This Current Awareness Bulletin is produced by the Yeovil Academy Library to provide staff with a range of stroke-related resources to support practice. It includes recently published guidelines and research articles, as well as news and policy items.

### Systematic Reviews

**Telerehabilitation services for stroke**
Kate E Laver, Zoe Adey-Wakeling, Maria Crotty, Natasha A Lannin, Stacey George, Catherine Sherrington
Intervention Review
31 January 2020

**Organised inpatient (stroke unit) care for stroke: network meta-analysis**
Peter Langhorne, Samantha Ramachandra, Stroke Unit Trialists' Collaboration
Intervention Review
23 April 2020
- New search

**Physical fitness training for stroke patients**
David H Saunders, Mark Sanderson, Sara Hayes, Liam Johnson, Sharon Kramer, Daniel D Carter, Hannah Jarvis, Miriam Brazzelli, Gillian E Mead
Intervention Review
20 March 2020
- New search
- Conclusions changed

**Motor neuroprosthesis for promoting recovery of function after stroke**
Luciana A Mendes, Illia NDF Lima, Tulio Souza, George C do Nascimento, Vanessa R Resqueti, Guilherme AF Fregonezi
Intervention Review
14 January 2020
Pharmacological, psychological, and non-invasive brain stimulation interventions for treating depression after stroke
Sabine Allida, Katherine Laura Cox, Cheng-Fang Hsieh, Helen Lang, Allan House, Maree L Hackett
Intervention Review
28 January 2020
- New search
- Conclusions changed

Carotid artery stenting versus endarterectomy for treatment of carotid artery stenosis
Mandy D Müller, Philippe Lyrer, Martin M Brown, Leo H Bonati
Intervention Review
25 February 2020
- New search
- Conclusions changed

Transcranial Doppler sonography for detecting stenosis or occlusion of intracranial arteries in people with acute ischaemic stroke
Alessia Mattioni, Silvia Cenciarelli, Paolo Eusebi, Miriam Brazzelli, Tatiana Mazzoli, Massimo Del Sette, Carlo Gandolfo, Marinella Marinoni, Cinzia Finocchi, Valentina Saia, Stefano Ricci
Diagnostic Review
19 February 2020

Continual Long-Term Physiotherapy After Stroke
2020 Health Quality Ontario

Patent foramen ovale (PFO) closure in patients with cryptogenic ischaemic stroke
2020 SHTG Advice Statements

Prevalence of dysphagia and economic burden of aspiration pneumonia in patients with stroke or head and neck cancer
2020 Institute of Health Economics

Thrombolysis in Cerebral Infarction Grade 2C or 3 Represents a Better Outcome than 2B for Endovascular Thrombectomy in Acute Ischemic Stroke: A Network Meta-Analysis. (Abstract)
Full text: YDH
2020 World neurosurgery

Completeness of reporting of randomised controlled trials including people with transient ischaemic attack or stroke: A systematic review. (Full text)
Full text: YDH
2020 European Stroke Journal PubMed abstract

Predictors of malignant cerebral edema in cerebral artery infarction: A meta-analysis. (Abstract)
Full text: YDH
2020 Journal of the neurological sciences
Injections of ginkgo in the treatment of cerebral infarction: a systematic review and network Meta-analysis. (Abstract)
Full text: YDH
2020 Journal of traditional Chinese medicine

Salvianolic Acids for Injection Combined with Conventional Treatment for Patients with Acute Cerebral Infarction: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. (Full text)
Full text: YDH
2020 Medical science monitor : international medical journal of experimental and clinical research

Full text: YDH
2020 Journal of pediatric psychology

Genetic variants on chromosome 9p21 confer risks of cerebral infarction in the Chinese population: a meta-analysis. (Full text)
Full text: YDH
2020 International journal of immunopathology and pharmacology PubMed abstract

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Initial assessment and management of acute stroke
The main goals in the initial phase of acute stroke management are to ensure medical stability, to quickly reverse conditions that are contributing to the patient’s problem, to determine if patients with acute ischemic stroke are candidates for thrombolytic therapy, and to begin to uncover the pathophysiologic basis of the neurologic symptoms.

Overview of the evaluation of stroke
Literature review current through: Apr 2020. | This topic last updated: Jan 02, 2020.
Cerebrovascular disease is caused by one of several pathophysiologic processes involving the blood vessels of the brain.

Clinical diagnosis of stroke subtypes
Stroke is classified into three main subtypes: intracerebral hemorrhage (ICH), subarachnoid hemorrhage (SAH), and ischemic stroke. The classification of stroke is discussed in detail separately. Patient demographic variables, the presence of stroke risk factors, and findings from the history and physical examination may suggest certain stroke subtypes. This presumptive clinical diagnosis requires confirmation by brain and vascular imaging.
Please click on the blue link (where available) to access the full text. You may need an OpenAthens username and password. To register for an OpenAthens account click here.

If you would like help obtaining any of the articles, please contact the Library.

**NICE Healthcare Databases**

1. **The UK Stroke Forum Conference 2019: an overview.**
   - **Author(s):** Cooper, Brian
   - **Source:** British Journal of Neuroscience Nursing; Apr 2020; vol. 16 (no. Sup2)
   - **Publication Date:** Apr 2020
   - **Publication Type(s):** Academic Journal
   - Available at [British Journal of Neuroscience Nursing - from MAG Online Library](#)
   - The article discusses the 14th Stroke Forum Conference from December 3 to 5, 2019 at the International Centre in Telford, England, including the presentation "What’s hot and what’s next?", a report on the Paramedic Acute Stroke Treatment Assessment (PASTA) trial, and a report on the Edinburgh Stroke Trials.
   - **Database:** CINAHL

2. **How primary care can help survivors of transient ischaemic attack and stroke return to work: focus groups with stakeholders from a UK community.**
   - **Author(s):** Balasooriya-Smeekens; Bateman, Andrew; Mant, Jonathan; De Simoni, Anna
   - **Source:** British Journal of General Practice; Apr 2020; vol. 70 (no. 693)
   - **Publication Date:** Apr 2020
   - **Publication Type(s):** Academic Journal
   - **PubMedID:** NLM31988086
   - Improving the role for primary care in helping survivors of TIA/stroke return to work is challenging. However, primary care could play a central role in initiating/coordinating vocational rehabilitation. Through focus group discussions with stakeholders from a local community, patients, carers, and clinical commissioners were able to put forward concrete proposals to address the barriers identified.
   - **Database:** CINAHL

3. **Estimated societal costs of stroke in the UK based on a discrete event simulation.**
   - **Author(s):** Patel; Berdunov, Vladislav; Quayyum, Zahidul; King, Derek; Knapp, Martin; Wittenberg, Raphael
   - **Source:** Age & Ageing; Mar 2020; vol. 49 (no. 2); p. 270-276
   - **Publication Date:** Mar 2020
   - **Publication Type(s):** Academic Journal
   - Available at [Age and ageing - from Unpaywall](#)
   - The estimated aggregate cost of stroke substantially exceeds previous UK estimates. Since most of the cost is attributed to unpaid care, interventions aimed at rehabilitation and reducing new and recurrent stroke are likely to yield substantial benefits to carers and cost savings to society.
   - **Database:** CINAHL
4. The future incidence, prevalence and costs of stroke in the UK.

Author(s): King; Wittenberg, Raphael; Patel, Anita; Quayyum, Zahid; Berdunov, Vladislav; Knapp, Martin

Source: Age & Ageing; Mar 2020; vol. 49 (no. 2); p. 277-282

Publication Date: Mar 2020

Publication Type(s): Academic Journal

Available at Age and Ageing - from Unpaywall

The costs of stroke care in the UK are expected to rise rapidly over the next two decades unless measures to prevent strokes and to reduce the disabling effects of strokes can be successfully developed and implemented.

Database: CINAHL

5. A mixed methodology, non-interventional study to evaluate the use of direct oral anticoagulants in UK clinical practice for patients with a first stroke associated with non-valvular atrial fibrillation: study protocol.

Author(s): Bhat; Dixit, Anand; Mistri, Amit; Patel, Bhavini; Quoraishi, Sadat Haider; Uprichard, James

Source: BMC Neurology; Nov 2019; vol. 19 (no. 1)

Publication Date: Nov 2019

Publication Type(s): Academic Journal

PubMedID: NLM31783738

Available at BMC neurology - from BioMed Central
Available at BMC neurology - from Europe PubMed Central - Open Access
Available at BMC neurology - from ProQuest (Health Research Premium) - NHS Version
Available at BMC neurology - from Unpaywall

This mixed methodology study will provide new real world insights into the characteristics and management pathways and patient-reported experiences of this important group of patients. It is anticipated that the results of this study will provide the medical community and patients with important information to inform clinical decision-making and help facilitate meaningful improvements in the care of patients with non-valvular AF.

Database: CINAHL


Author(s): Bryant; McErlean, D.; Datta-Chaudhuri, M.; Prakash, K. G.; Morell, J.

Source: Age & Ageing; Feb 2020; vol. 49

Publication Date: Feb 2020

Publication Type(s): Academic Journal

PDSA style audit led to quality improvement. The identification of urinary continence status post stroke was high, but due to multifactorial elements often did not progress to assessment or intervention from the MDT. Utilising the existing role of the trainee advanced practitioner patients received evidence-based continence reviews in a timely manner, with no additional cost impact to the service.

Database: CINAHL

**Author(s):** McMeekin ; Flynn, Darren; Allen, Mike; Coughlan, Diarmuid; Ford, Gary A.; Lumley, Hannah; Balami

**Source:** BMC Health Services Research; Nov 2019; vol. 19 (no. 1); p. 1-11

**Publication Date:** Nov 2019

**Publication Type(s):** Academic Journal

**PubMedID:** NLM31703684

Available at [BMC health services research](https://www.biomedcentral.com/1472-6963/19/1) - from BioMed Central

Available at [BMC health services research](https://pubmed.ncbi.nlm.nih.gov/31703684/) - from Europe PubMed Central - Open Access

Available at [BMC health services research](https://proquest.umi.com/psp/periodical/bmc-health-services-research) - from ProQuest (Health Research Premium) - NHS Version

Available at [BMC health services research](https://www.unpaywall.org) - from Unpaywall

Changes in acute stroke service configuration will produce clinical and cost benefits when the time taken for patients to receive treatment is reduced. Benefits are highly likely to be cost saving over 5 years before any capital investment above £8 million is required.

**Database:** CINAHL

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8. Real-world data on the incidence, mortality, and cost of ischaemic stroke and major bleeding events among non-valvular atrial fibrillation patients in England.

**Author(s):** Bakhai, Ameet; Petri, Hans; Vahidnia, Farnaz; Wolf, Cyrill; Ding, Yingjie; Foskett, Nadia; Sculpher, Mark

**Source:** Journal of evaluation in clinical practice; Apr 2020

**Publication Date:** Apr 2020

**Publication Type(s):** Journal Article

**PubMedID:** 32314853


Available at [Journal of evaluation in clinical practice](https://www.unpaywall.org) - from Unpaywall

These data provide temporal insights into AF treatment patterns and outcomes for NVAF patients in England and highlight the need to review higher stroke risk AF patients not receiving antiplatelet/antithrombotic prescriptions.

**Database:** Medline

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**Author(s):** Thomas, Karen; Hjalmarsson, Clarissa; Mullis, Ricky; Mant, Jonathan

**Source:** BMJ open; Dec 2019; vol. 9 (no. 12); p. e033066

**Publication Date:** Dec 2019

**Publication Type(s):** Journal Article

**PubMedID:** 31826895

Available at [BMJ open](https://bmj.com) - from Europe PubMed Central - Open Access

Available at [BMJ open](https://bmj.com) - from HighWire - Free Full Text

Available at [BMJ open](https://bmj.com) - from ProQuest (Health Research Premium) - NHS Version

Therapists working with stroke survivors conceptualise and manage PSF in different ways. Clinical practice is hampered by a lack of a widely adopted definition, and a small evidence base. Research into causes and management of PSF is a priority.

**Database:** Medline
Approximately half of the AF patients received optimal ATT according to guideline recommendations, which was associated with a lower risk of stroke. Furthermore, there was no interaction for the 2 populations and the influence of ATT adherence.
In the News

‘Fit and healthy’ UK nurse in critical care after contracting coronavirus
24 March, 2020

Fish oil supplements ‘linked’ to lower risk of heart disease and death
06 March, 2020

Eating an egg a day does not increase CVD risk, finds nurses’ study
06 March, 2020

Low blood pressure linked to high mortality in older people
06 March, 2020

‘No demonstrable value’ of omega 3 supplements for preventing cancer
02 March, 2020

Typical risk factors ‘not to blame’ for menopause heart disease links
26 February, 2020

A diet high in fruit, veg, fibre and dairy is linked to lower stroke risk, study finds
Tuesday 25 February 2020

Good sleep linked to lower risk of heart attack and stroke
Thursday 19 December 2019

Difficulty sleeping linked with raised risk of heart attack and stroke
Thursday 7 November 2019

This current awareness bulletin contains an inexhaustive selection of information that has not been critically appraised by library staff. It is therefore the responsibility of the reader to appraise this information for accuracy and relevance.

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