


Slide 1

Session W41:
**Delirium,
Dementia, and
Depression**



OHCA OCAL OCID

Slide 2

Debi Damas, RN
Sr. Product Manager, Senior Care
ddamas@reliaslearning.com (919)
655-7825




OHCA OCAL OCID

Slide 3

Objectives:

- Define the 3D model of looking at behavior
- List at least two symptoms of delirium
- List two ways that delirium is different from dementia and depression
- List two ways to prevent delirium




OHCA OCAL OCID

Slide 4

Why Three D's?

- Important in care of the elderly
 - Can be mistaken for one or the other
- Each condition is three-dimensional
 - Depth that needs to be explored
 - Outcomes dependent on proper identification
- Each has different treatment modalities
- **NOT** part of normal aging





Slide 5

What's the Difference Between the 3 D's

Delirium

Delirium is characterized by *rapid onset* (over days) and a fluctuating course. Disorientation to time and short-term memory impairment are common. The person may exhibit obvious distress, misperceptions, and visual illusions or hallucinations. The patient with delirium has incoherent and disorganized speech and thought.





Slide 6

What's the Difference Between the 3 D's

Dementia


Dementia typically has a *gradual onset* (over years) and a slow, steady pattern of decline *without a change in consciousness*. People with dementia, at least until the late stages, are able to attend to the environment. Hallucinations are typically absent in early stages of dementia. The patient with dementia may have vague speech and word finding problems, but the patient with delirium has incoherent and disorganized speech and thought.



Slide 7

What's the Difference Between the 3 D's

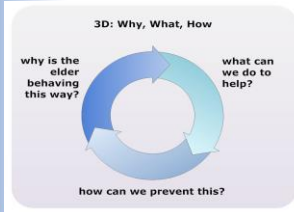
Depression
The inability to concentrate with resulting memory impairment is common in late-life depression. Also, depression can resemble *hypoaactive delirium* as well. The term *pseudodementia* has been used to describe the cognitive impairment that may accompany depression in older adults.



OHCA OCAL OCID

Slide 8


3D: Why, What, How



why is the elder behaving this way?

what can we do to help?

how can we prevent this?



OHCA OCAL OCID

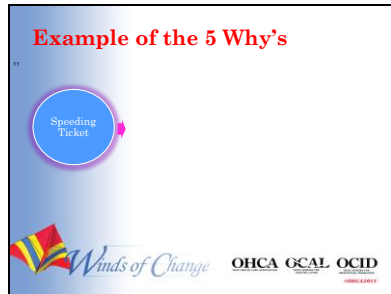
Slide 9

Root Cause Analysis Basics

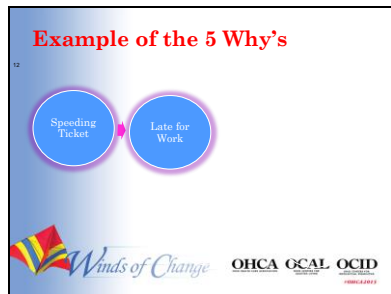
Slide 10



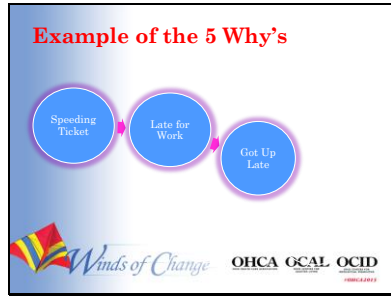
Slide 11



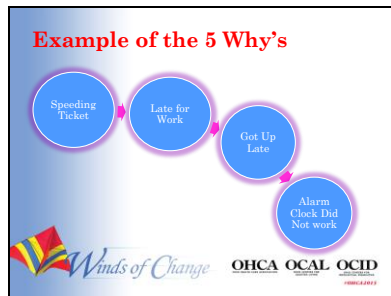
Slide 12



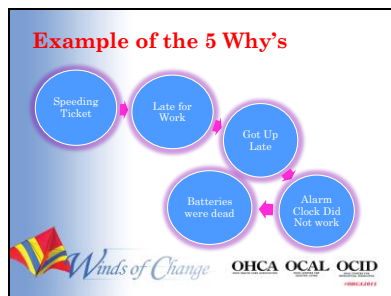
Slide 13



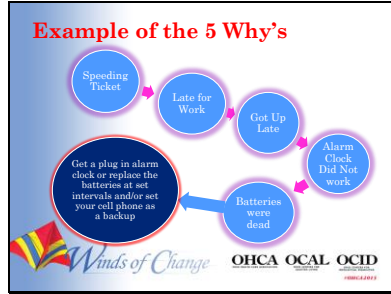
Slide 14



Slide 15



Slide 16



Slide 17



Slide 18


Delirium

Delirium
Delirium is characterized by *rapid onset* (over days) and a fluctuating course. Disorientation to time and short-term memory impairment are common. The person may exhibit obvious distress, misperceptions, and visual illusions or hallucinations. The patient with delirium has incoherent and disorganized speech and thought.

Slide 19

What is the scope?

- As high as 65% after orthopedic surgery
- 20-25% after cardiac surgery
- Those with dementia 3-5 times more likely to develop delirium
- 16% rate of delirium upon admission to sub acute care
- 46% rate discharged to a home care agency
- 6-60% prevalence in long term care settings



OHCA OCAL OCID

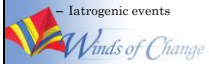
Slide 20

Delirium

- Interaction of predisposing factors
 - Cognitive impairment
 - Severe illness
 - Sensory impairment

AND

- Precipitating factors
 - Medications
 - Procedures
 - Restraints
 - Iatrogenic events




OHCA OCAL OCID

Slide 21

Causes of Delirium

- Usually caused by illness, environment, reaction to medication
- Other Factors
 - Heart attack
 - Not enough fluids
 - Hypoxia
 - Alcohol or drugs
 - Lack of Sleep
 - Medication
 - Herbal remedies
 - Diabetes
 - Hyperthermia
 - Hospitalization
 - Age and illness
 - Poor vision
 - Fecal impaction
 - Malnutrition



OHCA OCAL OCID

Slide 22

Recognizing Delirium

- Easily Distracted
- Periods of altered perception of surroundings
- Episodes of disorganized speech
- Periods of restlessness
- Periods of lethargy
- Mental function varies over course of the day
- Acute onset




OHCA OCAL OCID

Slide 23

Recognizing Delirium

- Easily Distracted
- **Periods of altered perception of surroundings (Stage 5 Alzheimer's)**
- Episodes of disorganized speech
- Periods of restlessness
- **Periods of lethargy (Depression)**
- Mental function varies over course of the day
- Acute onset




OHCA OCAL OCID

Slide 24

Case Study

You are admitting an 85 year old man to your care center. He has just been discharged from the hospital following treatment for dehydration and a urinary tract infection. His past history includes a diagnosis of Alzheimer's disease. He is very hard of hearing and his hearing aides were lost in the hospital. He has an indwelling catheter in place. In the hospital, he experienced episodes of agitation and was restrained. His current medications include a new prescription for Risperdal and Ambien.

- Which of the following choices most fully describes his risk factors for delirium?
 - Age, sex, sensory impairment, recent relocation
 - Age, sensory impairment, dementia, history acute illness, indwelling catheter, medications, restraints
 - Medications, dementia, restraints, dehydration





OHCA OCAL OCID

Slide 25

Case Study

You are admitting an **85 year old** man to your care center. He has just been discharged from the hospital following treatment of **dehydration and a urinary tract infection**. His past history includes a diagnosis of **Alzheimer's disease**. He is **very hard of hearing and his hearing aides were lost in the hospital**. He has an **indwelling catheter in place**. In the hospital, he experienced episodes of agitation and was **restrained**. His current medications include a new prescription for **Risperdal and Ambien**.



- Which of the following choices most fully describes his risk factors for delirium?
 - Age, sex, sensory impairment, recent relocation
 - **Age, sensory impairment, dementia, history acute illness, indwelling catheter, medications, restraints**
 - Medications, dementia, restraints, dehydration



Slide 26

Types of Delirium

- Hyperactive
- Hypoactive
- Mixed



Slide 27

Hyperactive Delirium

Commonly present with psychomotor agitation, increased arousal and delusions. The degree of cognitive impairment may be variable and even minimal in some instances.

- Excessive alertness
- Easy distractibility
- Increased psychomotor activity
- Hallucinations, delusions
- Agitation and aggressive actions
- Fast or loud speech
- Wandering, non-purposful, repetitive movement
- Verbal behaviors (yelling, calling out)
- Removing tubeshocking
- Attempting to get out of bed



Slide 28

Hyperactive Delirium

Commonly present with psychomotor agitation, increased arousal and delusions. The degree of cognitive impairment may be variable and even minimal in some instances.

- Excessive alertness
- Easy distractibility
- Increased psychomotor activity
- Hallucinations, delusions (Stage 4)
- Agitation and aggressive actions (Stage 4)
- Fast or loud speech
- Wandering, non-purposeful, repetitive movement (Stage 6)
- Verbal behaviors (yelling, calling out) (Stage 6)
- Removing tubedocking
- Attempting to get out of bed




OHCA OCAL OCID

Slide 29

Hypoactive Delirium

Features of this type of delirium include withdrawal, lethargy and reduced arousal

- Quiet or "pleasantly confused"
- Reduced activity
- Lack of facial expression
- Passive demeanor
- Lethargy
- Inactivity
- Withdrawn and sluggish state
- Limited, slow, and wavering vocalization




OHCA OCAL OCID

Slide 30

Hypoactive Delirium

Features of this type of delirium include withdrawal, lethargy and reduced arousal

- Quiet or "pleasantly confused"
- **Reduced activity (Stage 4, Depression)**
- Lack of facial expression
- Passive demeanor
- **Lethargy (Depression)**
- **Inactivity (Stage 4, Depression)**
- Withdrawn and sluggish state
- Limited, slow, and wavering vocalization





OHCA OCAL OCID

Slide 31

Mixed Delirium
Unpredictable fluctuations between *hypoactivity* and *hyperactivity*



Hypoactivity	Hyperactivity
<ul style="list-style-type: none">• Quiet or "pleasantly confused"• Reduced activity• Lack of facial expression• Passive demeanor• Lethargy• Inactivity• Withdrawn and sluggish state• Limited, slow, and wavering vocalization	<ul style="list-style-type: none">• Excessive alertness• Easy distractibility• Increased psychomotor activity• Hallucinations, delusions• Agitation and aggressive actions• Fast or loud speech• Wandering, non-purposeful, repetitive movement• Verbal behaviors (yelling, calling out)• Removing tubes/clothing• Attempting to get out of bed

Slide 32

Assessing for Delirium

- **New Residents:**
 - Assess upon admission for prior status
 - CAM – Confusion Assessment Method (part of MDS3.0)
 - BIMS – Brief Interview for Mental Status (part of MDS3.0)
- **Do not assume current mental status is usual state**
 - Do not attribute to age alone
 - Do not assume dementia is present
- **Existing Residents**
 - Know the resident's usual mental status and functional patterns



 

Slide 33

Case Study

Mary, 83 years old, has been a resident of the nursing home for 4 years. She has Alzheimer's disease. Her usual pattern is to walk around the facility all day, stopping to talk to everyone. She eats well and enjoys the activities, especially singing. For several days, Mary refused to get out of bed, refused to feed herself, and was very aggressive towards the staff, yelling out constantly. She seemed not to recognize her familiar caregivers and had a frightened look on her face. At other times, she was very quiet and withdrawn, sleeping more, and speaking very little. Staff attributed the change in her pattern to a progression of her Alzheimer's disease. Upon closer assessment, she was found to have a very painful right leg. X-ray revealed a fractured hip. She underwent a surgical repair and returned to the facility and resumed her usual activities – still in the same stage of Alzheimer's.

What type of delirium was Mary experiencing?



 

Slide 34

Case Study Rationale

Mary, 83 years old, has been a resident of the nursing home for 4 years. She has Alzheimer's disease. Her usual pattern is to walk around the facility all day, stopping to talk to everyone. She eats well and enjoys the activities, especially singing. For several days, *Mary refused to get out of bed, refused to feed herself, and was very aggressive towards the staff, yelling out constantly (Hyperactive).* She *seemed not to recognize her familiar caregivers and had a frightened look on her face (Hyperactive, Stage 6).* At other times, she was very quiet and withdrawn, *sleeping more, and speaking very little (Hypoactive, Stage 6)*. Staff attributed the change in her patterns to a progression of her Alzheimer's disease. Upon closer assessment, she was found to have a very painful right leg. X-ray revealed a fractured hip. She underwent a surgical repair and returned to the facility and resumed her usual activities – still in the same stage of Alzheimer's.



Answer = MIXED



Slide 35

Medical or Physical Triggers



Changes in dose or addition of new medication	The elder may have side effects to medication. Check for new medications or changed doses.
Poor vision or hearing	Check to see that hearing aids and glasses are working properly.
Fever	Check the elder's temperature as the elder may be experiencing the beginning symptoms of an illness.
Pain	The elder may hold her stomach, or moan when you touch her arm, letting you know that she is in pain. Look for fever, coughing, foul-smelling urine, hot red areas on the skin, and shortness of breath.
Acute medical problems	
Constipation or urinary incontinence	Plan a regular toileting schedule to decrease these problems.
Fatigue	Listen for stomach "grumble" sounds. Watch for elder licking lips or turning head toward the smell of food. Provide rest periods to decrease level of fatigue. Set up nightly routines. Keep room quiet. <i>Look at night!</i>



Slide 36

Outside Triggers



Feeling cold or hot	Check temperature for fever. Feel hands and feet; if cold, add socks and layers of clothing. The elder may be cold when you are not.
Too much going on – noisy and distracting environment.	When this occurs, elders have difficulty calming themselves.
Examples: Other elders crying out, sirens outside, many visitors.	Provide relaxation strategies to minimize anxiety, fear: <ul style="list-style-type: none">• Massage, therapeutic touch• Speak in soothing tones• Play soft, soothing music or nature sounds (ocean waves, rainfall, bird sounds)• Take to a quiet place or outdoors
Boredom	Encourage activities. Be aware of the elder's skill level. Avoid activities that are too hard. More frustration is created if the activity is too hard.
Unfamiliar people or places	Consistency in staff caring for elder helps in establishing rapport and trust. Teach visitors to introduce themselves. Remind the elder of where she is when visiting an unfamiliar physician or dentist.
Not enough physical activity	Walking, exercise of any kind.



Slide 37

Medications and Conditions That Can Cause Delirium

- Anticholinergic - antihistamines, antipsychotics, antispasmodics, antiparkinsonian agents
- Decreased cerebral bloodflow – antihypertensives, antipsychotics
- Depression of respiratory system
- Fluid and electrolyte alterations
- Altered thermoregulation
- Acidosis
- Hypoglycemia
- Hormonal disturbances
- Depression



Slide 38

Caution

With the close link between medications and delirium, whenever an elder experiences a change in mental status, think of medication as a probable cause. Over-the-counter medications must be considered, because they are often the cause of medication interactions.

Questions that must be asked include the following:

1. Is it likely that one or more medications are causing the behavior?
2. Can any medications be eliminated?
3. Can any doses be lowered?

Slide 39

High Risk Medications for Delirium


- Pain Medications
 - NSAIDs (Aleve, Ecotrin, Motrin)
 - Opioids (Codeine, morphine, fentanyl, methadone)
- Anticholinergics (atropine, diphenhydramine)
- Corticosteroids (hydrocortisone, prednisone)
- Dopamine agonists (amantadine, levodopa)
- Antidepressants - (Zoloft, Paxil)
- Sedative-hypnotics (Ambien)




Slide 40

Dementia and Delirium

- Differences:
 - Elder with dementia is alert but disoriented
 - Elder with delirium
 - Restless
 - Lethargy
 - Hallucinations
 - Paranoia
 - Poor attention span




OHCA OCAL OCID

Slide 41

Delirium is Treatable


- Medications
 - Mood stabilizers
 - Drugs that affect dopamine and serotonin
- Memory Cues
 - Calendars
 - Clocks
 - Family photos
- Environment
 - Room quiet and well lighted during day
 - Enlist family
 - Evaluate vision and hearing
- Avoid use of restraints



OHCA OCAL OCID

Slide 42

Dementia




OHCA OCAL OCID

Slide 43

Dementia Assessment

- BIMS – Brief Interview for Mental Status
 - Part of MDS3.0 for residents that can be understood
 - Excellent reliability
 - 64% reported that BIMS led them to observe new delirium behaviors that differed from those in the medical record




OHCA OCAL OCID

Slide 44

Stage 3 and Stage 4 Dementia

Stage 3	Stage 4
<ul style="list-style-type: none">• Problems with right word or name• Difficulty remembering material just read• Increased trouble planning and organizing• Losing or misplacing valuable objects	<ul style="list-style-type: none">• Forgetfulness of recent events• Difficulty performing challenging mental arithmetic• Forgetting one's personal history• Moody or withdrawn




OHCA OCAL OCID

Slide 45

Stage 3 and Stage 4 Dementia


Stage 3	Stage 4
<ul style="list-style-type: none">• Problems with right word or name• Difficulty remembering material just read (hyperactive delirium)• Increased trouble planning and organizing (Depression)• Losing or misplacing valuable objects	<ul style="list-style-type: none">• Forgetfulness of recent events• Difficulty performing challenging mental arithmetic (depression, hyper or hypoactive delirium)• Forgetting one's personal history• Moody or withdrawn (hypoactive delirium, depression)



OHCA OCAL OCID

Slide 46


Dementia vs. Delirium		
	Dementia	Delirium
How does it start?	Slowly	Quickly
How does it develop?	Step by step	Changes quickly
How long does it last?	Years	Days to weeks
Attention	Normal until severe dementia	Poor
Can it be cured?	Rarely	Usually
Physical Movement	Often normal	Fidgety, restless
Alertness	Normal until severe dementia	Poor

 **OHCA OCAL OCID**

Slide 47


Leaving a Trail

- Documentation – Which is better?
 - “Mr. Jones was confused”
 - “Mr. Jones was confused and disoriented when seen at 10 a.m. He was unable to stay focused in order to name the days of the week backwards. His speech does not make sense. He is not able to answer orientation questions and does not recognize pictures of family members.”

 **OHCA OCAL OCID**

Slide 48


Depression

 **OHCA OCAL OCID**

Slide 49

Depression

- Up to 40% of nursing home residents – underdiagnosed and treated
- Up to 40% of people with Alzheimer's disease experience depression
- Significant depressive symptoms affect up to 20% of elderly adults at large
- Associated with poor outcomes relating to underlying medical problems – increased suicide risk
- 25-50% of post stroke patients meet criteria for major depressive disorder
- Parkinson's, coronary artery disease, cancer – higher incidence of depression



OHCA OCAL OCID

Slide 50

Assessing for Depression

- Within 2-4 weeks after admission
- Every 6 months thereafter
- Use clinically accepted tool
 - Geriatric Depression Scale
 - Beck Depression Inventory
- MDS3.0 and OASIS
 - PHQ 2 – OASIS
 - PHQ 9 - MDS3.0



OHCA OCAL OCID

Slide 51

Depression Signs and Symptoms

- Agitation or irritability
- Feeling "down" or "blue"
- Loss of interest or pleasure in activities once enjoyed
- Changes in appetite—eating more or less
- Weight loss or gain
- Trouble sleeping or sleeping too much
- Agitated movements or slow movements
- Lack of energy
- Feeling worthless or guilty
- Trouble concentrating or making decisions
- Thoughts of death or suicide



OHCA OCAL OCID

Slide 52

Depression Signs and Symptoms

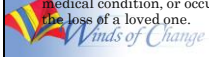
- Agitation or irritability (Stage 6)
- Feeling "down" or "blue"
- Loss of interest or pleasure in activities once enjoyed
- Changes in appetite—eating more or less (Stage 5)
- Weight loss or gain
- Trouble sleeping or sleeping too much (Stage 6)
- Agitated movements or slow movements
- Lack of energy
- Feeling worthless or guilty
- Trouble concentrating or making decisions (Stage 4)
- Thoughts of death or suicide

 **OHCA OCAL OCID**

Slide 53

Major Depression


- One of the symptoms must be either depressed mood or loss of interest.
- Symptoms should be present daily or for most of the day or nearly daily for at least two weeks
- Depressive symptoms must cause clinically significant distress or impairment in functioning
- Symptoms cannot be due to the direct effects of a substance -- drug abuse, medications, or a medical condition, or occur within two months of the loss of a loved one.

 **OHCA OCAL OCID**

Slide 54

Other Depressions

- Regular or Typical
 - pervasive sadness
 - pattern of loss of appetite
 - difficulty fall or staying asleep.
- Atypical depression include:
 - Overeating
 - Oversleeping
 - Fatigue
 - Extreme sensitivity to rejection
 - Moods that worsen or improve in direct response to events

 **OHCA OCAL OCID**

Slide 58