





Managing Dementia-Related Behavioral Symptoms

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Common Behavioral and Psychological Symptoms of Dementia



- Delusions/Paranoid thoughts
- Hallucinations
- Agitation/Aggression
- Irritability/Mood Lability
- Disinhibition/Inappropriate behavior
- Anxiety
- Apathy/Indifference
- Depression

- Nighttime Behaviors
- Changes in Appetite/Eating
- Repetitive Behaviors & Questions
- Refusal to Bathe, Groom or Take Medications
- Wandering







- Medical issue?
 - Pain
 - Constipation or urinary retention
 - Nausea
 - Shortness of breath
 - Lack of sleep
 - Infection
 - Delirium
 - Anxiety or restlessness
- •New medication or change in dose?

- Related to specific activity?
 - Bathing
 - Taking medications
 - Others?
- Related to a specific person?
- Social or environmental stressor?
 - Time of day?
 - Change in caregiver
 - New living arrangement
 - Death of spouse/friend



Behavioral Interventions

- Treat identified acute causes
- Environmental modification
- Consistent, predictable routines
- Minimizing insufficient or excessive sensory or social stimulation
- Appropriate activities for level of cognitive impairment
- Realistic expectations
- Frequent reassurance, calm responses
- Addressing hearing loss
- Clear communication

- Simplifying instructions and tasks
- Distraction or redirection when behavioral symptoms occur
- Regular physical activity
- Massage, aromatherapy
- Music therapy
- Support reminiscence
- Humor
- Communication skills training
- Behavioral interventions BEFORE medications

Interventions to Improve Sleep

- Avoid/reduce caffeine
- Exercise/regular activity
- Regular bed/wake times; consider # of realistic hours person will sleep
- Sunlight/bright light exposure
- Limiting fluids before bed
- Prevent nighttime awakenings
- Avoid naps
- Avoid sedative-hypnotic medications

 increases risk of falls, delirium
- Melatonin, especially if sleep cycle reversal or acting out dreams



What are some effective approaches to managing dementia-related behavioral symptoms?



What are some **less** effective approaches to managing dementia-related behavioral symptoms?



How might you improve the approach to dementia-related behavioral symptoms in your nursing home?

UCLA ADC Program Caregiver Training Videos



Caregiver Education >

ACES Webinars

Caregiver Training Videos >

Aggressive Language and Behaviors

Agitation and Anxiety

Depression and Apathy

Hallucinations

Home Safety

Refusal to Bathe

Refusal to Take Medications

Repetitive Behaviors

Repetitive Phone Calls

Repetitive Questions

Sexually Inappropriate Behaviors

Sleep Disturbances

Sundowning

Wandering

Common Challenges: Alcohol

Abuse

Common Challenges: Driving

Common Challenges: Lack of

Eating

Common Challenges: Paranoid

Thoughts

TAKE ACTION WORKSHEET:

Use this worksheet to record steps taken to minimize the occurrence of key behaviors.

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RESPONSE AND REMOVAL OF TRIGGERS
☐ See the room through the person's eyes.
☐ Identify and remove triggers such as open curtains, shadows and mirrors.
☐ Use a night light in the bedroom.
□ Remain calm and reassuring. Do not yell or scold.
☐ Help person into bed and provide reassurance.
□ Other ideas:
□ Be flexible with bath time.
□ Use terms such as "spa" if the word "bath" causes anxiety.
□ Create soothing environment in the bathroom (e.g. soothing music).
□ Install hand rails and use a shower chair for safety.
□ Limit bathing to twice a week with sponge baths in between.
□ Let the person with dementia know what you are about to do.
□ Use towel to provide privacy.
□ Install a hand-held shower head for control of aim of water stream.
□ Other ideas:

http://dementia.uclahealth.org/caregiver-education-videos



This stuff is hard. Supporting staff

- Promote self-care
 - Relaxation techniques
 - breathing exercises, visualization, muscle relaxation, music
 - Stress management
 - Exercise, adequate sleep, healthy diet
 - Take care of your own medical care
- Improving skills
- Online Resources for staff education
 - http://www.alz.org (Alzheimer's Association)
 - www.OKDCN.org (Oklahoma Dementia Care Network)



How might you improve staff support at your nursing home?



Other Interventions — Prevention?

- Treat hearing loss
- Avoid medications that may impair cognition
 - sleeping pills, sedatives, anticholinergic drugs
- Positive social interactions, treat depression
- Avoid brain trauma (falls)
- Avoid alcohol
- Control vascular risk factors
 - High blood pressure, hyperlipidemia, diabetes, smoking, inactivity
- Cognitive stimulation/life-long learning

Medications for Dementia



- •There is no cure for dementia.
- •Medications for cognitive symptoms provide modest, temporary benefit for some.
- No medications are FDA approved for management of behavioral symptoms.
- Side effects are common.



Acetylcholinesterase inhibitors



- Donepezil/Aricept; Rivastigmine/Exelon; Galantamine
- Work by increasing neurotransmitter acetylcholine in neuronal synapse
- Modest improvement in cognition and function; many patients do not benefit especially in advanced disease
- Side effects are common and increase with higher dose
 - Gl upset (nausea, anorexia, weight loss, diarrhea, incontinence)
 - Bradycardia and syncope → falls
 - Vivid dreams/nightmares \rightarrow nighttime behaviors
- Consider discontinuation if no benefit after 3 months



- Medication
- Approved for moderate to severe Alzheimer's disease
- Thought to decrease excito-toxicity driven neurodegeneration
- Modest effect on cognition
- Synergistic effect with AchE Inhibitors
- No effect on behavioral symptoms
- Generally well tolerated, but can increase agitation, worsen hallucinations/delusions in some patients



Aducanumab—It's complicated.

- •Monoclonal antibody directed against amyloid beta (protein that accumulates in brain in Alzheimer's)
- Controversial FDA approval; Medicare coverage for clinical trial use only
- •Data is limited—consistent reduction in amyloid plaques on imaging but only small improvement in cognition in only 1 of 2 trials
- •Risk of brain edema and microhemorrhage may outweigh benefit (seen in 40% in trial)
- •For mild cognitive impairment/early dementia only on cognitive testing
- Requires amyloid-postitive PET scan or cerebral spine fluid findings of AD
- •Studies excluded patients with uncontrolled blood pressure, stroke, cardiovascular disease, anticoagulant use, vascular dementia
- •May need genetic testing; those with APOE ε4 gene have greater risk of brain bleeding/edema
- •Infusion every 4wks, when to stop is not clear, requires monitoring with brain MRI



Medications for Behavioral Symptoms

- No meds are FDA-approved for behavioral symptoms
- No meds have shown consistent benefit in clinical studies and all have potential harms
- Shared-decision making with family
 - Quality of life goals, risk/benefit considerations
- Target to symptom
 - Depression/anxiety → anti-depressant
 - Hostility/paranoia/delusions → anti-psychotic
- Lowest effective dose to reduce side effects
- Evaluate effect in 2-4 weeks
- Consider taper once stable with monitoring



Atypical Antipsychotics

- Reserve use for severe, debilitating symptoms or safety risks
- Most commonly used: risperidone, olanzapine, quetiapine
- FDA Black box warning (increased risk of CV events, mortality)
- ~1 to 3.5% absolute increased risk of death
- Side effects: sedation, orthostasis, falls/fractures, long QT, metabolic syndrome,
 Parkinson's symptoms
- Falls risk assessment when start/continue (2017 FDA warning)
- Attempt taper within 3-4 months (American Psychiatric Assoc)



Citalopram for Agitation

- •Randomized controlled trial of 186 patients with Alzheimer's Disease and frequent/severe agitation
- •Citalopram 30mg daily modestly reduced agitation and associated caregiver distress compared to placebo
- •Associated with prolonged QT (dose-dependent) → risk of fatal cardiac arrythmia
- Too few patients treated with 20mg to assess efficacy of lower dose
- Other SSRIS?
 - Limited evidence for treatment of neuropsychiatric symptoms of dementia other than depression



Dextromethorphan/Quinidine

- Single RCT of 220 patients with Alzheimer's Disease and agitation
- Modest reduction in agitation score (1.6 points on 12 point scale)
- •Increased falls (8.6% vs. 3.9%, NNH=21)
- High cost
- Approved for use in pseudobulbar affect
- •Should you consider Dextromethorphan/Quinidine for off-label use for patients with dementia agitation?
 - Evidence of effectiveness is very modest and risk for harm



In Summary

- Medications to treat symptoms and complications of dementia are still limited
- Management of behavioral symptoms and staff education and support are essential





