

CLNEG058: Neurorehabilitation

[View Online](#)

-
1.
Murphy, T. H. & Corbett, D. Plasticity during stroke recovery: from synapse to behaviour. *Nature Reviews Neuroscience* **10**, 861–872 (2009).
 2.
Ward, N. S. Restoring brain function after stroke — bridging the gap between animals and humans. *Nature Reviews Neurology* **13**, 244–255 (2017).
 3.
Reinkensmeyer, D. J. et al. Computational neurorehabilitation: modeling plasticity and learning to predict recovery. *Journal of NeuroEngineering and Rehabilitation* **13**, (2016).
 4.
Steven R Zeiler. The interaction between training and plasticity in the post-stroke brain. *Current opinion in neurology* **26**, (2013).
 5.
Kitago, T. & Krakauer, J. W. Motor learning principles for neurorehabilitation. in *Neurological Rehabilitation* vol. 110 93–103 (Elsevier, 2013).
 6.
Carmichael, S. T. Brain Excitability in Stroke. *Archives of Neurology* **69**, (2012).

7.

Ward, N. S. Does neuroimaging help to deliver better recovery of movement after stroke? *Current Opinion in Neurology* **28**, 323–329 (2015).

8.

Archy O. de Berker. Predicting the behavioral impact of transcranial direct current stimulation: issues and limitations. *Frontiers in Human Neuroscience* **7**, (2013).

9.

Bhogal, S. K., Teasell, R., Speechley, M. & Albert, M. L. Intensity of Aphasia Therapy, Impact on Recovery * Aphasia Therapy Works! *Stroke* **34**, 987–993 (2003).

10.

Brady, M. C., Kelly, H., Godwin, J., Enderby, P. & Campbell, P. Speech and language therapy for aphasia following stroke. *Cochrane Database of Systematic Reviews* (2016)
doi:10.1002/14651858.CD000425.pub4.

11.

Breitenstein, C. 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* **389**, 1528–1538 (2017).

12.

Dignam, J. et al. Intensive Versus Distributed Aphasia Therapy. *Stroke* **46**, 2206–2211 (2015).

13.

Berthier, M. L. Cognitive enhancing drugs in aphasia: A vote for hope. *Aphasiology* **28**, 128–132 (2014).

14.

Bhogal, S. K., Teasell, R., Speechley, M. & Albert, M. L. Intensity of Aphasia Therapy, Impact on Recovery * Aphasia Therapy Works! Stroke **34**, 987–993 (2003).

15.

Brady, M. C., Kelly, H., Godwin, J., Enderby, P. & Campbell, P. Speech and language therapy for aphasia following stroke. Cochrane Database of Systematic Reviews (2016) doi:10.1002/14651858.CD000425.pub4.

16.

Klonoff, P. S. 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.

19.

James, S. E. F., M. Contractures in orthopaedic and neurological conditions: a review of causes and treatment. Disability and Rehabilitation **23**, 549–558 (2001).

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 **52**, 251–258 (2006).

21.

Kilbride, C. et al. Contemporary splinting practice in the UK for adults with neurological dysfunction: A cross-sectional survey. International Journal of Therapy and Rehabilitation

20, 559–566 (2013).

22.

Lannin, N. A., Horsley, S. A., 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* **84**, 297–302 (2003).

23.

Lannin, N. A., Cusick, A., McCluskey, A. & Herbert, R. D. Effects of Splinting on Wrist Contracture After Stroke: A Randomized Controlled Trial. *Stroke* **38**, 111–116 (2007).

24.

PA Mortenson. The use of casts in the management of joint mobility and hypertonia following brain injury in adults: a systematic review. (2003).

25.

Moorhouse, P. & Rockwood, K. Vascular cognitive impairment: current concepts and clinical developments. *The Lancet Neurology* **7**, 246–255 (2008).

26.

Rehabilitation of cognitive impairment post stroke.

27.

Chaudhuri, A. & Behan, P. O. Fatigue in neurological disorders. *The Lancet* **363**, 978–988 (2004).

28.

Duncan, F., Wu, S. & Mead, G. E. Frequency and natural history of fatigue after stroke: A systematic review of longitudinal studies. *Journal of Psychosomatic Research* **73**, 18–27 (2012).

29.

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

30.

Kuppuswamy, A. The fatigue conundrum. *Brain* **140**, 2240–2245 (2017).

31.

Kuppuswamy, A., Clark, E. V., Turner, I. F., Rothwell, J. C. & Ward, N. S. Post-stroke fatigue: a deficit in corticomotor excitability? *Brain* **138**, 136–148 (2015).

32.

Kuppuswamy, A., Clark, E., Rothwell, J. & Ward, N. S. Limb Heaviness. *Neurorehabilitation and Neural Repair* **30**, 360–362 (2016).

33.

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

34.

Howlett, O. A., Lannin, N. A., Ada, L. & McKinstry, C. Functional Electrical Stimulation Improves Activity After Stroke: A Systematic Review With Meta-Analysis. *Archives of Physical Medicine and Rehabilitation* **96**, 934–943 (2015).

35.

Lee, J.-H., Baker, L. L., Johnson, R. E. & Tilson, J. K. Effectiveness of neuromuscular electrical stimulation for management of shoulder subluxation post-stroke: a systematic review with meta-analysis. *Clinical Rehabilitation* **31**, 1431–1444 (2017).

36.

Nascimento, L. R., Michaelsen, S. M., Ada, L., Polese, J. C. & Teixeira-Salmela, L. F. Cyclical electrical stimulation increases strength and improves activity after stroke: a systematic review. *Journal of Physiotherapy* **60**, 22–30 (2014).

37.

Pollock, A. et al. Interventions for improving upper limb function after stroke. *Cochrane Database of Systematic Reviews* (2014) doi:10.1002/14651858.CD010820.pub2.

38.

Rushton, D. N. Functional Electrical Stimulation and rehabilitation—an hypothesis. *Medical Engineering & Physics* **25**, 75–78 (2003).

39.

Stein, C., Fritsch, C. G., Robinson, C., Sbruzzi, G. & Plentz, R. D. M. Effects of Electrical Stimulation in Spastic Muscles After Stroke. *Stroke* **46**, 2197–2205 (2015).

40.

Vafadar, A. K., Côté, J. N. & Archambault, P. S. 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**, 1–14 (2015).

41.

Veerbeek, J. M. et al. What Is the Evidence for Physical Therapy Poststroke? A Systematic Review and Meta-Analysis. *PLoS ONE* **9**, (2014).

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* **14**, 407–431 (2000).

45.

Ylvisaker, M. & Feeney, T. Reconstruction of Identity After Brain Injury. *Brain Impairment* **1**, 12–28 (2000).

46.

C. Katz, Brooke Hallowell, Chris Co, R. A multinational comparison of aphasia management practices. *International Journal of Language & Communication Disorders* **35**, 303–314 (2000).

47.

Holland, A. L. *Language disorders in adults: recent advances*. (College-Hill Press, 1984).

48.

Kleim, J. A. & Jones, T. A. Principles of Experience-Dependent Neural Plasticity: Implications for Rehabilitation After Brain Damage. *Journal of Speech Language and Hearing Research* **51**, (2008).

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., Wu, C., Hsieh, Y., Lin, K. & Chang, W. 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* **26**, 111–120 (2012).

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, S. J. & Playford, E. D. Outcome Measurement in Stroke: A Scale Selection Strategy. *Stroke* **42**, 1787–1794 (2011).

53.

Buchbinder, R., Green, S., Youd, J. M., Johnston, R. V. & Cumpston, M. Arthrographic distension for adhesive capsulitis (frozen shoulder). *Cochrane Database of Systematic Reviews* (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* **8**, (2016).

55.

Chae, J. et al. Poststroke Shoulder Pain: Its Relationship to Motor Impairment, Activity Limitation, and Quality of Life. *Archives of Physical Medicine and Rehabilitation* **88**, 298–301 (2007).

56.

Gamble, G. E., Barberan, E., Bowsher, D., Tyrrell, P. J. & Jones, A. K. P. Post stroke shoulder pain: more common than previously realized. *European Journal of Pain* **4**, 313–315 (2000).

57.

Green, S., Buchbinder, R. & Hetrick, S. E. Physiotherapy interventions for shoulder pain. Cochrane Database of Systematic Reviews (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.

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. (Psychology Press, Taylor & Francis Group, 2014).

61.

Mateer, C. A., Sira, C. S. & O'Connell, M. E. Putting Humpty Dumpty Together Again. Journal of Head Trauma Rehabilitation **20**, 62–75 (2005).

62.

Tornås, S. 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 **22**, 436–452 (2016).

63.

Neurobehavioural disability and social handicap following traumatic brain injury. (Routledge, 2017).

64.

Winegardner, J., Keohane, C., Prince, L. & Neumann, D. Perspective training to treat anger problems after brain injury: Two case studies. *NeuroRehabilitation* **39**, 153–162 (2016).

65.

Cipolotti, L. & Warrington, E. K. Neuropsychological assessment. *Journal of Neurology, Neurosurgery & Psychiatry* **58**, 655–664 (1995).

66.

Sachdev, P. S., Lipnicki, D. M., Crawford, J. D., Wen, W. & Brodaty, H. Progression of cognitive impairment in stroke/TIA patients over 3 years. *Journal of Neurology, Neurosurgery & Psychiatry* **85**, 1324–1330 (2014).

67.

Nys, G. M. S. et al. The prognostic value of domain-specific cognitive abilities in acute first-ever stroke. *Neurology* **64**, 821–827 (2005).

68.

Hurford, R., Charidimou, A., Fox, Z., Cipolotti, L. & Werring, D. J. Domain-specific trends in cognitive impairment after acute ischaemic stroke. *Journal of Neurology* **260**, 237–241 (2013).

69.

Van Heugten, C. M., 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* **29**, 694–704 (2015).

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%252F165019>

77-1930.

71.

Chan, E., Altendorff, S., Healy, C., Werring, D. J. & Cipolotti, L. The test accuracy of the Montreal Cognitive Assessment (MoCA) by stroke lateralisation. *Journal of the Neurological Sciences* **373**, 100–104 (2017).

72.

Chan, E. et al. Underestimation of cognitive impairments by the Montreal Cognitive Assessment (MoCA) in an acute stroke unit population. *Journal of the Neurological Sciences* **343**, 176–179 (2014).

73.

Craig, P. et al. Developing and evaluating complex interventions: the new Medical Research Council guidance. *BMJ* (2008) doi:10.1136/bmj.a1655.

74.

Katz, R. C. & Wertz, R. T. The Efficacy of Computer-Provided Reading Treatment for Chronic Aphasic Adults. *Journal of Speech Language and Hearing Research* **40**, (1997).

75.

Marshall, J. et al. Evaluating the Benefits of Aphasia Intervention Delivered in Virtual Reality: Results of a Quasi-Randomised Study. *PLOS ONE* **11**, (2016).

76.

Palmer, R. et al. Computer Therapy Compared With Usual Care for People With Long-Standing Aphasia Poststroke: A Pilot Randomized Controlled Trial. *Stroke* **43**, 1904–1911 (2012).

77.

Varley, R. et al. Self-Administered Computer Therapy for Apraxia of Speech. *Stroke* (2016)

doi:10.1161/STROKEAHA.115.011939.

78.

Bowen, A., Hazelton, C., Pollock, A. & Lincoln, N. B. Cognitive rehabilitation for spatial neglect following stroke. Cochrane Database of Systematic Reviews (2013)
doi:10.1002/14651858.CD003586.pub3.

79.

Corbetta, M., Kincade, M. J., Lewis, C., Snyder, A. Z. & Sapir, A. Neural basis and recovery of spatial attention deficits in spatial neglect. *Nature Neuroscience* **8**, 1603–1610 (2005).

80.

Ferro, J. M., Mariano, G. & Madureira, S. Recovery from Aphasia and Neglect. *Cerebrovascular Diseases* **9**, 6–22 (1999).

81.

Frassinetti, F., Angeli, V., Meneghello, F., Avanzi, S. & Ladavas, E. Long-lasting amelioration of visuospatial neglect by prism adaptation. *Brain* **125**, 608–623 (2002).

82.

Gorgoraptis, N. et al. The effects of the dopamine agonist rotigotine on hemispatial neglect following stroke. *Brain* **135**, 2478–2491 (2012).

83.

Kaplan, R. F. et al. Changing Attentional Demands in Left Hemispatial Neglect. *Archives of Neurology* **48**, 1263–1266 (1991).

84.

Kerkhoff, G. et al. Smooth Pursuit "Bedside" Training Reduces Disability and Unawareness During the Activities of Daily Living in Neglect. *Neurorehabilitation and Neural Repair* **28**,

554–563 (2014).

85.

Koiava, N. et al. A 'web app' for diagnosing hemianopia. *Journal of Neurology, Neurosurgery & Psychiatry* **83**, 1222–1224 (2012).

86.

Grieve, J. I. *Neuropsychology for occupational therapists: cognition in occupational performance*. (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* **21**, (2008).

89.

Bernhardt, J., Thuy, M. N., Collier, J. M. & Legg, L. A. Very early versus delayed mobilisation after stroke. *Cochrane Database of Systematic Reviews* (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, T. A. SENSE: Study of the Effectiveness of Neurorehabilitation on Sensation. *Neurorehabilitation and Neural Repair* **25**, 304–313 (2011).

92.

Connell, L. & Tyson, S. Measures of sensation in neurological conditions: a systematic review. *Clinical Rehabilitation* **26**, 68–80 (2012).

93.

Connell, L. A., McMahon, N. E. & Adams, N. Stroke survivors' experiences of somatosensory impairment after stroke: An Interpretative Phenomenological Analysis. *Physiotherapy* **100**, 150–155 (2014).

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* (2013)
doi:10.1002/14651858.CD009689.pub2.

95.

Doyle, S., Bennett, S., Fasoli, S. E. & McKenna, K. T. Interventions for sensory impairment in the upper limb after stroke. *Cochrane Database of Systematic Reviews* (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* **7**, (2015).