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Put Down the Drugs: Evidence-Based Interventions to Reduce Unwanted Behaviors with Dementia

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continued

Objectives

- 1. List at least three triggers and causes of behaviors in persons with dementia.
- 2. Identify at least three evidence-based interventions to address behaviors related to emotion, sensation & agitation.
- Describe at least three ways routine and meaningful activity impact task performance.



Background

- Estimated 5 million Americans suffer from dementia
 - More than 15 million provide caregiving
- Costly to treat (\$215 B in 2010)
- Caregiving is the most costly aspect of dementia care

(AHRQ, 2014)

continued

BPSD

- Behavioral and psychological symptoms of dementia
 - Symptoms of disturbed perception, thought content, mood or behavior that frequently occur in patients with dementia.
- As many 76% of residents have BPSD
- Labels used to describe include agitated, aggressive, and disruptive

(AHRQ, 2014)



Distress to Caregivers

- Associated with increases in caregiver anger, resentment, stress, and decreased psychological health
- Stressed caregivers may be inclined to abuse the client or turn to antipsychotic medications

continued

Theoretical Frameworks

Four theoretical frameworks to explain etiology of behavioral disorders

- Biologic/genetic
 - Due to symptoms of dementia
- Behavioral
 - Relationship between patients and environment
- Reduced stress threshold
 - Lower threshold to stimuli
- Unmet needs

(Cohen-Mansfield, 2013)



Basic Needs

- Physiological
- Safety/security
- Belonging and love
- Esteem

continued

Care Models Addressing Behaviors

- Progressively Lowered Stress Threshold Model (Hall & Buckwalter, 1987)
 - Six principles of care
 - Modify the environment
 - Unconditional positive regard
 - Use anxiety as a gauge
 - Listen for behaviors
 - Support loss and enhance safety
 - Provide caregiver education



Care Models Addressing Behaviors

- Need-Driven Dementia-Compromised Behavior Model (Algase et al., 1996)
 - Background factors
 - Dementia compromised functioning
 - Poor health status
 - Demographic and psychosocial variables
 - Proximal factors
 - Unmet physiologic and psychological needs
 - Disturbing environmental factors
 - Uncomfortable social surroundings

continued

Responses to Stress

Typical Stress Relievers

- Go for walk
- Talk on the phone
- Take a bath
- Put on comfortable clothes
- Go shopping
- Exercise
- Read a book
- Sex

Dementia Behaviors

- Wandering
- Asking same thing over and over
- Taking off clothes
- Rummaging
- Pacing
- Inappropriate sexual behavior



Disruptive Behaviors

- Inappropriate, repetitive or dangerous behaviors which are disruptive to the living and working environment in the NH
- Most common disruptive behaviors
 - Wandering
 - Aggression
 - Agitation

Ahn & Horgas, 2013

continued

Behaviors

- ALL behavior has meaning and is indicating something
- Behavior is a form of communication
- Look at every behavior as unmet need
- Behaviors are considered a problem when
 - Safety or well-being of patient or others is compromised
 - A trigger or cause cannot be identified



Common Behaviors

- Anger/agitation
- Sleep problems
- Paranoia/delusions
- Resistance to ADL
- Continence difficulty
- Getting lost/ wandering

- Sundowning
- Catastrophic reactions
- Rummaging
- Repetitive actions
- Crying out
- Inappropriate social and sexual behavior

continued

Causes of Problematic Behaviors

- Environmental
- Physiological
- Psychological
- Medication induced
- Communication
- Task-related
- Pain



Addressing Problematic Behaviors

- Prevent the incidence of agitation and aggressive behaviors
- Respond to episodes to reduce severity, duration, caregiver distress
- Interventions may be
 - Patient focused: directly intervene with patients
 - Caregiver focused: intervene through caregivers and environment

continued

Addressing Problematic Behaviors

- Observe the behavior/determine cause
- Behaviors may be indicative of needs
- Could be due to inability to manage stress
 - Change in routine/caregiver/environment
 - Demands that exceed ability
 - Multiple and competing stimuli
 - Pain/illness/discomfort
 - Medication side effects

Kovach et al., 2012



Evidence Related to General Interventions

continued

Cognitive/Emotion-Oriented Interventions

- Reminiscence Therapy
 - Discussion of past activities, events, experiences with another person or a group of people
 - No supportive evidence (Woods, et al., 2009; Livingston, et al. 2005)
- Simulated Presence Therapy (SPT)
 - Audiotapes by family members with scripted conversation about cherished memories
 - Overall good evidence, though may cause adverse effects in some residents (Zetteler, 2008; O'Connor, et al., 2009)



Cognitive/Emotion-Oriented Interventions

- Validation Therapy
 - Opportunity to resolve unfinished conflicts by encouraging and validating expressions of feeling
 - Mixed evidence (Neal, Barton, & Wright, 2009)
- Overall, insufficient evidence to draw conclusions about the efficacy of cognitive and emotional interventions

continued

Multi-Sensory Interventions

Increased engagement in multi-sensory environments (Heyn, 2003)

- Sound
 - Natural environments decrease agitation (Whall et al, 1997)
- Sight
 - Light intensity improves performance and sleep (Koss & Gilmore, 1998)
- Smell
 - Lavender oil decreases agitation (Holmes et al., 2002; Thorgrimsen, Spector, Wiles, & Orrell, 2003)



Multi-Sensory Interventions

- Snoezelen Multisensory Stimulation Therapy (MMS)
 - Combines the therapeutic use of light, tactile surfaces, music, and aroma
 - Neuropsychiatric symptoms may result from periods of sensory deprivation
 - Short-term benefits on behaviors were significant (Chung & Lai, 2009)

continued

Benefits of a Sensory Room

- Stimulation provided in a controlled way
- Can be stimulating or calming in their effects
- Positive changes in mood and behavior for late stage dementia
- Improves staff interactions with residents



Deficiencies of Sensory Rooms

- Aesthetics and functionality are not satisfying and appropriate
- The equipment and set up is not age appropriate; juvenile
- Difficult to connect with
- Cluttered and distracting
- Insufficient multi-sensory stimulation

continued

Stimulation and Relaxation

- Stimulating
 - Sight
 - · Lights of high intensity, color red, reminiscent images and objects
 - Smell
 - · Citrus smells, peppermint
 - Sound
 - Loud music, fast tempo, sing-along tunes, abstract sounds
 - Touch
 - Textured objects, spiky balls, random contact
 - Taste
 - Citrus fruits, peppermint, sour sweets, sherbet
 - Movement
 - Random movements, spinning



Stimulation and Relaxation

- Relaxing
 - Sight
 - Low level, slow changing lighting, fairy lights, Christmas tree lights
 - Sound:
 - Quiet music, slow tempo, natural sounds
 - Touch
 - Hand massage, stroking, soft fabrics such as fur, velvet, silk or fleece
 - Taste
 - · Milky foods such as chocolate, pudding, yogurt
 - Smell
 - Lavender, smell of baking cakes or bread
 - Movement
 - · Linear rocking such as a rocking chair

continued

Multi-Sensory Interventions

- Massage and Touch
 - To reduce depression and anxiety
 - Hand massage with calming music
 - Tactile input during meals
 - Gentle massage 3X/day
 - Intermittent touch with talking
 - Massage and touch therapy may have beneficial effects (Hansen, et al., 2009; Gleeson & Timmins, 2004)



Multi-Sensory Interventions

Music

- Reduces repetitive disruptive vocalizations and selfstim behavior (Casby & Holm, 1994)
- Promotes mobility skills and body awareness (Pomeroy, 1993)
- Improves posture, competence, and sensory awareness (Gotell, Brown, & Ekman, 2003).
- Reduces agitation and time spent with meals (Sherratt, Thornton, & Hatton, 2004)

continued

Other Interventions

- Animal-Assisted Therapy
 - Robotic cats, plush toys, fish tanks, resident cat/dog
 - Decreases in agitated and disrupted behaviors
 - Increases in social and verbal interactions
 - Decreases in passivity
 - Increases in nutritional intake

(Greer, et al., 2001; Martindale, 2008; McCabe, et al., 2002)



Other Interventions

- Exercise
 - No specific guidelines re: intensity or frequency
 - Increased sleep time, decreased daytime sleep, decreased nighttime awakenings
 - Improved mobility and decreased falls

(Alessi, et al., 1999; McCurry, et al., 2005; Alessi, et al., 2005)

continued

Interventions for Perception

- Optical interventions for hallucinations (Letts at al., 2011)
- Wayfinding has limited evidence (Letts et al., 2011; Padilla, 2011)
- Visual barriers have mixed evidence (Letts et al., 2011; Fleming & Purandare, 2010)
- High contrast (Fleming & Purandare, 2010)
- L shaped hallways (Letts at al., 2011)



Cognitive Interventions

continued

Cognitive Interventions

- Errorless learning is effective for enhancing performance of ADL (Dechamps et al., 2011)
- Cognitive rehabilitation not effective for long-term gains (Kurtz et al., 2012)
- Cognitive stimulation helps QOL and social interaction
 - No impact on ADL performance (Woods et al., 2012 and Cooper at al., 2012)



Cognitive Interventions

- Cognitive training has no significant benefit on ADL performance (Bahar-Fuchs et al., 2013)
- Reminiscence had no effect on ADL or cognitive performance (Cooper et al., 2012)

continued

Errorless Learning (DeWerd et al., 2013)

- No guessing
- Stepwise approach
- Modeling
- Verbal instruction
- Visual instruction
- Vanishing cues
- Spaced retrieval



Interventions Targeting Specific Behavioral Symptoms

continued

Agitation

- Sensory interventions (aromatherapy, thermal bath, calming music, and hand massage) show decreased agitation
- Social contact, environmental modification, caregiver training, and behavior therapy showed limited effects on agitation



Agitation Strategies

- Do not fight, scream or scold
- If possible leave the room (tell person you'll be back)
- Do not turn your back on the person
- Simple, firm, clear language
- Do not try to reason
- Keep your hands in view
- Avoid exaggerated gestures
- Stand to one side and slightly sideways

continued

Agitation Strategies

- Stay out of personal space
- Use soft eye contact
- Appear non-confrontational
- Tell person gently what you want him/her to do
- Do not restrain from wandering, go with them
- Ask others to leave the room
- Reassure family members



Wandering Strategies

- Visual cliffing
- Deterrents
- Message
- Authority figures
- Camouflage
- Diversions

continued

Visual Barriers/Interventions

 Concealment of doorknobs, painted doorknobs, wall mural on an exit door are effective for wandering

(Dickinson, McLainKark, & Marshall-Baker, 1995; Kincaid & Peacock, 2003; Namazi & Johnson, 1992; Namazi, Rosner, & Calkins, 1989)

Dividers facilitate engagement in activity and improve attention

(Namazi & Johnson, 1992)

 Wall murals and posters decrease exit-seeking behavior; nature and homelike scenes

(Cohen-Mansfield & Werner, 1998; Day et al., 2000)



Fall Management

 Incidence of falls with AD is around 60% (twice that of normal elderly)

(Shaw et al., 2003).

 Embed physical training focused on improving gait, strength, balance, and flexibility in occupationbased intervention

(Hauer et al., 2006; Oliver et al., 2007)

 Close supervision and participation in activitybased intervention

(Detweiler et al., 2005)

continued

Fall Management

- Unrestricted daytime access to the wander gardens decreased falls (Detweiler et al., 2009)
- Environmental modification should be used with a multi-faceted intervention
- Strong evidence for wander guards (Tchalla et al., 2013)
- Evidence for music is limited



Occupation Based Interventions

- Montessori (Lin et al., 2011) and spaced retrieval (Lin et al., 2010) improved self-feeding
- Individualized activity sessions can reduce unwanted behaviors (van der Ploeg et al., 2013)
- Personalized bathing protocols including environmental modification help with bathing (Zimmerman et al., 2013)

continued

Eating

- Improved consumption when:
 - CNA allows resident to control more of the eating process (Amella, 1999)
 - Verbal prompts and positive reinforcement (Coyne and Hoskins, 1997)
 - Listening to music while eating (Ragneskog et al., 1996)
 - Small dining rooms next to living space (Day et al., 2000)
 - Consistency of caregivers and increased nutritional value of foods (Burgener and Twigg, 2002)



Toileting/Continence

- Improved continence when:
 - Toilets are visibly accessible to residents (Day et al., 2000)
 - Prompted voiding, behavior modification, and scheduled toileting (Doody et al., 2001)

continued

Sleep Behavior (Graessel at al., 2011)

- Bright light therapy to improve circadian rhythms and increase time sleeping at night
- Higher doses of melatonin
 - Neither has solid conclusive evidence
- Environmental modification may help to improve sleep behavior
 - E.g., less noise, light, interruptions
- Strong evidence for exercise based interventions
- Engagement in daytime activities and social activity help with night time sleep



Bathing and Dressing

- Improved independence when:
 - Listening to favorite music (Clark et al., 1998)
 - Environment with nature sounds, large, bright pictures, sweet food (Whall, 1997)
 - Tailor care to capabilities of the individual resident (Beck et al., 1997)
 - Verbal prompts and physical assists (Rogers et al., 1999)
 - Present clothing in sequential order (Day et al., 2000)

continued

Routines

- To maintain occupational performance (Nygård & Öhman, 2002)
- To address wandering, aggression, or to prevent catastrophic reactions (Corcoran, 2001; Lewis, 2003; Ward, 2003)
- Routines must be flexible to meet the resident's needs, not staff (Skovdahl, Kihlgren, & Kihlgren, 2003)
- Residents should follow preferred routines (Donovan & Dupuis, 2000)



Environmental Interventions

continued

Environmental Modifications

- Ambient music played other than at mealtimes can reduce undesired behaviors (Padilla, 2011)
- Bright light therapy is mixed evidence for behaviors
- Aromatherapy and proprioceptive input also mixed (Burns et al., 2011)



Specialized Environments

- Moderate level noise promotes improved engagement in activities (Mercado & Mercado, 2006; Cohen-Mansfield, 2010)
- Homelike, personalized rooms reduce behaviors
- Small dining rooms, large clock, printed mealtimes help with confusion (Chaudhury et al., 2013)

continued

Pain Management



Pain in the Elderly

- 50-80% of NH patients are reported to be in pain (Achterberg et al., 2013; Ahn & Horgas, 2013; Patel et al., 2013; Takai et al., 2010)
- Pain is positively correlated with ↑ aggression and agitation scores (Ahn & Horgas, 2013)
- Analgesics were significantly less often prescribed and/or used for patients with dementia (Hoffman et al., 2014; Takai et al., 2010)

continued

Pain Management Protocol

- Ensure all comfort needs are met
- Look for treatable conditions
- Look for other potential sources of the unusual behavior
- Try non-drug comfort strategies
- Begin an analgesic trial
- Use a pain rating/assessment tool



Pain Behaviors

(American Geriatric Society Panel)

- 1. Facial expressions
 - Slight frown/sad, grimacing, wrinkled forehead, closed eyes, rapid blinking
- 2. Verbalizations/vocalizations
 - Sighing/moaning/groaning, grunting/chanting, calling out, noisy breathing, asking for help, verbally abusive
- 3. Body movements
 - Rigid/tense, fidgeting, ↑ pacing, rocking, gait/mobility changes Achterberg et al., 2013

continued

Pain Behaviors

- 4. (American Geriatric Society Panel) interactions
 - Aggressive/combative/resisting care, ↓ social interactions, socially inappropriate/disruptive, withdrawn
- 5. Changes in activity patterns or routines
 - Refusing food/appetite change, ↑ rest periods, sleep pattern change, cessation of common routine, ↑ wandering
- Mental status changes
 - Crying/tears, ↑ confusion, irritability,/distress Achterberg et al., 2013



Barriers to Pain Management

- Poor or absent communication
- Psychotropic meds to deal with behavior
- Lack of knowledge for pain assessment & management
- Reluctance to change/increase meds

continued

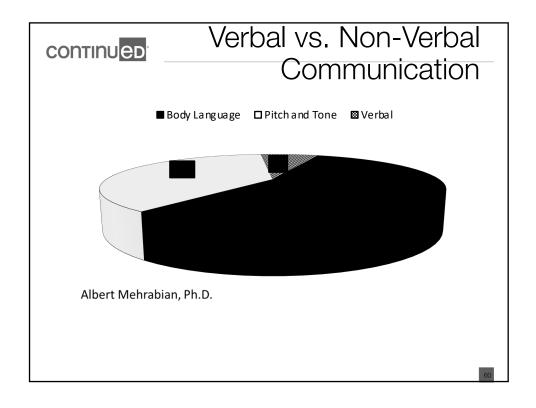
Multi-Sensory Interventions

- Transcutaneous Electrical Nerve Stimulation (TENS)
 - Most often used for pain control
 - Positive short-term benefits on sleep disturbances and behavioral symptoms, evaluated immediately after treatment or at six-week follow-up

(Johnson, 2008; Cameron, Lonergan, & Lee, 2009)



continued.	
Communication	59





Factors Affecting Communication

- Family/staff stress and frustration
- Environment
- Time
- Distractions in the environment
- Medications
- As dementia progresses, the ability to correctly interpret communication decreases
- Depression and anxiety

continued

Challenges in Communication

- Word-finding difficulty
- Repetition
- Unable to read and/or understand written communication
- Revert back to their native language
- Lose ability to speak in sentences
- Loss of ability to understand
- Unable to use words



Communication Strategies

- Avoid arguing or reasoning
- Ask closed-ended questions
- Observe non-verbals
- Allow time to respond
- Be ready to repeat
- Use short sentences
- Speak slowly, clearly, audibly
- Use the person's name
- Use gestures/visual cues

continued

Communication Strategies

- Communication skills vary
- Assume most of the conversation
- Grade the conversation
- Be an active listener
- Avoid shouting
- Use adult language
- Use eye contact
- Use touch



Caregiver Approach

- The caregiver's approach affects the resident's behavior
- Behavior management skills training program
 - Inservice, direct observation and feedback
 - Decreased use of ineffective strategies (e.g., arguing), decreased disruptive vocalization, restlessness, aggression during ADL

(Burgio, et al., 2002)

continued

Activity



Importance of Activity

- Tailored Activity Programs reduce behaviors and increase engagement (Gitlin et al., 2008)
- Activity kits improve quality of visits and QOL (Crispi & Heitner, 2004)
- Individualized and meaningful activities show positive results (Pool, 2001)

continued

Assessment of History/Background

- What do they like to do?
- What is their history?
- Strengths and limitations?
- Environment -- what contributes to successful engagement and what hinders it?
- Relevant life experiences, values, interests?



Activities by Stage

- Early stage of dementia
 - Activities that focus on the whole task
- Mid-stage of dementia
 - Activities that focus on the individual steps of the activity
- Late stages of dementia
 - Activities that focus on the sensory part of the activity

continued

Activity Requirements

- Gross motor
- Repetitive
- Uses familiar motions
- Involves 1 or 2 steps
- Observable effect on the environment
- Non-competitive
- Involves few or no rules
- Tailored to match skills and interests (Kolanowski, 2001)



Meaningful Activity

Every activity must . . .

- Have a purpose that is obvious to the participant
- Be voluntary
- Be pleasurable
- Be socially and age appropriate
- Be failure proof

continued

Considerations When Adapting Activities (Warchol, Copeland, & Ebell, 2002)

- Attention span
- Environmental scanning
- Awareness of purpose/goal
- Communication
- Physical attributes
- Quality of work
- Problem solving

- Sequencing
- Social factors
- Environment
- Ability to initiate
- Ability to choose
- New learning ability
- Direction following
- Response time



Successful Activities

- 1. Assess cognitive function
- 2. Learn about past habits and interests
- 3. Choose activities based on past interests
- Adapt the activity to match physical and cognitive abilities
- 5. Assess success of the activity

continued

IDT Techniques



Interdisciplinary Treatment Techniques

- Establish simple routine
 - Short simple phrases for instruction
 - Concrete, not abstract
 - Consistent with sequence of tasks/instruction
 - Predictable routine

continued

Interdisciplinary Treatment Techniques

- Task segmentation
 - Simplify tasks
 - One-step commands
 - Hand-over-hand guidance
 - Familiar area
 - Allow for slower reaction time
 - Repeat commands
 - Limit adaptive equipment



General Behavior Management Strategies

- Keep tasks simple
- Be flexible
- Provide soothing activities
- Tolerate wandering or pacing
- Get into the person's reality
- Validate the person's feelings
- Keep a calm demeanor
- Distract with meaningful activity
- Use routines, keep environment and approach consistent and familiar

continued

Interdisciplinary Treatment Techniques

- Provide one-step commands
- Speak slowly
- Repeat and rephrase sentences
- Utilize gestures with speech
- Praise and encourage patient often
- Limit distractions/structure environment
- Eye contact
- Avoid open-ended questions, offer choices
- Demonstrate the activity



Cueing Strategies

- Cues should be short and provide clear direction (Padilla, 2011)
- Verbal prompts along with positive reinforcement improve performance (Coyne & Hoskins, 1997)
- Demonstrate the activity
- Series of pictures that symbolize activity
- Provide tactile stimulation along with verbal instruction

continued

Cueing Strategies

- Use hand signals, pictures, facial expressions
- Provide familiar visual and auditory stimuli
- Provide cues when changing topic
- Use of redirections
- Hand-over-hand technique
- Utilize multi-modality cueing



In Conclusion

- BPSD can contribute institutionalization, increased cost, heightened stress, and decreased QOL
- Nonpharmacological approaches are preferred
- Several underlying themes:
 - Environmental modification
 - Properly trained staff

continued

Thank You

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