially worsening the overall clinical picture. Therefore, the decision to initiate antipsychotic therapy requires a careful balancing of the therapeutic benefits against these substantial risks.

Other pharmacological classes may be considered depending on the specific profile of the patient. Selective Serotonin Reuptake Inhibitors (SSRIs) such as citalopram or sertraline are often preferred when agitation is believed to be secondary to underlying depression or anxiety, as they generally have a better safety profile than antipsychotics, although they may take several weeks to exert their full effect. Mood stabilizers, such as valproate or carbamazepine, have shown mixed results and are generally reserved for highly refractory cases, particularly those with underlying vascular dementia or bipolar features, due to their own profile of gastrointestinal and hematological risks. Benzodiazepines (e.g., lorazepam) are strongly discouraged for chronic agitation management because they frequently cause paradoxical disinhibition, increased confusion, sedation, and a high risk of falls, making them suitable only for acute, short-term crisis management when other options are unavailable.

## Staff Training and Environmental Modifications

The efficacy of any intervention for agitated behavior rests heavily on the skills and knowledge of the direct care staff and the suitability of the physical environment. Staff training is not a one-time event but an ongoing process focusing on the principles of person-centered care, therapeutic communication, and crisis de-escalation. Training programs must equip staff to recognize the earliest signs of distress, understand the functional meaning of the behavior, and implement individualized non-pharmacological strategies consistently. Emphasis must be placed on empathy, patience, and the ability to maintain a calm demeanor during confrontational situations, thereby preventing their own stress from escalating the patient's distress.

Environmental modifications are critical preventative measures, aiming to create a setting that is physically safe, cognitively accessible, and emotionally soothing. Key modifications include:

**Noise Reduction:** Minimizing extraneous noise (alarms, loud conversations, equipment) which often contributes to overstimulation and confusion.

**Lighting Optimization:** Ensuring adequate, non-glare lighting, particularly during the late afternoon and evening, to combat sundowning. Natural light exposure during the day is also vital for regulating circadian rhythms.

**Clarity and Familiarity:** Using clear signage, familiar objects, and personal photographs to orient the individual and reduce anxiety stemming from unfamiliarity.

**Safety Enhancements:** Removing potential hazards, securing cleaning supplies, and ensuring clear pathways to prevent injury during episodes of pacing or wandering.

Ultimately, the goal of optimizing the care setting is to minimize triggers while maximizing opportunities for meaningful engagement and comfort. A well-designed environment, coupled with highly skilled and empathetic staff who view agitation as a symptom of suffering rather than willful defiance, forms the most robust defense against the escalation of agitated behaviors. Investment in training and environmental design is therefore recognized as the most cost-effective and ethically sound long-term strategy for improving outcomes for individuals living with dementia.

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