The updated National Clinical Guideline for Stroke for the UK and Ireland - the essential changes in a nutshell



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Declaration for Prof Martin James

I have the following financial interest or relationship/s to disclose with regard to the subject matter of this presentation:

- Consulting fees: None
- Research contracts: NIHR HS&DR contracts re modelling of reperfusion treatments, ambulance redirection trials, mobile stroke units
- Clinical trial steering committee: BHF-funded trial of early anticoagulation after ischaemic stroke
- Other: Trustee of the Stroke Association

Some big changes in the evidence base...



- Acute Care
- Secondary Prevention
- Rehabilitation and Recovery

NATIONAL CLINICAL GUIDELINE FOR STROKE

for the United Kingdom and Ireland

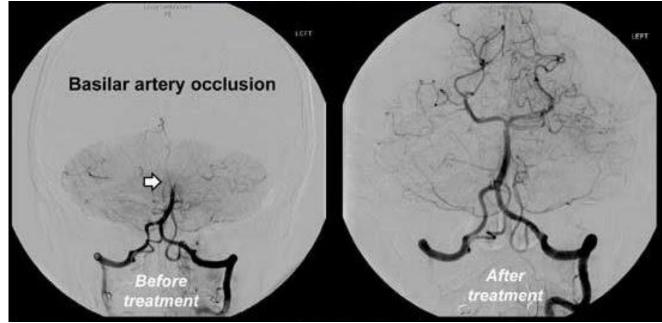
What's New in Acute Care?

- More people eligible for thrombolysis
 - Up to 9 hours since last seen well
 - Wake-up stroke up to 9 hours from mid-point of sleep (so typically up to 12 midday after retiring at 11PM the previous evening and waking with stroke at 7AM)
 - Selected using perfusion imaging (CT or MR mismatch)
- Alteplase and tenecteplase equivalent



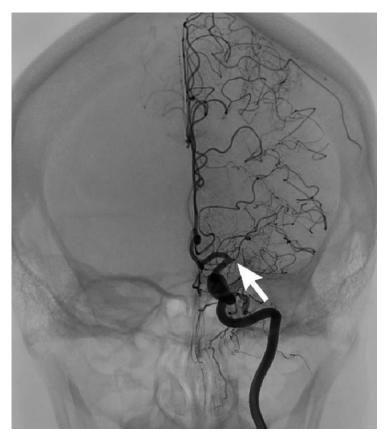
More people eligible for thrombectomy

- Basilar artery/intracranial vertebral artery thrombosis within 12 hours of onset
- Angiographically-confirmed
- Significant neurological deficits; no established infarction on plain CT

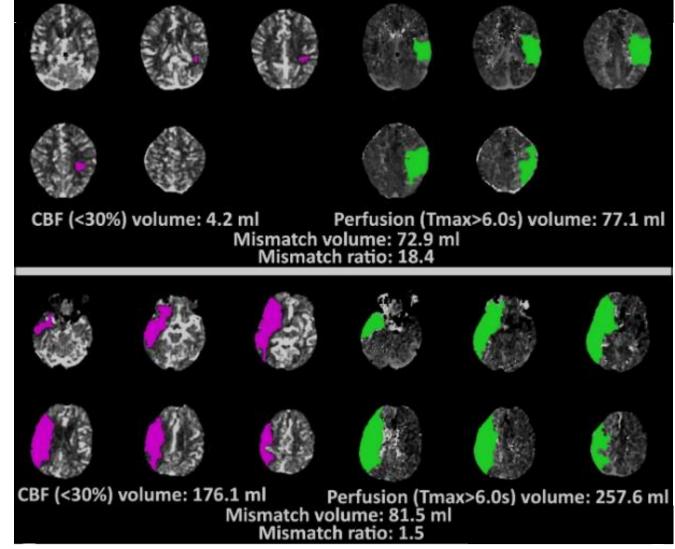


• More people eligible for thrombectomy

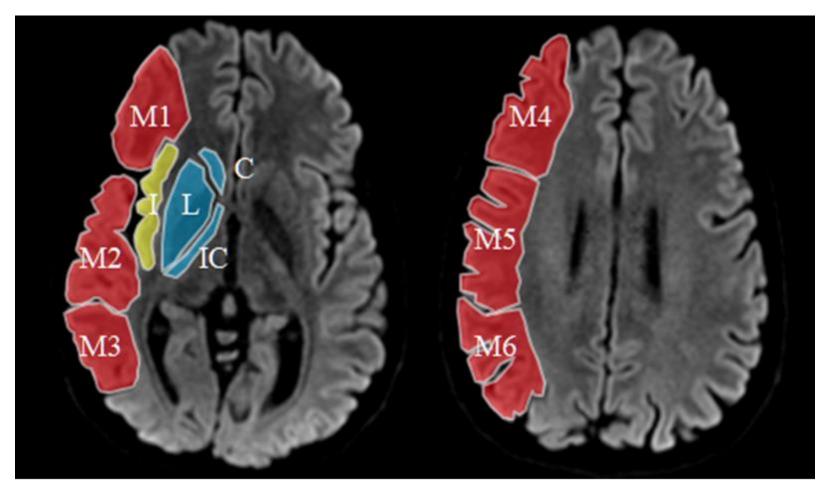
- Patients with acute anterior circulation ischaemic stroke
- With or without exclusions from thrombolysis
- Who were previously independent
- With a disabling neurological deficit
- Who can be treated within
 6 hours of known onset



CT perfusion used to identify 'potential to salvage brain tissue'



• Determining eligibility using the 'ASPECTS' Score

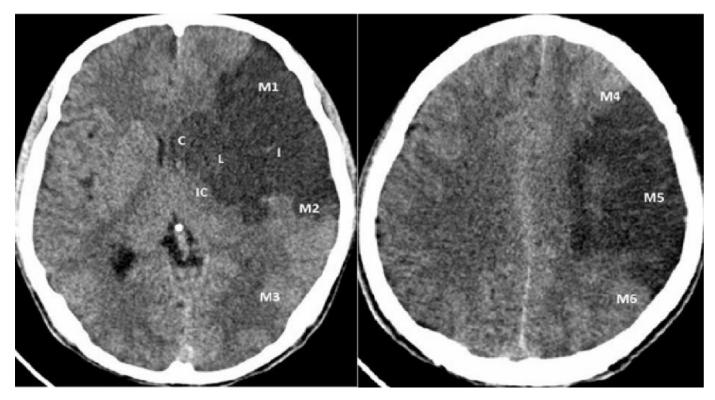


Ganglionic Level

Supra-ganglionic Level

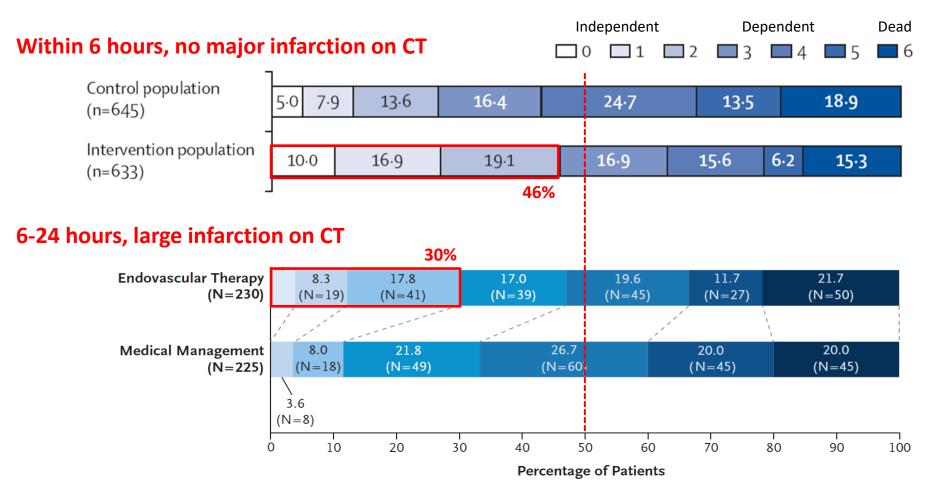
More people eligible for thrombectomy

- Patients with acute anterior circulation ischaemic stroke
- With no previous disability
- With a disabling neurological deficit
- Who can be treated within 6-24 hours of known onset



More people eligible for 'late' thrombectomy

- but fewer patients do well overall



More intensive interventions:

- Antiplatelets in minor stroke and TIA
 - Clopidogrel plus aspirin for 21 days OR
 - Ticagrelor plus aspirin for 30 days
- Lower target cholesterol
 - -Non-HDL cholesterol below 2.5 mmol/L
- Lower target BP for IS and ICH (clinic or home BP) – *lower than NICE*

he United Kingdom and Ireland

- Clinic BP below 130/80
- -Home BP below 125/75

More int



- - Clopi
 - Ticag
- Lower

– Non-

Lower **BP)** – *I*

- Clinic
- Horr

Check for updates

- Department of Health and Social Care, London, UK
- ² Scottish Government, Edinburgh, UK
- ³ Department of Health, Belfast, UK
- ⁴ Welsh Government, Cardiff, UK
- ⁵ NHS England, London, UK
- ⁶ Academy of Medical Royal Colleges, London, UK

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Restoring and extending secondary prevention

Comprehensive response is needed, across healthcare and beyond

Christopher J M Whitty, ¹ Gregor Smith, ² Michael McBride, ³ Frank Atherton, ⁴ Stephen H Powis, ⁵ Helen Stokes-Lampard⁶

The UK, like many European countries, is currently experiencing substantial excess mortality.¹² The reasons for this are likely to be multifactorial, including persisting direct and indirect effects of covid-19, surges in flu and respiratory infections, significant pressures on NHS acute services, and reductions in secondary prevention as an inevitable part of the response to covid-19.3 -5 At the start of the pandemic, as services swung necessarily towards the major new threat, it was predicted that the reduction in preventive care would probably cause subsequent indirect delayed mortality, but the immediate response to the pandemic was essential.⁶ Studies finding reduced take up of interventions such as antihypertensive drugs in the initial stages of the pandemic are therefore unsurprising.³

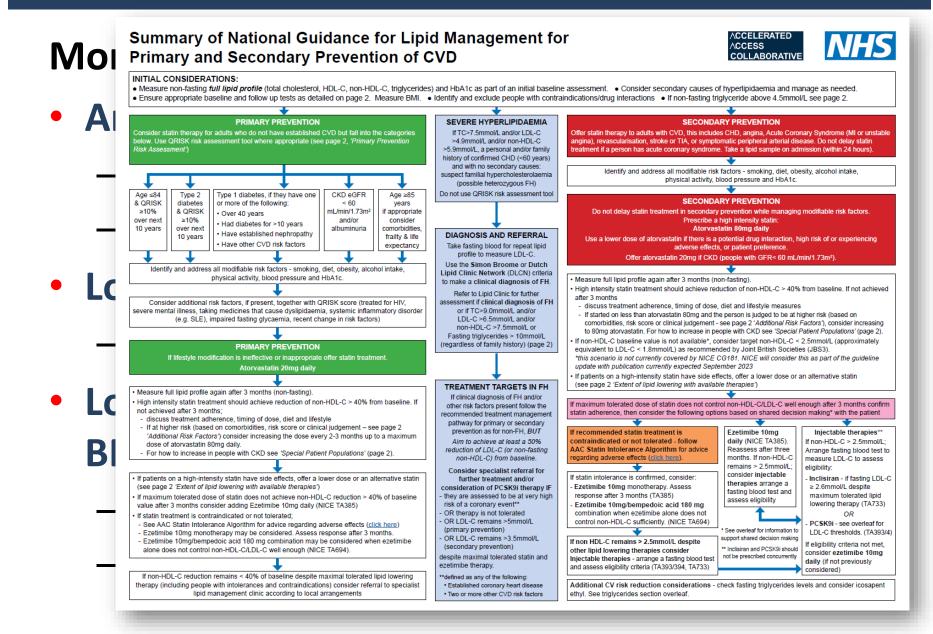
Considerable efforts are being made to restore secondary prevention and many other areas of medicine, but we need to go further than simply reverting to where we were in 2019. In particular, we must extend the advantages of secondary prevention to groups that missed out even before the pandemic.7

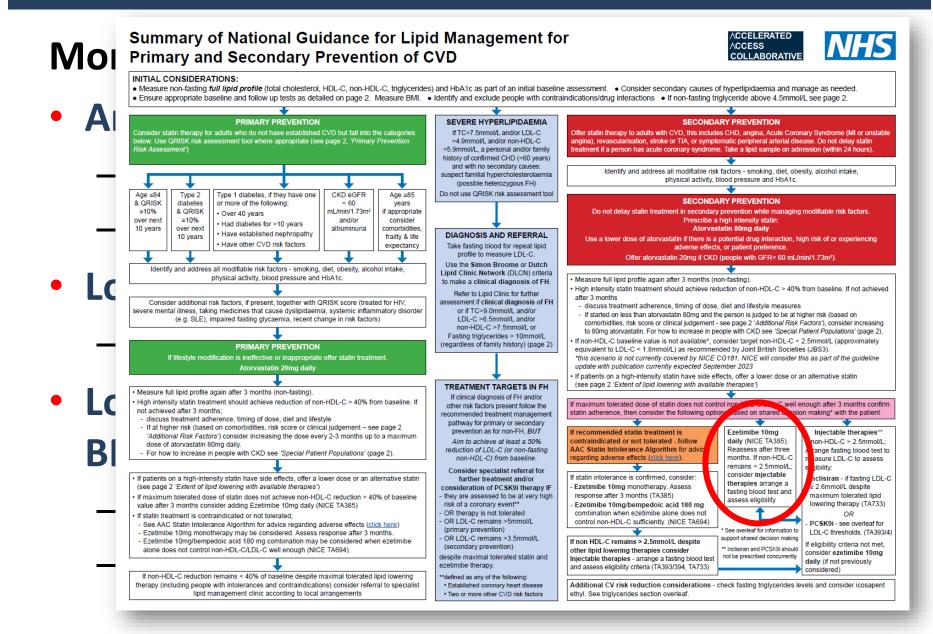
Evidence that secondary prevention can substantially reduce disease incidence and progression is some of

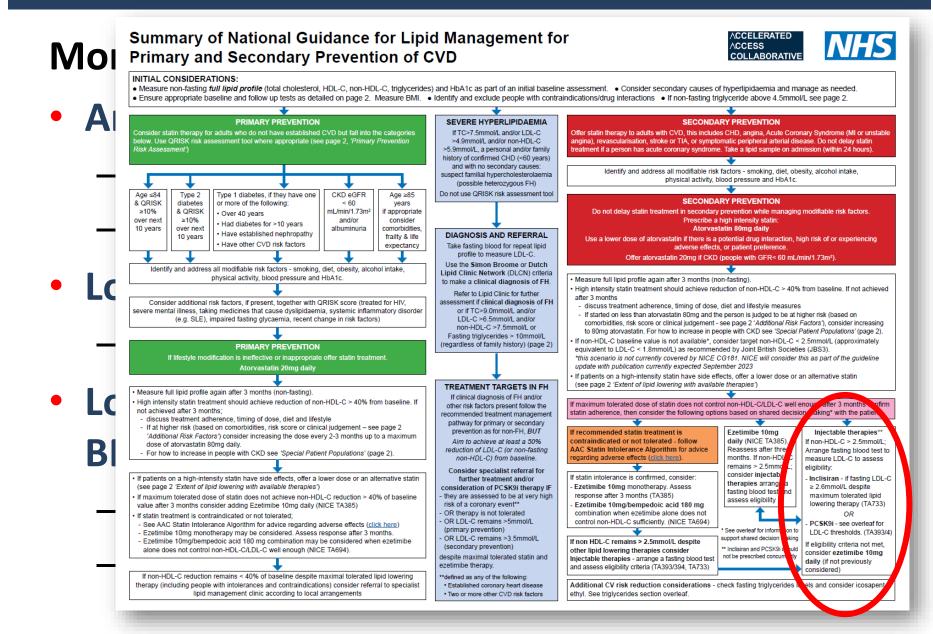
Disease prevalence is higher than average in many of these groups so the benefits of secondary prevention are likely to be even greater.¹¹ This will require creativity in the development and testing of various delivery models.¹² A single approach is unlikely to be successful across all groups, as shown during the rollout of covid-19 vaccines.

Initial identification of individuals at risk does not usually require a skilled healthcare professional, and directing more people into general practice for routine assessment would not be a good use of general practitioner skills or resources. The first diagnostic step could be done in many settings—for example, measuring blood pressure in workplaces or other places people go as part of their daily lives, and using existing health infrastructure such as pharmacies and optometrists. We should make it much easier and more attractive for people to come forward for assessment.

Thirdly, numerous areas of clinical practice still lack evidence based approaches to secondary prevention, including many associated with substantial morbidity or mortality such as mental health and musculoskeletal conditions. A comprehensive



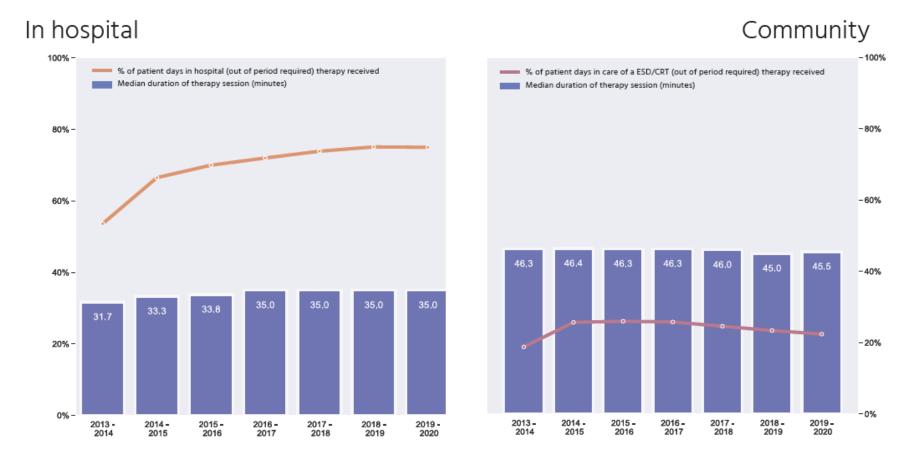




- Significant advances in the evidence base for dose and intensity of rehab therapy
- Motor recovery (walking, upper limb)
 - Daily therapy for up to 3 hours/day
 - Daily activity for up to 6 hours/day
 - Repetitive task practice should be the primary approach
- Language recovery
 - Use of assisted technology and telerehabilitation
 - More than 20-50 hours of therapy in chronic phase

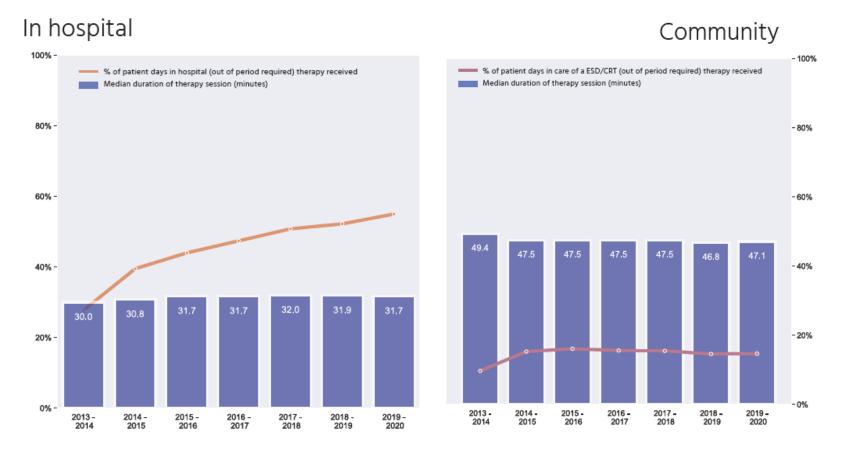
Significant advances in the evidence base for dose and intensity of rehab therapy

Physiotherapy



Significant advances in the evidence base for dose and intensity of rehab therapy

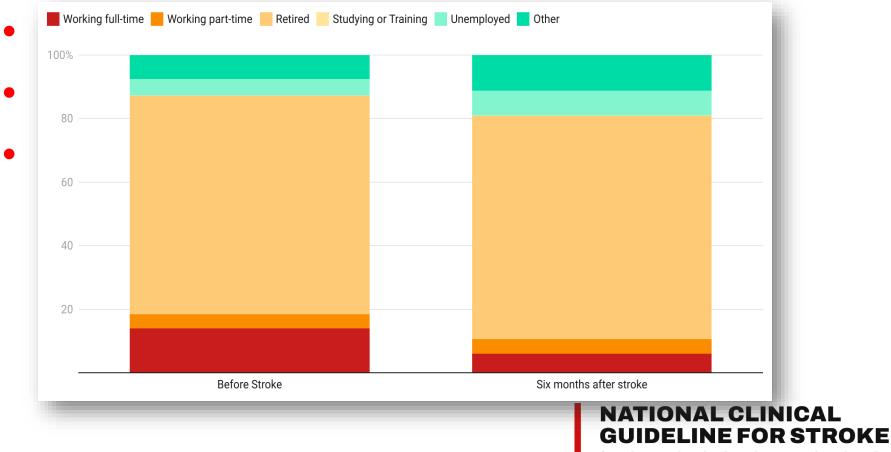
Speech & Language Therapy



- Significant consensus statements on areas where randomised trial evidence is weak:
- 'Rehabilitation potential'
- Return to work
- Post-stroke fatigue
- Life after stroke



Significant consensus statements on areas where randomised trial evidence is weak:



for the United Kingdom and Ireland

Signi rar Fatigue after stroke Stroke Helpline: 0303 3033 100

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Stroke Helpline: 0303 3033 100 or email: helpline@stroke.org.uk Stroke Association

where

Fatigue affects most stroke survivors, and it can have a big effect on your life. This guide looks at the causes and impact of fatigue, and suggests practical ways you can help yourself and seek support.

What is post-stroke fatigue?

Fatigue is different from normal tiredness, as it doesn't seem to get better with rest. It can happen after any type of stroke, big or small. You can find out how to understand the triggers for your fatigue, and how to manage it. Fatigue can get better over time, and you can help to improve your recovery by getting support and trying techniques for managing

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Online-only access at www.strokeguideline.org

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National Clinical Guideline for Stroke for the UK and Ireland

The National Clinical Guideline for Stroke for the UK and Ireland provides authoritative, evidence-based practice guidance to improve the quality of care delivered to every adult who has a stroke in the United Kingdom and Ireland, regardless of age, gender, type of stroke, location, or any other feature. The guideline is intended for:

- Those providing care nurses, doctors, allied health professionals, health and social care professionals, care staff
- Those receiving care patients, their families, their carers
- Those commissioning, providing or sanctioning stroke services
- Anyone seeking to improve the care of people with stroke.

The guideline is an initiative of the Intercollegiate Stroke Working Party. The fifth edition of the guideline was published in 2016. The 2023 edition is a partial update of the 2016 edition and was developed in collaboration with the Scottish Intercollegiate Guidelines Network (SIGN) and the National Clinical Programme for Stroke, Ireland. The 2023 edition is endorsed by the Royal College of Physicians, SIGN and the Royal College of Physicians of Ireland.



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the new home

of the National

Clinical

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Care after stroke or transient ischaemic attack

What, when, and why?

Plain language summary for people affected by stroke





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Those essential changes in a nutshell

- **1. Big expansion** of eligible patient groups for **reperfusion therapy** with 'advanced imaging'
 - Thrombolysis up to 9 hours and wake-up stroke
 - Basilar artery thrombosis up to 12 hours
 - Thrombectomy with established infarction and salvageable brain tissue up to 24 hours
- **2. More aggressive** secondary prevention
- **3. More intensive** rehab in hospital and at home

All available from **Tues 4th April 12:00** at **www.strokeguideline.org**

