

CLNEG058: Neurorehabilitation

[View Online](#)

1.

Murphy TH, Corbett D. Plasticity during stroke recovery: from synapse to behaviour. *Nature Reviews Neuroscience*. 2009;10(12):861-872. doi:10.1038/nrn2735

2.

Ward NS. Restoring brain function after stroke — bridging the gap between animals and humans. *Nature Reviews Neurology*. 2017;13(4):244-255. doi:10.1038/nrneurol.2017.34

3.

Reinkensmeyer DJ, Burdet E, Casadio M, et al. Computational neurorehabilitation: modeling plasticity and learning to predict recovery. *Journal of NeuroEngineering and Rehabilitation*. 2016;13(1). doi:10.1186/s12984-016-0148-3

4.

Steven R Zeiler. The interaction between training and plasticity in the post-stroke brain. *Current opinion in neurology*. 2013;26(6). doi:10.1097/WCO.0000000000000025

5.

Kitago T, Krakauer JW. Motor learning principles for neurorehabilitation. In: *Neurological Rehabilitation*. Vol 110. Elsevier; 2013:93-103. doi:10.1016/B978-0-444-52901-5.00008-3

6.

Carmichael ST. Brain Excitability in Stroke. Archives of Neurology. 2012;69(2). doi:10.1001/archneurol.2011.1175

7.

Ward NS. Does neuroimaging help to deliver better recovery of movement after stroke? Current Opinion in Neurology. 2015;28(4):323-329. doi:10.1097/WCO.0000000000000223

8.

Archy O. de Berker. Predicting the behavioral impact of transcranial direct current stimulation: issues and limitations. Frontiers in Human Neuroscience. 2013;7. doi:10.3389/fnhum.2013.00613

9.

Bhagal SK, Teasell R, Speechley M, Albert ML. Intensity of Aphasia Therapy, Impact on Recovery * Aphasia Therapy Works! Stroke. 2003;34(4):987-993. doi:10.1161/01.STR.0000062343.64383.D0

10.

Brady MC, Kelly H, Godwin J, Enderby P, Campbell P. Speech and language therapy for aphasia following stroke. Cochrane Database of Systematic Reviews. Published online 1 June 2016. doi:10.1002/14651858.CD000425.pub4

11.

Breitenstein C, Grewe T, Flöel A, et al. Intensive speech and language therapy in patients with chronic aphasia after stroke: a randomised, open-label, blinded-endpoint, controlled trial in a health-care setting. The Lancet. 2017;389(10078):1528-1538. doi:10.1016/S0140-6736(17)30067-3

12.

Dignam J, Copland D, McKinnon E, et al. Intensive Versus Distributed Aphasia Therapy. Stroke. 2015;46(8):2206-2211. doi:10.1161/STROKEAHA.115.009522

13.

Berthier ML. Cognitive enhancing drugs in aphasia: A vote for hope. *Aphasiology*. 2014;28(2):128-132. doi:10.1080/02687038.2013.857756

14.

Bhagal SK, Teasell R, Speechley M, Albert ML. Intensity of Aphasia Therapy, Impact on Recovery * Aphasia Therapy Works! *Stroke*. 2003;34(4):987-993. doi:10.1161/01.STR.0000062343.64383.D0

15.

Brady MC, Kelly H, Godwin J, Enderby P, Campbell P. Speech and language therapy for aphasia following stroke. *Cochrane Database of Systematic Reviews*. Published online 1 June 2016. doi:10.1002/14651858.CD000425.pub4

16.

Klonoff PS. *Psychotherapy after Brain Injury: Principles and Techniques*. The Guilford Press; 2010.

17.

Quality Assurance Standards for physiotherapy service delivery | The Chartered Society of Physiotherapy. <http://www.csp.org.uk/publications/quality-assurance-standards>

18.

Code of ethics and professional conduct.
https://www.rcot.co.uk/sites/default/files/CODE-OF-ETHICS-2015_0.pdf

19.

James SEF M. Contractures in orthopaedic and neurological conditions: a review of causes and treatment. *Disability and Rehabilitation*. 2001;23(13):549-558. doi:10.1080/09638280010029930

20.

Harvey L, de Jong I, Goehl G, Marwedel S. Twelve weeks of nightly stretch does not reduce thumb web-space contractures in people with a neurological condition: a randomised controlled trial. *Australian Journal of Physiotherapy*. 2006;52(4):251-258. doi:10.1016/S0004-9514(06)70004-6

21.

Kilbride C, Hoffman K, Baird T, Tuckey J, Marston L, Souza LD. Contemporary splinting practice in the UK for adults with neurological dysfunction: A cross-sectional survey. *International Journal of Therapy and Rehabilitation*. 2013;20(11):559-566. doi:10.12968/ijtr.2013.20.11.559

22.

Lannin NA, Horsley SA, Herbert R, McCluskey A, Cusick A. Splinting the hand in the functional position after brain impairment: A randomized, controlled trial. *Archives of Physical Medicine and Rehabilitation*. 2003;84(2):297-302. doi:10.1053/apmr.2003.50031

23.

Lannin NA, Cusick A, McCluskey A, Herbert RD. Effects of Splinting on Wrist Contracture After Stroke: A Randomized Controlled Trial. *Stroke*. 2007;38(1):111-116. doi:10.1161/01.STR.0000251722.77088.12

24.

PA Mortenson. The use of casts in the management of joint mobility and hypertonia following brain injury in adults: a systematic review. Published online 2003. <https://www.ncbi.nlm.nih.gov/pubmedhealth/PMH0020153/>

25.

Moorhouse P, Rockwood K. Vascular cognitive impairment: current concepts and clinical developments. *The Lancet Neurology*. 2008;7(3):246-255. doi:10.1016/S1474-4422(08)70040-1

26.

Rehabilitation of cognitive impairment post stroke.

http://www.ebrsr.com/sites/default/files/Chapter%205_Cognitive.pdf

27.

Chaudhuri A, Behan PO. Fatigue in neurological disorders. *The Lancet*. 2004;363(9413):978-988. doi:10.1016/S0140-6736(04)15794-2

28.

Duncan F, Wu S, Mead GE. Frequency and natural history of fatigue after stroke: A systematic review of longitudinal studies. *Journal of Psychosomatic Research*. 2012;73(1):18-27. doi:10.1016/j.jpsychores.2012.04.001

29.

De Doncker W, Dantzer R, Ormstad H, Kuppuswamy A. Mechanisms of poststroke fatigue. *Journal of Neurology, Neurosurgery & Psychiatry*. Published online 22 September 2017. doi:10.1136/jnnp-2017-316007

30.

Kuppuswamy A. The fatigue conundrum. *Brain*. 2017;140(8):2240-2245. doi:10.1093/brain/awx153

31.

Kuppuswamy A, Clark EV, Turner IF, Rothwell JC, Ward NS. Post-stroke fatigue: a deficit in corticomotor excitability? *Brain*. 2015;138(1):136-148. doi:10.1093/brain/awu306

32.

Kuppuswamy A, Clark E, Rothwell J, Ward NS. Limb Heaviness. *Neurorehabilitation and Neural Repair*. 2016;30(4):360-362. doi:10.1177/1545968315597071

33.

Clinical Guidelines for Stroke Management 2017.

<https://informme.org.au/Guidelines/Clinical-Guidelines-for-Stroke-Management-2017>

34.

Howlett OA, Lannin NA, Ada L, McKinstry C. Functional Electrical Stimulation Improves Activity After Stroke: A Systematic Review With Meta-Analysis. *Archives of Physical Medicine and Rehabilitation*. 2015;96(5):934-943. doi:10.1016/j.apmr.2015.01.013

35.

Lee JH, Baker LL, Johnson RE, Tilson JK. Effectiveness of neuromuscular electrical stimulation for management of shoulder subluxation post-stroke: a systematic review with meta-analysis. *Clinical Rehabilitation*. 2017;31(11):1431-1444. doi:10.1177/0269215517700696

36.

Nascimento LR, Michaelsen SM, Ada L, Polese JC, Teixeira-Salmela LF. Cyclical electrical stimulation increases strength and improves activity after stroke: a systematic review. *Journal of Physiotherapy*. 2014;60(1):22-30. doi:10.1016/j.jphys.2013.12.002

37.

Pollock A, Farmer SE, Brady MC, et al. Interventions for improving upper limb function after stroke. *Cochrane Database of Systematic Reviews*. Published online 12 November 2014. doi:10.1002/14651858.CD010820.pub2

38.

Rushton DN. Functional Electrical Stimulation and rehabilitation—an hypothesis. *Medical Engineering & Physics*. 2003;25(1):75-78. doi:10.1016/S1350-4533(02)00040-1

39.

Stein C, Fritsch CG, Robinson C, Sbruzzi G, Plentz RDM. Effects of Electrical Stimulation in Spastic Muscles After Stroke. *Stroke*. 2015;46(8):2197-2205. doi:10.1161/STROKEAHA.115.009633

40.

Vafadar AK, Côté JN, Archambault PS. Effectiveness of Functional Electrical Stimulation in Improving Clinical Outcomes in the Upper Arm following Stroke: A Systematic Review and Meta-Analysis. *BioMed Research International*. 2015;2015:1-14. doi:10.1155/2015/729768

41.

Veerbeek JM, van Wegen E, van Peppen R, et al. What Is the Evidence for Physical Therapy Poststroke? A Systematic Review and Meta-Analysis. *PLoS ONE*. 2014;9(2). doi:10.1371/journal.pone.0087987

42.

The national service framework for long term conditions.
<https://www.gov.uk/government/publications/quality-standards-for-supporting-people-with-long-term-conditions>

43.

James K. The Strands of Speech and Language Therapy: Weaving a Therapy Plan for Neurorehabilitation. *Speechmark*; 2011.

44.

Ylvisaker M, Feeney T. Reflections on Dobermanns, poodles, and social rehabilitation for difficult-to-serve individuals with traumatic brain injury. *Aphasiology*. 2000;14(4):407-431. doi:10.1080/026870300401432

45.

Ylvisaker M, Feeney T. Reconstruction of Identity After Brain Injury. *Brain Impairment*. 2000;1(01):12-28. doi:10.1375/brim.1.1.12

46.

C. Katz, Brooke Hallowell, Chris Co R. A multinational comparison of aphasia management practices. *International Journal of Language & Communication Disorders*. 2000;35(2):303-314. doi:10.1080/136828200247205

47.

Holland AL. Language Disorders in Adults: Recent Advances. College-Hill Press; 1984.

48.

Kleim JA, Jones TA. Principles of Experience-Dependent Neural Plasticity: Implications for Rehabilitation After Brain Damage. *Journal of Speech Language and Hearing Research*. 2008;51(1). doi:10.1044/1092-4388(2008/018)

49.

Journal of Rehabilitation Medicine - Abstract - The arm studio to intensify the upper limb rehabilitation after stroke: Concept, acceptance, utilization and preliminary clinical results.
<https://medicaljournals.se/jrm/content/abstract/10.2340/16501977-0517>

50.

Liao W wen, Wu C yi, Hsieh Y wei, Lin K chung, Chang W ying. Effects of robot-assisted upper limb rehabilitation on daily function and real-world arm activity in patients with chronic stroke: a randomized controlled trial. *Clinical Rehabilitation*. 2012;26(2):111-120. doi:10.1177/0269215511416383

51.

Journal of Rehabilitation Medicine - Abstract - Evaluation of functional outcome measures for the hemiparetic upper limb: A systematic review.
<https://www.medicaljournals.se/jrm/content/abstract/10.2340/16501977-0276>

52.

Baker K, Cano SJ, Playford ED. Outcome Measurement in Stroke: A Scale Selection Strategy. *Stroke*. 2011;42(6):1787-1794. doi:10.1161/STROKEAHA.110.608505

53.

Buchbinder R, Green S, Youd JM, Johnston RV, Cumpston M. Arthrographic distension for adhesive capsulitis (frozen shoulder). *Cochrane Database of Systematic Reviews*.

Published online 23 January 2008. doi:10.1002/14651858.CD007005

54.

Subhasish Chatterjee. The California Tri-pull Taping Method in the Treatment of Shoulder Subluxation After Stroke: A Randomized Clinical Trial. *North American Journal of Medical Sciences*. 2016;8(4). doi:10.4103/1947-2714.179933

55.

Chae J, Mascarenhas D, Yu DT, et al. Poststroke Shoulder Pain: Its Relationship to Motor Impairment, Activity Limitation, and Quality of Life. *Archives of Physical Medicine and Rehabilitation*. 2007;88(3):298-301. doi:10.1016/j.apmr.2006.12.007

56.

Gamble GE, Barberan E, Bowsher D, Tyrrell PJ, Jones AKP. Post stroke shoulder pain: more common than previously realized. *European Journal of Pain*. 2000;4(3):313-315. doi:10.1053/eujp.2000.0192

57.

Green S, Buchbinder R, Hetrick SE. Physiotherapy interventions for shoulder pain. *Cochrane Database of Systematic Reviews*. Published online 22 April 2003. doi:10.1002/14651858.CD004258

58.

Effects of neuromuscular electrical stimulation on arterial hemodynamic properties and body composition in paretic upper extremities of patients with subacute stroke. http://biomedj.cgu.edu.tw/pdfs/2014/37/4/images/BiomedJ_2014_37_4_205_117892.pdf

59.

Use of an integrated care pathway: a third round audit of the management of shoulder pain in neurological conditions. <https://medicaljournals.se/jrm/content/abstract/10.1080/16501970310012446>

60.

McDonald S, Togher L, Code C. Social and Communication Disorders Following Traumatic Brain Injury. Second edition. Psychology Press, Taylor & Francis Group; 2014.

61.

Mateer CA, Sira CS, O'Connell ME. Putting Humpty Dumpty Together Again. *Journal of Head Trauma Rehabilitation*. 2005;20(1):62-75. doi:10.1097/00001199-200501000-00007

62.

Tornås S, Løvstad M, Solbakk AK, et al. Rehabilitation of Executive Functions in Patients with Chronic Acquired Brain Injury with Goal Management Training, External Cuing, and Emotional Regulation: A Randomized Controlled Trial. *Journal of the International Neuropsychological Society*. 2016;22(04):436-452. doi:10.1017/S1355617715001344

63.

McMillan TM, Wood RL, eds. *Neurobehavioural Disability and Social Handicap Following Traumatic Brain Injury*. Second edition. Routledge; 2017.

64.

Winegardner J, Keohane C, Prince L, Neumann D. Perspective training to treat anger problems after brain injury: Two case studies. *NeuroRehabilitation*. 2016;39(1):153-162. doi:10.3233/NRE-161347

65.

Cipolotti L, Warrington EK. Neuropsychological assessment. *Journal of Neurology, Neurosurgery & Psychiatry*. 1995;58(6):655-664. doi:10.1136/jnnp.58.6.655

66.

Sachdev PS, Lipnicki DM, Crawford JD, Wen W, Brodaty H. Progression of cognitive impairment in stroke/TIA patients over 3 years. *Journal of Neurology, Neurosurgery & Psychiatry*. 2014;85(12):1324-1330. doi:10.1136/jnnp-2013-306776

67.

Nys GMS, van Zandvoort MJE, de Kort PLM, et al. The prognostic value of domain-specific cognitive abilities in acute first-ever stroke. *Neurology*. 2005;64(5):821-827. doi:10.1212/01.WNL.0000152984.28420.5A

68.

Hurford R, Charidimou A, Fox Z, Cipolotti L, Werring DJ. Domain-specific trends in cognitive impairment after acute ischaemic stroke. *Journal of Neurology*. 2013;260(1):237-241. doi:10.1007/s00415-012-6625-0

69.

Van Heugten CM, Walton L, Hentschel U. Can we forget the Mini-Mental State Examination? A systematic review of the validity of cognitive screening instruments within one month after stroke. *Clinical Rehabilitation*. 2015;29(7):694-704. doi:10.1177/0269215514553012

70.

Manually add a new bookmark | University College London.

<http://readinglists.ucl.ac.uk/ui/forms/bookmarklet.html?fast=true&title=Journal%20of%20Rehabilitation%20Medicine%20-%20Abstract%20-%20Screening%20for%20cognitive%20impairment%20after%20stroke%3A%20A%20systematic%20review%20of%20psychometric%20properties%20and%20clinical%20utility&uri=https%253A%252F%252Fwww.medicaljournals.se%252Fjrm%252Fcontent%252Fabstract%252F10.2340%252F16501977-1930>

71.

Chan E, Altendorff S, Healy C, Werring DJ, Cipolotti L. The test accuracy of the Montreal Cognitive Assessment (MoCA) by stroke lateralisation. *Journal of the Neurological Sciences*. 2017;373:100-104. doi:10.1016/j.jns.2016.12.028

72.

Chan E, Khan S, Oliver R, Gill SK, Werring DJ, Cipolotti L. Underestimation of cognitive impairments by the Montreal Cognitive Assessment (MoCA) in an acute stroke unit population. *Journal of the Neurological Sciences*. 2014;343(1-2):176-179. doi:10.1016/j.jns.2014.05.005

73.

Craig P, Dieppe P, Macintyre S, Michie S, Nazareth I, Petticrew M. Developing and evaluating complex interventions: the new Medical Research Council guidance. *BMJ*. Published online 29 September 2008. doi:10.1136/bmj.a1655

74.

Katz RC, Wertz RT. The Efficacy of Computer-Provided Reading Treatment for Chronic Aphasic Adults. *Journal of Speech Language and Hearing Research*. 1997;40(3). doi:10.1044/jslhr.4003.493

75.

Marshall J, Booth T, Devane N, et al. Evaluating the Benefits of Aphasia Intervention Delivered in Virtual Reality: Results of a Quasi-Randomised Study. *PLOS ONE*. 2016;11(8). doi:10.1371/journal.pone.0160381

76.

Palmer R, Enderby P, Cooper C, et al. Computer Therapy Compared With Usual Care for People With Long-Standing Aphasia Poststroke: A Pilot Randomized Controlled Trial. *Stroke*. 2012;43(7):1904-1911. doi:10.1161/STROKEAHA.112.650671

77.

Varley R, Cowell PE, Dyson L, Inglis L, Roper A, Whiteside SP. Self-Administered Computer Therapy for Apraxia of Speech. *Stroke*. Published online 21 January 2016. doi:10.1161/STROKEAHA.115.011939

78.

Bowen A, Hazelton C, Pollock A, Lincoln NB. Cognitive rehabilitation for spatial neglect following stroke. *Cochrane Database of Systematic Reviews*. Published online 1 July 2013. doi:10.1002/14651858.CD003586.pub3

79.

Corbetta M, Kincade MJ, Lewis C, Snyder AZ, Sapir A. Neural basis and recovery of spatial attention deficits in spatial neglect. *Nature Neuroscience*. 2005;8(11):1603-1610.

doi:10.1038/nn1574

80.

Ferro JM, Mariano G, Madureira S. Recovery from Aphasia and Neglect. *Cerebrovascular Diseases*. 1999;9(Suppl. 5):6-22. doi:10.1159/000047571

81.

Frassinetti F, Angeli V, Meneghello F, Avanzi S, Ladavas E. Long-lasting amelioration of visuospatial neglect by prism adaptation. *Brain*. 2002;125(3):608-623. doi:10.1093/brain/awf056

82.

Gorgoraptis N, Mah YH, Machner B, et al. The effects of the dopamine agonist rotigotine on hemispatial neglect following stroke. *Brain*. 2012;135(8):2478-2491. doi:10.1093/brain/aws154

83.

Kaplan RF, Verfaellie M, Meadows ME, Caplan LR, Pessin MS, DeWitt LD. Changing Attentional Demands in Left Hemispatial Neglect. *Archives of Neurology*. 1991;48(12):1263-1266. doi:10.1001/archneur.1991.00530240067023

84.

Kerkhoff G, Bucher L, Brasse M, et al. Smooth Pursuit "Bedside" Training Reduces Disability and Unawareness During the Activities of Daily Living in Neglect. *Neurorehabilitation and Neural Repair*. 2014;28(6):554-563. doi:10.1177/1545968313517757

85.

Koiava N, Ong YH, Brown MM, Acheson J, Plant GT, Leff AP. A 'web app' for diagnosing hemianopia. *Journal of Neurology, Neurosurgery & Psychiatry*. 2012;83(12):1222-1224. doi:10.1136/jnnp-2012-302270

86.

Grieve JL. Neuropsychology for Occupational Therapists: Cognition in Occupational Performance. Fourth edition. (Maskill L, Tempest S, eds.). Wiley Blackwell; 2017.

87.

Gillen G, St Bartholomew School of Nursing and Midwifery. Cognitive and Perceptual Rehabilitation: Optimizing Function. Mosby/Elsevier; 2009.

88.

Amy J. Bastian. Understanding sensorimotor adaptation and learning for rehabilitation. Current opinion in neurology. 2008;21(6). doi:10.1097/WCO.0b013e328315a293

89.

Bernhardt J, Thuy MN, Collier JM, Legg LA. Very early versus delayed mobilisation after stroke. Cochrane Database of Systematic Reviews. Published online 21 January 2009. doi:10.1002/14651858.CD006187.pub2

90.

Muscle strength and muscle training after stroke.
<https://www.medicaljournals.se/jrm/content/abstract/10.2340/16501977-0018>

91.

Carey L, Macdonell R, Matyas TA. SENSE: Study of the Effectiveness of Neurorehabilitation on Sensation. Neurorehabilitation and Neural Repair. 2011;25(4):304-313. doi:10.1177/1545968310397705

92.

Connell L, Tyson S. Measures of sensation in neurological conditions: a systematic review. Clinical Rehabilitation. 2012;26(1):68-80. doi:10.1177/0269215511412982

93.

Connell LA, McMahon NE, Adams N. Stroke survivors' experiences of somatosensory

impairment after stroke: An Interpretative Phenomenological Analysis. *Physiotherapy*. 2014;100(2):150-155. doi:10.1016/j.physio.2013.09.003

94.

Demetrios M, Khan F, Turner-Stokes L, Brand C, McSweeney S. Multidisciplinary rehabilitation following botulinum toxin and other focal intramuscular treatment for post-stroke spasticity. *Cochrane Database of Systematic Reviews*. Published online 5 June 2013. doi:10.1002/14651858.CD009689.pub2

95.

Doyle S, Bennett S, Fasoli SE, McKenna KT. Interventions for sensory impairment in the upper limb after stroke. *Cochrane Database of Systematic Reviews*. Published online 16 June 2010. doi:10.1002/14651858.CD006331.pub2

96.

Klemens Fheodoroff. Factors Influencing Goal Attainment in Patients with Post-Stroke Upper Limb Spasticity Following Treatment with Botulinum Toxin A in Real-Life Clinical Practice: Sub-Analyses from the Upper Limb International Spasticity (ULIS)-II Study. *Toxins*. 2015;7(4). doi:10.3390/toxins7041192