

Recognition and management of the end of life in stroke patients

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What we shall cover

- overview of stroke and dying
- LCP: advantages and pitfalls
- recognition of the dying patient
- capacity and advance care planning



Why bother?

- 2nd commonest cause of death worldwide
Ingall J Insur Med. 2004;36(2):143-52.
- 10% of all deaths worldwide in 2002
Clairborne Johnston, S Lancet Neurol 2009; 8: 345-54
- 5-year mortality up to 50%
but in good stroke units 20%
- Huge variation in mortality:
 - 26/100,000 in Switzerland (?? Seychelles)
 - 251/100,000 in Russia



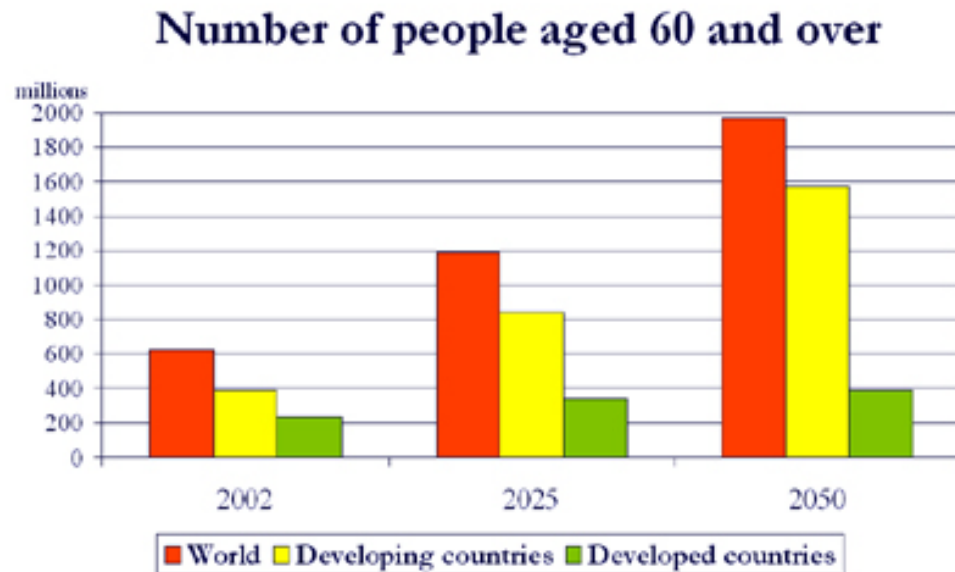
Why bother?

- Commonest cause of disability in the UK
- 3rd commonest cause of death
- Case fatality 20% in 1990



An international problem

“Over the past four decades... there has been a 42% decrease in stroke incidence in high-income countries and more than 100% increase in low to middle income countries.



What relatives reported after death

- Uncontrolled symptoms
 - Pain
 - Incontinence
 - Confusion
 - Low mood
- Poor communication and information by staff.

Addington Hall et al 1995

- Carers' needs unmet:
 - domestic: 2/5ths needed help with all ADLs, 43% needed help with personal care
 - financial
 - emotional

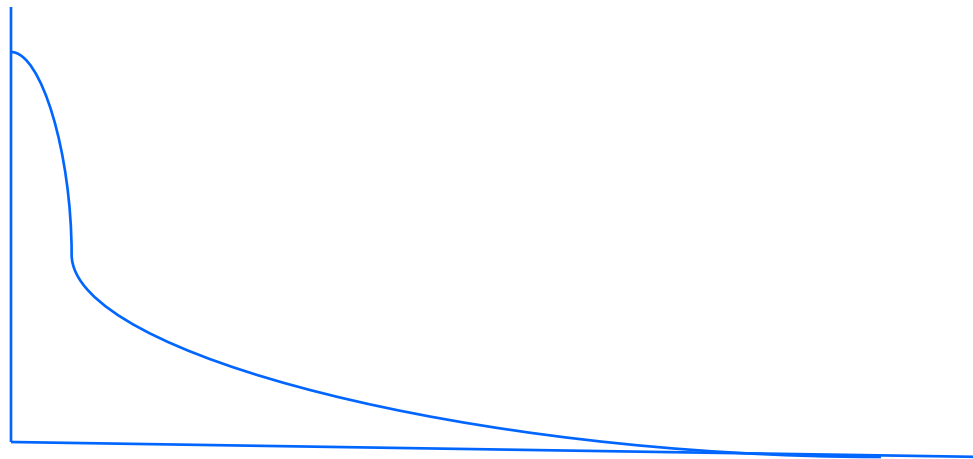
Addington Hall et al 1998



Stroke patients who survive for a few months

- High level of functional and mobility impairment, gradually progressing over the months to death

Teno J Palliat Med 2001



- All stroke patients should have access to palliative care expertise when required.
- All staff providing this care should have undergone appropriate training.

Intercollegiate Working Party on Stroke *National clinical guidelines for stroke 2004*



Main issues

- Some people with major strokes recover – but which?
- How does one identify dying in someone so severely disabled?
- What care does one need to provide?



Prognosticating



Strokes with a poor prognosis

- strokes resulting in pontine herniation
- pontine hemorrhage with hyperthermia
- basilar artery occlusion with coma and apnoea
- People who need mechanical ventilation: 28% discharged, 8% survived 1 year.



Prognosis in mechanically ventilated stroke patients

- Inpatient mortality 55% (48%-70%).
- 30-day mortality 58% (46%-75%)
- 1 - 2 year mortality 68% (59%-80%).

Holloway, *JAMA*. 2005; 294:725-733.



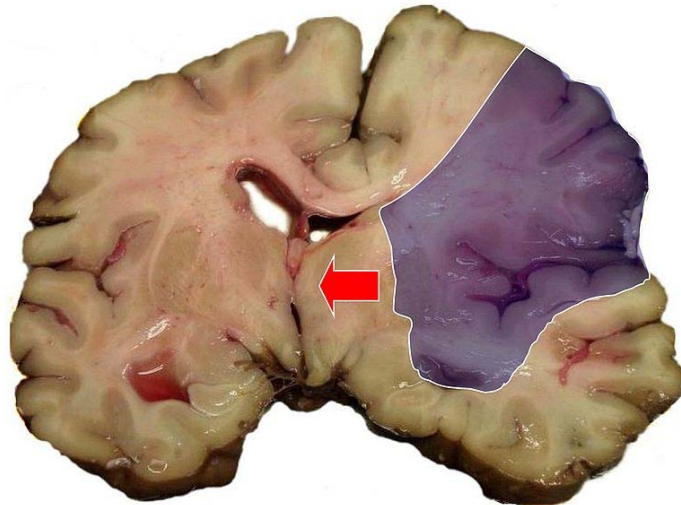
What do people with stroke die of?

- 1st week: Compression of vital centres in the brain stem due to brain swelling and herniation



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What do people with stroke die of?

- 1st week: Compression of vital centres in the brain stem due to brain swelling and herniation
- Afterwards: systemic complications e.g. chest infection, aspiration pneumonia, pulmonary embolism



Strokes with a poor prognosis longer term

- Low level of consciousness
- Dense hemiplegia
- Urinary incontinence
- Gaze paresis
- Swallowing impairment

Ebrahim 2001



Not for CPR in the first 2 weeks

1. Severe Stroke

- Persisting (> 24 hours) +/- deteriorating neurological deficit
- Often early impaired consciousness leading to total dependency in ADLs.
 - little or no active movement on at least one side of the body,
 - with impaired consciousness
 - global aphasia,
 - lack of response indicating cognition (GCS <9, Canadian Neurological Scale score <5.0).

2. Life-Threatening Brain Damage

- Brain stem compression by large ICH, usually with intraventricular extension
- large hemispheric infarction with midline shift
- infratentorial strokes involving multiple levels in the brain stem;
- cerebellar lesions.

3. Significant Comorbidities

Important risk factors for death within the first month after stroke: pneumonia, PE, sepsis, recent MI, cardiomyopathy, life-threatening arrhythmias.

Strokes resulting in severe disability

- large middle cerebral artery infarcts
- pontine strokes resulting in locked-in syndrome (quadriplegia, anarthria, preserved consciousness, vertical eye movements).

These people need long term care put in – with limited resources, we often concentrate on people who can be rehabilitated, at their expense



Why do we need
to identify the dying?



- To stop burdensome treatment which will not benefit them
- To give them good and appropriate care (they won't get another chance)
- To communicate with patient and family



The LCP: advantages and pitfalls



Liverpool Care Pathway

The Liverpool Care Pathway (LCP) is an integrated pathway tool which can be used during the last 72 / 48 hours of life.

*NHS National End of Life Care Programme,
October 2009*

The LCP Framework is a **continuous quality improvement framework** for care of the dying irrespective of diagnosis or place of death.



Why?

To transfer best care of the
imminently dying from hospice
to other clinical settings



How?

- Ensures staff assess the key areas
- Gives guidance on management
- Highlights variances from expected path and requires explanation
- Allows audit and learning re the management of dying



Key areas

- Symptom assessment
- Stopping burdensome intervention (drugs, feeding, hydration)
- Addressing psychosocial and spiritual concerns
- Communicating with family and staff



So, could it go wrong?

- Diagnosis of dying is the entry point.
- Dying may be very difficult to diagnose, even after long experience.
- Persistence on the LCP in someone who is not dying may deprive them of drugs, food and drink, and may jeopardise their recovery



Therefore....

- Get second opinion if situation is not clear – from an expert (stroke, palliative care...)
- Review, review, review if things are not going as anticipated.

Always ask **WHY?**



Recognition of the dying patient



Identifying the end-stage in palliative care patients

- Bedridden, profoundly weak
- Drowsy, poor attention span
- Able to take only sips of fluid
- Unable to take tablets
- Semi-comatose



Some of these changes are difficult to identify in stroke patients, or may not mean an irrecoverable situation.

Suggestions

- Functional deterioration as above – change not static disability
- Rate of change best prognostic indicator
- Risk factors: comorbidity (e.g. risk of MI, severe COPD), aspiration.



Symptoms in last 48 hours of life in a hospice

Noisy & moist breathing	56%
Pain	51%
Restlessness & agitation	42%
Urinary incontinence	32%
Urinary retention	21%
Dyspnoea	22%
Nausea and vomiting	14%
Sweating	14%
Jerking, twitching, plucking	12%
Confusion	9%



Care planning and Advance care planning



Advance Care Plan

Personal preferences
and choices for
end of life care

- Care planning:
preparation for future
care needs
- Advance care planning:
ascertaining patient's
wishes re their care and
enabling them to happen
as far as possible.
 - E.g. Where to they want to
be cared for?
 - Where would they prefer to
die?

1. Where would you like to be cared for if you are no longer able to care for yourself?

1st preference

2nd preference

2. Bearing in mind that your circumstances may change, where would you prefer to be cared for when you are dying? e.g. home, care home, hospital, or hospice.

1st preference

2nd preference

3. Who knows you well and understands what is important to you?
Please add their full contact details to page 10

4. Who do you view as your next of kin?
Please add their full contact details to page 10

5. Who or what supports you when things are difficult?

6. Do you have a particular faith or belief system that is important to you? Please give details:

Would you like to talk to anyone about your faith or beliefs?

(circle as appropriate) YES | NO

If yes who?

7. What concerns you most about your health, now and for the future?

8. Are there discussions with family and /or friends you feel would be helpful?

Would you like anyone to help you with this?
If so who?

9. Have you made a will?

(circle as appropriate) YES | NO

If yes, where is it held?

If no, would you like to discuss how to make a will?

Discharge planning for people with a poor prognosis

- Carers: who, what are their needs? Entitled to individual assessment by law
- OT assessment
- Equipment e.g. hospital bed, commode
- Emergency drugs and anticipatory prescribing: e.g. Injectable opioid, anti-emetic, antimuscarinic, benzodiazepene
- LAS form
- Wishes re CPR





LA225 - Palliative Care / End of Life Care Handover Form -

Please Complete Electronically and email to oooh.las@nhs.net

or as a secondary option complete form, print and fax to London Ambulance on 020 7921 5287

FAX TO - DOH GP: _____ FAX: _____

Also sent to other: _____ FAX: _____

Are you UPDATING information already held? If YES please tick here and fill in relevant updated information e.g. Address Change

CONFIDENTIAL MEDICAL INFORMATION. Please update as required.

Patient details	Carer details	GP details
Name: _____	Name: _____	Name: _____
DOB/age: _____ Sex: _____	Approx age: _____	Practice/code: _____
Address: _____	Address: _____	Address: _____
Tel(s): _____	Tel(s): _____	Tel (in hours): _____
NHS No: _____	Relationship to pt: _____	Fax: _____
		Tel (ooh): _____

Unless it is a medical emergency please contact the nursing service before considering admission.
For specialist end of life care/palliative advice contact the Named Team.

District Nursing Service	Night Nursing Service	Specialist Palliative Care Advice/Hospice Contact
District Nurse: _____	Base: _____	Provider: _____
Address: _____	Tel: _____	Address: _____
Tel: _____	Mobile: _____	Tel: _____
Fax: _____	Fax: _____	Fax: _____
Working Hours: _____	Working Hours: _____	CNS Name: _____
Mobile(week days): _____		Community Team Contact Tel: _____
Mobile(week & SPM): _____		

Hospital Team involved	Further info
Hosp: _____	Is the patient on the practice's Gold Standards Framework Register: YES <input type="checkbox"/> NO <input type="checkbox"/>
Consultant: _____	Is the patient on the Liverpool Care Pathway: YES <input type="checkbox"/> NO <input type="checkbox"/>
Tel: _____	Is there a Preferred Priorities for Care (PPC) Document in the house: YES <input type="checkbox"/> NO <input type="checkbox"/>
Fax: _____	Is the patient under direct care/supervision of a Hospice: YES <input type="checkbox"/> NO <input type="checkbox"/>

Medical information

Diagnosis and date: _____
(Please include any other relevant medical summaries)

Patient aware of diagnosis: Yes No Carer aware of diagnosis: Yes No

Is there an Advanced Directive or Advanced Care Plan? Yes No Where? _____

Consent of patient obtained for transfer of information: Yes No

Medicine Management

Has the patient been prescribed strong opioids? Yes No

(Please give details) _____

Emergency drugs left in home (name and dosage) _____

Syringe Driver, if needed available from: _____

Plans for OOH period urgent community care (District Nurse / Male Care / Hospice Outreach etc) _____

End of Life Phase

Is death anticipated? Yes No How Soon? _____

Patient Priority Final Place of Care e.g. Home / Hospice etc. _____

Has Resuscitation been discussed with the patient? Yes (please give details below) No

Resuscitation discussed with the family / carer? Yes (please give details below) No

In the event of cardiac arrest, should resuscitation commence? (For Clarity please type YES or NO) _____

Is there a signed Allow Natural Death / DNAR order in the house? Yes No (If YES Please state location below)
Other DNAR notes: _____

Cultural / Religious / Spiritual - Care of the Body after death _____

Form Complete by: Name: _____ Surname: _____ Date: _____

Tel: _____ Fax: _____ Email: _____

LAS use only Locality info Index Initials

Mental Capacity assessment and the law



Mental capacity as defined in the MCA

Is the ability to

- understand the information relevant to the decision
- retain that information
- use or weigh that information as part of the process of making the decision
- communicate the decision (whether by talking, using sign language or any other means).



Assessing mental capacity

- Any professional can carry out an assessment – but describe how your assessment addressed each of the above issues in the notes.
- State capacity for what!



Remember...

- Patients may refuse treatment but may not *demand* a particular treatment
- Refusal of treatment can be verbal but refusal of life-sustaining treatment must be signed and witnessed.
- In absence of advance refusal / LPOA / IMCA, consultant has legal duty to act in their best interest.(cf family wishes)



Check

- Can they still express themselves?
- Do they have a living will? Is it specific to the situation?
- If not, do they have a LPOA?
- IMCA: for the person who lacks capacity but has no family or friends



- Many patients with stroke are able to communicate despite their hemiplegia before they lapse into coma.
- Try to ascertain their wishes and impart information needed to make decisions which they can understand.



In summary

- Some people die quickly with stroke – need recognition, protecting from futile, burdensome treatment and care of the dying.
- Others are discharged but die within months – need good care planning, adapting as they change, and their wishes explored and respected.
- In those who recover, strokes often recur – need for ACP even more important.

