

Elderly care DEMENTIA – "Challange of the future"

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Ever

https://www.youtube.com/watch?v=sEIDPbiQXtM&t=29s

Memo

https://www.youtube.com/watch?v=CyGGpsbN55A

Still Alice

https://www.youtube.com/watch?v=ZrXrZ5iiR0o

Epidemiology By 2030, Project 81 million with dementia



35.5 million people worldwide have dementia

Source - "Dementia: a public health priority" report, World Health Organization and Alzheimer's Disease International

DEMENCIA SYNDROME (DSM-IV.)

- 1. Syndrome (Multiplex cognitive deficit)
- Memory +
- Judgement
- Attention
- Perception
- Thinking, deceison-making
- 2. Deterioration in cognitive abilities severe enough to interfere with everyday life



Progressive brain failure.

3. Syndrome can be explained by a dectected or presumable organic reason

Symptomes of dementia

- Cognitive symptomes
 - Memory problems
 - Afasia
 - Apraxia
 - Agnosia
 - Executive operations,

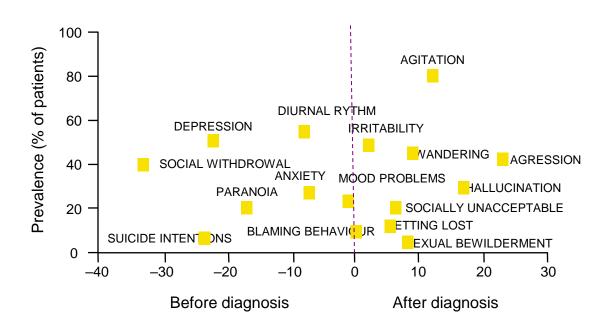
Neurological symptomes:

Trouble walking Incontinence Extrapyramidal disturbances

Non-cognitive symptomes

- Affectiv problems
- Hallucinations
- Delusion
- Motivation problems
- Agitation
- Agressivity
- Personality changes

Psychotic symptomes in dementia



Jost BC, Grossberg GT. J Am Geriatr Soc. 1996;44:1078-1081.

Incidence

- 1. Alzheimer's (60 %)
- 2. Vascular, e.g., stroke, embolus (17-20 %)
- 3. Lewy body (10 − 13 %)
- 4. Frontotemporal (rare, younger people)
- 5. Parkinson disease
- 6. Alcohol caused dementia

Risk factors (AD)

- Advanced age, femal gender
- APOE-4 genotype
- Obesity
- Insulin resistency
- Vascular factors
- Dyslipidaemia
- Hypertonia
- Inflammatory markers
- Down syndrome
- Traumatic brain injury

Preventive approach

PROGNOSIS

Protective	Non protective	
Female	Male	
Higher education (> 8 years)	Early language problems or behavioral- psychotic symptomes	
No posture symptomes	Posture symptomes	
No loss of 3 points in MMSE/year	More than 3 points loss in MMSE/year	
Marital status: married, relationship	Marital status: single, widow	
Residency: home	Residency: nursing home	
Apo E 2/2 genotype	Apo E 4/4, 3/4, 2/4 genotype	
Mediterranien diet	Malnutrition or obesity	
Regular physical activity	Poor physical activity	
Good health status	Comorbid conditions	

Diagnostic guidelines - Role of GP

- Common early symptoms
- Memory problems, particularly for recent events
- Increasing confusion
- Reduced concentration
- Personality or behaviour changes
- Apathy and withdrawal
- Depression and loss of ability to do everyday tasks
- Preliminary tests
- MMSE
- Clock drawing test
- TYM-test
- GPCog
- Geriatric Depression Scale

Timely recognition

Time
Patience
Circumstances
Experience

Diagnostic guidelines

- Potentially reversible cognitive impairment
- Hypothyreosis → Exhaustion, constipation, obesity, bad cold tolerance
- B12-vitamin deficit → Asc. paresthesia, tongue pain, weight loss
- Hypo- or hypercalcaemia → Constipation, nausea, dehydration
- Norm. pressure hydrocephalus → Wide-shuffling walk, incont.
- Drug Side effects → Psychoactive agent, anticholinerg agent
- Depression → Lethargy, despair, slow speach
- Subdural hematoma → Trauma 3 months, head ache, convulsion, hemipar.
- Wernicke-Korsakoff sy.
 → Alcohol disease, nystagmus, wide walking
- Delirium → Hospital or acut dis., change in state of mind
- HIV → Hiperreflexia, incoordination, neuropathy
- Neurosyphilis → Papilla deviation, decreased proprioception

Diagnostic guidelinesRole of specialists

- Structural brain imaging (CT, MR)
- Specific preauthorisation in order to have the dementia medication reimbursed
- Multidisciplinary dementia team
 - Geriatric psychiatrist
 - Geriatrician
 - Psychiatric nurse
 - Clinical psychologist
 - Medical social worker
 - Occupational therapist
 - Physiotherapist
 - Speech and language therapist
 - Neurologist

Disclosing the diagnosis SPIKES-model

Preparing

Exploring patient perspectives

Involving the family

Sharing the diagnosis

Communicating effectively

Responding to patient reactions

Focusing on quality of life

Planning for the future

Setting

Perception

Invitation

Knowledge

Empathy

Strategy

Stages

1. Mild dementia

- Mild cognitive impairment (MCI)
 - It does not yet meet the criteria for dementia
 - Neuropathological processes exist decades earlier
 - 10-15 % /year → AD
- Still function independently
- Memory loss and slight personality change
- Known words, names do not come to mind describes
- Forget the location of objects or what just read
- Increasing difficulty in planning and organization
- Decision making ability is still adequate

Stages

2. Moderate dementia

- The longest period, can last for years
- Worsening of previous symptoms
- Needs more and more help and supervision
- Decline in personal hygiene (urinary incontinence)
- Impairment of personal, spatial and temporal orientation
- Personality and mood change worsen
- Behavior changes
- Increased risk of getting lost
- Sleep disorder (daytime sleep and nighttime restlessness)

Stages

3. Severe dementia

- Loose their independence
- Need constant supervision and full care
- Become restricted in their movement
- Develop difficulty in swallowing
- Difficulties in communication
- Increased risk of aspiration pneumonia and aspiration asphyxia
- Increased risk of cachexia, dehydration, ischemic heart attack and pulmonary embolism

Palliative stage

- Advanced Care Planning
- Hospitalization
- Medication
- Nutrition, hydration
- Pain relief

Dementia case

BREAK OUT ROOMS
Small group session
7-8 minutes

Answer questions in big group

Dementia case 1.

- 76 years old women
- Symptomes started about 8 years ago: Strange behaviour. Became unambitious. Collected cats with no hygiene, ate with them together.
- Poor memory for 7-8 years
- Time, place, person desorientation for 5-6 years
- Lived with his son and his family. Cared by her doughter-in-low.
- Neurology.: Alzheimers disease

- 2012. 03.: Bronchitis acuta hospitalization.
- 2012.03.: Intensive Care Unit.: Clostridium diff. infection, PEG tube insertion, Decubitus
- 2012.04.: Taken home. extremely cachected, helpless, unable to communicate, needs 24 hours care!
- Medications: Antyhypertensive medication (in food) and LMWH

Emerging problems

- Early diagnosis? Advanced care planning
- Hospitalization? Vs. Palliative care?
- Effective dementia therapy?
- Social status of the family, financial problems?
- Family support ?
- Nurse car, financing?
- Organization of specialist support ?
- Transport, ambulance timing and financing problems!

Challenging Decisions

- In last 3 months of life, 40.7% with advanced dementia experienced at least one of
 - Emergency visit
 - Hospitalization
 - Feeding tube
 - Parenteral therapy

Decision making in time!

ADVANCED CARE PLANNING

- With family members
- TIMING!
- Decision making of health care professionals (Crisis situation-Hospitalization-Reanimation)
- Right to self-determination (Hungary: 1997. évi CLIV törvény 20-23. §-a és a 117/1998. (VI.16.) sz. Kormányrendelet)
- "Living will" (1998, 2014)
- Foundation of end-of-life planning http://eletveg.hu/segedletek/

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Hospitalization

Resuscitation: Unwitnessed arrest outside hospital, survival is 0.8 %

Almost 0 discharged alive

Pneumonia: No clear evidence or consensus of antibiotic effectiveness

- No improved functionality
- −Hospitalization may ↑ mortality

Enteral or Parenteral Feeding

- Facts versus emotion
- No improvement functional status or survival, timing not a factor

Does Feeding Tube Insertion and Its Timing Improve Survival?

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JAGS 2012

OBJECTIVES: To examine survival with and without a percutaneous endoscopic gastrostomy (PEG) feeding tube using rigorous methods to account for selection bias and to examine whether the timing of feeding tube insertion affected survival.

DESIGN: Prospective cohort study.

SETTING: All U.S. nursing homes (NHs).

PARTICIPANTS: Thirty-six thousand four hundred

Dementia is a leading cause of death in the United States. Dying from dementia is characterized by eating problems, malnutrition, and recurrent infections. Nearly 90% of persons with advanced dementia develop eating problems. Whether to insert a percutaneous endoscopic gastrostomy (PEG) feeding tube is one of the sentinel decisions facing families and healthcare providers of

Hydration

- Dehydration vs. thirst
- Hydration in cachexia → harm
 - Peripheral edema
 - Pulmonary edema, shortness of breath

Continue Medications?

- Statins
- Anti-hypertensives
- Bisphosphonates
- Anti-coagulants

Dementia Medications

- Continue if clinic benefit
- If Mini-Mental Status Exam:
 - < 10, stop Cholinesterase inhibitors</p>
 - -< 3, stop Memantine</p>
- 80 % US hospice medical directors recommend stopping on admission
 - However, 30 % observed accelerated cognitive and functional decline

PAIN RELIEF

- Difficulties in recognition and therapy of pain
- Detailed history taking
- Analysis of behavioral signs
- PAINAD scale

PAINAD scale (Pain assessment IN advanced dementia)

Behavioral signs	0 point	1 point	2 point
Breathing	Normal	Ocassional labored breathing. Short period of hyperventilation	Noisy labored breathing. Long period of hyperventilation, Cheyne-Stokesrespirations
Negativ vocalisation	No	Ocassional moan or groan. Low level speach with a negative or a disapproving quality	Repeated troubled calling out. Loud moaning or groaning. Crying
Facial expression	Smiling or inexpressive	Sad, frightened, frown	Facial grimacing
Body language	Relaxed	Tense. Distressed pacing. Fidgeting	Rigid. Fists clenched,knees pulled up. Pulling or pushing away, striking out
Consolability	No need to console	Distracted or reassured by voice or touch	Unable to console, distract or reassure
Total points:	0-10, higher result shows	bigger pain	

BURDEN OF CARE

- Burden of care: 24 / 7 / 365
- Months to years
- High costs
- Carer may lost future
- Stress, frustration
- Needs
 - Education
 - Support

Alzheimer Café network in Hungary (2014-2018)





Alzheimer Café Pécs





Summary

- Dementia internationally
- Management requires an interdisciplinary team
- High caregiver burdens, costs, burnout
- Advance care planning essential
- Help everyone cope with loss







Thank you for your attention!