

Dementia-related behaviors:

**Where do they
come from? Can
we prevent
them?**



Disclosures – Soo Borson MD

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- There are no conflicts of interest pertinent to this presentation.
- Material in this presentation reflects the individual views of the presenter.

Learning Objectives:

- **Learn why behavior changes in dementia.**
- **Use a simple framework to help you understand what's happening.**
- **Identify three ways to reduce the risk of behavioral crises.**

It starts with the brain: the most complex known object in the universe
-EO Wilson



Dementia = Brain Failure

- ❖ Neurons shrink and have trouble talking to each other
- ❖ Control processes weaken - too much and too little activity
- ❖ Different dementia types affect the brain map differently

...What was the person like before?

_ Costa and McCrae, Saucier and Ostendorf

- **Neurotic:** irritable, insecure, emotionally reactive
- **Extroverted:** sociable, unrestrained, assertive, adventurous
- **Open to new experiences:** intellectual, imaginative, creative, perceptive
- **Agreeable:** warm, affectionate, gentle, generous, modest, humble
- **Conscientious:** orderly, decisive, consistent, reliable, industrious

- the "Big 5" personality traits and some of their common manifestations

And unhealed life experiences

- **Adverse Childhood Experiences (ACES)**
- **Psychological trauma at any age**
- **Long-term mental, emotional, and psychological disorders**

These contribute to many chronic medical conditions.

They influence behavior in dementia – and may increase vulnerability to developing dementia through chronic stress biology.

What are Adverse Childhood Experiences (ACEs)?

- **Abuse – mistreatment (physical, mental, political, emotional, sexual)**
- **Neglect – starvation (physical, emotional, political, mental, relational)**
- **Witnessed aggression/violence at home, in the community, in war**

Why talk about ACEs here?

- **Often invisible but powerful causes of challenging behavior in dementia**

And still more causes...

- **Pain – acute, chronic, or both**
- **Physical mobility limitations**
- **Inadequate sleep, food, fluids**
- **Acute infection, illness, injury**
- **Relationship factors**
 - **Caregiver communication – e.g. ‘elder speak’ (baby talk with older adults)**
 - **Caregiver fatigue, negative emotions, unmet support needs, insufficient joy**

Meet Miriam

- **83 years old when I met her, long-term resident of a skilled nursing community**
 - **Widowed in her 50's, mother of a middle-aged daughter – no other family**
 - **Trained as a lawyer in Russia**
 - **Extensive history of trauma exposure**
 - **Young teenager in WW I**
 - **Young adult during Russian Revolution**
 - **Holocaust refugee – WW II**
 - **Worked as refugee/immigrant advocate after arriving in US**

The problem

- **Screams racist epithets, pushes, fights nursing interventions – won't allow dressing changes, especially at night**
- **Daughter at wits' end**
- **Staff avoid her (bare essentials)**
- **“Most hated patient in the nursing home”**

What we're aiming for

“No-Crisis
Care”





-
- **Assess systematically – see what's obvious, search for what isn't**
 - **Accept what can't be changed**
 - **Look for what *can* change**
 - **Consider roles – mine, yours, others'**

Miriam's Difficulties – One by One



- **Cognition:** moderate dementia – mainly vascular + some Alzheimer/?Lewy body
- **Emotional/behavioral status:** PTSD unmasked by dementia + painful leg ulcers (how?), chronic anxiety, depressed mood
- **General medical and functional status:** severe generalized ischemic vascular disease; bedbound; immobilized by strokes; *intense pain with leg dressing changes*
- **Care partners:** Daughter and NH staff stressed, frustrated, angry, afraid
- **Health related social needs:** chronic loneliness; no financial strain
- **Health care framework:** strict nursing assignments and schedules, management and nurse leaders at end of rope, willing to try anything

Behavioral Mitigation + Problem Prevention: Stress Management for Everyone is the Key



<https://www.acesaware.org/>

Thank you – keep talking!

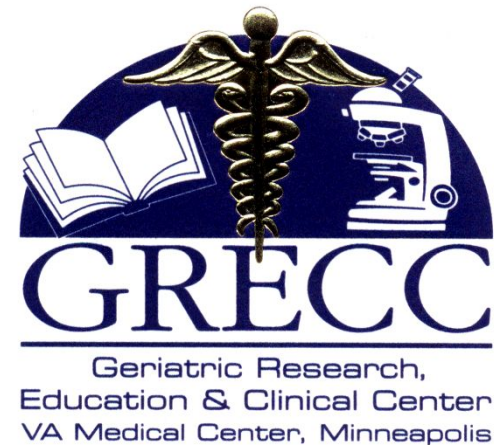
NYUBOLDCenter@nyulangone.org

<http://bolddementiadetection.org/resources>

Medication Management of BPSD

Jamie Starks, MD

6/4/22



Disclosures

- No relevant financial or non-financial relationships to disclose
- Off-label use of medications will be briefly discussed (because there are no FDA-approved medications for BPSD*)

*BPSD: Behavioral and psychiatric symptoms of dementia

Learning Objectives

Attendees will be able to:

- List risks associated with medications used for behavioral and psychiatric symptoms of dementia (BPSD)
- Describe the role of medications for treatment of BPSD
- Identify indications for pharmacologic interventions for BPSD

Case

- 88 y/o retired high school shop teacher with Alzheimer's disease dementia and multiple recent admissions for behavioral concerns
 - 8/14-8/17:
 - Admitted from home due to disruptive behaviors in the neighborhood and "failure to thrive"
 - Discharged back home with family to provide 24/7 supervision
 - 8/17-8/23:
 - Readmitted a 3 hours later after getting into an altercation with a neighbor
 - Discharged to memory care ALF
 - 9/5:
 - Readmitted from ALF due to aggressive behaviors towards staff

Psychotropic Meds on Admission:

- Olanzapine (antipsychotic)
- Melatonin

Case

- Behaviors:
 - Irritability, labile mood, intermittent tearfulness
 - Verbal and physical aggression towards staff
 - Exit-seeking
 - Paranoid delusions
 - Anxious perseveration
- Over the next 4 months, behaviors worsened despite multiple medication trials:
 - Escitalopram (antidepressant)
 - Valproate (mood stabilizer)
 - Risperidone (antipsychotic)
 - Haloperidol (antipsychotic)
 - Lorazepam (benzodiazepine)
 - Trazodone (antidepressant/anxiolytic)

To be continued...

SHARP

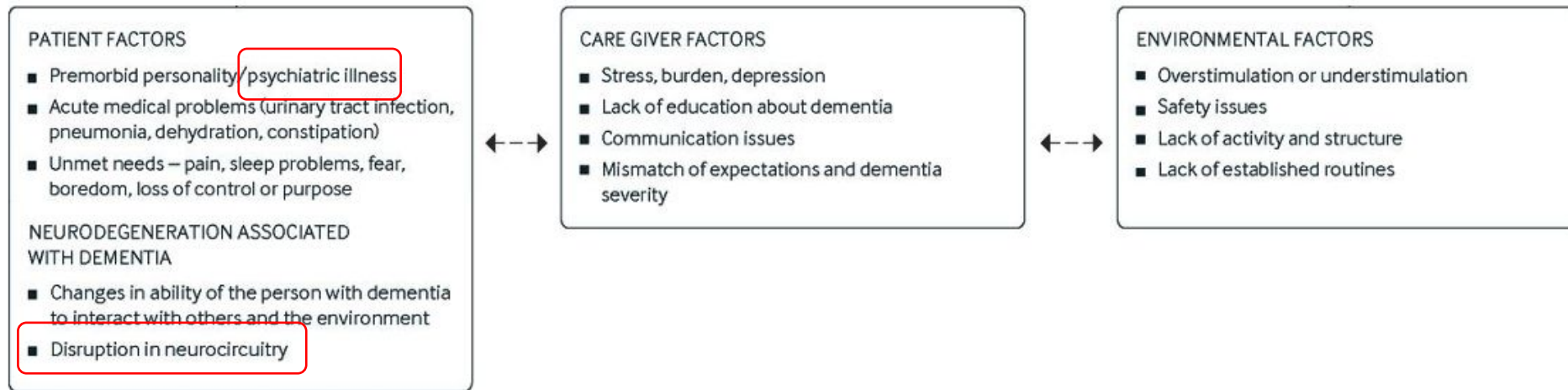
Navigator

Model No. 2000



Causes of BPSD

- Can be categorized into factors relating to:
 1. Patient
 2. Caregiver
 3. Environment



BPSD Causes: Patient Factors

- Neurocircuitry disruption
 - Regional neurodegeneration
 - Neurochemical alterations associated with neurodegeneration
 - Dopamine □ Delusions/hallucinations
 - Serotonin □ Depression, anxiety
 - Sleep/wake disruption
- Psychiatric comorbidities
 - Increased incidence in neurodegenerative disorders
 - Symptoms may be atypical

Medications for BPSD

- Expectation:



Medications for BPSD

- Reality:



BPSD Management is Challenging!

- Complex causes
- Lots of guidelines about what NOT to do, not as much about what TO do
 - **No** FDA-approved medications
- Lack of good evidence to guide treatment



Non-Pharmacologic vs Pharmacologic Treatments

- Most guidelines & experts recommend non-pharmacologic treatments as first-line interventions
 - At least as effective than medications
 - Behavioral meds have significant risks & adverse side effects
- Challenges to non-pharmacologic interventions:
 - Often more time-consuming and more work to implement
 - Lack of provider education/training
 - Methods are often counterintuitive and contrary to traditional nursing training
 - Perceived lack of efficacy
 - Results often less immediate

Pharmacologic Treatments

- No FDA-approved medications for BPSD
- 2020 Annals of Internal Medicine systematic review & meta-analysis by Howard Fink, et al:

“Current data do not provide clear guidance on whether any prescription drugs improve BPSD out-comes in patients with clinical Alzheimer’s type dementia, let alone whether benefits outweigh harms, overall or in any patient sub-groups.”

Table 3. CATD Drug Treatment Efficacy for BPSD From Trials of at Least 2 Weeks' Duration and With Low or Medium Risk of Bias

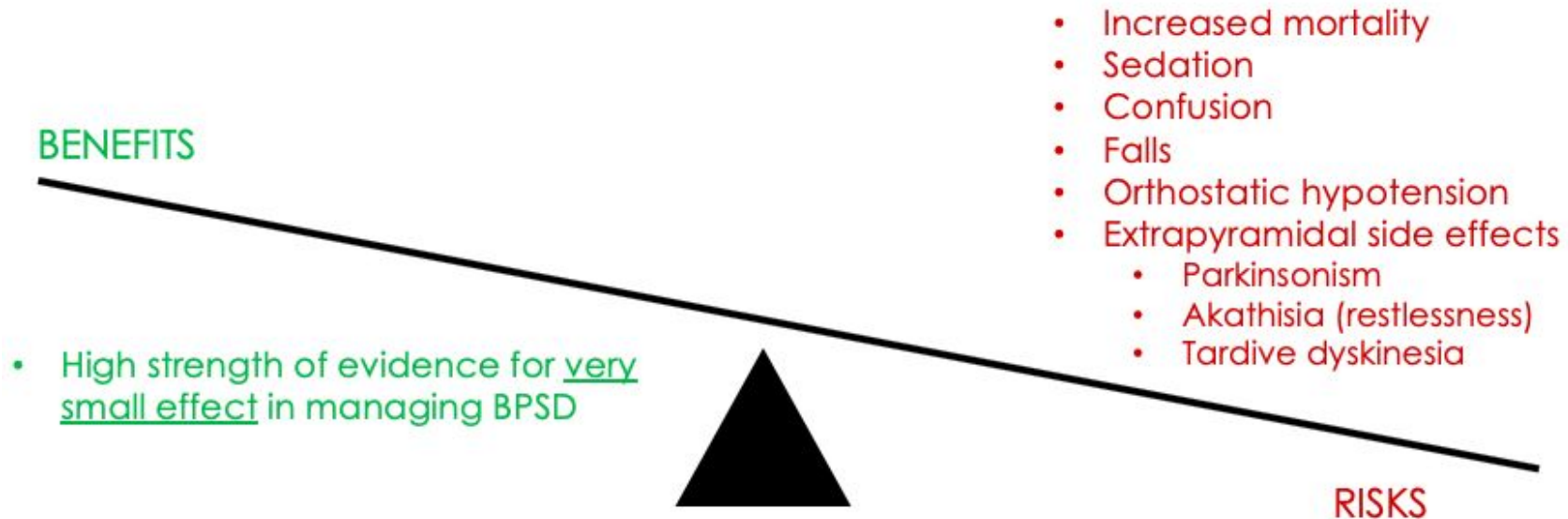
Test	Change in Agitation or Aggression*		Likelihood of Improved Agitation or Aggression†		Change in Psychosis‡		Likelihood of Improved Psychosis§	
	Trials (Patients)	Direction (SOE) Median SMD (Range of Medians)¶	Trials (Patients)	Direction (SOE) Median ARD (Range of Medians)	Trials (Patients)	Direction (SOE) Median SMD (Range of Medians)¶	Trials (Patients)	Direction (SOE) Median ARD (Range of Medians)
Prescription drugs vs. placebo**								
Antipsychotics	3 trials (n = 283)	Insufficient 0.00 (–0.59 to 0.26)	1 trial (n = 40)	Insufficient 25% (NA)	1 trial (n = 181)	Insufficient –0.30 (NA)	2 trials (n = 218)	Insufficient 30% (18% to 30%)
Antidepressants	3 trials (n = 508)	Insufficient –0.33 (–0.06 to –0.67)	1 trial (n = 186)	Insufficient 18% (NA)	2 trials (n = 160)	Insufficient 0.04 (–0.05 to 0.12)	1 trial (n = 186)	Insufficient 16% (NA)
Cholinesterase inhibitors	1 trial (n = 221)	No difference (low) 0.00 (NA)	1 trial (n = 221)	No difference (low) –1% (NA)	NR	NR	NR	NR
Antiseizure drugs	1 trial (n = 128)	Insufficient –0.16 (–0.12 to –0.21)	NR	NR	NR	NR	NR	NR
Supplements vs. placebo								
Yokukansan	1 trial (n = 145)	Insufficient††	NR	NR	1 trial (n = 145)	Insufficient††	NR	NR

Fink HA, Linskens EJ, MacDonald R, et al. Benefits and harms of prescription drugs and supplements for treatment of clinical Alzheimer-type dementia. A systematic review and meta-analysis. Ann Intern Med. 2020.

Antipsychotics

- Undesirable benefit/risk ratio
 - FDA Black Box Warning

WARNING: INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS
See full prescribing information for complete boxed warning.
Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death. RISPERDAL® is not approved for use in patients with dementia-related psychosis. (5.1)



- Long-term care standards require gradual dose reductions of antipsychotics and sedative/hypnotics (e.g. benzodiazepines)

Pharmacologic Treatments

- Can also make behaviors WORSE!
 - Akathisia (antipsychotics)
 - Paradoxical agitation (benzodiazepines)
 - Confusion, delirium
 - Sedation □ disruption of sleep/wake cycle



Pharmacologic Treatments

- So are antipsychotics or other medications EVER indicated?
 - Palliation of psychological distress
 - Concept of “total pain”
 - Safety of patient/others
 - Meds should never be used for staff convenience!
- Certain neuropsychiatric symptoms are more likely to respond to medications
 - Psychosis (antipsychotics)
 - Depression (antidepressants)
 - Cholinesterase inhibitors often very effective for neuropsychiatric symptoms in Lewy body disease
 - Sleep-wake dysregulation

Pharmacologic Treatments

- Trial & error often necessary
- Honest conversations with caregivers/POAs about risks/benefits are essential

Case Conclusion

Case

- Medication trials:
 1. Olanzapine (antipsychotic)
 2. Added escitalopram (antidepressant)
 3. Olanzapine risperidone (antipsychotic)
 4. Added valproate (mood stabilizer)
 5. Lorazepam (benzodiazepine) oversedation
 6. Trazodone (antidepressant) paradoxical agitation
 7. Risperidone haloperidol (antipsychotic)

Case

- He got better!



Key Points

- Non-pharmacologic interventions are first-line for BPSD
 - Medications often have limited efficacy
 - Most medications for BPSD have risks and significant potential for side effects (including worsening of behaviors!) – informed consent is essential
- Medications should target specific neuropsychiatric symptoms
 - Trial & error often necessary
- Goal of medication treatments should be palliation of distress and/or patient/staff safety (NEVER for staff convenience!)

Community Health Workers' Perspectives

Strategies for successfully managing dementia-
related behavioral issues

Caregiving for People with Memory Loss

May 19, 2022

What is a Community Health Worker? (CHW)

- Commonly called CHWs
- Trained, front-line public health professionals
- Community connections (language, culture, life experiences)
- Bridges care gap (health/social services) and community
- Creates access to health/community services and resources
- Provides culturally appropriate health education, information and outreach in various settings (homes, clinics, hospitals, care centers, etc.)
- Advocates for inclusive and equitable healthcare for all

Importance of Caregivers

- Caregiving is Crucial :
- Promote overall happiness
- Mental well-being

CHW Strategies for Caregivers

- **Recognize behaviors as a form of communication**
- **Major challenges:**
 - Behaviors and personality changes
 - Agitation/irritability
 - Sleep (wakefulness/sleep disruption)
 - Wandering
 - Eating (too much/too little)
 - Fearfulness/crying spells

Triggers: What's Driving the Behavior?

- Assess the situation/behavior patterns
- Identify the causes: in the moment/progressive symptoms
- Environmental (unfamiliar surroundings, music, TV, voices, smells)
- Personal needs (hungry, thirsty, pain, bored)
- Disease progression-induced symptoms (wakefulness/sleep disruption)
- Historical driver/influencers (trauma, other chronic conditions)

Behavior Management Tips

Person-centered approach

- Meet the person where they are. Be in the moment.
- Personal preference: Utilize the person's likes to re-direct or to get the person's attention.
- Communication: Ask simple, answerable questions, use clear statements and calm voice.
- Listen with all your senses (eyes, ears and heart).
- Stress management (quietness, crafts, music, dancing, coffee, TV shows)
- When the going gets tough: Distract and re-direct!

Other Considerations

- Biological effects on memory loss (pre-disposition)
- Co-morbidities (chronic health conditions, substance use disorders)
- Lack of understanding of the brain, diseases and disorders
- Historical: lack of trust, economic factors
- Cultural considerations (brain health, aging and/or cognitive conditions)
- Lifestyle behaviors (diet, exercise, sleep hygiene, etc.)

Caregiver Burnout Prevention Self-Care

- **Don't forget to take care of yourself!**
- **Build a team(s) and delegate**
 - Family and friends
 - Professional providers
 - Community-based organization (CBOs)
- **When enlisting community support/care sharing, consider**
 - Cultural norms
 - Biases/stigmas
 - Economic factors

Key Take-Aways

- Caregiving is a huge responsibility
- Individualize the style of care
- Be supportive and encouraging
- Be aware of environmental factors (calm/familiar environment)
- Encourage regular routines
- Prioritize self-awareness and care (take breaks, socialize with friends, keep up with hobbies)
- Connect with others: Attend caregiver support group

Thank you!

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- Community Health Worker
- Juniper program, Trellis
 - MN CHW Alliance

