

WSO Future Leaders Program Document Library

"If you were stuck on a desert island, and could only bring ONE article or resource for EACH of the following topics, what would it be?"

1. Stroke Epidemiology

- i. GDB 2016 Stroke Collaborators. **Global, regional, and national burden of stroke, 1990–2016: a systematic analysis for the Global Burden of Disease Study 2016.** *Lancet Neurol* 2019; 18: 439–58 March 11, 2019 [http://dx.doi.org/10.1016/S1474-4422\(19\)30034-1](http://dx.doi.org/10.1016/S1474-4422(19)30034-1)
- ii. Gorelick P. **The Global Burden of Stroke: Persisting and Disabling.** *Lancet Neurol.* 2019 May;18(5):439-458. doi: 10.1016/S1474-4422(19)30034-1. 2019 [https://www.thelancet.com/journals/laneur/article/PIIS1474-4422\(19\)30030-4/fulltext](https://www.thelancet.com/journals/laneur/article/PIIS1474-4422(19)30030-4/fulltext)
- iii. Donkor E. S. (2018). **Stroke in the 21st Century: A Snapshot of the Burden, Epidemiology, and Quality of Life.** *Stroke research and treatment*, 2018, 3238165. <https://doi.org/10.1155/2018/3238165>
- iv. Mitchell C, Gittins M, Tyson S, Vail A, Conroy P, Paley L, Bowen A. **Prevalence of aphasia and dysarthria among inpatient stroke survivors: describing the population, therapy provision and outcomes on discharge.** *Aphasiology.* 2020. DOI: 10.1080/02687038.2020.175977
- v. Virani SS et al. **American Heart Association Council on Epidemiology and Prevention Statistics Committee and Stroke Statistics Subcommittee. Heart Disease and Stroke Statistics-2020 Update: A Report From the American Heart Association.** *Circulation.* 2020;141(9):e139-e596. doi: 10.1161/CIR.0000000000000757
- vi. Lindsay MP, Norrving B, Sacco RL, Brainin M, Hacke W, Martins S, Pandian J, Feigin V. **World Stroke Organization (WSO): Global Stroke Fact Sheet 2019** *Int J Stroke.* 2019 Oct;14(8):806-817.

- vii. Lindsay P, Furie KL, Davis SM, Donnan GA, Norrving B. **World Stroke Organization global stroke services guidelines and action plan.** Int J Stroke. 2014 Oct;9 Suppl A100:4-13.
- viii. Norrving B, et al. **Action Plan for Stroke in Europe.** Eur Stroke J. 2018 Dec;3(4):309-336.
- ix. Ouriques Martins SC, et al. **Priorities to reduce the burden of stroke in Latin American countries.** Lancet Neurol. 2019 Jul;18(7):674-683

2. Stroke Anatomy and Pathophysiology

- i. **Pathology, anatomy, and pathophysiology of stroke.** By Louis R Caplan, David S Liebeskind. Edited by Louis R. Caplan Publisher: Cambridge University Press. DOI: <https://doi.org/10.1017/CBO9781316095805.003>
- ii. Caplan, L., & Van Gijn, J. (Eds.). (2012). **Stroke Syndromes, 3ed** (3rd ed.). Cambridge: Cambridge University Press. doi:10.1017/CBO9781139093286
- iii. Saver, 2005. **Time is Brain - Quantified.** Stroke <https://www.ahajournals.org/doi/full/10.1161/01.STR.0000196957.55928.ab>
- iv. **Radiology Assistant. Neuroradiology: Brain Ischemia** Index. <https://radiologyassistant.nl/neuroradiology/brain-ischemia>
- v. Campbell, B.C.V., De Silva, D.A., Macleod, M.R. *et al.* **Ischaemic stroke.** *Nat Rev Dis Primers* 5, 70 (2019). <https://doi.org/10.1038/s41572-019-0118-8>.
- vi. Auriel, E. **Anatomy and Pathophysiology of Stroke.** Stroke 2009 DOI: 10.1159/000210267. https://www.researchgate.net/publication/239781861_Anatomy_and_Pathophysiology_of_Stroke

- vii. Caviness VS, et al. **Anatomy of stroke, Part I: an MRI-based topographic and volumetric System of analysis.** Stroke. 2002.
- viii. Caviness VS, et al. **Anatomy of stroke, Part II: volumetric characteristics with implications for the local architecture of the cerebral perfusion system.** Stroke. 2002.
- ix. Thiel A, Zumbansen A. **The pathophysiology of post-stroke aphasia: A network approach.** Restor Neurol Neurosci. 2016 Jun 13;34(4):507-18. doi: 10.3233/RNN-150632. PMID: 27314978.
- x. Hart RG, Catanese L, Perera KS, Ntaios G, Connolly SJ. **Embolic Stroke of Undetermined Source: A Systematic Review and Clinical Update.** Stroke. 2017;48:867–872. doi: 10.1161/STROKEAHA.116.016414

3. Hyper-acute and Acute Stroke Management

- i. Zerna C et al. **Stroke 1. Current practice and future directions in the diagnosis and acute treatment of ischaemic stroke.** *Lancet* 2018; 392: 1247–56
- ii. Powers WJ, et al; American Heart Association Stroke Council. **Guidelines for the Early Management of Patients With Acute Ischemic Stroke: 2019 Update to the 2018 Guidelines for the Early Management of Acute Ischemic Stroke: A Guideline for Healthcare Professionals From the American Heart Association/American Stroke Association.** Stroke. 2019;50:e344–e418.
- iii. Middleton et al, 2011 **Implementation of evidence-based treatment protocols to manage fever, hyperglycaemia, and swallowing dysfunction in acute stroke (QASC): a cluster randomised controlled trial.** The Lancet.
- iv. Jauch E. Et al. **Hyperacute Stroke Management.** <https://www.futuremedicine.com/doi/pdf/10.2217/ebo.12.482>

- v. **Update on Treatment of Acute Ischemic Stroke.** Continuum (Minneapolis, Minn). 2020 Apr;26(2):268-286. doi: 10.1212/CON.0000000000000840
- vi. Schrag M, Kirshner H. **Management of Intracerebral Hemorrhage: JACC Focus Seminar.** J Am Coll Cardiol. 2020 Apr, 75 (15) 1819–1831. <https://www.jacc.org/doi/pdf/10.1016/j.jacc.2019.10.066>
- vii. Ferro JM, et al for the European Stroke Organization. **European Stroke Organization guideline for the diagnosis and treatment of cerebral venous thrombosis** - endorsed by the European Academy of Neurology. Eur J Neurol. 2017 Oct;24(10):1203-1213. doi: 10.1111/ene.13381. Epub 2017 Aug 20. PMID: 28833980. <https://pubmed.ncbi.nlm.nih.gov/28833980/>
- viii. **Cluster-Randomized, Crossover Trial of Head Positioning in Acute Stroke.** June 22, 2017 N Engl J Med 2017; 376:2437-2447. DOI: 10.1056/NEJMoa1615715.
- ix. **Effect of Routine Low-Dose Oxygen Supplementation on Death and Disability in Adults With Acute Stroke. The Stroke Oxygen Study Randomized Clinical Trial.** JAMA. 2017;318(12):1125-1135. doi:10.1001/jama.2017.11463
- x. **Prehospital transdermal glyceryl trinitrate in patients with ultra-acute presumed stroke (RIGHT-2): an ambulance-based, randomized, sham-controlled, blinded, phase 3 trial.** Lancet, Volume 393, ISSUE 10175, P1009-1020, March 09, 2019. DOI:[https://doi.org/10.1016/S0140-6736\(19\)30194-](https://doi.org/10.1016/S0140-6736(19)30194-)
- xi. **Intensive blood pressure reduction with intravenous thrombolysis therapy for acute ischaemic stroke (ENCHANTED): an international, randomized, open-label, blinded-endpoint, phase 3 trial.** The Lancet, Volume 393, ISSUE 10174, P877-888, March 02, 2019. DOI:[https://doi.org/10.1016/S0140-6736\(19\)30038-8](https://doi.org/10.1016/S0140-6736(19)30038-8)

- xii. **Intensive vs Standard Treatment of Hyperglycemia and Functional Outcome in Patients With Acute Ischemic Stroke - The SHINE Randomized Clinical Trial.** JAMA. 2019;322(4):326-335. doi:10.1001/jama.2019.9346
- xiii. **Thrombolysis Guided by Perfusion Imaging up to 9 Hours after Onset of Stroke.** NEJM 2019; 380:1795-1803. DOI: 10.1056/NEJMoa1813046
- xiv. **Extending thrombolysis to 4·5–9 h and wake-up stroke using perfusion imaging: a systematic review and meta-analysis of individual patient data.** The Lancet, Volume 394, ISSUE 10193, P139-147, July 13, 2019. DOI:[https://doi.org/10.1016/S0140-6736\(19\)31053-0](https://doi.org/10.1016/S0140-6736(19)31053-0).
- xv. **An injectable implant to stimulate the sphenopalatine ganglion for treatment of acute ischaemic stroke up to 24 h from onset (ImpACT-24B): an international, randomised, double-blind, sham-controlled, pivotal trial.** The Lancet, volume 394, ISSUE 10193, P139-147, July 13, 2019. DOI:[https://doi.org/10.1016/S0140-6736\(19\)31192-4](https://doi.org/10.1016/S0140-6736(19)31192-4)
- xvi. Jones V, Finch E, Copley A. **Aphasia and reperfusion therapies in hyper-acute settings: A scoping review.** Int J Speech Lang Pathol. 2019 Aug;21(4):355-367. doi: 10.1080/17549507.2018.1448894. Epub 2018 Apr 3. PMID: 29614891.
- xvii. Meretoja A, Strbian D, Mustanoja S, Tatlisumak T, Lindsberg PJ, Kaste M. **Reducing in-hospital delay to 20 minutes in stroke thrombolysis.** Neurology. 2012;79(4):306-13. doi: 10.1212/WNL.0b013e31825d6011.
- xviii. Campbell BCV, Khatri P. **Stroke.** Lancet. 2020 Jul 11;396:129-142.
- xix. Cordonnier C, et al. **Intracerebral haemorrhage: current approaches to acute management** Lancet 2018 Oct 6;392(10154):1257-1268. doi: 10.1016/S0140-6736(18)31878-6.

4. Stroke Prevention

- i. Pandian JD et al. **Stroke 3 - Prevention of stroke: a global perspective.** *Lancet* 2018; 392: 1269–78. doi: 10.1016/S0140-6736(18)31269-8. PMID: 30319114.
- ii. Kernan WN, et al. **Guidelines for the prevention of stroke in patients with stroke and transient ischemic attack: a guideline for healthcare professionals from the American Heart Association/American Stroke Association.** *Stroke.* 2014 Jul;45(7):2160-236. doi: 10.1161/STR.0000000000000024
- iii. Yan et al 2020. **Nurse led smartphone electrographic monitoring for atrial fibrillation after ischemic stroke: SPOT-AF.** *Journal of stroke* 2020; 22 (3); 387-395.
- iv. Hans-Christoph Diener, Graeme J. Hankey. **Primary and Secondary Prevention of Ischemic Stroke and Cerebral Hemorrhage.** *Journal of the American College of Cardiology* April 2020. 75(15):1804-1818. DOI: 10.1016/j.jacc.2019.12.072.
<https://www.jacc.org/doi/full/10.1016/j.jacc.2019.12.072>
- v. Brain Basics: Preventing Stroke.
<https://www.ninds.nih.gov/disorders/patient-caregiver-education/preventing-stroke>
- vi. Brainin M, et al. World Stroke Organization Board of Directors. **Global Prevention of Stroke and Dementia: the WSO Declaration.** *Lancet Neurol.* 2020 Jun;19(6):487-488.
- vii. Feigin VL, et al. **What Is the Best Mix of Population-Wide and High-Risk Targeted Strategies of Primary Stroke and Cardiovascular Disease Prevention?** *J Am Heart Assoc.* 2020 Feb 4;9(3)

- viii. Feigin VL, et al. **Prevention of stroke: a strategic global imperative.** Nat Rev Neurol. 2016 Sep;12(9):501-12.
- ix. Norrving B, et al. **Stroke Prevention Worldwide--What Could Make It Work?** Neuroepidemiology. 2015;45(3):215-20.
- x. RESTART Collaboration. **Effects of antiplatelet therapy after stroke due to intracerebral haemorrhage (RESTART): a randomised, open-label trial.** Lancet. 2019;393(10191):2613-2623. doi:10.1016/S0140-6736(19)30840-2.
- xi. Hachinski V, et al. **Special topic section: linkages among cerebrovascular, cardiovascular, and cognitive disorders: Preventing dementia by preventing stroke: The Berlin Manifesto.** Int J Stroke. 2019 Sep 22, Online ahead of print.
- xii. Anticoagulation for Atrial Fibrillation
 - i. RELY. <https://www.nejm.org/doi/full/10.1056/nejmoa0905561>
 - ii. ROCKET. <https://www.nejm.org/doi/full/10.1056/nejmoa1009638>
 - iii. ARISTOTLE.
<https://www.nejm.org/doi/full/10.1056/nejmoa1107039>
- xiii. PFO closure:
 - i. REDUCE. <https://www.nejm.org/doi/full/10.1056/NEJMoa1707404>
 - ii. CLOSE. <https://www.nejm.org/doi/full/10.1056/NEJMoa1705915>
 - iii. RESPECT.
<https://www.nejm.org/doi/full/10.1056/NEJMoa1610057>
- xiv. Left Atrial Appendage Closure:
<https://www.onlinejacc.org/content/65/24/2614.abstract>

5. Stroke Rehabilitation and Community Reintegration

- i. Winstein CJ, et al. **Guidelines for Adult Stroke Rehabilitation and Recovery: A Guideline for Healthcare Professionals From the American Heart Association/American Stroke Association.** *Stroke*. 2016 Jun;47(6):e98-e169. doi: 10.1161/STR.0000000000000098
- ii. Barnason, 2017. **Evidence for therapeutic patient education interventions to promote cardiovascular patient self management: a scientific statement for healthcare professionals from the AHA.** <https://www.ahajournals.org/doi/full/10.1161/hcq.0000000000000025>
- iii. Takeuchi, N. and S.I. Izumi. **Rehabilitation with Post-stroke Motor Recovery: A Review with a Focus on Neural Plasticity.** *Stroke Research and Treatment*, 2013. 2013: p. 128641.
- iv. **Post-stroke dementia - a comprehensive review.** *BMC Med* 2017 Jan 18;15(1):11. doi: 10.1186/s12916-017-0779-7.
- v. Ferro JM et al. **Neuropsychiatric sequelae of stroke.** *Nat Rev Neurol* 2016 May;12(5):269-80. doi: 10.1038/nrneurol.2016.46. Epub 2016 Apr 11.
- vi. **Evidence Based Review of Stroke Recovery.** Canadian Partnership for Stroke Recovery. <http://www.ebrsr.com/clinician-handbook>
- vii. **WSO Post-stroke CheCklist (PsC): Improving Life After Stroke.** <https://www.isprm.org/wp-content/uploads/2012/09/PSC-WSO-Version-English-03-27-13.pdf>
- viii. The AVERT Trial Collaboration Group. **Efficacy and safety of very early mobilisation within 24 h of stroke onset (AVERT): a randomised controlled trial.** Published online April 17, 2015 [http://dx.doi.org/10.1016/S0140-6736\(15\)60690-0](http://dx.doi.org/10.1016/S0140-6736(15)60690-0)
- ix. Stinear CM, et al. **Advances and challenges in stroke rehabilitation.** *Lancet Neurol*. 2020. Apr;19(4):348-360.

- x. Baker C, Worrall L, Rose M, Hudson K, Ryan B, O'Byrne L. **A systematic review of rehabilitation interventions to prevent and treat depression in post-stroke aphasia.** *Disabil Rehabil.* 2018 Aug;40(16):1870-1892. doi: 10.1080/09638288.2017.1315181. Epub 2017 Apr 19. PMID: 28420284
- xi. Mukherjee D, Levin RL, Heller W. **The cognitive, emotional, and social sequelae of stroke: psychological and ethical concerns in post-stroke adaptation.** *Top Stroke Rehabil.* 2006;13(4):26-35. doi: 10.1310/tsr1304-26.
- xii. **From Hospital to Home to Participation: A Position Paper on Transition Planning Poststroke.** *Arch Phys Med Rehabil.* 2019 Jun;100(6):1162-1175. doi: 10.1016/j.apmr.2018.10.017
- xiii. Winstein CJ et al. **Guidelines for Adult Stroke Rehabilitation and Recovery: A Guideline for Healthcare Professionals From the American Heart Association/American Stroke Association.** *Stroke* 2016 Jun;47(6):e98-e169. doi: 10.1161/STR.0000000000000098. Epub 2016 May 4.

6. Research Methods

- i. **Principles and Practice of Clinical Research, 4th Edition** Editors: John Gallin Frederick Ognibene Laura Lee Johnson eBook ISBN: 9780128499047. Imprint: Academic Press Published Date: 16th November 2017
- ii. Australian Clinical Trials Alliance. **Consumer Involvement and Engagement Toolkit.** 2020 <https://clinicaltrialsalliance.org.au/resource/consumer-involvement-toolkit/>
- iii. O'Cathain A, Croot L, Duncan E, *et al.* **Guidance on how to develop complex interventions to improve health and healthcare.** *BMJ Open* 2019;9:e029954. doi: 10.1136/bmjopen-2019-029954

- iv. Bowling, A. **Research Methods in Health - Investigating Health and Health Services.** <https://blackwells.co.uk/bookshop/product/Research-Methods-in-Health-by-Ann-Bowling-author/9780335262748>
- v. **World Stroke Academy Clinical Research Package.** https://world-stroke-academy.org/wso/#!*listing=3*browseby=2*sortby=1*label=19043*featured=16429
- vi. Pollock A, Berge E. **How to do a systematic review.** Int J Stroke. 2018 Feb;13(2):138-156
- vii. Charalambous M, Kambanaros M, Annoni JM. **Are People with Aphasia (PWA) Involved in the Creation of Quality of Life and Aphasia Impact-Related Questionnaires? A Scoping Review.** Brain Sci. 2020 Sep 29;10(10):E688. doi: 10.3390/brainsci10100688. PMID: 33003493
- viii. Goodman S. **A dirty dozen: twelve p-value misconceptions.** Semin Hematol. 2008;45(3):135-40. doi: 10.1053/j.seminhematol.2008.04.003. Erratum in: Semin Hematol. 2011;48(4):302.
- ix. **Trial design and reporting standards for intra-arterial cerebral thrombolysis for acute ischemic stroke.** Stroke. 2003 Aug;34(8):e109-37. doi: 10.1161/01.STR.0000082721.62796.09