End of life care in dementia

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Mrs EN, aged 89

- Care home resident
- Breathless, more confused, drowsy, poor oral intake
- Dementia, diabetes, osteoarthritis
- Temp 38.5, drowsy, RR 28, Sats 89%
- BP 110/65. No speech
- CXR patchy consolidation right base
- WCC 15, CRP 95, Urea 12.5, Lactate 2.0
- Given oxygen, IVI, tazocin (3 doses)

Mrs EN, aged 89

- Remained drowsy and de-saturating overnight
- Seen by consultant respiratory physician for LCP
- Transfer ward

Mrs EN, aged 89

- Two days later
- Alert and undistressed
- Talking, sat out, ate breakfast
- Discussed with daughter, accepts she is approaching end of life, but 'not yet'
- LCP rescinded
- Antibiotics re-commenced
- Swallow safe
- Discharged back to care home

What went wrong?

- Failure to recognise delirium
- Failure to collect collateral information
- Failure to ascertain existence of LPA, CAD or ADRT
- Failure to consult daughter
 - Previously expressed views
 - Values and preferences
 - Any other factors she might take into account
 - Family and other carer views
- Transition to EOLC is process not event

Mrs MM, aged 88

- Unwell 48h
- Admitted drowsy, pyrexial, breathless
- T39°C, BP110/58, P116, SaO₂ 97%
- Urinary retention, faecally impacted
- Mumbled speech, generalised increased tone, fixed flexion both knees
- CRP 188, coliform in blood, bacturia and pyuria
- iv tazocin, iv fluids

Mrs MM, drug history

- Olanzapine 20mg/d
- Simvastatin
- Ramipril
- Insulatard
- Omeprazole
- Aspirin
- Sodium docusate

- Refugee from Nasser 1956
- Husband died 20 years ago
- 5 children
- Dementia, diabetes, osteoarthritis
- Lives in NH, hoist transfer



Mrs MM, first week

- Severe cognitive impairment, little communication
- Laxatives successful
- Eating and drinking little refuses
- Oral apraxia, no local or metabolic cause
- Sub cutaneous fluids

Multiple conversations with family

- Oral intake, tube feeding
- Antipsychotic drug
 - previous delusions of poisoning
- Cognition worse over past year
 - forgetful, mixing languages, apraxic
- Preferences and wishes
 - talked about wanting to die, but not in hospital

... but unhappy with current nursing home

- Remained in hospital
- Oral intake remained poor, but not nothing
- Variably alert in bed
- Little communication
- Undistressed
- Died 10 weeks later

What went wrong?

- Prognostication
- No advance care plan
- Place of care
- Difficult period for family

What is?

Palliative care

is an approach that improves quality of life of patients and their families, facing the problems associated with life threatening illness, through the prevention and relief of suffering by means of early identification and impeccable assessment and treatment of pain and other problems, physical, psychosocial and spiritual

Dementia

- A. Multiple cognitive deficits
 - 1.Memory impairment
 - 2. One or more of:
 - (a) aphasia
 - (b) apraxia
 - (c) agnosia
 - (d) disturbance in executive functioning
- B. Impairment in social or occupational functioning, decline from a previous level of functioning.
- C. Gradual onset, progressive decline.
- D. Not due to specified other conditions...
- E. ... or delirium.

Dementia subtypes

- Alzheimer's disease (31%)
- Vascular (22%)
- Mixed (25%)
- Lewy body (11%)
- Fronto-temporal (8%)
- Rarities

The problem with dementia

- Activities of daily living
- Behavioural and psychological symptoms
- Decision making
- Carer strain
- Progression to end of life care

Experience of dementia

- Neurological impairment
- Personality
- Biography
- Mental and physical health
- Social environment and relationships

Person-centred care

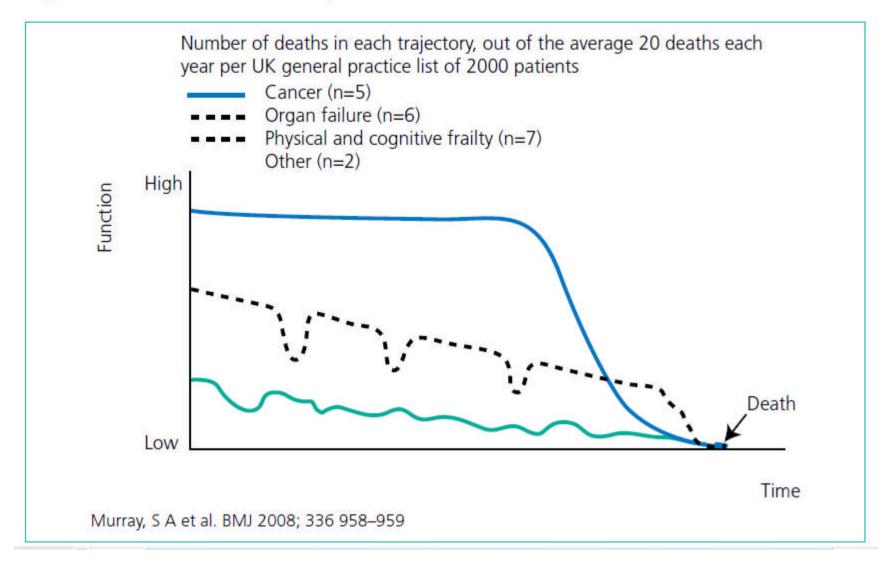
- Value people with dementia and those who care for them
- Individualised care
- Perspective of person with dementia
- Social environment

Survival in dementia

Age at onset	Median survival	
65-69	10.7y (24)	
70-79	5.4y (12)	
80-89	4.3y (6)	
90+	3.8y (4)	

(general population life expectancy in brackets)

Figure 1: The three main trajectories of decline at the end of life



Prognostic indicators

- MMSE <18, hip fracture or pneumonia: ½ patients die <6m
- MMSE <12: median survival = 1.3y
- Care home admission: 71% die <6m
- Hospital admission: 31% die <6m
- Appetite and swallow failure
- Immobile, no communication, dependent in ADL, weight loss
- Recurrent hospital admission, recurrent infections

MDS Mortality Risk Index

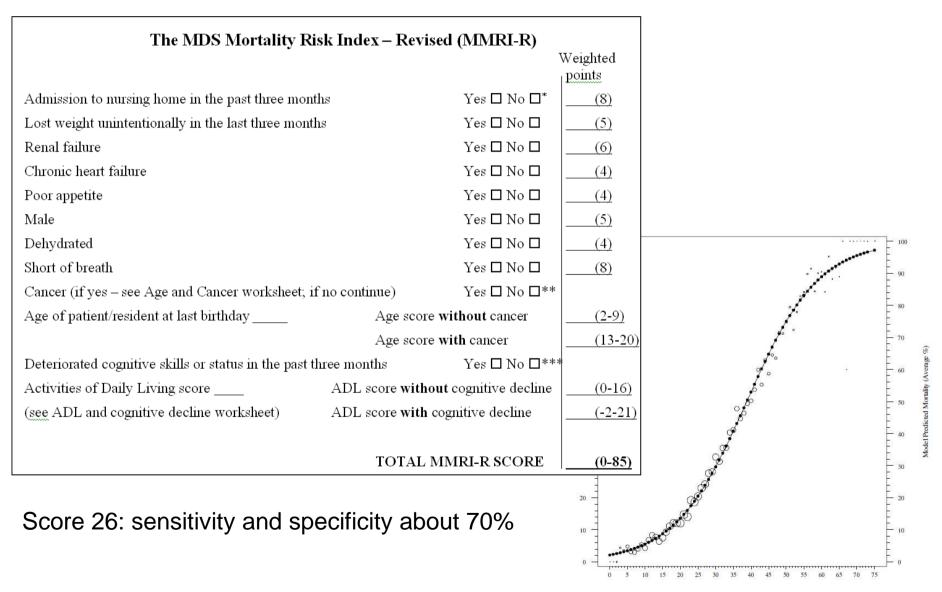


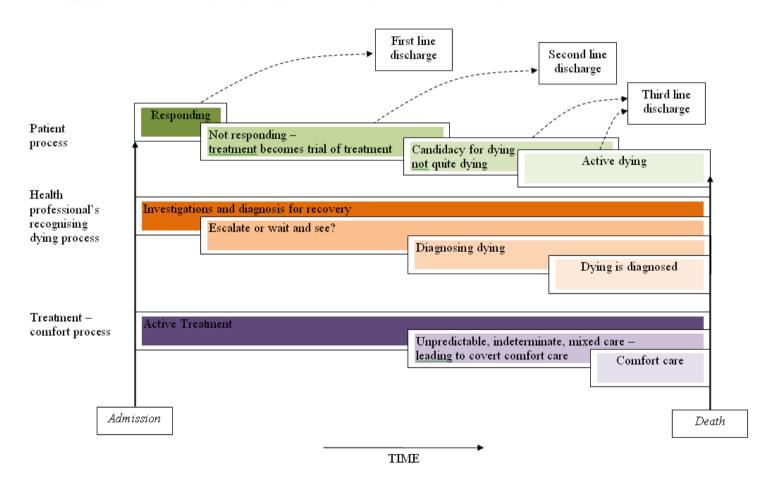
Figure 1 Observed and Predicted Six Month Mortality by MMRI-R Score - Validation Data. Open circles denote observed mortality. Dots denot model-predicted average mortality and MMR-R value.

Prognostication

3.22 For many conditions it may be difficult or impossible and potentially unhelpful to estimate prognosis precisely

Candidacy

Figure 1. The Process of Recognising Dying and Transitioning to Comfort Care in Hospitalised Older Adults



Principals of palliative care

- Meticulous management of symptoms
- Open communication
- Psychological, emotional and spiritual support of the patient and those close to them

Problems

 Confusion 	83%
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Urinary incontinence 72%

• Pain 64%

Low mood61%

Constipation 59%

Poor appetite 57%

Regional Study of Care of the Dying 1997

More problems

- Swallowing failure
- Immobility, falls
- Behaviours
- Infections
- Delirium
- Carer strain

- Dementia not seen as life threatening
- Location of care
- Unwanted hospitalization
- DNAR
- Uncertainty

Beware delirium

- Disorder
 - of cognition and attention or arousal
 - with an identifiable physical cause
- Look for:
 - Disordered thinking rambling speech, incoherent, irrelevant, illogical flow
 - Hallucinations (often visual), delusions/paranoia
 - Hypoactive, lethargic or depressive forms

Delirium causes

- Anything medical
- Often multiple
- Think...
 - drugs, drug withdrawal
 - brain diseases
 - infection
 - metabolic disorder
 - hypoxic disorders
 - post operative

Slow recovery

Persistence

- 61% after 24h
- 45% at discharge
- 33% at 1 month
- 26% at 3 months
- 21% at 6 months

Swallow and appetite

Causes of poor appetite

- Metabolic
- Drugs
- Infections
- Depression, dementia
- Constipation, nausea, pain
- Cancer
- End of life

Causes of poor swallow

- Neurogenic
 - stroke
 - degenerative
- Decompensation, weakness
- Oral apraxia
- Oral candida
- Poor dentition
- Mechanical obstruction
 - stricture, tumour
 - pouch

Tube feeding

- NG uncomfortable
- Relatively minor risks and problems
- Little evidence of benefit in dementia
- Can be useful (drugs, recurrent aspiration)
- Fully respect decision making process
- Fine line to passive euthanasia
- Rarely appropriate, but don't be dogmatic

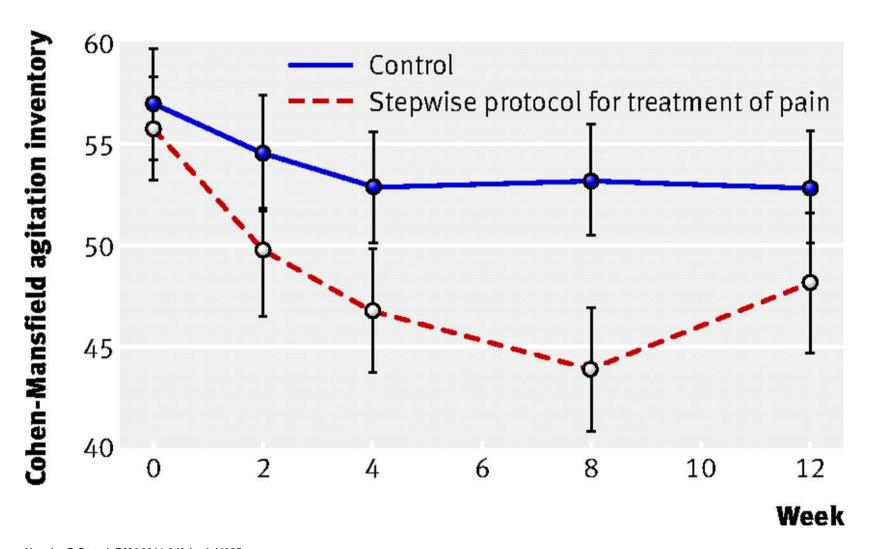
Why assessing pain can be difficult

- Forgetful
- Poor abstract thinking
- Poor receptive and expressive language problems
- Outpacing, overwhelming questions
- Co-morbidities (deaf, vision, delirium)
- Reliance of proxy (collateral) reports

Abbey Pain Scale

Vocalisation – expressions of pain without using words e.g. whimpering; crying; groaning; gasps; sighs; grunting				
Absent 0	Mild 1	Moderate 2	Severe 3	
Facial expression – e.g. wincing; tension; frowning; narrowed eyes; tight lips; teeth clenched; distorted expressions; looking frightened				
Absent 0	Mild 1	Moderate 2	Severe 3	
Changes to body language – e.g. rocking; guarding part of the body; withdrawn; clutching or holding tight to things				
Absent 0	Mild 1	Moderate 2	Severe 3	
Behavioural changes – e.g. confusion or increased confusion; restlessness; refusing food or fluids; irritability / agitation or withdrawal; resistance/pushing away				
Absent 0	Mild 1	Moderate 2	Severe 3	
Physiological change – e.g. altered temperature or BP outside usual pattern; perspiring; flushing; pallor; cold & clammy				
Absent 0	Mild 1	Moderate 2	Severe 3	
Physical changes – e.g. skin tears/bruising; pressure ulcers; arthritis; contractures; other injury (e.g. fracture); potential injury (e.g. recent fall)				
Absent 0	Mild 1	Moderate 2	Severe 3	
Match acquired pain score in the table below:				
0 – 2 No Pain (0)	3 – 7 Mild Pain (1)	8 – 13 Moderate Pain (2)	14 + Severe Pain (3)	

Cohen-Mansfield agitation inventory scores, with 95% confidence intervals, over study period.



Husebo B S et al. BMJ 2011;343:bmj.d4065



Specific carer issues

- High levels of carer strain
- Not necessarily reduced by care home placement
- Long time frame
- Emotional burden of proxy decision makers
- Anticipatory grief
- Death may be a (guilty) relief

National Dementia Strategy: objective 12

Improved end of life care for people with dementia. People with dementia and their carers to be involved in planning end of life care which recognises the principles outlined in the DH EOLC strategy...

Liverpool Care Pathway

- Comfort measures
- Anticipatory prescribing
- Discontinuing inappropriate monitoring & interventions
- Psychological and spiritual care
- Care of family

Do we love the LCP?

- Advantages
 - Clarity of communication
 - Promotes prioritisation of comfort care
 - Drug review
 - Tailoring of observations
- Disadvantages
 - Uncertainty of prognosis
 - Time frame
 - Different problem set from cancer

Advance Care Planning

- Statement of preferences and wishes
- Advance decision to refuse treatment
- Preferred priorities for care / preferred place of care
- Lasting Power of Attorney (Health and Welfare)

Gold Standard Framework

- Identify (palliative care register)
- Assess needs, symptoms, preferences
- Plan enabling people to live and die where they choose

Triggers

- Diagnosis of life limiting condition
- Move to care home
- Multiple hospital admissions
- Death of spouse
- Making will
- Retirement

Do we love Advance Care Planning?

- Advantages
 - Easier decision making
 - Avoidance of unwanted intervention
 - Preferred place of care
- Disadvantages
 - Too late by time of crisis
 - General reluctance in practice (care homes, families)
 - Practicalities
 - Care home uncertainties
 - Quality of alternatives

Making things better

- Open mind, flexibility, in face of uncertainty
- Continuity
- Geriatricians, psychiatrists/CMHTs, GPs, care homes
- Integrated systems and structures
- Accept and plan for hospitals remaining a major venue for dying
- Ditto care homes
- Communication, decision making, treatment choices
- Advance care planning

End of life care in dementia

An exercise in managing uncertainty