

# The Chinese University of Hong Kong The Nethersole School of Nursing CADENZA Training Programme

**CTP 004 – Dementia: Preventive and Supportive Care**

## Web-based Course for Professional Social and Health Care Workers

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# CHAPTER TWO

## **Manifestations of dementia: physical, behavioral and psychosocial perspectives**



# Outline



- Cognitive impairment in dementia
- Behavioral and psychological symptoms of Dementia (BPSD)
- Physical impairment in dementia
- Impact of dementia on quality of life of older people
- Needs assessments for older people with dementia

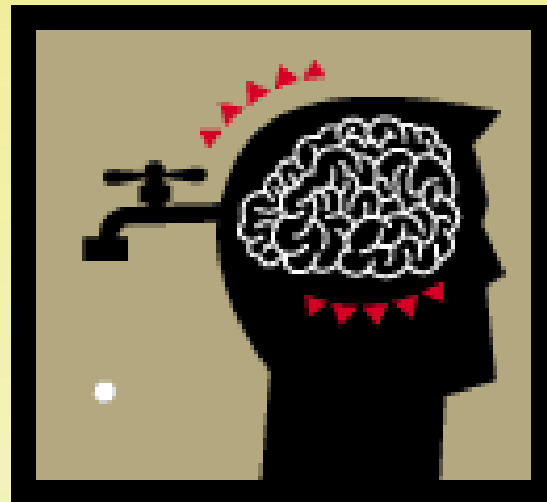


# Introduction

- Dementia is a syndrome characterized by cognitive and non-cognitive symptoms
- As the disease progresses, physical symptoms also reveal
- All symptoms cause significant impacts on the quality of life
- Importance of recognition and in-depth knowledge on how to assess the above symptoms so as to facilitate care planning



# Cognitive impairment





# Cognitive impairment

1. Memory function
2. Attention and concentration
3. Orientation
4. Executive function
5. Perception
6. Language
7. Motor execution

# Cognitive impairment –

## 1. Memory function

- **Memory function**

- Ability to register, store and recall memories involves different aspects of cognition

- Dementia affects nearly all aspects of memory function

- Episodic memory
  - Short/long term memory
- Remote memory
- Working memory
- Prospective memory
- Semantic memory



# Cognitive impairment – Episodic memory

- Short-term memory



- Recall of material or event after a period of up to 30 seconds

- Dementia-related impairment



- Usually occur in patient with Alzheimer's disease (AD)
- Connected with difficulty in attention
- e.g. patient may not be able to keep a telephone number in mind while dialing it
- Severe impairment in memorizing recently acquired information



# Cognitive impairment – Episodic memory

- Long-term memory



- Recall of material/event occurs at 30 seconds or longer time (e.g. days, weeks) ago

- Dementia-related impairment



- Impairment in encoding (entering information into memory) or retrieval processes
    - e.g. Recalling lists of words, sentences and stories, recognizing words, faces or pictures

# Cognitive impairment – Remote memory

- Remote memory



- Memory of remote events in one's life
- E.g. where we have lived, names of schools attended

- Dementia-related impairment



- Remote memory for early time periods in one's life may preserve in early stage
- e.g. still remember some important old telephone numbers
- Function declines as the disease progresses and become forgotten in latter stage

# Cognitive impairment – Working memory

- Working memory



- Ability to hold information in a short-term store while carrying out other processing operations
- e.g. having a conversation while driving or preparing a meal

- Dementia-related impairment



- Exacerbated impairment in dual task performance (Grober & Sliwinski, 1991)

# Cognitive impairment – Prospective memory

- Prospective memory



- Remembering to carry out an action at the appropriate time

- e.g. remember to post the letter when walking through the mail box

- **Dementia-related impairment**



- Prospective memory tasks might be very sensitive to the early stages of dementia

- Since prospective memory tasks also involve a retrospective component (remembering what needs to be done) (Huppert et al., 2000)

# Cognitive impairment – Semantic memory

- **Semantic memory**



- Memory of meanings, understandings and other concept-based knowledge unrelated to specific experiences
- E.g. Is a cat an animal?
  - You can probably answer without refer to a learning experience of cat



- **Dementia-related impairment**

- Difficulties in word finding and picture naming
- e.g. patient can distinguish between major categories (animal and tool) but can't distinguish between members of the same category (cat and dog)

# Cognitive impairment –

## 2. Attention and concentration

- Attention



- "Ability to focus one's mind and consciousness on a particular object, task or thought " (Jacques & Jackson, 2000)

- Concentration

- Ability to sustain attention over a period of time


- Dementia-related impairment




- Impaired ability to direct attention to stimulus being interested in
- Easily distracted by irrelevant things
- May 'get stuck' on irrelevant object once attention is gained
- e.g. patient starts to cook a meal but stop in the middle to watch TV

# Cognitive impairment –

## 3.Orientation

- Awareness of time, place and person 
- Involving combination of different brain functions
  - e.g. orientation to time
    - Recent memory of when we last look at the time
    - Sense of passage of time and continuity
    - Long term memory of what usually happen at this time

- **Dementia-related impairment** 
  - Disorientation to time, place or person, or any combination
  - Disorientation increase with increase severity of dementia

# Cognitive impairment – Orientation

## – Spatial disorientation

- Misperceiving immediate surroundings, not being aware of one's setting, or not knowing where one is in relation to the environment
- Lead to fear, anxiety, delusion
- Safety problem
  - Patient may prone to serious accident






# Cognitive impairment –

## 4. Executive function

- Cognitive capacity to plan and perform goal-directed behaviour
  - Think abstractly
  - Make connections among relevant facts
  - Generate logical alternatives in problem situations



- **Dementia-related impairment** 
  - Impairment in different aspects of executive function, e.g. planning, problem solving and judgment
    - e.g. patient may spend whole day searching for a missing recipe and end up with crying without having dinner
  - Difficult to perform more than one task at one time
  - Difficulty in planning and initiation (getting started) to cook a meal

# Cognitive impairment –

## 5. Perception

- **Perception** is the process of attaining awareness or understanding of sensory information



- **Dementia-related impairment**



- **Agnosia**

- Impairment of ability to recognize or identify familiar objects, entities, people or stimulus while the specific sense is not impaired (Colman, 2006; Mahoney et al., 2000)
  - e.g. patient may recognize a pencil as comb, putting iron into fridge, etc.
- Safety hazard if a person puts inedible things in his/her mouth

# Cognitive impairment –

## 6. Language skills

- Dementia-related impairment

Aphasia: loss of ability to use language to communicate

- Trouble in word finding

- Impaired ability to name an object (anomia)

- Speech may be fluent but lacks content, stereotyped



Am I pretty?



.....

# Cognitive impairment –

## 7. Motor execution

- **Dementia-related impairment**



### Apraxia

- Loss of the ability to execute or carry out learned purposeful movements
- E.g. problems remembering how to perform the steps of routine motor tasks such as dressing, walking and eating

# Behavioral and psychological symptoms of Dementia (BPSD)



# Behavioral and Psychological Symptoms of Dementia (BPSD)

- Dementia associated with high prevalence of BPSD
- BPSD is defined as "symptoms of disturbed perception, thought content, mood or behaviour that frequently occurs in patients with dementia" (Finkel & Burns, 1999)
- Simple methods of grouping BPSD
  - **Behavioural symptoms**
    - Observations of the patient
  - **Psychological symptoms**
    - Assessed by interviews with patients and relatives

# Importance of BPSD in dementia patient?

## Physical impact

- Poorer prognosis
- Rapid rate of cognitive decline
- Illness progression
- é impairment in ADL

## Social impact

- Caregiver burden
- Patient institutionalization



é quality of life  
é cost of care

# BPSD

```
graph TD; BPSD[BPSD] --> Behavioural[Behavioural symptoms]; BPSD --> Psychological[Psychological symptoms]; Behavioural --> BehaviouralList["•Agitation  
•Aggressive behaviour  
•Wandering  
•Abnormal vocalization  
•Disinhibition  
•Eating disorder  
•Insomnia"]; Psychological --> PsychologicalList["Psychosis  
•Hallucination  
•Delusion  
•Delusional misidentification  
Depression  
Anxiety  
Apathy"];
```

## Behavioural symptoms

- Agitation
- Aggressive behaviour
  - Wandering
- Abnormal vocalization
  - Disinhibition
- Eating disorder
- Insomnia

## Psychological symptoms

- Psychosis
- Hallucination
  - Delusion
  - Delusional misidentification
- Depression
- Anxiety
- Apathy



# BPSD: Behavioural symptoms

- Agitation
  - Aggressive behaviour
  - Wandering
  - Abnormal vocalization
- Disinhibition
- Eating disorder
- Insomnia



# Behavioural symptoms:

## Agitation


- "Inappropriate verbal, vocal, or motor activity which is not explained by needs or confusion *per se*" (Cohen-Mansfield & Billig, 1986)
- Increased agitation in the afternoon and evening has been documented in patient with dementia
- Manifested by physical or vocal behaviors or both:
  - Aggressive behaviour
  - Physical non-aggressive behaviour
    - e.g. Wandering, restless, pacing
  - Verbally non-aggressive behaviour
    - e.g. abnormal vocalization, constant request for attention

# Behavioural symptoms:

## *Aggressive behaviour*

- An overt act involves delivery of noxious stimuli to another organism, object or self
- **Physical aggression**
  - Assault the others, kicking, biting, grabbing people
- **Verbal aggression**
  - Screaming, cursing, temper outbursts, making strange noises





# Behavioural symptoms:

## *Wandering*

- Tendency to move about in aimless or disorientated fashion, or in pursuit of an indefinable or unobtainable goal (Snyder et al., 1978, Stokes, 1986)



**Attempts to  
Leave home**

**Checking/  
Trailing**

**Pottering**

# Nine key features of Wandering

**Aimless walking**

**Unable to  
get home  
without  
help**



**Walking with  
inappropriate  
purpose**

**Night-time  
walking**

**Excessive  
activity**

**Walking with  
proper  
purpose  
but improper  
frequency**

# Behavioural symptoms:

## *Abnormal vocalization*

- Making noise for
  - No purpose
  - Responding to the environmental stimuli
  - Trying to elicit an environmental response
  - Compensating deafness
  - Seeking attention
- Usually seen in people with dementia in residential setting
- Being referred by care staff as 'shouting', 'screaming' or constant demands for 'attention'



# Behavioural symptoms:

## Disinhibition (1)

- Inhibition is the act or process of restraining or preventing something, (Colman, 2006)
- Disinhibition in dementia is the **loss of inhibition**
  - Speech disinhibition
  - Emotional disinhibition
  - Behavioural disinhibition
  - Sexual disinhibition

# Behavioural symptoms:

## Disinhibition (2)

- Speech disinhibition
  - Difficulty in shifting from one topic to another (phenomenon named "Perseveration") or stuck speech
  - e.g. repeat over and over on a word, a phrase or a story (Jacques & Jackson, 2000)





# Behavioural symptoms:

## Disinhibition (3)

- Emotional disinhibition

- Loss of emotional control
- Emotional lability

- changeability of one or more than one emotion
- e.g. patient loses control with flooding tears on face when someone talk about his/her long-dead relative, but then suddenly change to outburst of anger after a tiny argument

- Emotional incontinence

- Emotional outburst comes completely without warning/causes
- e.g. sudden laugh during a conversation, occur for few seconds and suddenly recover

- Stuck emotion

- Loss of ability to move away from a particular emotion
- e.g. spend most of the day in tears, even she may feel happy at part of the day



# Behavioural symptoms:

## Disinhibition (4)

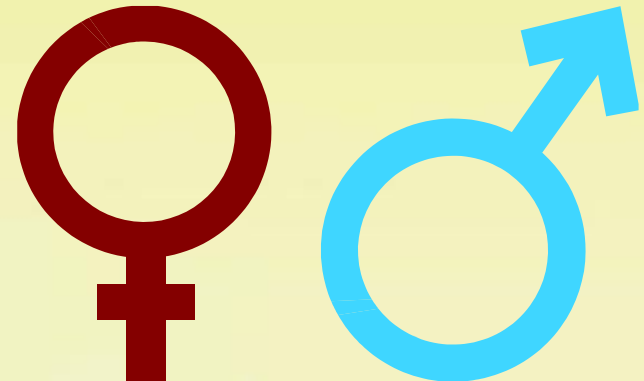
- Behavioural disinhibition
  - Perseveration of action
    - Difficult to change from one action to another
  - Old habits
    - Reappearance of old habitual action
  - Rituals
    - Establish of new repetitive habitual action
  - Dressing and undressing
    - Wearing of eccentric clothes or undress in public
  - Restlessness
    - Increase in energy and activity, cannot stay steady
  - Theft
    - Take others belongings and believe it's belonged to them



# Behavioural symptoms:

## Disinhibition (5)

- Sexual disinhibition
  - Uncontrolled sexual activities or desires
  - Patient may look for sexual contact in a disinhibited way, or even masturbate in a public area.
  - Very embarrassing



# Behavioural symptoms:

## Eating disorder

- Change in preference for sweet foods
- Increase or decrease consumption
- Eating non-food substance
- Often require close caregiver supervision during meals



# Behavioural symptoms:

## Insomina

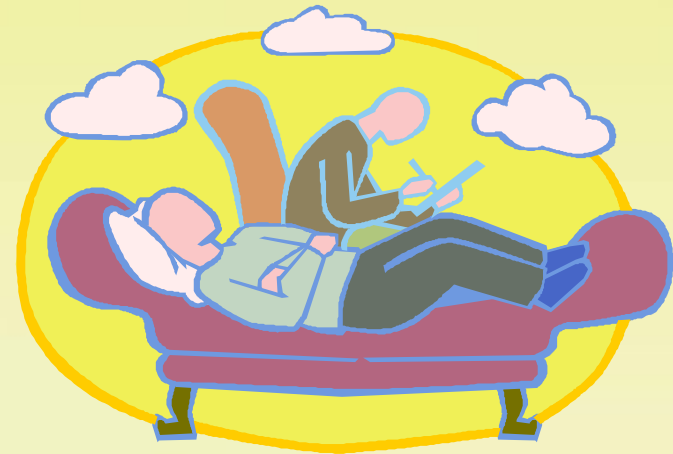
Sleep disturbances due to:

- Loss or damage of the pathways in the suprachiasmatic nucleus
  - Area that initiates and maintains sleep
- Changes in the circadian rhythm
- Increased sleepiness and number of naps in daytime
- Night-time wandering



# BPSD: Psychological symptoms

- **Psychosis**
  - Hallucination
  - Delusion
  - Delusional misidentification
- **Depression**
- **Anxiety**
- **Apathy**



# Psychological symptoms:

## Psychosis

### Hallucination

- Defined as perceptions in the **absence** of a stimulus
- Visual hallucination
  - Most common is dementia with Lewy bodies
  - In form of animals/insects, strangers, relatives in the house, children
- Auditory hallucination
  - Talking voices of other persons
- Olfactory hallucination
  - Sensation of smell



# Psychological symptoms:

## Psychosis

### Delusion

- **False, unshakable ideas** or beliefs that are held with strange conviction and subjective certainty

#### ***Delusion of theft:***

One's possessions are being hidden or stolen

#### ***Delusion of reference:***

belief that somebody is being talked about

#### ***Delusion of persecution:***

Belief that somebody else do harm to somebody

#### ***Delusion of abandonment:***

Belief that someone is going to be abandonment





# Psychological symptoms:

## Psychosis

### Delusional misidentification

- Belief that the identity of a person, object or place has somehow changed or has been altered

#### **Capgras delusion**

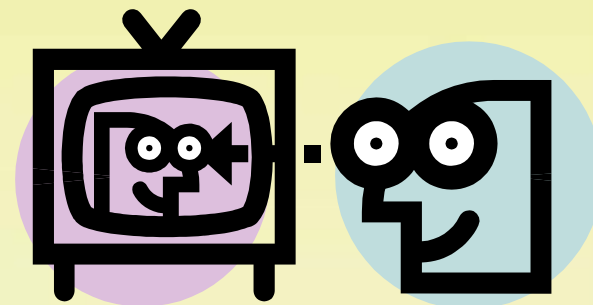
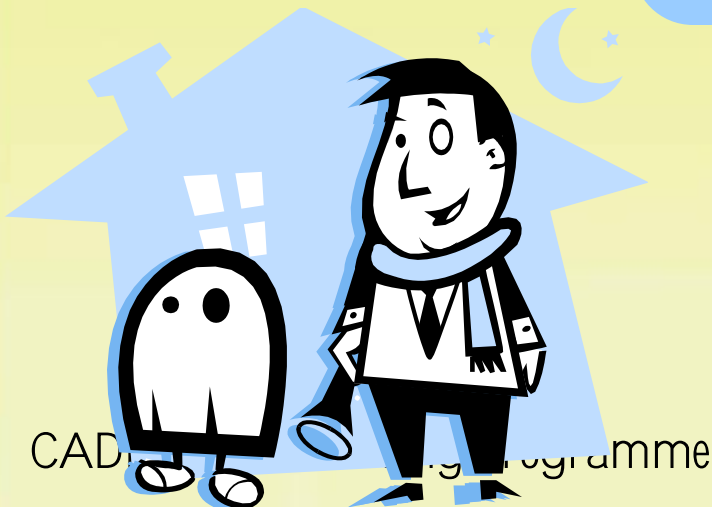
close relative or spouse has been replaced by an identical-looking impostor

#### **Delusional Misidentification of mirror image**

Belief that self-mirror image is somebody else

#### **Delusional Misidentification of TV image**

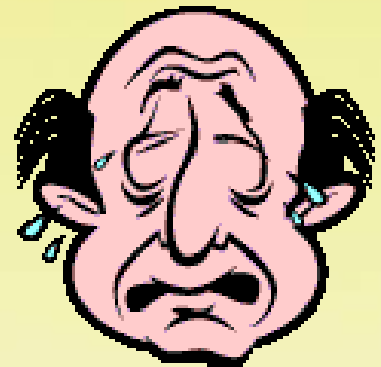
Belief that people on the TV are exists in real space



# Psychological symptoms:

## Depression

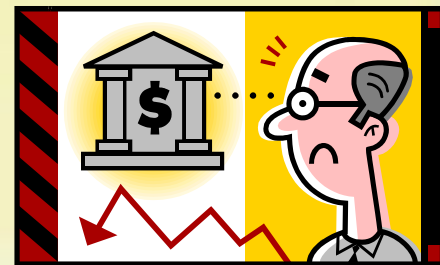
- Psychiatric disorder
  - Pervasive low mood, diminished interest and ability to experience pleasure
  - *Sign and symptoms*
    - Depressed mood, or loss of interest or pleasure in nearly all activities
    - Significant weight loss or gain
    - Sleep disturbance: Insomnia or hypersomnia
    - Fatigue or loss of energy
    - Feelings of worthlessness or guilt
    - Recurrent thoughts of death or suicidal ideation
    - Diminished ability to think or concentrate



# Psychological symptoms:

## Anxiety

- State of uneasiness, accompanied by dysphoria and somatic signs and symptoms of tension
- Patient with dementia may have one or several specific fears or worries
  - fear of losing things
  - fear of getting lost when going outside
  - worry that he/she may cause embarrassment in the public or act without control



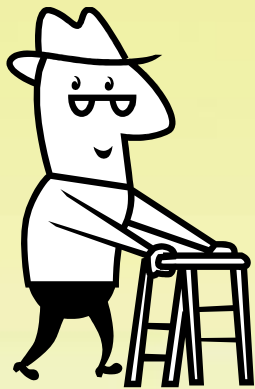
# Psychological symptoms:

## Apathy

- State of indifference: **Lack of interest or concern**
- Appear passive, demonstrate **inattention** to external environment
- e.g. patient not participate in meaningful activity often sits motionless, stares into space



# Dementia manifestation: Physical impairment



# Physical impairment

- Factors affecting physical function in dementia patient
  - Physical factors
    - Dementing process è brain pathology
    - Immobility
    - Medications
  - Cognitive factors
  - Social factors
  - Environment factors



# Physical impairment

- Brain pathology

- Progressive cortical, extrapyramidal systems dysfunction led to neuromotor changes
- Infarct in vascular dementia causing weakness of extremities, gait abnormalities, etc.
- Parkinsonism symptoms of patient with dementia with Lewy bodies
- Progressive cerebral pathology led to inability to walk and even stand



# Physical impairment

- **Immobility**

- Improper use of physical restraints: result in the loss of muscle mass, strength and flexibility
- Deconditioning and loss of endurance due to disuse → decrease in exercise tolerance
- Prolonged sitting or bed rest → limb contractures





# Physical impairment

- Medication
  - Side effects of medications
  - E.g. Neuroleptic drugs for controlling psychosis may induce extrapyramidal side effects
  - *(details will be covered in chapter 3)*



# Physical impairment

- Cognitive factors
  - Recognizing places, things or people (disorientation, agnosia)
  - Difficult to follow instructions
  - Executing a sequence of actions (apraxia)
- May contribute to impairment in ADL functions



# Physical impairment

- Psychosocial factors

- Mood disturbance:

- Depressed mood, anxiety, etc.

- Effect on self-esteem

- May be difficult for older people who are used to be independent without accepting any personal assistance

- Dependency

- The patient may no longer want to perform some activities if they cannot do things in the way that they used to do

- Patient will have low motivation in family and social participation



# Environment factors



- Environment can either support or limit the functional abilities
- Patient with dementia may find tiring and frustrating if the environment is not supportive
  - Even some assistive devices seem helpful, they may need time to read or figure out cues in the environment

<<Refer to Chapter 4: Environmental modification>>

# Impact of dementia on quality of life of older people

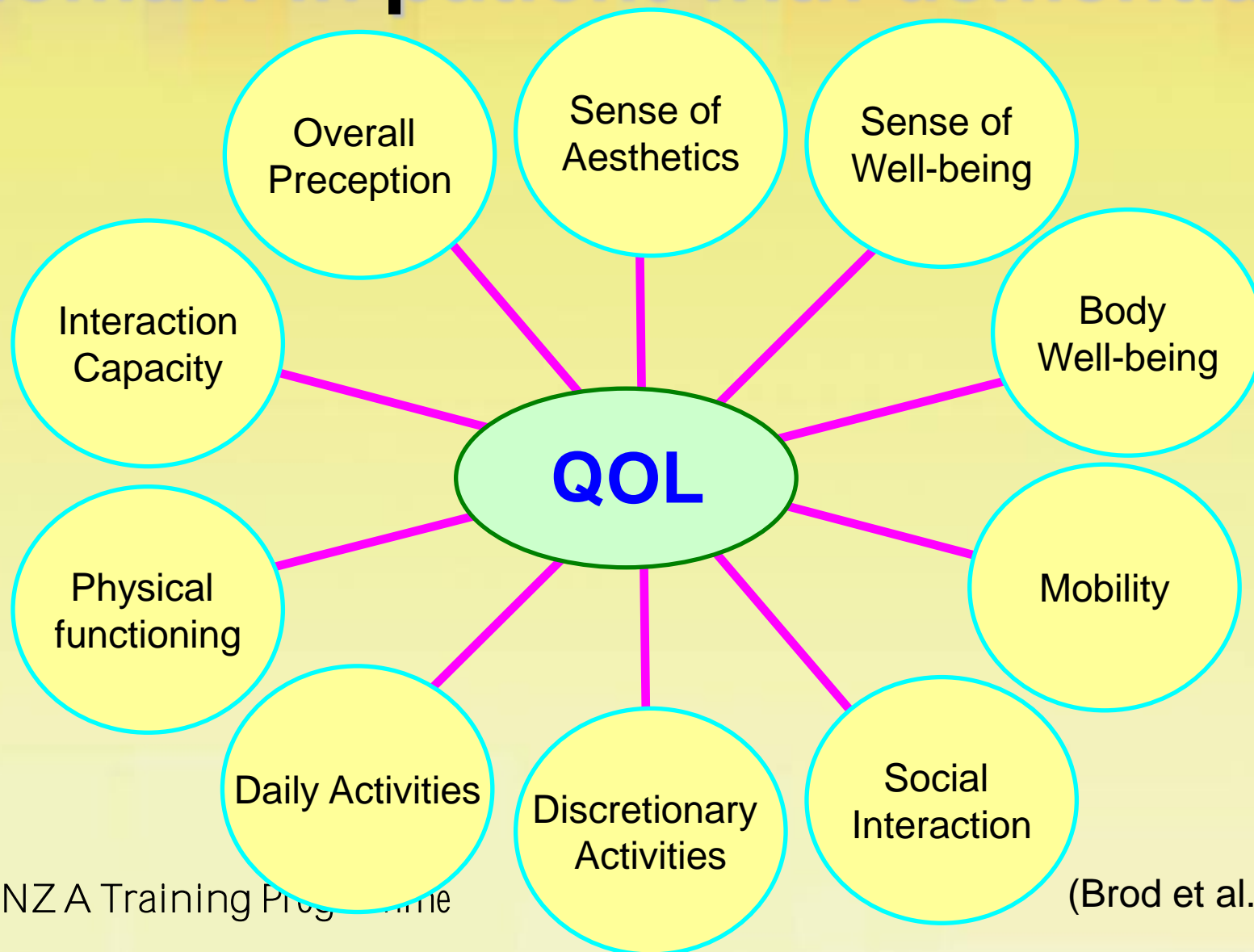




# Quality of life

- “Multidimensional concept encompassing physical, social and psychological domains” (Birren et al., 1991; Carla et al., 2007)
- Has been used to refer to people's overall evaluation of their lives in general or of various components of life (Brod et al., 1999; Cambell et al., 1976)

# Conceptual framework of QoL domain in patient with dementia



# What is being affected in patient with dementia?

- Daily activities
  - Personal self-care
  - ADL
- Physical health
- Psychological well-being
- Cognitive function
- Behaviour
- Social functioning and satisfaction
- Caregiver's perspective





# Measuring QoL in patient with dementia

- QoL is a **subjective, individual experience**
  - Individual assesses and evaluates his/her own QoL based on the degree of importance that he/she gives to each component (Whitehouse and Rabins, 1992)
  - Patients with dementia are no different in performing the measurement
  - Additional time, patience and vigilance required to measure self-reported QoL accurately in patient with dementia
  - **Points to consider:**
    - Subject's ability to comprehend the questions being asked
    - Subject's awareness of his/her internal subjective feeling (Brod et al., 1999)

# Measuring QoL in patient with dementia

- Rating of QoL in patient with dementia
  - Self rating [patient-reported outcomes (PROs)]
    - Mild-moderately severe dementia can be considered good informants of their own subjective states
    - Gold standard in validating new QoL measures
  - Proxy rating and proxy observation scales
    - More severe stages
    - Biased with rater's expectations, mood, burden of care, and the specific relationship with the person being rated

# Examples of QoL scale in dementia

- Dementia Quality of Life Scale (DQoL)
  - 29-item scale which assesses several domains
  - Brod et al. (1999) reported that the scale has good reliability and construct validity

## Domains:

Physical functioning

Discretionary activities

Social interaction

Bodily wellbeing

Sense of aesthetics

Daily activities

Mobility

Interaction capacity

Sense of wellbeing

Overall perceptions

# Examples of QoL scale in dementia

- Quality of Life—Alzheimer's Disease Scale (QoLAD)
  - 13-item, brief, self-report assessment scale
  - Logsdon et al. (1999) and Thorgrimsen et al. (2003) have shown that the scale has very good reliability and validity

## Domains:

Physical Health

Mood

Marriage

Money

Energy

Memory

Friends

Chores

Living situation

Family

Fun

Self and life as a whole

# Quality of life in dementia (Selwood et al., 2004)

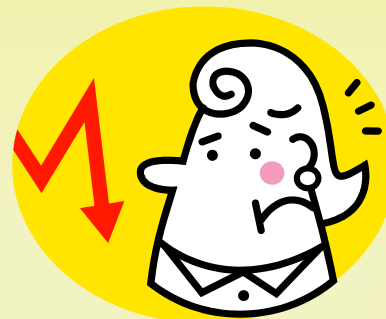
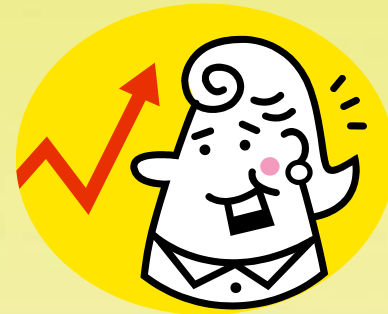
- Aim of study:
  - To study longitudinal change in QoL over a period of one year in people with dementia aged  $\geq 65$  years
- Methods:
  - 60 people with dementia were selected from different settings
  - Outcome measures included following domains:
    - QoL (QoLAD, DQoL), depression, anxiety, cognitive functions

# Quality of life in dementia (Selwood et al., 2004)

- Result:
  - There were no significant differences between baseline and follow-up in any of the QoL scores
  - Significant correlation between QoL and both anxiety and depression score

# Quality of life – other research findings

- Predictors of **higher quality of life** (Hoe et al., 2006; Burgener & Twigg, 2002; Logsdon et al, 1999)
  - Lower level of depression and anxiety
  - Higher level of functional ability
  - Educational level
  - Social contact and activity
  - Less cognitive impairment
  - *Fewer unmet needs*
- Predictors of **lower quality of life** (Ready et al, 2002; Thorgrimsen et al, 2003)
  - Poor physical health
  - Memory
  - Loss of role
  - Increased boredom
  - Loneliness



# Quality of life of people with dementia in residential care homes (Hoe et al., 2006)

- Aim of study (Hoe et al., 2006)
  - To compare the views of residents with dementia with the views of staff as to their QoL
  - To look at factors associated with these ratings
- Methods:
  - Outcome measures include:
    - ADL, cognitive function, behaviour, anxiety, depression, QoL (QoLAD)



# Quality of life of people with dementia in residential care homes (Hoe et al., 2006)

- Results

- There were 119 residents and staff completed the study
- Residents' high QoL score was strongly correlated with less depressed mood and less anxiety, fewer unmet needs
- In contrast, better QoL as rated by staff correlated most strongly with increased dependency and behaviour problems

# Implication of Hoe et al. study

- Ratings of quality of life by dementia residents
  - Influenced most strongly by their mood
- Ratings by staff who cares dementia residents of the latter's quality of life
  - Influenced most strongly by levels of dependency and presented challenging behaviours
- **Poor consensus! !**
- This may indicate a proper need assessment to know patient needs



# Needs assessment for patients with dementia





# Needs assessment for patients with dementia

- Address patient-centered care
- Is a staged process:
- Begins by
  - *Specific difficulty identification*
  - *Assess for any presence and efficacy of current help*
  - *Recognize patient's perceived needs*
  - *Identify intervention to meet the needs*
- Take into account patients, carers and professionals perspectives

# Assessment tools

- Some assessment tools commonly adopted in patient with dementia
  - Physical mobility and balance
    - [Elderly Mobility Scale \(EMS\)](#)
    - Berg Balance Scale (BBS)
  - ADL and IADL
    - Barthel Index (BI)
    - Lawton Index for IADL
  - Cognitive domains
    - Mini-mental State Examination (MMSE)
    - [The Clock-drawing test](#)
  - BPSD
    - [Geriatric Depression Scale \(GDS\)](#)
    - Cohen-Mansfield Agitation Inventory (CMAI)
    - [Neuropsychiatric Inventory \(NPI\)](#)
    - [Cornell Scale for Depression in Dementia](#)





# Formal needs assessment for dementia

- Care Needs Assessment Pack for Dementia (CareNap-D)
- Developed by McWalter et al (1996)
  - Identify the care needs of older individuals with dementia
  - Specify the type of care to meet individual's needs
- 57 activity/behavioural items encompassing within 7 domains



# CareNap-D

**1. Health & mobility**

**2. Self-care and toileting**

**7. Community living**



**CareNap-D**

**3. Social interaction**

**6. Housecare**

**5. Behaviour & mental state**

**4. Thinking & memory**



# Needs of patient with dementia in Hong Kong

- **Local study on 197 community-dwelling older Hong Kong people (Chung, 2006)**
- **Unmet needs fell into 3 domains**
  - Social interaction
  - Thinking and memory
  - Behaviour and mental state
- **Needs related to staging of dementia**
  - **Early stage: memory and thinking**
  - **Middle stage: social interaction and management of behavioural manifestations**
  - **Advance stage: Self-care, thinking and memory, household management & community living**



# Summary

- Patient with dementia suffers from a variety of symptoms
  - Physical
  - Cognitive
  - Behavioural and Psychological
- Affect their QoL
  - Discrepancy between patient's and carer's view of QoL
- Needs assessment is required to know what patients/caregivers really want

# Reference

- Allen, N.H.P., & Burns, A. (1995). The noncognitive features of dementia. *Reviews in Clinical Gerontology*, 5, 57-75.
- Ballard, C., O'Brien, J., Coope, B., Fairbairn, A., Abid, F., Wilcock, G. (1997). A prospective study of psychotic symptoms in dementia sufferers: psychosis in dementia. *International Psychogeriatrics*, 9, 57-64
- Ballard, C., Bannister, C., Solis, M., Oyebode, F., Wilcock, G. (1996). The prevalence, associations and symptoms of depression amongst dementia sufferers. *Journal of Affective Disorders*, 36, 135-144
- Ballard, C., O'Brien, J., Coope, B., Fairbairn, A., Abid, F., & Wilcock, G. (1997). A prospective study of psychotic symptoms in dementia sufferers: psychosis in dementia. *International Psychogeriatrics*, 9, 57-64
- Ballard, C., Bannister, C., Graham, C., Oyebode, F., Wilcock, G. (1995). Associations of psychotic symptoms in dementia sufferers. *British Journal of Psychiatry*, 167, 537-40
- Ballard, C.G., Saad, K., Patel, A., Gahir, M., Solis, M., Coope, B., et al. (1995). The Prevalance and phenomenology of psychotic symptoms in dementia suffers. *International Journal of Geriatric Psychiatry*, 10, 477-485
- Bartels S.J., Horn S.D., Smout R.J., Dums, A.R., Flaherty, E., Jones, J.K., et al. (2003). Agitation and depression in frail nursing home elderly patients with dementia. *American Journal of Geriatric Psychiatry*, 11, 231– 238
- Bianchetti, A., & Trabucchi, M. (2004). Behavioral and psychological symptoms of dementia: Clinical aspects. *Neuroscience Research Communications*, 35, 173-183
- Bullock, R., & Voss, S. (2006). Cognitive Outcomes. In K. Rockwood, S. Gauthier, (Eds). *Trial Designs and Outcomes in Dementia Therapeutic Research*, United Kingdom: Taylor & Francis.
- Burns, A., Jacob, R., & Levy, R. (1990). Psychiatric phenomena in Alzheimer's disease. (IV): Disorders of behaviour. *British Journal of Psychiatry*, 175, 86-94.
- Cariage, J., Burgio, L., Flynn, W., & Martin, D. (1991). A controlled study of disruptive vocalizations among geriatric residents in nursing homes. *Journal of the American Geriatrics Society*, 39, 501-507
- Chung, J.C. (2006). Care needs assessment of older Chinese individuals with dementia of Hong Kong. *Aging & Mental Health*, 10(6), 1-7
- Cohen-Mansfield, J., & Billig, N. (1986). Agitated behaviours in the elderly: A conceptual review. *Journal of the American Geriatrics Society*, 34, 711–721.
- Cohen-Mansfield, J. Marx, M.S., & Werner, P. (1992). Agitation in elderly persons: an integrative report of findings in a nursing home. *International Psychogeriatrics*, 4(suppl 4), 221-240

# References

- Colman, A.M. (2006). *A Dictionary of Psychology*. Oxford University Press, 2006. *Oxford Reference Online*. Oxford University Press
- Cullen, P., Abid, F., Patel, A., Coope, B., & Ballard, C.G. (1997). Eating disorders in dementia. *International Journal of Geriatric Psychiatry*, 12, 559-567
- Dunkin J.J., & Anderson-Hanley C. (1998). Dementia caregiver burden: a review of the literature and guidelines for assessment and intervention. *Neurology* 51, S53– S67
- Everitt, D.E., Fields, D.R., Soumerai, S.S., & Avorn J. (1991). Resident behaviour and staff distress in the nursing home. *Journal of the American Geriatrics Society*, 39, 792-798
- Gilley, D.W., Whalen, M.E., Wilson, R.S., & Bennett, D.A. (1991). Hallucinations and associated factors in Alzheimer's disease. *Journal of Neuropsychiatry*, 3, 371-376
- Grasbeck, A., Rorsman, B., Hagnell, O., & Isberg, P.E. (1996). Mortality of anxiety syndromes in a normal population. *Neuropsychology*, 33, 118–126
- Haupt, M., Romero, B., & Kurz, A. (1996). Delusions and hallucinations in Alzheimer's disease: Results from a two-year longitudinal study. *International Journal of Geriatric Psychiatry*, 11, 965-972.
- Hope, R.A., Fairburn, C.G. (1990). The nature of wandering in dementia: a community based study. *International Journal of Geriatric Psychiatry*, 5, 239-245
- Hope, T., Keene, J., Gedling, K., McShane, R., & Jacoby, R. (1997). Behaviour changes in dementia. 1: Point of entry data of a prospective study. *International Journal of Geriatric Psychiatry*, 12, 1062-1073
- Hurley A.C., Volicer L., Camberg L., Ashley, J., Woods, P., Odenheimer, G., et al. (1999). Measurement of observed agitation in patients with dementia of the Alzheimer type. *Journal of Mental Health & Aging*, 5, 117–133
- Kales, H.C., Blow, F.C., Copeland, L. A., Bingham, R.C., Kammerer, E.E., Mellow, A.M. (1999). Health care utilization by older patients with coexisting dementia and depression. *American Journal of Psychiatry*, 156, 550-556
- Klein, D.A., Steinberg, M., Galik, E., et al. (1999). Wandering behaviour in community-residing persons with dementia. *International Journal of Geriatric Psychiatry*, 14, 272-279

# References

- Jacques, A. & Jackson, G.A. (2000). *Understanding Dementia*, 3rd ed, Edinburgh:Churchill Liveingstone
- Kopecky H.J. & Yudofsky S.C. (1999). Agitation: conceptualization, measurement, and treatment. *Bulletin of the Menninger Clinic*, 63, A31– A52.
- Leger J., Moulias R., Robert P., et al. (2002). Agitation and aggressiveness among the elderly population living in nursing or retirement homes in France. *International Psychogeriatrics*, 14, 405– 416.
- McWalter, G. J., Toner, H. L., Eastwood, J., et al. (1996). CarenapD: User manual for the care needs assessment pack for dementia (CarenapD). Stirling: University of Stirling.
- McWalter, G., Toner, H., McWalter, A., et al. (1998). A community needs assessment: the care needs assessment pack for dementia (CarenapD) its development, reliability and validity. *International Journal of Geriatric Psychiatry*, 13, 16-22
- Mahoney, E.K., Volicer, L., Hurley, A.C. (2000). *Management of Challenging Behaviours in Dementia*. Baltimore: Health Professions Press.
- Meares, S., Draper, B. (1999). Treatment of vocally disruptive behaviour of multifactorial aetiology. *International Journal of Geriatric Psychiatry*, 14, 285-290
- Orrell, M. W., Bebbington, P. (1996). Psychosocial stress and anxiety in senile dementia. *Journal of Affective Disorders*, 39, 165–173
- Patel, V., Hope, R.A. (1992). A rating scale for aggressive behaviour in elderly psychiatric inpatients. *Acta Psychiatrica Scandinavica*, 85, 131-135
- Quayhagen, M.P., Quayhagen, M., Corbeil, R.R., et al. (1995). A dyadic remediation program for care recipients with dementia. *Nursing Research*, 44, 153-159
- Rabins, P.V., Mace, N.L., Lucas, M.J. (1982). The impact of dementia on the family. *Journal of the American Medical Society*, 248, 333-335.
- Rindlisbacher, P., Hopkins, R. (1991). The sundowning syndrome: a conceptual analysis and review. *Journal of Alzheimer's Care and Related Disorders*, 6, 2–9
- Riviere, S., Lauque, S., Micas, M., et al. (1999). European programme: nutrition, Alzheimer;s disease and health promotion. *La Revue de Geriatrie*, 24, 121-126
- Ryan, D.P., Tainsh, S. M., Kolodny, V. et al. (1988). Noise amongst the elderly in long term care. *Gerontologist*, 28, 369-371

# References

- Snyder, L.H., Ruppriecht, P., Pyrek, J, et al. (1978). Wandering. *Gerontologist*, 18, 272-280
- Stehmanm, J.M>, Strachan, G.I., Glenner, J.A., et al. (1996). *Handbook of dementia care*. Baltimore:The Johns Hopkins University Press
- Squire, L. R. (1987). *Memory and brain*. New York: Oxford University Press
- Steele, C., Rovner, B., Chase, G.A., et al. (1990). Psychiatric symptoms and nursing home placement of patients with Alzheimers disease. *American Journal of Psychiatry*, 147, 1049-1051.
- Stokes, G. (1986). *Common Problems, with the Elderly Confused*. Wandering. London, Winslow Press
- Taft, L.B. (1989). Conceptual analysis of agitation in the confused elderly. *Archives of Psychiatric Nursing*, 3, 102– 107
- Teri, L., Larson, F.B., Reifler, B.V. (1988). Behavioural disturbance in dementia of the Alzheimer type. *Journal of Gerontological Nursing*, 23, 16-24
- Wands, K., Merskey, H., Hachinski, V.C., et al. (1990). A questionnaire investigation of anxiety and depression in early dementia. *Journal of the American Geriatrics Society*, 36, 535-538
- Zimmer, J.G., Watson, N., Treat, A. (1984). Behavioural problems among patients in skilled nursing facilities. *American Journal of Public Health*, 74, 1118-1121

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