





What is the most troubling nighttime behavior your fai member had during the past month?"	nily
Cleaning room, emptying drawers and closet	
Wanting to fly to France in the middle of the night	
Thinking the building is on fire	
Urinary and bowel incontinence	
Slapping self and saying she wants to die	
Falling out of bed	
Looking for deceased spouse	
Wanting to "go home" and becoming agitated trying to leave	
Getting up and wandering from room to room	
Eating in bedroom, including non-food items (e.g., plants)	
Thinking she is being held captive by caregiver	
3ad dreams and hallucinating visitors	
Looking for her kids who left home a long time ago	















































Points to Remember #3

Many physical and environmental risk factors contribute to sleep disturbances in older adults and should be considered as part of any sleep assessment and plan, including in persons with dementia.

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Assessment Domain	Instrument
Global sleep	Pittsburgh Sleep Quality Index (PSQI)
Insomnia symptoms	Insomnia Severity Index (ISI)
Fatigue	Flinders Fatigue Scale (FFS)
Sleepiness	Epworth Sleepiness Scale (ESS)
Attitudes about sleep	Dysfunctional Beliefs About Sleep (DBAS) scale
Sleep-related behaviors	Sleep Hygiene Index (SHI)
Quality of life	SF-36 (includes pain subscale)
Psychological symptoms	Patient Health Questionnaire (PHQ-9) Generalized Anxiety Disorder scale (GAD-8) Pre-Sleep Arousal Scale (PSAS)
Undiagnosed primary sleep disorders	STOP-BANG Restless legs single question*
*When you try to relay unpleasant, restless fee m	t in the evening or sleep at night, do you ever have lings in your legs that can be relieved by walking or ovement? (Ferri R. et al. 2007)









ACP recommends that all adult patients receive cognitive behavioral therapy for insomnia (CBT-I) as the initial treatment for chronic insomnia disorder.

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Qaseem et al., Annals of Internal Medicine, 2016, 165:125-133

Cognitiv	Cognitive-Behavioral Treatment for Insomnia: A Multicomponent Approach				
Domain	Technique	Aim			
Behavioral components	Sleep hygiene	Promote habits and environments that help sleep			
	Stimulus control	Strengthen bed and bedroom as sleep stimuli			
	Sleep (bed) restriction	Restrict time in bed (including naps) to improve sleep depth and consolidation			
Cognitive components	Cognitive therapy	Address thoughts and beliefs that interfere with sleep			
	Relaxation training	Reduce arousal and decrease anxiety			
	Acceptance based	Decrease struggle to control sleep			
Circadian components	Circadian rhythm entrainment	Reset or reinforce biological rhythm (with light and/or exercise)			
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CBT-I C	CBT-I Components That Caregivers Can Help Implement				
Domain	Technique	Aim			
	Sleep hygiene	Promote habits and environments that help sleep			
Behavioral components	Sleep compression	Restrict time in bed (including naps) to improve sleep depth and consolidation			
	Functional analysis ("ABC's)	Identify "triggers" and ineffective responses to nocturnal awakenings			
Cognitive components	Relaxation training	Reduce arousal and decrease anxiety			
Circadian components	Circadian rhythm entrainment	Reset or reinforce biological rhythm (with light and/or exercise)			
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Technique	Aim
Stimulus control*	Strengthen bed and bedroom as sleep stimuli
Cognitive therapy	Address thoughts and beliefs that interfere with sleep
Acceptance based	Decrease struggle to control sleep
some overlap betwo control reco	een sleep hygiene and stimulus mmendations
	Technique Stimulus control* Cognitive therapy Acceptance based some overlap betwy control record

















Medical Causes

- Brain changes from aging or dementia
- Daytime napping
- Primary sleep disorders
- Medications
- Chronic pain
- Medical illness
- Hunger, thirst
- Incontinence
- Depression or anxiety
- Lack of daytime exercise

Interpersonal

- Roommate sleep habits
- Boredom or loneliness
- Caregiver habits

Historical

- Poor sleep habits
- Diet
- Preferred routines ("owl/lark")
- Past work schedules

Environmental

- Bedroom light exposure
- Noise
- Pets
- Temperature
- Uncomfortable bedding
- Season of year
- Visual exit cues
- Unfamiliar surroundings
- Sensory deprivation or overstimulation

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Multiple non-pharmacological strategies for improving sleep in persons with insomnia exist and have relatively few contraindications for their use.

All have been validated in older adult populations, although there is less evidence for PLWD.

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