

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

Déficits cognitifs d'origine vasculaire Septième édition, mise à jour 2024

Annexe IV : Sommaire des outils de dépistage et d'évaluation initiale sélectionnés pour les déficits cognitifs d'origine vasculaire

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Annexe IV : Sommaire des outils de dépistage et d'évaluation initiale sélectionnés pour les déficits cognitifs d'origine vasculaire

Le tableau ci-dessous fournit des renseignements supplémentaires sur une sélection d'outils de dépistage et d'évaluation des déficits cognitifs qui ont été relevés durant la revue de la littérature pour les Recommandations canadiennes pour les pratiques optimales de soins de l'AVC : déficits cognitifs d'origine vasculaire, septième édition, mise à jour 2024. Cette liste n'est pas exhaustive. Il s'agit plutôt d'un point de départ pour aider les chercheuses et chercheurs et les cliniciennes et cliniciens à connaître les outils validés. La liste complète des références se trouve après le tableau.

Assessment Tool	Purpose	Items and Administration	Availability
Quick Screening Tools	s (≤5 minutes to admi	nister)	
6-Item Cognitive	A dementia	6 items:	Free
Impairment test (6-	screening tool	1. What year is it? (correct-0; incorrect 4)	
CII)	primary care.	2. What month is it? (correct-0; incorrect-3)	https://www.mindwell-
Brooke & Bullock		 About what time is it (within one hour)? (correct-0; incorrect-3) 	leeds.org.uk/wp- content/uploads/2021/ 03/6CLT.pdf
1999		4. Count backwards from 20-1. (no errors-0; 1 error-2; ≥1 error-4)	<u>03/0C11.put</u>
		5. Say the months of the year in reverse. (no errors-0; 1 error-2; ≥1 error-4)	
		 Repeat an address phase given after Q2. (no errors-0; errors range from 2-10 depending on the number of errors). 	
		Total scores range from 0 to 28. Scores of 0-7 are considered normal, while scores \ge 8 are more significant.	
		Test takes 3-4 minutes to complete. Does not require specialized training for administration	
Clock Drawing Test (CDT)	A screening tool for cognitive impairment.	Involves a command to draw a clock or to copy a clock.	Free
Sunderland et al. 1989		Score Interpretation: No universal system for scoring exists. Individual scoring systems are based on the number of deviations from what is expected from the drawing.	<u>http://www.strokengin</u> <u>e.ca/?s=clock+drawin</u> g
		Takes approximately 1-2 minutes to complete by the individual with VCI. Does not require additional equipment or specialized training for administration.	
Memory Impairment Screen (MIS)	A brief screening tool to evaluate memory.	1. A sheet of paper with 4 words in ≥24 upper case font is presented to the individual with VCI.	Free Available on many websites
Buschke et al. 1999		2. Tell the individual with VCI that each item belongs to a different category. Give a category cue and ask individual with VCI to indicate which of the words belongs in the stated category (e.g., "Which one is the game?").	https://www.cogsclub. org.uk/professionals/fil

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Assessment Tool	Purpose	Items and Administration	Availability
		Allow up to 5 attempts. Failure to complete this task indicates possible cognitive impairment.	es/The Memory Impa irment Screen.pdf
		3. When the individual with VCI identifies all 4 words, remove the sheet of paper. Tell the individual with VCI that he or she will be asked to remember the words in a few minutes.	https://www.alz.org/m edia/documents/mem ory-impairment-
		4. Engage individual with VCI in distractor activity for 2 to 3 minutes, such as counting to 20 and back, counting back from 100 by 7, spelling WORLD backwards.	screening-mis.pdf
		5. FREE RECALL — 2 points per word: Ask individual with VCI to state as many of the 4 words he or she can recall. Allow at least 5 seconds per item for free recall. Continue to step 6 if no more words have been recalled for 10 seconds.	
		6. CUED RECALL — 1 point per word: Read the appropriate category cue for each word not recalled during free recall (e.g., "What was the game?").	
		Scores range from 0 to 8. Scores of 5-8 indicate no cognitive impairment; scores ≤ 4 indicate possible cognitive impairment. Takes <5 minutes to complete.	
Mini Cog Borson et al. 2003	A rapid screening test for <u>Alzheimer's</u> <u>disease</u>	There are 2 components, word recall (scores range from 0-3 with one point awarded for each word correctly recalled) and a clock drawing test where the individual with VCI is asked to place the numbers in a provided circle and set the hands to ten past eleven (0-2 points).	Free https://mini-cog.com/
		Total scores range from 0-5. Cut offs of <3 and <4 have been used to identify possible deficits.	
		Test takes 3-4 minutes to complete.	
The General Practitioner Assessment of Cognition (GPCOG)	A brief screening tool for VCI	Patient portion (5 components) 1. The test administrator or healthcare provider asks the individual to repeat and remember a name and address (e.g., John Brown, 42 West Street, Kensington) and recall it in a few	Free https://www.alz.org/m edia/documents/gpco
Brodaty et al. 2002		minutes.	english.pdf
		2. The individual is asked to state today's date.	
		3. The test administrator provides a blank page with a circle and asks the individual to make a clock drawing with all of the numbers drawn correctly on the face of the clock.	
		4. The individual is then asked to draw in the clock's hands so that it reads 10 minutes past 11 o'clock.	
		5. The test administrator asks the individual to describe something specific that has happened in the news in the last week.	
		Scores range from 0 to 9 points.	

Assessment Tool	Purpose	Items and Administration	Availability
		In the name and address recall section, one point is given for correctly providing each of the answers (for a score of up to five points).	
		First name, last name, street number, street name and city name.	
		One point is given for saying the correct date. The exact date required to get credit.	
		One point is given for correctly <u>drawing the</u> <u>clock</u> . Another point is given for correctly drawing the hands of the clock to show 10 minutes past 11 o'clock.	
		A point is awarded for telling the administrator something specific from recent news in the past week.	
		No further assessment is needed if the individual scores the maximum total of 9 points. If an individual with VCI scores 5-8, proceed with Step 2, informant section.	
		Test takes 2-5 minutes to complete.	
		Informant section	
		The test administrator asks a caregiver or family member if the individual has more difficulty than they used to five to 10 years ago with the following tasks: recent memory, memory for conversations held a few days ago, word-finding difficulty, managing finances, medication management or the ability to handle transportation needs.	
		If the informant indicates a decline in three or more of these areas, the individual likely has cognitive impairment.	
6-Item Screener (SIS)	A brief screen for cognitive impairment	There is a 3-item recall component (apple, table, penny), whereby the patients should be	Free
Callahan et al. 2002		able to repeat the words three items initially, and then recall them after 5 minutes; there is also a 3-item temporal orientation component (day of the week, month, year).	https://www.merckma nuals.com/medical- calculators/Cognitivel
		Scores range from 0-6. Scores of 4-6 indicate that impairment is less likely, while scores of 0-3 indicate that impairment is likely.	<u>mpairmento.num</u>
		Test takes 1-2 minutes to complete.	
Depression, Obstructive Sleep Apnea and Cognitive Impairment (DOC) Screen Swartz et al. 2017	To identify patients who are at high-risk for depression, obstructive sleep apnea (OSA) and cognitive impairment	The DOC Screen is an integrated tool that combines the PHQ-2, a screening tool with 2 questions regarding mood, scored from 0 to 3, (total 0 to 6); The STOP questionnaire, a 4- question screen for OSA (total scores range from 0-4); and a 10-point version of the MoCA (5-word recall (5 points), clock drawing (3 points), and abstraction (2 points).	Free http://www.docscreen. ca/
		Total scores range from 0-20. For interpretation of data, raw scores from each of the 3 domains	

Assessment Tool	Purpose	Items and Administration	Availability
		are entered into a form on the DOC screen website.	
		No specialized equipment or training is	
		required.	
Interview to Differentiate Aging and Dementia (AD8 [®]) Galvin et al. 2005	An informant-based interview, to be completed by a spouse, adult child, friend who knew the older adult well. Developed to help discriminate between signs of normal aging and mild VCI.	 a items enquiring about changes in the past year (response categories are yes [1 point], no [0 points], and don't know) 1. Problems with judgment (e.g., problems making decisions, bad financial decisions, problems with thinking). 2. Less interest in hobbies/activities 3. Repeats the same things over and over (questions, stories, or statements) 4. Trouble learning how to use a tool, appliance or gadget (e.g., VCR computer) 	agree to the terms of a license agreement from Washington University and to complete and submit an access form in order to download the tool, which may be used for clinical and research purposes.
		microwave, remote control)	https://otm.wustl.edu/a
		5. Forgets correct month or year	d8-terms-agreement/
		 affairs (e.g., balancing checkbook, income taxes, paying bills) 	
		7. Trouble remembering appointments	
		8. Daily problems with thinking and/or memory	
		Scores of 0-1 indicate normal cognition, scores of ≥2 indicate impaired cognition.	
Mini Addenbrooke's	A brief screening	Five components	Free
Examination (Mini ACE)	impairment and dementia	Attention: day, date, month year (0-4 points) Memory: recall of name and address (0-7 points)	https://remedy.bnssg.i cb.nhs.uk/media/2787
Hsieh et al. 2015		Fluency: name as many animals as possible in one minute (0-7 points)	/mini-ace.poi
		Clock drawing +hands at 10 past 5 (0-5 points)	
		Recall of name and address (0-7 points)	
		cut-offs: 25 and 21. The latter is recommended when the test is used with general clinical populations as part of a VCI assessment. The test takes 5 minutes to complete.	
		Training is required, in the form of watching a video (30-60 minutes).	
Screening Tools (≥5 n	ninutes to administer)		
Addenbrooke's Cognitive Examination (ACE)	A test to aid in the detection of cognitive impairment, especially in the	Includes 3 components assessing attention (scores range from 0-18), three components assessing memory (scores range from 0-26), fluency (scores range from 0-14), language (0-	Free https://www.sydney.ed
Hsieh et al. 2013	Alzheimer's disease and fronto-temporal dementia	0-16).	mind/resources-for- clinicians/dementia- test.html

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Assessment Tool	Purpose	Items and Administration	Availability
		Total scores range from 0-100. Scores <88 and <82 have been recommended as cut-off points for suspicion of VCI.	
		Test takes approximately 15-30 minutes to complete (and 15 minutes to score).	
		Training is required. A training course is available through the University of Glasgow.	
		(There are 3 US versions of the test)	
Free Cog	A hybrid screening	Components include:	Free
	incorporating tests of	General knowledge (0-1 points)	
Burns et al. 2021	cognitive and executive function	Orientation to time (0-3 points); place (0-3 points)	https://psychscenehub .com/wp-
		Registration: repeat five words to be recalled later (no points awarded)	03/Final-Free-Cog-
		Calculation (0-3 points)	<u>1001 1.put</u>
		Attention/calculation (0-2 points)	
		Memory recall of 5 previously presented words (0-5 points)	
		Verbal fluency in 1 minute (0-1 point)	
		Language: Naming (0-2); Repetition (0-1); Write a sentence (0-1)	
		Visuospatial draw a clock with hands set at 10 past 11:00 (0-3)	
		Executive function 5 questions relating to social function, travel, home, emergency, and care function (0-5 points)	
		Total possible score of 30 points. A score of ≤22 is indicative of mild cognitive impairment.	
		No formal training is required. The test takes 5- 10 minutes to complete.	
Montreal Cognitive	The MoCA is a	Eleven items relating to 8 cognitive domains	Free
Assessment (MoCA) Nasreddine et al.	screening tool for mild cognitive impairment.	(Visuospatial, executive, naming, memory, language, abstraction, delayed recall, and orientation). Items are in the form of questions or tasks.	<u>http://www.mocatest.o</u> rg/
2005		Score Interpretation: Maximum score is 30; higher scores indicate greater cognitive functioning. Total score ≥26 is considered normal.	
		The test takes approximately 5-10 minutes to administer, requires extra equipment (stopwatch and score sheet) and some training (required reading).	
Mini-Mental State	The MMSE is a	Eleven items relating to 6 cognitive domains	Available for
Examination (MMSE)	screening tool for cognitive impairment.	(orientation – in time and space, registration, attention and calculation, recall, language and read and about them are in the form of	purchase.
Folstein et al. 1975		questions or tasks.	http://www4.parinc.co m/Products/Product.a

Assessment Tool	Purpose	Items and Administration	Availability
		Maximum score is 30, where higher scores indicate greater cognitive functioning. A score of <24 indicates possible cognitive impairment.	<u>spx?ProductID=MMS</u> <u>E</u>
		The test takes approximately 10 minutes to administer. No specialized training required.	
		A newer version, MMSE-2 [®] is also available.	
Rowland Universal Dementia	Designed to detect VCI in culturally and	Memory: repeat and later recall four items (not scored)	Free
Assessment Scale (RUDAS)	linguistically diverse populations	Visuospatial (body orientation): identify eight body parts (possible score 0-5)	https://www.dementia. org.au/sites/default/file
Storey et al. 2004		Praxis: copy the testers action or exercise (possible score 0-2)	s/20110311_2011RU DASAdminScoringGui
		Drawing: draw a 3-D square box (possible score 0-3)	<u>de.pdf</u>
		Judgement - Crossing the Street: (possible score 0-4)	
		Memory: recall items from beginning of the test (possible score 0-8)	
		Language: Name as many animals as you can in 60 seconds (scores 0-8)	
		Total possible score is 30 points. A score of ≤22 is the threshold for possible dementia.	
		The test takes 10-15 minutes to complete.	
Informant Questionnaire on Cognitive Decline in	Informant based test designed to assess cognitive decline and	Sixteen items with a 5-point scoring for each question ranging from much worse (5 point) to much improved (1 point).	Free
the Elderly (Short IQCODE)	orm 1994 dementia in elderly people, to be completed by a relative or friend who has known the elderly individual for 10 years or more	1. Remembering things about family and friends (e.g., occupations, birthdays)	<u>https://patient.info/doc</u> tor/informant- questionnaire-on-
Jorm 1994		2. Remembering things that have happened recently?	<u>cognitive-decline-in-</u> the-elderly-iqcode
		3. Recalling conversations a few days later?	
		4. Remembering his/her address and telephone number?	
		5. Remembering what day and month it is?	
		6. Remembering where things are usually kept?	
		 Remembering where to find things which have been put in a different place from usual? 	
		8. Knowing how to work familiar machines around the house?	
		9. Learning to use a new gadget or machine around the house?	
		10. Learning new things in general?	
		11. Following a story in a book or on TV?	
		12. Making decisions on everyday matters?	
		13. Handling money for shopping?	
		14. Handling financial matters - e.g., the pension, dealing with the bank?	

Assessment Tool	Purpose	Items and Administration	Availability
		15. Handling other everyday arithmetic problems - e.g., knowing how much food to buy, knowing how long between visits from family or friends?	
		16. Using his/her intelligence to understand what's going on and to reason things through?	
		Cut-off scores of 3.38-3.88/question have been reported to identify possible VCI (Jorm et al. 2004). The test takes approximately 5-7 minutes to complete.	
		A 26-item (original version) of this test is also available.	
Test Your Memory	A self-assessment	Questions include:	Free
(TYM)	test that covers a	Orientation to person and time	
	broad range of	Copy a sentence.	https://www.bmj.com/c
Brown et al. 2009		Who is the Prime Minister?	ontent/suppl/2009/06/
		In what year the World War I start?	04/bmj.b2030.DC1/br oi611491 ww1_default
		Complete 4 simple arithmetic calculations	.pdf
		List four creatures beginning with S.	
		Explain why a carrot is like a potato and a why a lion is like a wolf.	
		Name 5 items on drawing.	
		Join circles together to form a letter.	
		Draw a clock face.	
		Write down sentence copied earlier.	
		Total possible score is 50 points. Scores <33 indicate severe cognitive impairment, while scores between 33 and 45 (if 80+ years of age) or 33 and 46 (if younger than 80 years of age), indicate mild cognitive impairment.	
		Tast takes 5.10 minutes to complete	
	A 16	Test takes 5-10 minutes to complete.	_
Multifactorial Memory Questionnaire (MMQ)	A self-report questionnaire that	Composed of 3 subscales	Free
	assesses multiple dimensions of	1. MMQ Satisfaction includes 18 questions related to: "how I feel about my memory"	www.baycrest.org/mm
Troyer & Rich 2002	metamemory, useful for clinical	Each question is scored on a 5-point scale from strongly disagree (0) to strongly agree (4).	<u>q</u> .
	assessment and interventions.	2. MMQ Ability includes 20 questions related to memory mistakes.	
		Each question is scored on a 5-point scale from never (0) to all the time (4).	
		3. MMQ Strategy includes 19 questions related to the use of memory strategies.	
		Each question is scored on a 5-point scale from never (0) to all the time (4).	
		The test taker should be told to base responses on their experience during the previous 2 weeks.	

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Assessment Tool	Purpose	Items and Administration	Availability
		Raw scores for each section are converted to T scores based on normative data.	
		Interpretation of scores is presented in Table 4.1 of the MMQ manual, available at:	
		https://www.baycrest.org/Baycrest_Centre/med ia/content/form_files/MMQ-Manual- 2018_ebook.pdf	
Screening Tools for R	emote Use		
Tele-Free-Cog Larner et al. 2021	Adapted from original tool for use during the Covid-19 pandemic.	An adaptation of the Free-Cog that excludes three components, 'visuospatial' (clock face) 'language' (name ear/fingernail and 'write a sentence') and orientation to place.	Free (original version) https://psychscenehub
		The denominator is reduced from 30 to 21.	<u>.com/wp-</u> content/uploads/2021/
		For diagnosis of VCI a cur-off of ≤10 has been shown to have a sensitivity of 0.80 and specificity of 0.89.	03/FInal-Free-Cog- Tool-1.pdf
Telephone Interview for Cognitive Status	A test of cognitive functioning that was	A derivation of the Folstein Mini-Mental State Examination (MMSE)	Available for purchase
(TICS) Brandt et al. 1988	S) developed for use in situations where in- person cognitive screening is impractical or inefficient.	There are 11 items, assessing orientation to time and place, attention, short-term memory, sentence repetition, immediate recall, naming to verbal description, word opposites, and praxis.	https://www.parinc.co m/Products/Pkey/445
		Possible scores range from 0-41. A cut-off of 28 has been shown to identify individuals with post-stroke VCI, with a sensitivity of 88% and a specificity of 85% (Barber & Scott 2004).	
	-	Takes approximately 10 minutes to administer	
Telephone Interview for Cognitive Status – Modified (TICS-M)	See above	A modification of the TICS. There are 12 items (one additional item- delayed recall of 10 words), with possible scores ranging from 0-50.	
Welsh et al. 1993	Welsh et al. 1993	A cut-off of 30/31 identified elderly individuals with VCI, living in a care home, with a sensitivity of 85% and a specificity of 83%, when using in-person neuropsychological testing as reference standard.	
		administer.	
Tele-MMSE (26-item version) Newkirk et al. 2004	Alternative method to in-person clinic visits to screen for VCI	A 26-point adaptation of the older, 22-item ALFI-MMSE (Roccaforte et al, 2002), which contains the additions of a 3-step command: "Say hello, tap the mouthpiece of the phone 3 times, then say I'm back". It also contains a new question that requests that the individual with VCI give the interviewer a phone number	
		A Tele MMSE score of 20 is equivalent to an MMSE score of 23 (cut-ff for possible cognitive impairment).	
		Takes approximately 5-10 minutes to administer.	

Assessment Tool	Purpose	Items and Administration	Availability
Assessment Tools for	Vascular Cognitive II	mpairment and Dementia	
NINDS-CSN	Designed to measure	Three different versions exist:	-
Harmonization VCI Neuropsychology Protocols Hachinski et al. 2006	vascular cognitive impairment in stroke patients	60 Minute - composed of four domains, within which there are several individual tests of executive/activation function (e.g., animal naming), visuospatial, language/lexical retrieval, memory and learning, and neuropsychiatric/depressive symptoms.	
		30 Minute - semantic and phonemic fluency, Digit Symbol-Coding, revised Hopkins Verbal Learning Test, CES-D, and Neuropsychiatric Inventory.	
		5 Minute - subtests from the Montreal Cognitive Assessment, including a 5-word immediate and delayed memory test, a 6-item orientation task and a 1-letter phonemic fluency test (F).	
Cambridge Cognition Examination (CAMCOG)	Designed to be a standardized assessment instrument for diagnosis and	CAMCOG consists of 67 items, divided into 8 subscales: orientation, language (comprehension and expression), memory (remote, recent and learning), attention, praxis, calculation, abstraction and perception	The CAMCOG can be obtained by purchasing the entire CAMDEX and CAMDEX-DS II
Roth et al. 1986	grading of VCI	Total score ranges from 0 to 106.	through Amazon or
		Scores lower than 80 are considered indicative of VCI. Among the 67 items, 39 are scored as 'right' or 'wrong'; 11 are scored on a 3-point scale with 'wrong', 'right to a certain degree' or 'completely right' as response options; 9 items encompass questions or commands, and the score for each item is the sum of the correct answers; and 8 items are not scored. Five of the non-scored items are from the MMSE and they are not included in the total score because they are assessed in more detail by other CAMCOG items. The remaining 3 items are optional. The CAMCOG takes 60 minutes to administer.	Cambridge University Press.
Cognitive- Functional Independence Measure (Cognitive- FIM)	Designed to offer a uniform system of measurement for disability based on	5 cognitive items including communication (2 items) and social cognition (3 items) are contained with the broader FIM instrument (18 items in total)	FIM is proprietary.
Keith et al. 1987	Classification of	Comprehension, expression, social interaction, problem solving, and memory.	system-snf-subacute
	Impairment, Disabilities and Handicaps.	The level of an individual with VCI's disability indicates the burden of caring for them and items are scored based on how much assistance is required for the individual to carry out activities of daily living. Each item on the FIM is scored on a 7- point <u>Likert scale</u> , indicating the amount of assistance required to perform each item (1=total assistance in all areas, 7=total independence in all areas). The ratings are	<u>https://www.udsmr.org</u> /products/inpatient- rehab

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Assessment Tool	Purpose	Items and Administration	Availability
		For the cognitive domain, possible scores range from 5 to 35.	
		FIM must be administered by trained evaluator(s) and takes approximately 30-45 minutes to complete.	
Frontal Assessment	Designed to be a	6 items	Free
Battery (FAB)	at the bedside or in a	1. Conceptualization (similarities) possible score of 0-3	https://psychscenehub
Dubois et al. 2000	discriminate between dementias with a	2. Lexical fluency (mental flexibility) possible scores of 0-3	.com/wp- content/uploads/2018/
	frontal dysexecutive phenotype and	 Motor series "Luria" test (programming) possible scores of 0-3 	07/Frontal_FAB_Scal e.pdf
	Dementia of Alzheimer's Type (DAT)	 Conflicting instructions (sensitivity to interference) possible scores of 0-3. 	
	(0/(1)).	5. Go–No Go (inhibitory control) possible scores of 0-3.	
		 6. Prehension behaviour (environmental autonomy) possible scores of 0-3 	
		A cut off score of 12 has a sensitivity of 77% and specificity of 87% in differentiating between frontal dysexecutive type dementias and DAT.	
		The test can be completed in approximately 10 minutes.	
Repeatable Battery	Designed to be a	5 items	Available for purchase
for the Assessment of Neuropsychological	brief neurocognitive battery with four alternate forms	Immediate memory (list learning, story memory)	https://www.pearsona ssessments.com/
Status (RBANS)		Visuospatial/Constructional (figure copy/line orientation)	
Randolph et al. 1998		Language (picture naming/semantic fluency)	
		Attention (digit span/coding)	
		Delayed memory (list recall/list recognition/story recall/figure recall)	
		The RBANS uses standard scores (mean= 100, standard deviation=15)	
		Raw scores in each domain are converted to index scores. The results are compared with normative data.	
		The test takes approximately 30 minutes to complete.	

RÉFÉRENCES POUR L'ANNEXE V : SOMMAIRE DES OUTILS DE DÉPISTAGE ET D'ÉVALUATION INITIALE SÉLECTIONNÉS POUR LES DÉFICITS COGNITIFS D'ORIGINE VASCULAIRE

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