## Screening neurological examination

	Item	Test
	patient position	sitting
1.	Consciousness,	Screening test for vigilance, attention, orientation to person, time and place Ask: a) What is the date or the
	orientation, memory	day of the week? b) Where are we? c) How old are you? D) Where do you live? Assess the memory
	and behavior	functions during the history taking and behavior during the whole examination.
2.	Language and speech	During the basic conversation and history taking assess the speech with regards to possible aphasia
	zangaage and specen	(fluency, verbal content, word selection, phrase length, comprehension) and possible dysarthria (volume,
		phonation, articulation, intelligibility, melody).
3.	Visual field	Sit or stand about 1 meter away from and opposite to the patient and have him/her fixate your nose
٥.	Visual field	consistently. Stretch out your arms sideways half way between you and the patient in the upper quadrant
		fields to a position where you can still see your fingers well. Then move your fingers slowly on one and the
		other side and on both sides simultaneously and have the patient name the side of movement. Your own
		visual field is the control. Then repeat the exam in the lower quadrant fields.
4.	Eye movements and	Instruct the patient to follow a moving object (finger, hammer) at 1m distance in both horizontal and
	pupillary reaction	vertical directions ("cross") without moving the head (ask the patient to put one finger on his chin).
	pupa., reaction	Observe potential nystagmus, assess range and speed of the eye movements. Ask about diplopia. Assess
		pupillary width, symmetry and reactivity to light.
5.	Facial movements	Observe facial expression and symmetry of the face at rest and during conversation. Instruct patient to
		perform movements to test innervation in both upper and lower branch of the facial nerve (raise
		eyebrows, close eyes, smile, show his teeth, whistle).
6.	Tongue movements	Observe the position of the tongue at rest and at protrusion, assess atrophy and fasciculation.
7.	Upper limb muscle tone	Assess the resistance to passive movements at the wrist and elbow (slow movement for rigidity, fast for
		spasticity).
8.	Upper limb muscle	Examine both proximal and distal muscle groups – a) elevations of elbows above horizontal (bent and
	strength	abducting), b) symmetry of grasp (test with two fingers in the patient's palm). Ask patient to apply
	· ·	maximum strength, assess the power and symmetry.
9.	Bicipital reflex	Semi-flexed elbow, forearm supported, patient's muscles relaxed. Tap his biceps tendon with the reflex
		hammer. Assess flexion response and symmetry.
10.	Tricipital reflex	Passive abduction in shoulder and semi-flexed elbow, muscles relaxed. Tap the triceps tendon above the
		olecranon ulnae. Assess extension response and symmetry.
11.	Pronation sign	Both arms stretched forward, forearms in supine position, eyes closed. Observe forearm pronation and/or
		arm decline.
12.	Finger-to-nose test	Instruct the patient to point with his finger to his nose and to your finger. Note precision and continuity of
		movement.
	patient position	supine
13.	Lower limb muscle tone	Assess the resistance to passive movement in the knee and ankle (slow movement for rigidity, fast for
		spasticity).
14.	Lower limb muscle	Examine both proximal and distal muscle groups – a) Hip flexion b) Dorsal and plantar flexion of the foot.
	strength	Ask patient to apply maximum strength against your arms resistance, assess the power and symmetry.
		Alternative to b) is walking on heels and tiptoes – observe the level of elevation and symmetry.
15.	Patellar reflex	Have the patient's knee flexed and quadriceps muscle relaxed, support the back of his thigh. Tap the
		patellar tendon just below the patella. Assess extension response and symmetry.
16.	Achilles tendon reflex	Have patient supine with semi-flexed lower limb, muscles relaxed, hold his foot with your hand at a 90°
		angle. Tap the Achilles tendon. Assess plantar flexion response and symmetry.
17.	Mingazzini sign	Patient's thighs are bent 90 degrees, calves held horizontal, limbs not touching each other. Observe any
		decline of the limb.
18.	Babinski sign (plantar	Scratch the lateral border of the patient's sole, by starting near the heel and moving up above the
	response)	metatarsal heads towards the big toe. Use a pointed but not-too-sharp object (eg. a wooden stick). Look
		for extension of the big toe.
19.	Heel-knee-shin test	Eyes closed and legs stretched, patient is instructed to place the heel of one foot on the other knee and run
		it straight down his shin to the ankle. Note precision and continuity of movement.
20.	Sensory testing	Touch the face, dorsal forearm and hand, thigh and shin, left and right side. Ask the patient to refer feeling
		a/symmetry.
24	patient position	standing
21.	Romberg sign	Assess normal stance (I). Then ask patient to stand with feet together (II), and then to close the eyes (III).
		Assess instability in 20 sec after closing the eyes. Note wider base and/or any side steps. Minor instability
22	Cait	and oscillations with no side steps is normal.
22.	Gait	Evaluate the patient walking over at least 3 m, then ask the patient to turn and come back. Assess the body
1		posture, base width, step length, speed, symmetry, arm swing, turning (instability, freezing).

