

CLNEG055: Clinical Manifestations of Stroke

[View Online](#)

A. Gregory Sorensen. 2011. 'Transient Ischemic Attack Definition, Diagnosis, and Risk Stratification'. *Neuroimaging Clinics of North America* 21 (2).
<https://doi.org/10.1016/j.nic.2011.01.013>.

Adams, Robert J., Virgil C. McKie, Lewis Hsu, Beatrice Files, Elliott Vichinsky, Charles Pegelow, Miguel Abboud, et al. 1998. 'Prevention of a First Stroke by Transfusions in Children with Sickle Cell Anemia and Abnormal Results on Transcranial Doppler Ultrasonography'. *New England Journal of Medicine* 339 (1): 5–11.
<https://doi.org/10.1056/NEJM199807023390102>.

Albers, Gregory W., Louis R. Caplan, J. Donald Easton, Pierre B. Fayad, J.P. Mohr, Jeffrey L. Saver, and David G. Sherman. 2002. 'Transient Ischemic Attack — Proposal for a New Definition'. *New England Journal of Medicine* 347 (21): 1713–16.
<https://doi.org/10.1056/NEJMs020987>.

'Antiplatelet Treatment Compared with Anticoagulation Treatment for Cervical Artery Dissection (CADISS): A Randomised Trial'. 2015. *The Lancet Neurology* 14 (4): 361–67.
[https://doi.org/10.1016/S1474-4422\(15\)70018-9](https://doi.org/10.1016/S1474-4422(15)70018-9).

Arboix, Adrià, Luis García-Eroles, Juan Massons, Montserrat Oliveres, and Cecilia Targa. 2000. 'Hemorrhagic Lacunar Stroke'. *Cerebrovascular Diseases* 10 (3): 229–34.
<https://doi.org/10.1159/000016061>.

Asch, Charlotte JJ van, Merel JA Luitse, Gabriël JE Rinkel, Ingeborg van der Tweel, Ale Algra, and Catharina JM Klijn. 2010. 'Incidence, Case Fatality, and Functional Outcome of Intracerebral Haemorrhage over Time, According to Age, Sex, and Ethnic Origin: A Systematic Review and Meta-Analysis'. *The Lancet Neurology* 9 (2): 167–76.
[https://doi.org/10.1016/S1474-4422\(09\)70340-0](https://doi.org/10.1016/S1474-4422(09)70340-0).

Bamiou, Doris Eva. 2015. 'Hearing Disorders in Stroke'. In *The Human Auditory System - Fundamental Organization and Clinical Disorders*, 129:633–47. Elsevier.
<https://doi.org/10.1016/B978-0-444-62630-1.00035-4>.

Barker, Peter B., Xavier Golay, and Gregory Zaharchuk, eds. 2013. *Clinical Perfusion MRI: Techniques and Applications*. Cambridge: Cambridge University Press.
<http://dx.doi.org/10.1017/CBO9781139004053>.

Bonita, R., J. Duncan, T. Truelsen, R. T Jackson, and R. Beaglehole. 1999. 'Passive Smoking as Well as Active Smoking Increases the Risk of Acute Stroke'. *Tobacco Control* 8 (2): 156–60. <https://doi.org/10.1136/tc.8.2.156>.

Bourcier, R., C. Papagiannaki, R. Bibi, J.P. Cottier, and D. Herbreteau. 2012. 'Intracranial Dissection: Incidence and Long Term Endovascular Treatment Results of a Not so Rare Disease'. *Clinical Neurology and Neurosurgery* 114 (9): 1248-53. <https://doi.org/10.1016/j.clineuro.2012.03.017>.

Charidimou, A., A. Peeters, Z. Fox, S. M. Gregoire, Y. Vandermeeren, P. Laloux, H. R. Jager, J.-C. Baron, and D. J. Werring. 2012. 'Spectrum of Transient Focal Neurological Episodes in Cerebral Amyloid Angiopathy: Multicentre Magnetic Resonance Imaging Cohort Study and Meta-Analysis'. *Stroke* 43 (9): 2324-30. <https://doi.org/10.1161/STROKEAHA.112.657759>.
Chen, Celia S., Andrew W. Lee, Gayle Clarke, Allison Hayes, Stacey George, Robyn Vincent, Annette Thompson, et al. 2009. 'Vision-Related Quality of Life in Patients with Complete Homonymous Hemianopia Post Stroke'. *Topics in Stroke Rehabilitation* 16 (6): 445-53. <https://doi.org/10.1310/tsr1606-445>.

Coull, A J. 2004. 'Population Based Study of Early Risk of Stroke after Transient Ischaemic Attack or Minor Stroke: Implications for Public Education and Organisation of Services'. *BMJ* 328 (7435). <https://doi.org/10.1136/bmj.37991.635266.44>.

Coutts, Shelagh B., Jayesh Modi, Shiel K. Patel, Andrew M. Demchuk, Mayank Goyal, and Michael D. Hill. 2012. 'CT/CT Angiography and MRI Findings Predict Recurrent Stroke After Transient Ischemic Attack and Minor Stroke'. *Stroke* 43 (4): 1013-17. <https://doi.org/10.1161/STROKEAHA.111.637421>.

Cumblér, E., H. Wald, D. L. Bhatt, M. Cox, Y. Xian, M. Reeves, E. E. Smith, L. Schwamm, and G. C. Fonarow. 2014. 'Quality of Care and Outcomes for In-Hospital Ischemic Stroke: Findings From the National Get With The Guidelines-Stroke'. *Stroke* 45 (1): 231-38. <https://doi.org/10.1161/STROKEAHA.113.003617>.

Dewey, H. M., A. G. Thrift, C. Mihalopoulos, R. Carter, R. A.L. Macdonell, J. J. McNeil, and G. A. Donnan. 2003. 'Lifetime Cost of Stroke Subtypes in Australia: Findings From the North East Melbourne Stroke Incidence Study (NEMESIS)'. *Stroke* 34 (10): 2502-7. <https://doi.org/10.1161/01.STR.0000091395.85357.09>.

Easton, J. D., J. L. Saver, G. W. Albers, M. J. Alberts, S. Chaturvedi, E. Feldmann, T. S. Hatsukami, et al. 2009. 'Definition and Evaluation of Transient Ischemic Attack: A Scientific Statement for Healthcare Professionals From the American Heart Association/American Stroke Association Stroke Council; Council on Cardiovascular Surgery and Anesthesia; Council on Cardiovascular Radiology and Intervention; Council on Cardiovascular Nursing; and the Interdisciplinary Council on Peripheral Vascular Disease: The American Academy of Neurology Affirms the Value of This Statement as an Educational Tool for Neurologists.' *Stroke* 40 (6): 2276-93. <https://doi.org/10.1161/STROKEAHA.108.192218>.

Enrico Floßmann. 2003. 'Prognosis of Vertebrobasilar Transient Ischaemic Attack and Minor Stroke'. *Brain* 126 (9): 1940-54. <http://brain.oxfordjournals.org/content/126/9/1940.long>.

Fairhead, J. F., Z. Mehta, and P. M. Rothwell. 2005. 'Population-Based Study of Delays in Carotid Imaging and Surgery and the Risk of Recurrent Stroke'. *Neurology* 65 (3): 371-75. <https://doi.org/10.1212/01.WNL.0000170368.82460.b4>.

Feigin, Valery L, Carlene MM Lawes, Derrick A Bennett, Suzanne L Barker-Collo, and Varsha Parag. 2009. 'Worldwide Stroke Incidence and Early Case Fatality Reported in 56

Population-Based Studies: A Systematic Review'. *The Lancet Neurology* 8 (4): 355–69. [https://doi.org/10.1016/S1474-4422\(09\)70025-0](https://doi.org/10.1016/S1474-4422(09)70025-0).

Fisch, Adam. 2012. 'Arterial Supply'. In *Neuroanatomy*, 317–38. Oxford University Press. <https://doi.org/10.1093/med/9780199845712.003.0251>.

Fischer, U., A. Baumgartner, M. Arnold, K. Nedeltchev, J. Gralla, G. Marco De Marchis, L. Kappeler, et al. 2010. 'What Is a Minor Stroke?' *Stroke* 41 (4): 661–66. <https://doi.org/10.1161/STROKEAHA.109.572883>.

Flaherty, M. L., B. Kissela, D. Woo, D. Kleindorfer, K. Alwell, P. Sekar, C. J. Moomaw, M. Haverbusch, and J. P. Broderick. 2007. 'The Increasing Incidence of Anticoagulant-Associated Intracerebral Hemorrhage'. *Neurology* 68 (2): 116–21. <https://doi.org/10.1212/01.wnl.0000250340.05202.8b>.

Gory, Benjamin, Islam Eldesouky, Rotem Sivan-Hoffmann, Murielle Rabilloud, Elodie Ong, Roberto Riva, Dorin Nicolae Gherasim, Alexis Turjman, Norbert Nighoghossian, and Francis Turjman. 2016. 'Outcomes of Stent Retriever Thrombectomy in Basilar Artery Occlusion: An Observational Study and Systematic Review'. *Journal of Neurology, Neurosurgery & Psychiatry* 87 (5): 520–25. <https://doi.org/10.1136/jnnp-2014-310250>.

Hart, R. G., and M. C. Kanter. 1990. 'Hematologic Disorders and Ischemic Stroke. A Selective Review'. *Stroke* 21 (8): 1111–21. <https://doi.org/10.1161/01.STR.21.8.1111>.

Hart, R., and B. Hindman. 1982. 'Mechanisms of Perioperative Cerebral Infarction'. *Stroke* 13 (6): 766–73. <https://doi.org/10.1161/01.STR.13.6.766>.

Hogue, C. W., S. F. Murphy, K. B. Schechtman, and V. G. Davila-Roman. 1999. 'Risk Factors for Early or Delayed Stroke After Cardiac Surgery'. *Circulation* 100 (6): 642–47. <https://doi.org/10.1161/01.CIR.100.6.642>.

Jones, Derek K. 2011. *Diffusion MRI: Theory, Methods, and Applications*. New York: Oxford University Press. <http://dx.doi.org/10.1093/med/9780195369779.001.0001>.

Kirkham, Fenella J. 2007. 'Therapy Insight: Stroke Risk and Its Management in Patients with Sick Cell Disease'. *Nature Clinical Practice Neurology* 3 (5): 264–78. <https://doi.org/10.1038/ncpneuro0495>.

Kleinloog, Rachel, Luca Regli, Gabriel J E Rinkel, and Catharina J M Klijn. 2012. 'Regional Differences in Incidence and Patient Characteristics of Moyamoya Disease: A Systematic Review'. *Journal of Neurology, Neurosurgery & Psychiatry* 83 (5): 531–36. <https://doi.org/10.1136/jnnp-2011-301387>.

L. Marquardt. 2009. 'Incidence and Prognosis of ≥50% Symptomatic Vertebral or Basilar Artery Stenosis: Prospective Population-Based Study'. *Brain* 132 (4): 982–88. <http://brain.oxfordjournals.org/content/132/4/982.long>.

L. Varennes. 2015. 'Fibromuscular Dysplasia: What the Radiologist Should Know: A Pictorial Review'. *Insights into Imaging* 6 (3). <https://doi.org/doi:10.1007/s13244-015-0382-4>.

Liebeskind, D. S. 2003. 'Collateral Circulation'. *Stroke* 34 (9): 2279–84. <https://doi.org/10.1161/01.STR.0000086465.41263.06>.

Losseff, Nicholas, Matthew Adams, Martin M. Brown, Joan Grieve, and Robert Simister. 2016a. 'Stroke and Cerebrovascular Diseases'. In *Neurology*, edited by Charles Clarke, Robin Howard, Martin Rossor, and Simon Shorvon, 133–85. Chichester, UK: John Wiley & Sons, Ltd. <https://doi.org/10.1002/9781118486160.ch5>.

———. 2016b. 'Stroke and Cerebrovascular Diseases'. In *Neurology*, edited by Charles Clarke, Robin Howard, Martin Rossor, and Simon Shorvon, 133–85. Chichester, UK: John Wiley & Sons, Ltd. <https://doi.org/10.1002/9781118486160.ch5>.

Louw, S. J. 2002. 'Stroke Medicine-Ethical and Legal Considerations'. *Age and Ageing* 31 (90003): 31–35. https://doi.org/10.1093/ageing/31.suppl_3.31.

Markus, H. S, and H. Hambley. 1998. 'Neurology and the Blood: Haematological Abnormalities in Ischaemic Stroke'. *Journal of Neurology, Neurosurgery & Psychiatry* 64 (2): 150–59. <https://doi.org/10.1136/jnnp.64.2.150>.

Markus, Hugh S, H Bart van der Worp, and Peter M Rothwell. 2013. 'Posterior Circulation Ischaemic Stroke and Transient Ischaemic Attack: Diagnosis, Investigation, and Secondary Prevention'. *The Lancet Neurology* 12 (10): 989–98. [https://doi.org/10.1016/S1474-4422\(13\)70211-4](https://doi.org/10.1016/S1474-4422(13)70211-4).

Menshawi, Khaled. 2015. 'A Functional Perspective on the Embryology and Anatomy of the Cerebral Blood Supply'. *Journal of Stroke* 17 (2): 144–58. <https://doi.org/10.5853/jos.2015.17.2.144>.

Meretoja, A., D. Strbian, J. Putaala, S. Curtze, E. Haapaniemi, S. Mustanoja, T. Sairanen, et al. 2012. 'SMASH-U: A Proposal for Etiologic Classification of Intracerebral Hemorrhage'. *Stroke* 43 (10): 2592–97. <https://doi.org/10.1161/STROKEAHA.112.661603>.

Mohr, Jay P. 2013. 'History of Transient Ischemic Attack Definition'. In *TIA as Acute Cerebrovascular Syndrome*, edited by S. Uchiyama, P. Amarenco, K. Minematsu, and K.S.L. Wong, 33:1–10. Basel: S. KARGER AG. <https://doi.org/10.1159/000351883>.

Nagel, Maria A., and Don Gilden. 2014. 'Update on Varicella Zoster Virus Vasculopathy'. *Current Infectious Disease Reports* 16 (6). <https://doi.org/10.1007/s11908-014-0407-z>.

Omura, Motoko, Noriko Aida, Kenichi Sekido, Masae Kakehi, and Sho Matsubara. 1997. 'Large Intracranial Vessel Occlusive Vasculopathy after Radiation Therapy in Children: Clinical Features and Usefulness of Magnetic Resonance Imaging'. *International Journal of Radiation Oncology*Biology*Physics* 38 (2): 241–49. [https://doi.org/10.1016/S0360-3016\(97\)82497-2](https://doi.org/10.1016/S0360-3016(97)82497-2).

Ovbiagele, B., C. S. Kidwell, and J. L. Saver. 2003. 'Epidemiological Impact in the United States of a Tissue-Based Definition of Transient Ischemic Attack'. *Stroke* 34 (4): 919–24. <https://doi.org/10.1161/01.STR.0000064323.65539.A7>.

Pantoni, Leonardo. 2010. 'Cerebral Small Vessel Disease: From Pathogenesis and Clinical Characteristics to Therapeutic Challenges'. *The Lancet Neurology* 9 (7): 689–701. [https://doi.org/10.1016/S1474-4422\(10\)70104-6](https://doi.org/10.1016/S1474-4422(10)70104-6).

Poon, M. T. C., A. F. Fonville, and R. Al-Shahi Salman. 2014. 'Long-Term Prognosis after Intracerebral Haemorrhage: Systematic Review and Meta-Analysis'. *Journal of Neurology*,

Neurosurgery & Psychiatry 85 (6): 660–67. <https://doi.org/10.1136/jnnp-2013-306476>.

Roth, T., A. N. Sokolov, A. Messias, P. Roth, M. Weller, and S. Trauzettel-Klosinski. 2009. 'Comparing Explorative Saccade and Flicker Training in Hemianopia: A Randomized Controlled Study'. *Neurology* 72 (4): 324–31. <https://doi.org/10.1212/01.wnl.0000341276.65721.f2>.

Rothman, Steven M., and John W. Olney. 1986. 'Glutamate and the Pathophysiology of Hypoxic-Ischemic Brain Damage'. *Annals of Neurology* 19 (2): 105–11. <https://doi.org/10.1002/ana.410190202>.

Rowe, F., D. Brand, C. A. Jackson, A. Price, L. Walker, S. Harrison, C. Eccleston, et al. 2008. 'Visual Impairment Following Stroke: Do Stroke Patients Require Vision Assessment?' *Age and Ageing* 38 (2): 188–93. <https://doi.org/10.1093/ageing/afn230>.

Runchey, Shauna, and Steven McGee. 2010. 'Does This Patient Have a Hemorrhagic Stroke?' *JAMA* 303 (22). <https://doi.org/10.1001/jama.2010.754>.

Saltman, Alexandra P., Frank L. Silver, Jiming Fang, Melissa Stamplecoski, and Moira K. Kapral. 2015. 'Care and Outcomes of Patients With In-Hospital Stroke'. *JAMA Neurology* 72 (7). <https://doi.org/10.1001/jamaneurol.2015.0284>.

Searls, D. Eric. 2012. 'Symptoms and Signs of Posterior Circulation Ischemia in the New England Medical Center Posterior Circulation Registry'. *Archives of Neurology* 69 (3). <https://doi.org/10.1001/archneurol.2011.2083>.

'Secondary Prevention in Non-Rheumatic Atrial Fibrillation after Transient Ischaemic Attack or Minor Stroke'. 1993. *The Lancet* 342 (8882). [https://doi.org/10.1016/0140-6736\(93\)92358-Z](https://doi.org/10.1016/0140-6736(93)92358-Z).

Spitzyna, G. A., R.J.S. Wise, S. A. McDonald, G. T. Plant, D. Kidd, H. Crewes, and A. P. Leff. 2007. 'Optokinetic Therapy Improves Text Reading in Patients with Hemianopic Alexia: A Controlled Trial'. *Neurology* 68 (22): 1922–30. <https://doi.org/10.1212/01.wnl.0000264002.30134.2a>.

Staaf, Gert, Bo Geijer, Arne Lindgren, and Bo Norrving. 2003. 'Diffusion-Weighted MRI Findings in Patients with Capsular Warning Syndrome'. *Cerebrovascular Diseases* 17 (1): 1–8. <https://doi.org/10.1159/000073891>.

Wardlaw, Joanna M, Eric E Smith, Geert J Biessels, Charlotte Cordonnier, Franz Fazekas, Richard Frayne, Richard I Lindley, et al. 2013. 'Neuroimaging Standards for Research into Small Vessel Disease and Its Contribution to Ageing and Neurodegeneration'. *The Lancet Neurology* 12 (8): 822–38. [https://doi.org/10.1016/S1474-4422\(13\)70124-8](https://doi.org/10.1016/S1474-4422(13)70124-8).

Wilson, D., M. E. Adams, F. Robertson, M. Murphy, and D. J. Werring. 2015. 'Investigating Intracerebral Haemorrhage'. *BMJ* 350 (may20 10): h2484–h2484. <https://doi.org/10.1136/bmj.h2484>.

Wilson, Duncan, Andreas Charidimou, and David J Werring. 2014. 'Advances in Understanding Spontaneous Intracerebral Hemorrhage: Insights from Neuroimaging'. *Expert Review of Neurotherapeutics* 14 (6): 661–78. <https://doi.org/10.1586/14737175.2014.918506>.