

Profile of Wisconsin's Older Population

The Aging Population: Mental Illness, Substance Use Disorders and Dementia

Eric Grosso Demographer Bureau of Aging and Disability Resources Division of Public Health Wisconsin Department of Health Services January 18, 2023









Numeric and Percent Growth of Population Ages 60 and Older by Race and Ethnicity in Wisconsin, 2000-2020

Source: U.S. Census, Population Estimates Program, June 2021





Source: U.S. Census, Population Estimates Program, June 2021

1



Statewide=8%

7



Wisconsin, Ages 60 and Older as Share of Total Population

Source: U.S. Census, Wisconsin Department Demographic Services Center, and IPUMS-USA, University of Minnesota, www.ipums.org.









Source: Wisconsin Department of Administration, Demographic Services, 2010–2040 Population Projections, Vintage 2013



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Eric Grosso 608-266-7803 <u>ericr.grosso@dhs.wisconsin.gov</u>



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Art Walaszek, MD

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Wisconsin Alzheimer's Disease Research Center UNIVERSITY OF WISCONSIN SCHOOL OF MEDICINE AND PUBLIC HEALTH



Wisconsin Alzheimer's Institute

UNIVERSITY OF WISCONSIN SCHOOL OF MEDICINE AND PUBLIC HEALTH



Today's agenda



- Risk of dementia in people with chronic mental illness and substance use disorders
- When to suspect dementia in a person with chronic mental illness
- Distinguishing behavioral & psychological symptoms of dementia from symptoms of chronic mental illness
- How to respond to behavioral and psychological symptoms of dementia



The course of schizophrenia



- cardiovascular disease
- diabetes mellitus



Schizophrenia shortens life expectancy



Schizophrenia & risk of dementia 100

Dementia at age 66:

- 28% of people with schizophrenia (SZ)
- 1% of people
 without severe
 mental illness (SMI)





Bipolar disorder

- clinical presentation
 - manic or hypomanic episodes
 - depressive episodes
 - may include psychosis
 - recovery in between episodes
 - alcohol & other drug use
- cognitive impairment
 - bipolar euthymic > mild cognitive impairment
 - bipolar manic/depressed > frontotemporal dementia
- lithium
 - gold standard treatment for bipolar disorder
 - may be protective against dementia





Major depressive disorder

- clinical presentation
 - episodes of changes in mood, behavior & thoughts
 - for roughly half of people, will become a recurrent illness
 - increased risk of suicide (true for other psychiatric disorders, too)
 - alcohol & other drug use
- risk of dementia
 - overall risk roughly doubled
 - markedly higher risk with late-onset (65+) depression
 - higher risk of vascular dementia than Alzheimer's disease

Why does having a chronic mental illness increase the risk of dementia?

- tobacco, alcohol (more on next slide) & other drugs
- medical conditions such as diabetes and heart disease
- low physical activity
- poor access to healthy food
- risky behaviors
- poor access to medical care
- social determinants of health
- neuroinflammation
- decreased brain plasticity
- genetic risks
- lower cognitive reserve



Alcohol use in older adults

- NIAAA recommendation for people 65 and older:
 - no more than 3 drinks in a setting
 - no more than 7 drinks per week
- At-risk alcohol use (2+ drinks on a usual drinking day in past 30 days) or binge-drinking (5+ drinks on at least one day in past 30 days):
 - older men: 28%
 - older women: 11%



What is a standard drink?

12 fl oz of regular beer



5 fl oz of

1.5 fl oz shot of distilled spirits (gin, rum, tequila, vodka, whiskey, etc.)



about 5% alcohol



alcohol



about 12% alcohol



about 40% alcohol



risk of dementia

Hazard ratio 4.0 2.0 1.0 0.5 0 10 20 60 30 40 50 Alcohol units/week

70

Age 60

8.0

6.0

Risk of dementia increases with use > 14 drinks per week



To sum up ...

People with chronic mental illness and/or alcohol use disorder have a higher risk of developing dementia.



- difficulty remembering new information or recent events
- repetitive conversation or word-finding problems
- not recognizing familiar people
- change from baseline cognition
- change in personality or behavior
- functional problems:
 - gets lost driving
 - difficulty with money management
 - less able to take care of self

Definition of dementia (major neurocognitive disorder)

- syndrome of acquired, persistent decline in several realms of intellectual ability:
 - problems with memory
 - problems with language
 - visuospatial problems
 - decreased problem-solving, abstraction and other executive functions
 - reduced attention
 - decreased ability to recognize faces, objects, etc.
 - decreased ability to perform complex tasks
- plus functional impairment



Causes of dementia



Challenges in diagnosing dementia in people with chronic mental illness

- usual cognitive screening tools may not be as useful
- may have cognitive impairment at baseline
- baseline cognition/functioning may not be known
- poor access to medical care
- polypharmacy may contribute to cognitive impairment




Medication review

- review all medications, including over-the-counter medications and complementary & alternative medicine treatments
- older adults more prone to side effects of medications
- specific medications of concern:
 - antipsychotics: in younger people, associated with brain atrophy; unclear if associated with increased risk of dementia; greater risk of extrapyramidal symptoms and tardive dyskinesia
 - benzodiazepines: conflicting evidence about risk of dementia; do cause reversible cognitive impairment
 - anticholinergic medications: can cause reversible cognitive impairment in people with schizophrenia ≥ 50 years old
 - valproic acid: in people with dementia, may increase the rate of shrinkage of the brain



The Beers List

- Potentially inappropriate
 - tricyclic antidepressants
 - paroxetine
 - antipsychotics
 - benzodiazepines
 - z-drugs
 - other medications with anticholinergic effects

- Use with caution
 - antipsychotics
 - SSRIs
 - SNRIs
 - mirtazapine
 - tricyclic antidepressants
- Drug-drug interactions
 - lithium



What to do about psychotropic medications

- consult with healthcare professional
- consider reducing dose of or stopping:
 - anticholinergic medications
 - benzodiazepines
 - valproate
 - antipsychotics
 - lithium (if kidney function has declined and lithium levels are high)
- for behavioral and psychological symptoms of dementia:
 - add new medication only if there is imminent danger or severe distress



To sum up ...

In older adults with chronic mental illness, changes in behavior or functioning should lead to an evaluation for dementia.

Behavioral & psychological symptoms of dementia (BPSD)

- About 90% of people with dementia will experience BPSD sometime over the course of their illness.
- BPSD can be distressing to persons living with dementia (PLWD) and their caregivers, can affect PLWDs' ability to live independently, and can be dangerous.
- Since people with chronic mental illness are at higher risk of dementia, there is a good chance they will develop symptoms that could either be BPSD or a recurrence of pre-existing mental illness.



Symptom	Prevalence
apathy	49%
depression	42%
aggression	40%
sleep disorder	39%
anxiety	39%
irritability	36%
appetite disorder	34%
aberrant motor behavior	32%
delusions	31%
disinhibition	17%
hallucinations	16%
euphoria	7%

Possible indicators of BPSD

- new symptom
- symptom significantly different (e.g., change in hallucinations)
- new medical problem (e.g, stroke)
- medication recently added or changed
- specific symptoms that would suggest BPSD:
 - vivid visual hallucinations -> Lewy body disease
 - Lilliputian hallucinations -> Lewy body disease
 - apathy -> Alzheimer's disease, vascular dementia, frontotemporal dementia
 - delusion that one's home is not one's own -> Alzheimer's disease
 - delusion of infidelity -> Alzheimer's disease, Lewy body disease
 - presence delusion -> Lewy body disease
 - pathological laughing & crying -> any cause of dementia
 - change in personality -> any cause of dementia
- specific symptoms that are probably not BPSD:
 - suicidal ideation



Assessing BPSD

- characteristics of BPSD: timing, severity, precipitants, consequences, history
- review medication list
- consider medical causes: infection, electrolyte disturbance, stroke, head injury



To sum up ...

There may be some clues to help determine if symptoms are due to pre-existing mental illness or BPSD.



How to address **BPSD**

- treat underlying medical causes
- discontinue offending medications & substances
- support & educate caregivers & other family members
- develop a psychological, behavioral & environmental management plan
- avoid adding new medications, unless there is risk of harm to self or others
- if a medication is added, regularly monitor outcomes & attempt discontinuation
- ensure that PLWDs & caregivers are in a safe environment

Tips for communicating with primary care providers & other healthcare professionals

- Describe the situation concisely
 - e.g., "I believe that Mrs. X is developing dementia. Her memory is much worse than it used to be. She's forgetting to her medications. Her blood pressure has been higher. She's fallen a few times and hit her head."
- Express your concern
 - e.g., "I'm worried that she may hurt herself accidentally because she's no longer able to care for herself."
- Assert what you think your client needs
 - e.g., "Could we schedule an appointment with you for an exam and any tests you think are necessary?"
- Reinforce a positive outcome
 - e.g., "I really appreciate your taking my concerns seriously."

Practicing person-centered care

- Acknowledge and accept the experience of the person living with dementia.
- Take into consideration their prior life, which may provide clues about current behavior and about effective approaches to care.
- Identify past and current hobbies and interests.
- Take their report of events, feelings, and thoughts seriously.

Communicating effectively with a person living with dementia (PLWD)

- Don't try to reason or convince. Their ability to use logic may not be working properly.
- Keep your questions, responses and instructions simple. Break down instructions into one or two steps at a time.
- Avoid open-ended questions. Offer two choices – and you may have to help them with the choice.
- Speak more slowly. Speak in simple and direct language.

- Give the PLWD enough time and opportunity to express themselves.
- Use calm, positive statements. Be reassuring and encouraging. Celebrate small successes. Express your gratitude.
- Avoid negative words, tone, and facial expressions. Don't ask the PLWD to "try harder." Don't tell them that they are wrong.
- Consider using gestures, pictures, written words or verbal cues.



Changing the environment to support the person living with dementia

- The environment should feel comfortable and familiar

 like a home, rather than institutional.
- Ensure that each PLWD has a private space in which they can feel safe.
- Ensure sufficient lighting.
- Place cues to help PLWDs find their way around the residence.

- Provide easy, safe and secure access to the outdoors.
- Reduce noise and clutter, for example, by eliminating nonemergency overhead paging systems or televisions.
- Create activity areas with recreational opportunities.
- Create low-stimulation areas where a PLWD can rest or take a break.



Promoting a regular daily routine

- Promote regularity of daily rhythms, including when the PLWD wakes up, gets medications, eats meals, participates in activities, and goes to bed.
- Expose PLWDs to as much daylight (or bright light) during the daytime as possible.
- Encourage physical activities. Promote contacts with other people. Support healthy eating.

- Encourage the PLWD to make his or her own choices in activities and to be as independent as possible with regard to activities of daily living.
- Schedule activities that the PLWD will find meaningful, pleasant, and doable.
- Assign staff to work consistently with the PLWD to promote a sense of safety and familiarity.
- Ensure that PLWDs, especially those who pace or wander, have adequate hydration and nutrition.



The DICE approach

Describe: caregiver describes problematic behavior: context, environment, patient perspective, degree of distress

Investigate: provider investigates possible causes: meds, pain, medical conditions, psychiatric comorbidity, sleep, sensory changes, loss of control, boredom

Create: caregiver and team collaborate to create and implement treatment plan: respond to physical problems, strategize behavioral interventions

Evaluate: provider evaluates whether interventions have been implemented, and have been safe and effective





To sum up ...

Some of the safest and most effective ways to address BPSD include communicating effectively, changing the environment and promoting a regular daily routine.



Your questions?

