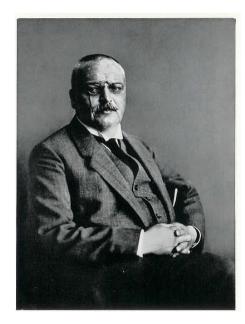
Managing physical co-morbidities in dementia

Prof Rowan Harwood Geriatrician, Nottingham University Hospitals

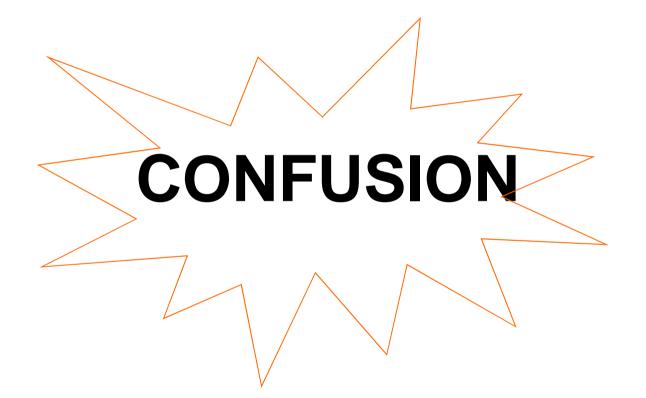
This presentation is on independent research commissioned by the National Institute for Health Research (NIHR) under its Programme Grants for Applied Research funding scheme (RP-PG-0407-10147). The views expressed in this presentation are those of the author and not necessarily those of the NHS, the NIHR or the Department of Health.

Brief

How to identify and diagnose co-morbid conditions in acutely ill patients with Alzheimer's disease



Real World



What's going wrong?

theguardian

News Sport Comment Culture Business Money Life & style

News > Society > NHS

Half of NHS hospitals failing to care for elderly

Care Quality Commission finds 'truly appalling and shocking' levels of dignity and provision of nutrition during spot visits

Reality check: why are some hospitals failing older people?

Denis Campbell and James Meikle guardian.co.uk, Thursday 13 October 2011 11.39 BST Article history



'Typical of the circumstances was illustrated when on three occasions when I visited my wife, she was sitting in the corridor, half dressed sometimes, and nobody seemed concerned or aware'

Counting the Cost: Alzheimer's Society, 2009

Outcomes are poor

Six month outcomes amongst patients over 70 with cognitive impairment admitted to a general hospital (n=195)

 Return to previous residence 	73%
 Mortality 	31%
 Readmission 	42%
 Return to pre-illness function 	20%

Possible explanations

- Hospitals are harmful
- Medical treatments and rehabilitation are not given
- Medical treatments do not work
- Progressive underlying disease

Antibiotic sensitivities don't change because the patient has dementia

Some staff lack expertise

'In all my years of training, I have never, ever, ever, been taught how to look after patients with dementia' [hospital consultant physician]

Gladman et al 2012

Assessing a patient who appears to be muddled

Keep an open mind. When confused old people are referred to hospital, minds snap shut ...

People with dementia in hospital are complex

Presenting problems amongst 53 patients over 70 with cognitive impairment admitted to a general hospital

- Falls 42 (81%)
 Immobility 38 (73%)
 Pain 28 (54%)
- Incontinence 24 (46%)
- Breathlessness 12 (23%)
- Dehydration 11 (21%)
- Delirium 11 (21%).

A huge variety of acute medical diagnoses

Final diagnoses amongst 53 patients over 70 with cognitive impairment admitted to a general hospital

- fractured neck of femur 7 (1 peri-prosthetic)
- other fractures 6
- pneumonia 4
- multi-factorial fall 4
- multi-factorial functional problem 3 (immobility, pain, confusion, incontinence)
- fast AF 3 (2 syncope, 1 heart failure)
- dehydration/renal failure 3
- urinary tract infection 1 (+ 3 contributory)
- alcohol intoxication 2
- adverse drug reactions 2 (amantadine, sedatives)
- seizures 2 (alcohol excess, brain metastases)
- unresponsive episode/syncope 2

- painful hip post fall 2
- unexplained delirium 2
- cancer 2 (gastric, lung)
- infective exacerbation of COPD 1
- infected leg ulcer 1
- gastroenteritis 1 (+ dehydration + syncope)
- stroke 1
- ruptured Achilles tendon 1
- rheumatoid arthritis 1
- progression of vascular dementia 1
- (+ immobility + poor oral intake)
- acute urinary retention 1 (with a fall)
- anxiety, old stroke 1

Harwood et al, 2012

People with dementia in hospital are very dependent

Prevalence amongst 195 patients over 70 with cognitive impairment admitted to a general hospital

- Barthel <5/20 31%
- help to transfer 65% (hoist 13%)
- help feeding 58%(unable 15%)
- incontinent of urine 67%
- sleep problems 34%

- MMSE <10/30 30%
- delusions 14%
- hallucinations 11%
- agitated 18%
- depressed 34%
- anxious 35%
- apathetic 38%
- disinhibited 10%

Dementia in crisis

- Super-added delirium
- Physical illness in person with dementia
- Progression of dementia especially vascular
- Behavioural problem, disability, coping, misjudgment

... physician role may be to *exclude* physical disease

Dementia in acute hospitals is different

- Physically ill and dependent
- 2/3 have added delirium
 - ... which is difficult to diagnose and manage
 - ... and slows things down
- Vascular dementia predominates

Why does delirium matter?

- Common
- Atypical presentation of illness in older people
- Unpleasant
- Serious consequences
- It's on the health policy agenda

Difficulties diagnosing delirium

- Overlap with normality (cat naps, insomnia) and dementia
- 6-10 x commoner in dementia
- Variability, fluctuation, broad range of features
- Poorly understood words (attention, disordered thinking)
- Unfamiliar features not recognised by doctors or nurses
- Cognition can be difficult to assess in an ill person

A useless differential diagnosis

TABLE 3. Putative causes of delirium

Medications	
Psychotropics (anxiolytics, sedative-hypnotics, barbiturates, antidepressants, antipsychotics, lithium)
Anticonvulsants	
Analgesics	
Anticholinergic	s (antihistamines, antispa smodics, antiparkinsonian agents)
Antiamhythmics	5
Antihypertensiv	65
Aminoglycoside	antibiotics
Miscellaneous (cimetidine, steroids, nonsteroidal anti-inflammatory drugs, salicylates)
Drugs of abuse (p	hencyclidine and hallucinogenic agents)
Alcohol	
Poisons (heavy me	etals, organic solvents, methyl alcohol, ethylene glycol, insecticides, carbon monoxide)
Withdrawal syndro	omes
Alcohol	
Sedatives and h	ypnotics
Cardiovascular	
Congestive heart i	lailure
Cardiac arrhythmi	a
Myocardial infarct	lon
Neurologic	
Head trauma	
	g lesions: tumor, subdurai hematoma, abscess, aneurysm
Cerebrovascula	r diseases thrombosis, embolism, arteritis, hemorrhage, hypertensive encephalopathy
Degenerative di	sorders: Alzhelmer disease, multiple scierosis
Epllepsy	
Infection	
	ephalitis and meningitis (viral, bacterial, fungal, protozoal)
	nonia, septicemia, subacute bacterial endocarditis, influenza, typhoid, typhus, infectious mononucleosis, infectious hepatitis
	tlC fever, malaria, mumps, diphtheria, AIDS
Metabolic	
Hypoxla	
Hypoglycemia	
	lance: acidosis, alkalosis
	lance: elevated or decreased sodium, potassium, calcium, magnesium
	e: inappropriate antidiuretic hormone, water intoxication, dehydration
	ngans: Ilver, kidney, lung
	r metabolism: porphyria, Wilson disease, carcinoid syndrome
Remote effects	
	ncy: thiamine (Wernicke encephalopathy), nicotinic acid, folate, cyanocobalamin
Endocrine	
	oxicosis, myxedema
	po-and hyperparathyroldism
	n disease, Cushing syndrome
	insulinism, diabetes
Pitultary hypofu	Inction
Hematologic	
Pemicious anen	nia

A useful differential diagnosis

- meds
- meds
- meds
- infections
- hypoxia
- metabolic
- some combination
- something else

Rockwood 2001

Delirium management

- Find the cause and treat it
- Anti-psychotics, maybe
- Explain to relatives and engage patient
- Keep your nerve, don't make the wrong plans too soon
- Post episode debrief?

Delirium - slow recovery

Persistence

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

Cole 2009 systematic review

Diagnostic problems

- Information gathering
- Non-specific presentations
- Multiple pathologies
- Investigative burden

Management problems

- Complexity: physical, mental and social
- Complications and adverse events
- Effects of a hostile environment
- Understanding and compliance
- Nihilism
- Multiple stakeholders: relationship-centred care

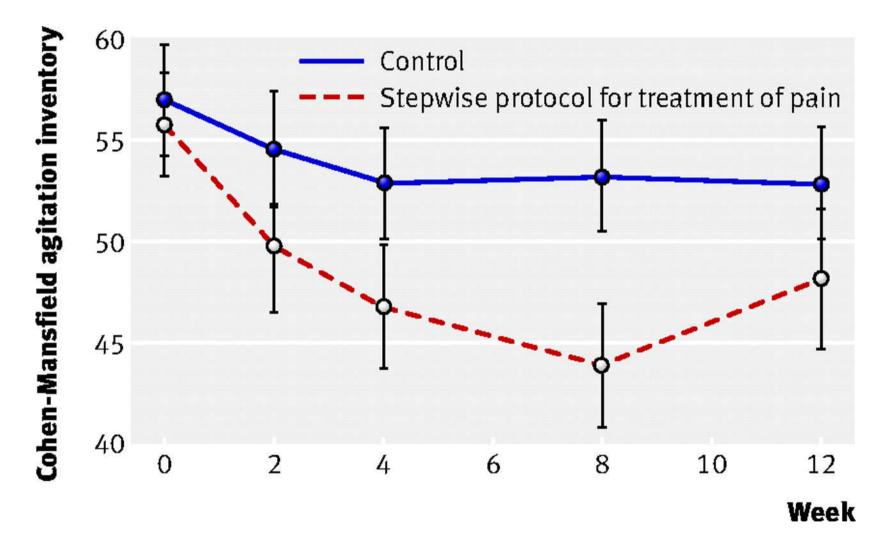
An illness career

• Primary care

- Community mental health teams
- Intermediate care
- Social care

Specifics

- Falls
- Continence
- End of life care
- Pain



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



How to put things right

Leadership

Attitudes and skills

Resources

Care Quality Commission, 2011

A key message echoed by staff at all levels in the organisations involved in this study was that the acute hospital is not the 'right place' for older people.

This chapter examines how the prevalence of this view has resulted in the physical environment, staff skills and education and organisational processes acting as barriers to delivering dignified care to older people.

Tadd W, Dignity in Practice 2011

Practical steps

- MH professionals
- Environment, systems
- Communication, relationships, empathic understanding
- Purposeful activities, occupational profiling
- Partnership working with family carers

The NHS Outcomes Framework 2011/12

Domain 1: Preventing people from dying prematurely

Domain 2: Enhancing quality of life for people with long-term conditions

Domain 3: Helping people to recover from episodes of ill health or following injury

Domain 4: Ensuring that people have a positive experience of care

Domain 5: Treating and caring for people in a safe environment and protecting them from avoidable harm



partment

Summary

- Confused older people are core business for acute hospitals
- Most are admitted for good reason
- But they are complex and difficult to manage
- Our job is to do the medicine well
- Providing better quality of care is possible with good leadership, skills and resources