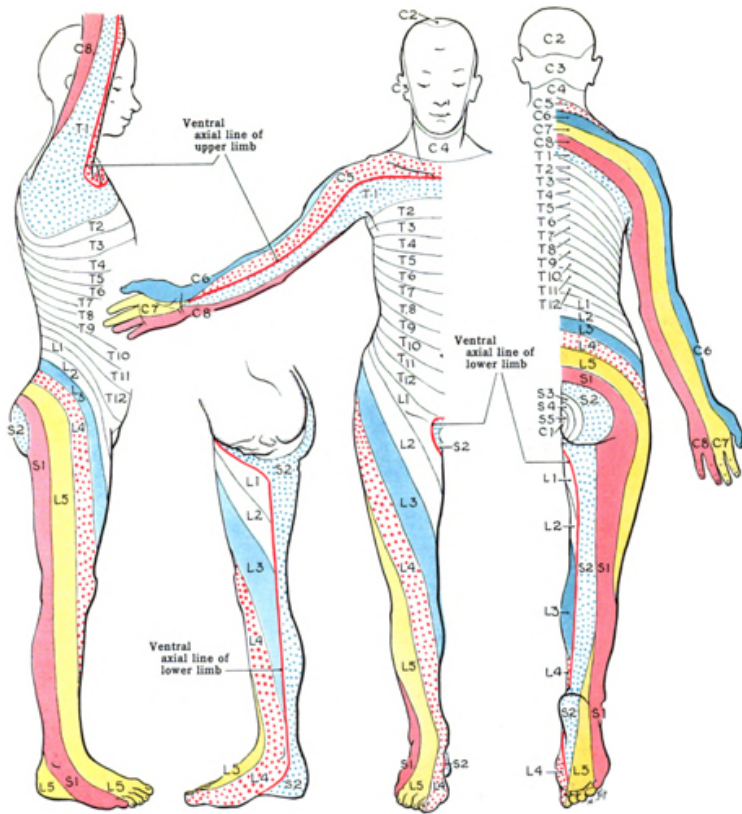


Dermatomes



Neurological exam.

Higher cerebral functions

Wakefulness, oriented to time/place/self, comprehension, attention, spatial function, dysarthria, dysphasia, dyslexia, dyspraxia, neglect, amnesia, right or left handed

Standing

Walking	Symmetry	Strength
	Pattern	Squat and rise
	Normal/Toes/Heels	Jump on one leg
	Arm movements	Coordination
	Step length	Romberg's test
Turning		Finger nose test

Sensory: Visual acuity, hearing

Sitting

Eyes	Fundus examination (papillary stasis)	Face	Symmetry
	Visual field (Donders test)		Facial expressions
	Movement (nystagmus, paresis, diplopia)		Sensibility
	Pupil (symmetry, size, reaction to light)		Motor function
Tests	Corneal reflex	Mouth	Ptosis
	Muscle strength (arm/finger/shoulder)		Symmetry
	Reflexes (brach.rad/bic/tric/patel./achill.)		Tongue motor function
	Grasset's test		Swallow reflex
	Dysdiadochokinesis, finger play		Gingival hyperplasia

Lying down

Important: Neck stiffness

Muscles	Strength – proximal, distal	Sensibility	Light touch
	Tonus* – hand/elbow/knee joint		Vibration
	Atrophies		Temperature
	Fasciculation		Pain
Tests	Tremor	Prim. reflex	Proprioception
	Heel-knee test		Grasping reflex
	Reverse Barré's test		Glabellar
	Straight leg raise		Palmomental
	Babinski's sign		Sucking

*Rigidity, gear phenomenon, spasticity

Glasgow Coma Scale

	Response	Score
Eye opening response	Spontaneously	4
	To speech	3
	To pain	2
	No response	1
Best verbal response	Oriented to time, place, and person	5
	Confused	4
	Inappropriate words	3
	Incomprehensible sounds	2
	No response	1
Best motor response	Obeys commands	6
	Moves to localized pain	5
	Flexion withdrawal from pain	4
	Abnormal flexion (decorticate)	3
	Abnormal extension (decerebrate)	2
	No response	1
Total score	Best response	15
	Comatose patient	≤8
	Totally unresponsive	3

Myotomes

Segment	Function
C1/C2	Neck flexion/extension
C3	Neck lateral flexion
C4	Shoulder elevation
C5	Shoulder abduction
C6	Elbow flexion/wrist extension
C7	Elbow extension/wrist flexion
C8	Finger flexion
T1	Finger abduction
L2	Hip flexion
L3	Knee extension
L4	Ankle dorsi-flexion
L5	Great toe extension
S1	Ankle plantar-flexion/ankle eversion/hip extension
S2	Knee flexion
S3–S4	Anal wink