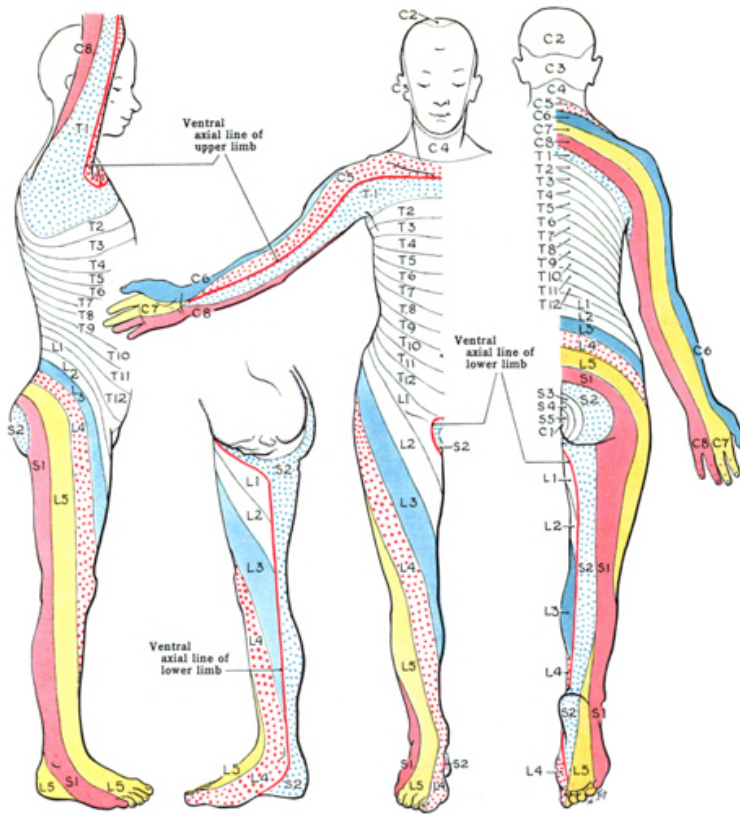


# Dermatomes



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

**Sensory:** Visual acuity, hearing

## Sitting

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

## Lying down

**Important: Neck stiffness**

Muscles	Strength – proximal, distal	Sensitivity
	Tonus* – hand/elbow/knee joint	
	Atrophies	
	Fasciculation	
Tests	Tremor	Prim. reflex
	Heel-knee test	
	Reverse Barré's test	
	Straight leg raise	
	Babinski's sign	Grasping reflex
		Glabellar
		Palmomental
		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
<b>C1/C2</b>	Neck flexion/extension
<b>C3</b>	Neck lateral flexion
<b>C4</b>	Shoulder elevation
<b>C5</b>	Shoulder abduction
<b>C6</b>	Elbow flexion/wrist extension
<b>C7</b>	Elbow extension/wrist flexion
<b>C8</b>	Finger flexion
<b>T1</b>	Finger abduction
<b>L2</b>	Hip flexion
<b>L3</b>	Knee extension
<b>L4</b>	Ankle dorsi-flexion
<b>L5</b>	Great toe extension
<b>S1</b>	Ankle plantar-flexion/ankle eversion/hip extension
<b>S2</b>	Knee flexion
<b>S3–S4</b>	Anal wink