Assessing and Managing Delirium in Older Adults with Dementia

By: Donna Fick, PhD, APRN, BC, FGSA, The Pennsylvania State University School of Nursing and Lorraine Mion, PhD, RN, FAAN, MetroHealth Medical Center

WHY: Delirium in a patient with pre-existing dementia is a common problem that may have life-threatening complications, especially if unrecognized and untreated. Acute changes in mental status in older adults with dementia are often attributed to the underlying dementia or “sundowning.” Delirium is thought to occur 4-5 times more often in a person with dementia. Delirium superimposed on dementia is less likely to be recognized and treated than is delirium without dementia. In patients with dementia, delirium can substantially worsen long-term outcomes, including prolonged hospitalization, further decline in cognitive and physical functioning, re-hospitalization, nursing home placement, and death.1-3 Delirium in older adults with dementia may be a sign of preventable and treatable medical problems or serious underlying illnesses such as a myocardial infarction, urinary tract infection, pneumonia, pain, or dehydration. Common medications causing delirium include diphenhydramine, benzodiazepines, anti-depressants, and anti-psychotics.4 An unrecognized delirium may interfere with recovery and rehabilitation after a hospitalization.2

BEST TOOLS: Delirium is difficult to assess in older adults with dementia and in hospitalized older adults due to overlapping features of delirium and dementia and the uncertainty of the patient’s baseline mental status. Most tools to assess delirium are less specific when assessing delirium in older adults with dementia. Use a standardized tool to measure delirium, if possible, such as the Confusion Assessment Method (CAM).5 (See Try This: Confusion Assessment Method). The CAM focuses on the KEY FEATURES OF DELIRIUM: Acute onset and fluctuating course, inattention, disorganized thinking, and altered level of consciousness. The Delirium Superimposed on Dementia Algorithm suggested on page two recommends a process for assessing for delirium for people with a pre-existing dementia.

TARGET POPULATION: The Delirium Superimposed on Dementia Algorithm should be used with any older adult with dementia who is hospitalized, at home, in assisted living, in the nursing home, or in the emergency room with a change in mental or physical functioning. All older adults with dementia who experience an acute change in mental or physical functioning and/or behavior changes, should be assessed for delirium superimposed on the dementia.

STRENGTHS AND LIMITATIONS: While the CAM is a useful tool, the Delirium Superimposed on Dementia Algorithm recognizes that the patient’s baseline mental status is a critical parameter for assessing and treating delirium. It recommends review of the patient’s medical record for indications of pre-existing dementia, and checking with the patient’s family, if any, as to whether the patient has a diagnosis of dementia or signs and symptoms of possible dementia. If a patient is admitted from an assisted living or long term care facility, the nurse should question the staff at the facility about the patient’s baseline mental and functional status. The algorithm can be used with patients with dementia who present to the hospital without previous medical evaluation, and/or family members who cannot describe the patient’s mental status pre-hospitalization, who are at increased risk for undetected delirium. The algorithm helps address ageism, a significant barrier to detecting the presence of delirium, wherein clinicians attribute further cognitive loss or lethargy in a person with dementia as an inevitable fact of life for older adults. (See Try This: Recognition of Dementia in Hospitalized Older Adults).

FOLLOW-UP: The algorithm includes assessment of mental status and physical functioning on a daily basis. Communication amongst interdisciplinary team members across health care settings is crucial to the detection and treatment of delirium in older adults, especially during times of acuity and transition.

REFERENCES:

Permission is hereby granted to reproduce, post, download, and/or distribute, this material in its entirety only for not-for-profit educational purposes only, provided that The Hartford Institute for Geriatric Nursing, College of Nursing, New York University is cited as the source. This material may be downloaded and/or distributed in electronic format, including PDA format. Available on the internet at www.hartfordign.org and/or www.ConsultGeriRN.org. E-mail notification of usage to: hartford.ign@nyu.edu.
**Assess for pre-hospital cognitive function:**
- Review the patient’s medical record for indications of pre-existing dementia and/or functional difficulties.
- Ask the patient’s family, if any, whether the patient has a diagnosis of dementia or signs and symptoms of possible dementia.
- If a patient is admitted from an assisted living or long term care facility, question the staff about the patient’s baseline mental and functional status.
- Complete a tool, such as the Family Questionnaire, to help assess pre-hospital cognitive and functional abilities (See *Try This*: Recognition of Dementia in Hospitalized Older Adults).

**Assess for and identify delirium promptly:**
- Acute onset of change in cognition (memory loss, disorientation, hallucination, delusions, and impaired function)
- Acute change in behaviors such as verbal and/or physical aggression, resistance to care, and wandering (See *Try This*: Wandering in the Hospitalized Older Adult). Educate the family about the nature of delirium, indicating this is not a “worsening of dementia” but an acute or emergent health issue. Use an instrument, such as the Confusion Assessment Method (CAM), to identify changes quickly (Inouye, 1990).
- Fluctuation of mental status
- Inattention
- Disorganized thinking
- Altered level of consciousness. Remember lethargy or hypo-alertness is NOT NORMAL in older adults with dementia (See *Try This*: Confusion Assessment Method)

**Assess for physiologic causes and risk factors for delirium:**
- Medication(s) (See *Try This*: Beers Criteria)
- Fecal impaction
- Urinary retention
- Infection (urine, lungs, skin)
- Hypoxia
- Dehydration
- Hypo/hyperglycemia
- Pain (See *Try This*: Assessing Pain)
- Immobility
- Sensory loss

**Prevent injury:**
- Room near nurse’s station (monitor for excessive noise and stimulation due to location)
- Motion sensor alarm
- Fall risk: low bed, hip pads, etc.
- Remove/camouflage tubes when possible
- Use of sitters

**Modify other risk factors:**
- Environmental stimuli
- Level of activity
- Nonpharmacologic treatments
- Sensory aides

**Follow-up assessment**
- Continue to assess cognition using CAM and observing behaviors
- Monitor hydration and nutrition
- Educate and counsel family regarding signs of re-occurrence and duration (2 weeks to 6 months) of delirium