Cheatography

Alzheimer Disease Cheat Sheet by RUUUU (ruuuu538) via cheatography.com/180027/cs/38049/

Etiology

Cortical atrophy and loss of neurons

Risk Factors

- Age: prevalence doubles for every decade after age 60
- · Family history: genetic
- mutations
- Gender: more common in women
- Exposures: head trauma, high cholesterol, lack of mental stimulation

Pathogenesis

- Neurofibrillary tangles and amyloid plaques
- Amyloid plaques form from imbalance of production and removal of amyloid beta
- Decreased cholinergic transmission
- o Decreased acetylcholine production
- Results in the noticeable
 atrophy

Manifestations

Complications

- Related to declining cognitive function
 Bowel and bladder incont-
- Bower and bladder incontinence
- Depression
- Falls [hip fractures @ high risk]
- Infections
- Malnutrition and dehydration
 [forgetting to eat & drink]

Diagnosis

- Not definitive until after death Requires a brain biopsy or
- Presumptive diagnosis based
- on:

Review of symptoms with patient and family

- Cognitive tests (MMSE, minicog, etc.)
- Imaging: CT, MRI, PET To rule out other pathology

Treatment

- No definitive treatment or cure
- Medications may slow progression
- Other meds to control some
- symptoms (depression, sleep

described using four words that begin disturbances, agitation) with A:

Amnesia Aphasia Apraxia Agnosia

Alzheimer disease has also been

- Loss of short-term memory
- Difficulty with language
- Behavioral changes
- 7 stages of progressive
- degenerative changes

Stages of Alzheimer Disease Progression

a da anti-	
Preclinical:	Stage 1
changes in brain	(mild)
that do not result in	detected
noticeable signs/-	w/
symptoms	screening
	tool
Stage 2 (moderate)	Stage 3
pronounced	(Severe)
changes	

Preclinical

changes in brain that do not result in noticeable signs/symptoms

o can last for years

Stage 1 (mild)

Can be detected w/ the use of screening tools

o Coming up with the right word or name.

- o Remembering names when introduced to new people.
- o Having difficulty performing tasks in social or work settings.o Forgetting material that was just read.

o Losing or misplacing a valuable object.

o Experiencing increased trouble with planning or organizing. o If identified, this is the stage where they should be placing

things in order in the event it progresses fast Financial situation, POA,

medical directives, living situation, etc.

Stage 2 (moderate)

o Being forgetful of events or personal history.

o Feeling moody or withdrawn, especially in socially or mentally challenging situations.

o Being unable to recall information about themselves like their address or telephone number, and the high school or college they attended.

o Experiencing confusion about where they are or what day it is.

o Requiring help choosing

proper clothing for the season or the occasion.

o Having trouble controlling their bladder and bowels.

o Experiencing changes in sleep patterns, such as sleeping during the day and becoming restless at night.

o Showing an increased

tendency to wander and become lost.

o Demonstrating personality and behavioral changes, including suspiciousness and delusions or compulsive, repetitive behavior like hand-wringing or tissue shredding.

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Stage 3 (Severe)

o Require around-the-clock assistance with daily personal care.

o Lose awareness of recent experiences as well as of their surroundings.

o Experience changes in physical abilities, including walking, sitting and, eventually, swallowing

 o Have difficulty communicating.
 o Become vulnerable to infections, especially pneumonia.

Drugs Used to Treat Alzheimer Disease

Cholinesterase Inhibitors

Prototype: Donepezil

prevent the breakdown of the neurotransmitter acetylcholine

o Reversible cholinesterase inhibitor that causes elevated levels of acetylcholine (ACh) in the cerebral cortex which slows the neuronal degradation of Alzheimer disease o Not a cure it ONLY improves cognition & memory o Slows effects of Alzheimer's but will NOT stop the disease o Adverse effects: insomnia, fatigue, rash, N/V/D, dyspepsia, abdominal pain, muscle cramps

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N-Methyl-D-aspartate (NMDA) Antagonist

Protype: **Memantine** o Memantine is used to treat moderate-to-severe Alzheimer's disease, especially for people who are intolerant of or have a contraindication to cholinesterase inhibitors o A dysfunction of glutamatergic

neurotransmission, manifested as neuronal excitotoxicity, is hypothesized to be involved in the etiology of Alzheimer disease.

Adverse effects:

- o Confusion
- o Dizziness
- o Drowsiness
- o Headache
- o Insomnia
- o Agitation o Hallucinations
- o Less common adverse effects

include vomiting, anxiety, hypertonia, cystitis, and

increased libido. antagonizes (inhibits) NMDA

(glutamate) receptors

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