



Pratiques optimales de l'AVC au Canada

RECOMMANDATIONS CANADIENNES POUR LES PRATIQUES OPTIMALES DE SOINS DE L'AVC

**Réadaptation, rétablissement et participation communautaire
après un AVC**

**Première partie : Planification de la réadaptation post-AVC
pour la prestation de soins optimaux**

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Annexe III : Références

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*au nom du groupe de rédaction sur la réadaptation et rétablissement après un
AVC des Recommandations canadiennes pour les pratiques optimales de soins
de l'AVC*

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ANNEXE III : RÉFÉRENCES

1. Nelson MLA, Hanna E, Hall S, Calvert M. What makes stroke rehabilitation patients complex? Clinician perspectives and the role of discharge pressure. *J Comorb.* 2016;6:35-41.
2. Holodinsky JK, Lindsay P, Yu AXY, Ganesh A, Joundi RA, Hill MD. Estimating the number of hospital or emergency department presentations for stroke in Canada. *Can J Neurol Sci.* 2023;50:820-825.
3. Government of Canada. Canadian Chronic Disease Surveillance System (CCDSS).2023.Accessed March 3, 2025 Available at: <https://health-infobase.canada.ca/ccdss/data-tool/Index>
4. Langhorne P, Baylan S. Early supported discharge services for people with acute stroke. *Cochrane Database Syst Rev.* 2017;7:Cd000443.
5. National Institute for Health and Care Excellence. Stroke in adults.2016. NICE.Accessed March 3, 2025 Available at: <https://www.nice.org.uk/guidance/qs2/resources/stroke-in-adults-pdf-58292707525>
6. Organisation mondiale de la Santé. Classification internationale du fonctionnement, du handicap et de la santé. 2012. Consulté le 12 juin 2024. Accessible en ligne : https://iris.who.int/bitstream/handle/10665/42418/9242545422_fre.pdf
7. Canadian Stroke Best Practices. Canadian Stroke Best Practice Recommendations. Overview of methodology 7thedition 2019-2023. The Heart & Stroke Foundation of Canada. Accessed March 3, 2025 Available at: <https://www.strokebestpractices.ca/recommendations/overview-methods-and-knowledge-translation>
8. Brouwers MC, Kho ME, Browman GP, Burgers JS, Cluzeau F, Feder G, et al. Agree ii: Advancing guideline development, reporting and evaluation in health care. *CMAJ : Canadian Medical Association journal = journal de l'Association médicale canadienne.* 2010;182:E839-E842.
9. Guyatt GH, Oxman AD, Kunz R, Vist GE, Falck-Ytter Y, Schünemann HJ. What is "quality of evidence" and why is it important to clinicians? *BMJ.* 2008;336:995-998.
10. Guyatt GH, Oxman AD, Vist GE, Kunz R, Falck-Ytter Y, Alonso-Coello P, et al. Grade: An emerging consensus on rating quality of evidence and strength of recommendations. *BMJ.* 2008;336:924-926.
11. Guyatt G, Oxman AD, Akl EA, Kunz R, Vist G, Brozek J, et al. Grade guidelines: 1. Introduction-grade evidence profiles and summary of findings tables. *J Clin Epidemiol.* 2011;64:383-394.
12. Schünemann H BJ, Guyatt G, Oxman A, editors.Grade handbook for grading quality of evidence and strength of recommendations.2013. The GRADE Working Group.Accessed March 3, 2025 Available at: <https://guidelinedevelopment.org/handbook>.
13. Gladstone DJ, Lindsay MP, Douketis J, Smith EE, Dowlathshahi D, Wein T, et al. Canadian Stroke Best Practice Recommendations: Secondary Prevention of Stroke Update 2020. *Can J Neurol Sci.* 2022;49:315-337.
14. Hakkennes S, Hill KD, Brock K, Bernhardt J, Churilov L. Selection for inpatient rehabilitation after severe stroke: What factors influence rehabilitation assessor decision-making? *J Rehabil Med.* 2013;45:24-31.
15. Stineman MG, Bates BE, Kurichi JE, Kwong PL, Ripley DC, Vogel WB, et al. Initial physical grades and cognitive stages after acute stroke: Who receives comprehensive rehabilitation services? *Pm r.* 2013;5:1007-1018.

16. Putman K, De Wit L, Schupp W, Beyens H, Dejaeger E, de Weerd W, et al. Inpatient stroke rehabilitation: A comparative study of admission criteria to stroke rehabilitation units in four European centres. *J Rehabil Med*. 2007;39:21-26.
17. Langhorne P, Ramachandra S. Organised inpatient (stroke unit) care for stroke: Network meta-analysis. *Cochrane Database Syst Rev*. 2020;4:Cd000197.
18. Van Crielinge T, Heremans C, BurrIDGE J, Deutsch JE, Hammerbeck U, Hollands K, et al. Standardized measurement of balance and mobility post-stroke: Consensus-based core recommendations from the third stroke recovery and rehabilitation roundtable. *Int J Stroke*. 2024;19:158-168.
19. Seenan P, Long M, Langhorne P. Stroke units in their natural habitat: Systematic review of observational studies. *Stroke*. 2007;38:1886-1892.
20. Sundseth A, Thommessen B, Ronning OM. Outcome after mobilization within 24 hours of acute stroke: A randomized controlled trial. *Stroke*. 2012;43:2389-2394.
21. Chippala P, Sharma R. Effect of very early mobilisation on functional status in patients with acute stroke: A single-blind, randomized controlled trial. *Clin Rehabil*. 2016;30:669-675.
22. Herisson F, Godard S, Volteau C, Le Blanc E, Guillon B, Gaudron M. Early sitting in ischemic stroke patients (sevel): A randomized controlled trial. *PLoS One*. 2016;11:e0149466.
23. Efficacy and safety of very early mobilisation within 24 h of stroke onset (avert): A randomised controlled trial. *Lancet*. 2015;386:46-55.
24. Bernhardt J, Churilov L, Ellery F, Collier J, Chamberlain J, Langhorne P, et al. Prespecified dose-response analysis for a very early rehabilitation trial (avert). *Neurology*. 2016;86:2138-2145.
25. Bernhardt J, Borschmann K, Collier JM, Thrift AG, Langhorne P, Middleton S, et al. Fatal and nonfatal events within 14 days after early, intensive mobilization poststroke. *Neurology*. 2021;96:e1156-e1166.
26. Rethnam V, Langhorne P, Churilov L, Hayward KS, Herisson F, Poletto SR, et al. Early mobilisation post-stroke: A systematic review and meta-analysis of individual participant data. *Disabil Rehabil*. 2022;44:1156-1163.
27. Langhorne P, Collier JM, Bate PJ, Thuy MN, Bernhardt J. Very early versus delayed mobilisation after stroke. *Cochrane Database Syst Rev*. 2018;10:Cd006187.
28. Li Z, Zhang X, Wang K, Wen J. Effects of early mobilization after acute stroke: A meta-analysis of randomized control trials. *J Stroke Cerebrovasc Dis*. 2018;27:1326-1337.
29. Kwakkel G, Wagenaar RC, Koelman TW, Lankhorst GJ, Koetsier JC. Effects of intensity of rehabilitation after stroke. A research synthesis. *Stroke*. 1997;28:1550-1556.
30. Lohse KR, Lang CE, Boyd LA. Is more better? Using metadata to explore dose-response relationships in stroke rehabilitation. *Stroke*. 2014;45:2053-2058.
31. Schneider EJ, Lannin NA, Ada L, Schmidt J. Increasing the amount of usual rehabilitation improves activity after stroke: A systematic review. *J Physiother*. 2016;62:182-187.
32. Clark B, Whittall J, Kwakkel G, Mehrholz J, Ewings S, BurrIDGE J. The effect of time spent in rehabilitation on activity limitation and impairment after stroke. *Cochrane Database Syst Rev*. 2021;10:Cd012612.

33. French B, Thomas LH, Coupe J, McMahon NE, Connell L, Harrison J, et al. Repetitive task training for improving functional ability after stroke. *Cochrane Database Syst Rev*. 2016;11:Cd006073.
34. MacDonald SL, Linkewich E, Bayley M, Jeong IJ, Fang J, Peters S, et al. Males receive more intense inpatient stroke rehabilitation than females in Ontario, Canada. *Can J Neurol Sci*. 2024;1-3.
35. MacDonald SL, Hall RE, Bell CM, Cronin S, Jaglal SB. Sex differences in the outcomes of adults admitted to inpatient rehabilitation after stroke. *Pm r*. 2022;14:779-785.
36. Therapy-based rehabilitation services for stroke patients at home. *Cochrane Database Syst Rev*. 2003:Cd002925.
37. Chi NF, Huang YC, Chiu HY, Chang HJ, Huang HC. Systematic review and meta-analysis of home-based rehabilitation on improving physical function among home-dwelling patients with a stroke. *Arch Phys Med Rehabil*. 2020;101:359-373.
38. Hillier S, Inglis-Jassiem G. Rehabilitation for community-dwelling people with stroke: Home or centre based? A systematic review. *Int J Stroke*. 2010;5:178-186.
39. Lincoln NB, Walker MF, Dixon A, Knights P. Evaluation of a multiprofessional community stroke team: A randomized controlled trial. *Clin Rehabil*. 2004;18:40-47.
40. Jee S, Jeong M, Paik NJ, Kim WS, Shin YI, Ko SH, et al. Early supported discharge and transitional care management after stroke: A systematic review and meta-analysis. *Front Neurol*. 2022;13:755316.
41. Langhorne P, Taylor G, Murray G, Dennis M, Anderson C, Bautz-Holter E, et al. Early supported discharge services for stroke patients: A meta-analysis of individual patients' data. *Lancet*. 2005;365:501-506.
42. Coupar F, Pollock A, Legg LA, Sackley C, van Vliet P. Home-based therapy programmes for upper limb functional recovery following stroke. *Cochrane Database Syst Rev*. 2012;2012:Cd006755.
43. Duncan P, Richards L, Wallace D, Stoker-Yates J, Pohl P, Luchies C, et al. A randomized, controlled pilot study of a home-based exercise program for individuals with mild and moderate stroke. *Stroke*. 1998;29:2055-2060.
44. Piron L, Turolla A, Agostini M, Zucconi C, Cortese F, Zampolini M, et al. Exercises for paretic upper limb after stroke: A combined virtual-reality and telemedicine approach. *J Rehabil Med*. 2009;41:1016-1102.
45. Wong Y, Ada L, Wang R, Månun G, Langhammer B. Self-administered, home-based, upper limb practice in stroke patients: A systematic review. *J Rehabil Med*. 2020;52:jrm00118.
46. Saab A, Glass-Kaasta S, Young GB. Discharge destination from a rehabilitation unit after acute ischemic stroke. *Can J Neurol Sci*. 2019;46:209-215.
47. Burton JK, Ferguson EEC, Barugh AJ, Walesby KE, MacLulich AMJ, Shenkin SD, et al. Predicting discharge to institutional long-term care after stroke: A systematic review and metaanalysis. *J Am Geriatr Soc*. 2018;66:161-169.
48. Pereira S, Foley N, Salter K, McClure JA, Meyer M, Brown J, et al. Discharge destination of individuals with severe stroke undergoing rehabilitation: A predictive model. *Disabil Rehabil*. 2014;36:727-731.

49. Brodaty H, Altendorf A, Withall A, Sachdev PS. Mortality and institutionalization in early survivors of stroke: The effects of cognition, vascular mild cognitive impairment, and vascular dementia. *J Stroke Cerebrovasc Dis*. 2010;19:485-493.
50. Portelli R, Lowe D, Irwin P, Pearson M, Rudd AG. Institutionalization after stroke. *Clin Rehabil*. 2005;19:97-108.
51. Chuang KY, Wu SC, Yeh MC, Chen YH, Wu CL. Exploring the associations between long-term care and mortality rates among stroke patients. *J Nurs Res*. 2005;13:66-74.
52. Walsh T, Donnelly T, Carew S, C OC, R OR, Lyons D. Stroke unit care: Recurrence, mortality and institutionalisation rates-a four year follow-up study. *Ir J Med Sci*. 2008;177:135-139.
53. Sackley C, Pound K. Setting priorities for a discharge plan for stroke patients entering nursing home care. *Clin Rehabil*. 2002;16:859-866.
54. Sackley CM, Pound K. Stroke patients entering nursing home care: A content analysis of discharge letters. *Clin Rehabil*. 2002;16:736-740.
55. Brajković L, Godan A, Godan L. Quality of life after stroke in old age: Comparison of persons living in nursing home and those living in their own home. *Croat Med J*. 2009;50:182-188.
56. Fletcher-Smith JC, Walker MF, Cobley CS, Steultjens EM, Sackley CM. Occupational therapy for care home residents with stroke. *Cochrane Database Syst Rev*. 2013;2013:Cd010116.
57. Sackley CM, Walker MF, Burton CR, Watkins CL, Mant J, Roalfe AK, et al. An occupational therapy intervention for residents with stroke related disabilities in uk care homes (otch): Cluster randomised controlled trial. *BMJ*. 2015;350:h468.
58. Davila H, Ng W, Akosionu O, Thao MS, Skarphol T, Virnig BA, et al. Why men fare worse: A mixed-methods study examining gender differences in nursing home resident quality of life. *Gerontologist*. 2022;62:1347-1358.
59. Hao J, Pu Y, Chen Z, Siu KC. Effects of virtual reality-based telerehabilitation for stroke patients: A systematic review and meta-analysis of randomized controlled trials. *J Stroke Cerebrovasc Dis*. 2023;32:106960.
60. Laver KE, Adey-Wakeling Z, Crotty M, Lannin NA, George S, Sherrington C. Telerehabilitation services for stroke. *Cochrane Database Syst Rev*. 2020;1:Cd010255.
61. Appleby E, Gill ST, Hayes LK, Walker TL, Walsh M, Kumar S. Effectiveness of telerehabilitation in the management of adults with stroke: A systematic review. *PLoS One*. 2019;14:e0225150.
62. Sarfo FS, Ulasavets U, Opare-Sem OK, Ovbiagele B. Tele-rehabilitation after stroke: An updated systematic review of the literature. *J Stroke Cerebrovasc Dis*. 2018;27:2306-2318.
63. Tchero H, Tabue Teguo M, Lannuzel A, Rusch E. Telerehabilitation for stroke survivors: Systematic review and meta-analysis. *J Med Internet Res*. 2018;20:e10867.
64. Chen J, Jin W, Zhang XX, Xu W, Liu XN, Ren CC. Telerehabilitation approaches for stroke patients: Systematic review and meta-analysis of randomized controlled trials. *J Stroke Cerebrovasc Dis*. 2015;24:2660-2668.
65. Knepley KD, Mao JZ, Wieczorek P, Okoye FO, Jain AP, Harel NY. Impact of telerehabilitation for stroke-related deficits. *Telemed J E Health*. 2021;27:239-246.

66. Asano M, Tai BC, Yeo FY, Yen SC, Tay A, Ng YS, et al. Home-based tele-rehabilitation presents comparable positive impact on self-reported functional outcomes as usual care: The singapore tele-technology aided rehabilitation in stroke (stars) randomised controlled trial. *J Telemed Telecare*. 2021;27:231-238.
67. Saywell NL, Vandal AC, Mudge S, Hale L, Brown P, Feigin V, et al. Telerehabilitation after stroke using readily available technology: A randomized controlled trial. *Neurorehabil Neural Repair*. 2021;35:88-97.
68. Chen J, Sun D, Zhang S, Shi Y, Qiao F, Zhou Y, et al. Effects of home-based telerehabilitation in patients with stroke: A randomized controlled trial. *Neurology*. 2020;95:e2318-e2330.
69. Yang CL, Waterson S, Eng JJ. Implementation and evaluation of the virtual graded repetitive arm supplementary program (grasp) for individuals with stroke during the covid-19 pandemic and beyond. *Phys Ther*. 2021;101
70. Peters S, Botero M, Evers A, Fong B, Jakab B, Petter E, et al. Development and feasibility of a modified fugl-meyer lower extremity assessment for telerehabilitation: A pilot study. *Pilot Feasibility Stud*. 2021;7:121.
71. Gillespie D, MacLellan C, Ferguson-Pell M, Taeger A, Manns PJ. Balancing access with technology: Comparing in-person and telerehabilitation berg balance scale scores among stroke survivors. *Physiother Can*. 2021;73:276-285.
72. Amano S, Umeji A, Uchita A, Hashimoto Y, Takebayashi T, Kanata Y, et al. Reliability of remote evaluation for the fugl-meyer assessment and the action research arm test in hemiparetic patients after stroke. *Top Stroke Rehabil*. 2018;25:432-437.
73. Gonçalves-Bradley DC, Lannin NA, Clemson L, Cameron ID, Shepperd S. Discharge planning from hospital. *Cochrane Database Syst Rev*. 2022;2:Cd000313.
74. Sulch D, Perez I, Melbourn A, Kalra L. Randomized controlled trial of integrated (managed) care pathway for stroke rehabilitation. *Stroke*. 2000;31:1929-1934.
75. Manderson B, McMurray J, Piraino E, Stolee P. Navigation roles support chronically ill older adults through healthcare transitions: A systematic review of the literature. *Health Soc Care Community*. 2012;20:113-127.
76. Egan M, Anderson S, McTaggart J. Community navigation for stroke survivors and their care partners: Description and evaluation. *Top Stroke Rehabil*. 2010;17:183-190.
77. Snow V, Beck D, Budnitz T, Miller DC, Potter J, Wears RL, et al. Transitions of care consensus policy statement American College of physicians-Society of general internal medicine-Society of hospital medicine-american geriatrics Society-American College of emergency physicians-Society of academic emergency medicine. *J Gen Intern Med*. 2009;24:971-976.
78. Mitchell GK, Brown RM, Erikssen L, Tieman JJ. Multidisciplinary care planning in the primary care management of completed stroke: A systematic review. *BMC Fam Pract*. 2008;9:44.
79. Kattel S, Manning DM, Erwin PJ, Wood H, Kashiwagi DT, Murad MH. Information transfer at hospital discharge: A systematic review. *J Patient Saf*. 2020;16:e25-e33.
80. Mitchell JP. Association of provider communication and discharge instructions on lower readmissions. *J Healthc Qual*. 2015;37:33-40.

81. Kripalani S, LeFevre F, Phillips CO, Williams MV, Basaviah P, Baker DW. Deficits in communication and information transfer between hospital-based and primary care physicians: Implications for patient safety and continuity of care. *JAMA*. 2007;297:831-841.
82. Halasyamani L, Kripalani S, Coleman E, Schnipper J, van Walraven C, Nagamine J, et al. Transition of care for hospitalized elderly patients--development of a discharge checklist for hospitalists. *J Hosp Med*. 2006;1:354-360.
83. Etherington C, Kitto S, Burns JK, Adams TL, Birze A, Britton M, et al. How gender shapes interprofessional teamwork in the operating room: A qualitative secondary analysis. *BMC Health Serv Res*. 2021;21:1357.
84. Gallacher K, Morrison D, Jani B, Macdonald S, May CR, Montori VM, et al. Uncovering treatment burden as a key concept for stroke care: A systematic review of qualitative research. *PLoS Med*. 2013;10:e1001473.
85. Olai L, Borgquist L, Svardsudd K. Life situations and the care burden for stroke patients and their informal caregivers in a prospective cohort study. *Ups J Med Sci*. 2015;120:290-298.
86. Loh AZ, Tan JS, Zhang MW, Ho RC. The global prevalence of anxiety and depressive symptoms among caregivers of stroke survivors. *J Am Med Dir Assoc*. 2017;18:111-116.
87. Hayes J, Chapman P, Young LJ, Rittman M. The prevalence of injury for stroke caregivers and associated risk factors. *Top Stroke Rehabil*. 2009;16:300-307.
88. Ko JY, Aycock DM, Clark PC. A comparison of working versus nonworking family caregivers of stroke survivors. *J Neurosci Nurs*. 2007;39:217-225.
89. Rochette A, Desrosiers J, Bravo G, Tribble DS, Bourget A. Changes in participation level after spouse's first stroke and relationship to burden and depressive symptoms. *Cerebrovasc Dis*. 2007;24:255-260.
90. Cameron JI, Bastawrous M, Marsella A, Forde S, Smale L, Friedland J, et al. Stroke survivors', caregivers', and health care professionals' perspectives on the weekend pass to facilitate transition home. *J Rehabil Med*. 2014;46:858-863.
91. Cameron JI, Naglie G, Silver FL, Gignac MA. Stroke family caregivers' support needs change across the care continuum: A qualitative study using the timing it right framework. *Disabil Rehabil*. 2013;35:315-324.
92. Creasy KR, Lutz BJ, Young ME, Ford A, Martz C. The impact of interactions with providers on stroke caregivers' needs. *Rehabil Nurs*. 2013;38:88-98.
93. Smith LN, Lawrence M, Kerr SM, Langhorne P, Lees KR. Informal carers' experience of caring for stroke survivors. *J Adv Nurs*. 2004;46:235-244.
94. Huang V, Marais O, Mortenson WB, Nadeau J, Arsenault S, Field TS, et al. "I just kept asking and asking and there was nothing": Re-thinking community resources & supports for young adult stroke survivors. *Disabil Rehabil*. 2024:1-10.
95. Bakas T, McCarthy MJ, Miller EL. Systematic review of the evidence for stroke family caregiver and dyad interventions. *Stroke*. 2022;53:2093-2102.

96. Pucciarelli G, Lommi M, Magwood GS, Simeone S, Colaceci S, Vellone E, et al. Effectiveness of dyadic interventions to improve stroke patient-caregiver dyads' outcomes after discharge: A systematic review and meta-analysis study. *Eur J Cardiovasc Nurs*. 2021;20:14-33.
97. Fryer CE, Luker JA, McDonnell MN, Hillier SL. Self management programmes for quality of life in people with stroke. *Cochrane Database Syst Rev*. 2016;2016:Cd010442.
98. Chen L, Chen Y, Chen X, Shen X, Wang Q, Sun C. Longitudinal study of effectiveness of a patient-centered self-management empowerment intervention during predischage planning on stroke survivors. *Worldviews Evid Based Nurs*. 2018;15:197-205.
99. Lo SHS, Chang AM, Chau JPC. Stroke self-management support improves survivors' self-efficacy and outcome expectation of self-management behaviors. *Stroke*. 2018;49:758-760.
100. Lennon S, McKenna S, Jones F. Self-management programmes for people post stroke: A systematic review. *Clin Rehabil*. 2013;27:867-878.
101. Crocker TF, Brown L, Lam N, Wray F, Knapp P, Forster A. Information provision for stroke survivors and their carers. *Cochrane Database Syst Rev*. 2021;11:Cd001919.
102. Eames S, Hoffmann T, Worrall L, Read S, Wong A. Randomised controlled trial of an education and support package for stroke patients and their carers. *BMJ Open*. 2013;3
103. Patchwood E, Woodward-Nutt K, Rhodes SA, Batistatou E, Camacho E, Knowles S, et al. Organising support for carers of stroke survivors (oscarss): A cluster randomised controlled trial with economic evaluation. *BMJ Open*. 2021;11:e038777.
104. Kalra L, Evans A, Perez I, Melbourn A, Patel A, Knapp M, et al. Training carers of stroke patients: Randomised controlled trial. *Bmj*. 2004;328:1099.
105. Forster A, Dickerson J, Young J, Patel A, Kalra L, Nixon J, et al. A structured training programme for caregivers of inpatients after stroke (tracs): A cluster randomised controlled trial and cost-effectiveness analysis. *Lancet*. 2013;382:2069-2076.

Additional References for Performance Measures

- Smith A, Hewitt J, Quinn TJ, Robling M. Patient-reported outcome measures (PROMs) use in post-stroke patient care and clinical practice: a realist synthesis protocol. *Syst Rev*. 2021 Apr 28;10(1):128. doi: 10.1186/s13643-021-01682-w. PMID: 33910631; PMCID: PMC8082773.
- Schmidt, R., Geisler, D., Urban, D. et al. Stroke survivors' preferences on assessing patient-reported outcome measures. *J Patient Rep Outcomes* 7, 124 (2023). <https://doi.org/10.1186/s41687-023-00660-1>
- Ibrahim S, Francis T, Sheehan KA, Kokorelias K, Stanimirovic A, Hashmi S, Kalocsai C, Ng S, Berkhout SG, Cameron JI, Rac V and Pikula A (2024) Exploring unmet needs and preferences of young adult stroke patients for post-stroke care through PROMs and gender differences. *Front. Stroke* 3:1386300. doi: 10.3389/fstro.2024.1386300