Cheatography

Neurological Examination of the Lower Limbs Cheat Sheet by hjsdhaj via cheatography.com/201639/cs/42746/

Preperation	and Equipment:		Power:			
W Was	sh Hands		Test bo	th left and right lim	bs, directly comparing each move	ment in
I Intro	oduce Yourself + Patient's lo	dentity			turn.	
P Perr	mission		The pe	tiont abould norfer	m aaab mayamant an thair ayn ar	ad than
P Pati	ent Position + Pain		The pa		m each movement on their own ar examiner resisting the movement	na then
E Exp	laination		Hips:	•Flexion	Patient straightens leg, raises le	a off the
Pa	atient must be placed at 45°	and limbs exposed		•Abduction •Adduction	bed, lowers it to the bed	9
Equipment:				•Extension		
Cotton Wo Neurotips Tendon H 128Hz Tu	ammer		Knee:	•Flexion •Extension	Patient flexes hip and knee, sec thigh with one hand, ask patient out towards the end of the bed, heel towards bum	to kick
General Ins	pection:		Ankle:	DorsiflexionPlantarflexion	Leg flat on bed, secure leg, dors foot, plantarflex foot	siflex
•Postural ab	onormalities and deformities		Big Toe:	•Flexion	Hold foot secure, flex big toe (to	wards
•Leaning or	facial asymmetry			•Extension	patient), extend (away from patie	ent)
•Muscle was	sting, fasciculations, or trem	or	Coordina	tion		
•Abnormal r	novements					
•Obvious dis	scomfort or pain		Heel-shi	n test: Place nee shin	el on one knee and run up and dov	wn the
•Medical pa	raphernalia: Wa	alking aids, Calipers	Тое Тар		ps floor/your hand with their foot	
_					h sides and the patient should be a	asked to
Tone:			Widdt DC		ictions as quickly as possible	
	Check for pa	ain				
Check tone:		Extra movement =>	Tendon	Reflexes:		
	leg from side to side and watch	Decreased tone		Limb n	nust be totally relaxed	
	foot	Less movement => Rigidity	Knee:		bove the knee, with the knee ctly below the patella	L3/4
	Flex and extend knee	+ check for clonus at knee	Ankle:	-	d, laterally rotate leg, flex knee, iflexed. Strike Achilles Tendon	S1/2
Check for cl	onus: Rotate ankle	<i>Ensure no pain</i> Relax foot Hold lower leg with one hand and extend the ankle joint with the other Suddenly dorsiflex ankle				

Clonus is seen in upper motor neuron lesions

and hold in position Compare with other leg

С

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Plantar	Hold ankle with one hand.	Must be first		Pain:	Repeat same process as for ligh	nt touch.	
Response:	Warn the patient this may movement of the		big				
	tickle. toe Scratch the sole of the foot				Tested using a new neurotip. Must be disposed of in the <i>sharps bin</i> .		
	with a tongue depressor,	Negative Babinsk	ki sign	Temperature:	Tested the same way as pain/lic		
	starting at the lateral side of	(normal except in	n the	·	done.		
	the heel, up lateral sole,	case of LMN disease): <i>Flexion of the toes and</i> <i>pull away</i>					
	across base of toes.			Tested using a <i>cold tuning fork</i> .			
		pananay	Vibration	Strike tuning fork and hold to patient's sternum. Ask patient to close eyes. Begin on most distal bony prominance (Big toe o each foot)			
		Positive Babinski sign: <i>Extension (upwards movement) of the toes</i> Indicates UMN				Sense: (128Hz)	
						(/	
		damage		Proprioception:	Ask patient to close eyes.	lf normal, end	
Muscle	e may just contract, may not be a	n obvious moveme	nt		Hold big toe at the sides,	here. If patient	
	· · · · · · · · · · · · · · · · · · ·				distal to the DIP joint. Stabilise	unable to feel,	
F	Reflex may be present/absent , or	r reduced/brisk			the toe proximal to the tested		
F	Reflex may be present/absent , or	r reduced/brisk			the toe proximal to the tested joint.	move proximal up the joints.	
	Reflex may be present/absent , or	r reduced/brisk			joint.	up the joints.	
Sensation:	Reflex may be present/absent , or Important to touch rather then						
Sensation: Light	Important to touch rather then	stroke			joint. Demonstrate up/down for the	up the joints. PIP, Ankle,	
Sensation: Light	Important to touch rather then Lightly touch sternum first usir	<i>stroke</i> ng cotton wool.			joint. Demonstrate up/down for the patient, then repeat in a random direction, asking the patient to say which direction	up the joints. PIP, Ankle,	
Sensation: Light	Important to touch rather then Lightly touch sternum first usin Ask patient to close eyes and	<i>stroke</i> ng cotton wool.	ēel		joint. Demonstrate up/down for the patient, then repeat in a random direction, asking the	up the joints. PIP, Ankle,	
Sensation: Light	Important to touch rather then Lightly touch sternum first usir	<i>stroke</i> ng cotton wool. tell you when they f	eel		joint. Demonstrate up/down for the patient, then repeat in a random direction, asking the patient to say which direction the toe is moving.	up the joints. PIP, Ankle,	
Sensation: Light	Important to touch rather then Lightly touch sternum first usin Ask patient to close eyes and the touch.	<i>stroke</i> ng cotton wool. tell you when they f	ēeel <i>L1</i>		joint. Demonstrate up/down for the patient, then repeat in a random direction, asking the patient to say which direction	PIP, Ankle,	
F Sensation: Light Touch:	Important to touch rather then Lightly touch sternum first usin Ask patient to close eyes and the touch. Ask if touch feels the same on	<i>stroke</i> ng cotton wool. tell you when they f both sides		Gait and Balance	joint. Demonstrate up/down for the patient, then repeat in a random direction, asking the patient to say which direction the toe is moving. Repeat 3 times	up the joints. PIP, Ankle,	
Sensation: Light	Important to touch rather then Lightly touch sternum first usir Ask patient to close eyes and the touch. Ask if touch feels the same on Proximal anterior upper thigh	<i>stroke</i> ng cotton wool. tell you when they f both sides	L1	Gait and Balance Examine Gait:	joint. Demonstrate up/down for the patient, then repeat in a random direction, asking the patient to say which direction the toe is moving. Repeat 3 times	up the joints. PIP, Ankle,	
Sensation: Light	Important to touch rather then Lightly touch sternum first usin Ask patient to close eyes and the touch. Ask if touch feels the same on Proximal anterior upper high Proximal anterior upper leg, be	<i>stroke</i> ng cotton wool. tell you when they f both sides	L1		joint. Demonstrate up/down for the patient, then repeat in a random direction, asking the patient to say which direction the toe is moving. Repeat 3 times	up the joints. PIP, Ankle,	
Sensation: Light	Important to touch rather then Lightly touch sternum first usin Ask patient to close eyes and the touch. Ask if touch feels the same on Proximal anterior upper thigh Proximal anterior upper leg, be knee	<i>stroke</i> ng cotton wool. tell you when they f both sides	L1 L2	Examine Gait:	joint. Demonstrate up/down for the patient, then repeat in a random direction, asking the patient to say which direction the toe is moving. Repeat 3 times	up the joints. PIP, Ankle, Knee, etc.	
Sensation: Light	Important to touch rather then Lightly touch sternum first usin Ask patient to close eyes and the touch. Ask if touch feels the same on Proximal anterior upper thigh Proximal anterior upper leg, be knee Anterior surface of knee	<i>stroke</i> ng cotton wool. tell you when they f both sides	L1 L2 L3	Examine Gait:	joint. Demonstrate up/down for the patient, then repeat in a random direction, asking the patient to say which direction the toe is moving. Repeat 3 times : : : : : : : : : : : : :	up the joints. PIP, Ankle, Knee, etc.	
Sensation: Light	Important to touch rather then Lightly touch sternum first usin Ask patient to close eyes and the touch. Ask if touch feels the same on Proximal anterior upper thigh Proximal anterior upper leg, be knee Anterior surface of knee Medial aspect of lower leg	<i>stroke</i> ng cotton wool. tell you when they f both sides	L1 L2 L3 L4	Examine Gait:	joint. Demonstrate up/down for the patient, then repeat in a random direction, asking the patient to say which direction the toe is moving. Repeat 3 times Repeat 3 times Romberg's Test: Patient stands with their feet their eyes.	up the joints. PIP, Ankle, Knee, etc.	
Sensation: Light	Important to touch rather then Lightly touch sternum first usin Ask patient to close eyes and the touch. Ask if touch feels the same on Proximal anterior upper thigh Proximal anterior upper leg, be knee Anterior surface of knee Medial aspect of lower leg Lateral aspect of lower leg	<i>stroke</i> ng cotton wool. tell you when they f both sides etween thigh and	L1 L2 L3 L4 L5	Examine Gait:	joint. Demonstrate up/down for the patient, then repeat in a random direction, asking the patient to say which direction the toe is moving. Repeat 3 times : Romberg's Test: Patient stands with their feet	up the joints. PIP, Ankle, Knee, etc.	
Sensation: Light	Important to touch rather then Lightly touch sternum first usin Ask patient to close eyes and the touch. Ask if touch feels the same on Proximal anterior upper high Proximal anterior upper leg, be knee Anterior surface of knee Medial aspect of lower leg Lateral aspect of lower leg	<i>stroke</i> ng cotton wool. tell you when they f both sides etween thigh and	L1 L2 L3 L4 L5 S1 S2	Examine Gait:	joint. Demonstrate up/down for the patient, then repeat in a random direction, asking the patient to say which direction the toe is moving. Repeat 3 times Repeat 3 times Romberg's Test: Patient stands with their feet their eyes.	up the joints. PIP, Ankle, Knee, etc.	

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Completing the Examination:

Thank the Patient

•Consider Upper Limbs Examinaiton

•Consider Cranial Nerves Examination

•Consider Examining Anal Tone

Wash Hands

Common Disorders

B12 deficiency: Commonest cause of dorsal column problems sub acute combined degeneration of the spinal cord

Cerebellar disease is ipsilateral and causes horizontal nystagmus -Fast phase towards the side of the lesion

MRC Muscle Power Scale:

MRC Muscle Power Scale

Score	Description	
0	No contraction	
1	Flicker or trace of contraction	
2	Active movement, with gravity eliminated	
3	Active movement against gravity	
4	Active movement against gravity and resistance	
5	Normal power	

Lower Limbs Dermatome Map:



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