

#### Your Speakers

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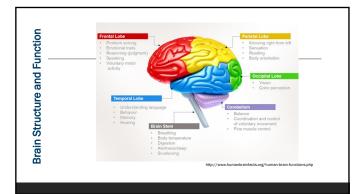
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#### Objectives

- 1) Review the types and stages of dementia
- 2) Review methods for identifying triggers for behaviors associated with dementia.
- 3) Discuss non-pharmacologic approaches to mitigating behaviors
- 4) Discuss pharmaceutical approaches to mitigating behaviors associated with dementia

### Types and Stages of Dementia

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# Alzheimer's Dementia Dr. Aloysius Alzheimer 1864-1915

•	1906 - Dr. Alzheimer described the case of	а
	51 year-old female with cognitive loss	

- The disease was considered rare and thought to be found only in people under 65

  Dr. Alzheimer examined this patient's brain and discovered amyloid plagues and other changes that now characterize this disease
  - Depression
- Incontinence
- Memory loss
- Delirium
- Cognitive loss
- Hallucinations
- · Gait problems

#### Alzheimer's Dementia

- Major risk factor is age:
  60-65: 1 in 100
  70-75: 1 in 25

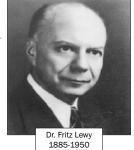
  - 80-85: 1 in 6 90-95: 1 in 3
- Other risk factors:

  - Utner risk factors:
    Gender (women > men)
    Family history of AD or other neurodegenerative diseases
    Cardiovascular or Cerebrovascular risks
    HTN
    DM
    Race (2-4x more common in AAs)

  - Head injury
     Low education

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**Lewy Body** Disease



- 1912 During the study of Parkinson's patients
  - Small "bodies" containing fibrils were noted as the pathological cause of Parkinson's
  - Dementia due to Lewy bodies was first described in 1962
  - The dementia was named after Dr. Lewy in 1962



#### Lewy Body Disease

HOW IT STARTS

Appearance is a mixture of Parkinson's and Alzheimer's

Lewy Body Dementia patients are very sensitive to some medications

Early presence of visual hallucinations

Fluctuating confusion

Early incontinence

Less memory issues than Alzheimer's patients

Sub-cortical dementia Capgras Syndrome

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Frontotemporal Dementia or Pick's Disease



1892 – Dr. Arnold Pick described a condition that consisted of alterations in judgement, abstract reasoning, and behavioral disinhibition     Tau tangles     4 <sup>th</sup> most common dementia     Often misdiagnosed as Alzheimer's		Dr. Allan Zarkin
Sympt		
Frontal and Temporal atrophy Early Behavior, Language and Eating disorders Behavioral decline	Child-like behavior initially Apathy Irritability May still score well on cognition tests	LAZ
http://www.nytimes.com/2000/01/22/nyregion/doctor-carved-	his-initials-into-patient-lawsuit-says.html	Acres

#### Frontotemporal Dementia

DEMENTIA

DAMAGE

- •Was thought to be rare at one time
- •Found in younger patients ·Scans show lobular atrophy
- in their protocols
- •Studies often don't include Pick's patients

- •Pseudobulbar affect
- ·Changes in personality
- Inability to read emotions
- •Disinhibition
- •Agitation-apathy

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#### Review Methods to **Evaluate Behaviors**

## Evaluating Behaviors -Evaluate reasons behaviors occur -Gain attention and trust -Use closed-ended questions -Make direct eye contact -Address by name -Eliminate distractions -Be aware of body language, facial expression, and tone of voice -Speak slowly -Speak in short sentences -Wait for a response -Wait for a response -Help develop relationships with you and others -Use visual demonstration and tactile cues -Use nouns (shirt, toothbrush, chair) and avoid pronouns (he, she, they, it) -Use consistent cues/instruction -Use the visual field -Anticipate needs

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#### **Evaluating Behaviors**

Behavior is communication

. Pain

II. Fear

III. Loss of sense of self

IV. Unmet need

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#### Documentation Techniques

#### **Documentation Techniques**

- 1. DICE (Describe, Investigate, Create, Evaluate) method
- 2. Who, What, Where, When, Why, and How
- a) Consider triggers
- b) include chart review
- c) Identify non-pharmacologic interventions
- d) Monitor and observe interventions

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#### Review Methods to Minimize Behaviors

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#### Methods to Minimize Behaviors

- If able, come back later.
  Listen, validate, and provide support.
  Incorporate interests and engage in activities.
  Follow routines.
  Gain trust and agreement.
  Allow to make choices.
  Check for pain.
  Help the individual develop relationships with you or others.
  Minimize time left alone.
  Anticipate and meet needs.
  Reduce stressors.

#### Pharmacological Interventions

WHEN NON-PHARMACOLOGICAL METHODS DON'T WORK . . .

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Recommended Algorithm for Management of Neuropsychiatric Symptoms of Dementia IM, Holden KF, Yaffe K. Pharmacologica nent of Neuropsychiatric Symptoms of ntia A Review of the nce. JAMA. 2005;293(5):596–608. I.1001/jama.293.5.596

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#### Pharmacological Interventions

- Only Appropriate for:Psychosis
- Depression
- Anxiety
- $^{\circ}\,$  There are  $\underline{no}$  drugs with an FDA approval for treatment of BPSD (Behavioral and Psychological Symptoms of Dementia)
- Used off-label

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	Psychosis	
	Typical Antipsychotics	
	<ul> <li>No evidence of benefit of one over another</li> <li>Concern with EPS</li> </ul>	
	Black Box warning	
	Atypical Antipsychotics  Risperidone and Olanzapine have the most support in randomized controlled trials (RCTs)	
	side effects, BBW	
	Start low – Go Slow	
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	Psychosis	
	Pimavanserin	
	Indicated for Psychosis associated with Parkinson's Disease	
	Seroquel 25mg	
	Frequent admission from Hospital with a bedtime order	
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	Depression	
	Antidepressants  • Celexa has the most support in RCTs	
	<ul> <li>SSRIs as a class were found beneficial for depression in dementia patients</li> </ul>	
	<ul> <li>Trazodone 12.5mg-25mg sometimes works in place of an antipsychotic or benzodiazepine for agitation and anxiety</li> </ul>	

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#### Benzodiazepine

- Limited studies in the treatment of NPS
- Significant cognitive impairment, falls, sedation
- $_{\mbox{\scriptsize o}}$  Limit use to  $\underline{\mbox{\scriptsize acute}}$  behavioral crisis

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#### Anticonvulsants

#### Valproic Acid

- Studies have not shown benefit
- Increased risk of mortality

#### Carbamazepine

• Only small studies for agitation

#### Side Effects

 ${\scriptstyle \circ}$  Hepatitis, Pancreatitis, blood work changes

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#### Cholinesterase Inhibitors and Memantine

Primary treatment for Alzheimer's Disease

- $\,^{\circ}$  There is some study support for benefit to BPSP a VERY small reduction Side Effects
- GI side effects
- Bradycardia

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• Utilizing an appropriate pain scale and treatment for pain may result in decreased agitation and BPSD

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#### Drugs to avoid in dementia

Side Effects of Anticholinergic Medications

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#### Diphenhydramine (Benadryl)

- Antihistamine
- Anticholinergic "dries you up"
- Anticholinergic side effects are: Dry Brain – confusion

Dry Mouth - can't eat

Dry Eyes - blurry vision

Dries up urine – urinary retention Dries up bowels - constipation

■ Better choice is Trazodone 50 mg po qhs for insomnia

As a comparison, in another study of NH residents, drug levels in excess of 0.83 ng/ml of atropine equivalents were shown to have a significant effect on the capacity for self care in demented elders.

underestimate antimuscarinic effects since potentially active metabolites of each parent compound were not assayed.

TABLE 1. Anticholinergic Drug Levels in 25 Medications Ranked by the Frequency of Their Prescription for Elderly Patients

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#### Mood Stabilizers

#### Mood Stabilizers

- ∘ Valproate didn't appear to be effective for NPS of dementia
- Shown to have many more adverse reactions than placebo
- · Carbamazepine
- Not recommended due to lack of evidence
- · Black box warning
- Drug interactions
- Lithium
- No published RCTs

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Key Takeaways . . .

#### BPSD is

- · Prevalent
- · Can be Severe
- Burden for Caregivers
- Difficult to Treat
- Impairs Quality of Life

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#### Where Do We Go From Here?

Is there Danger?

Start with Non-pharmacological Treatments

Then  $\ldots$  Choose wisely

· Start Low - Go Slow

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