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

| Preperation and Equipment: |  |
| :--- | :--- |
| W | Wash Hands |
| I | Introduce Yourself + Patient's Identity |
| P | Permission |
| P | Patient Position + Pain |
| E | Explaination |
|  | Patient must be placed at $45^{\circ}$ and limbs exposed |





## Check for pain

$\left.\begin{array}{lll}\text { Check tone: } & \begin{array}{l}\text { Roll the relaxed } \\ \text { leg from side to } \\ \text { side and watch } \\ \text { foot }\end{array} & \begin{array}{l}\text { Extra movement => } \\ \text { Decreased tone }\end{array} \\ \text { Check for clonus: } & \begin{array}{l}\text { Flex and extend } \\ \text { knee } \\ \text { Rotate ankle }\end{array} & \begin{array}{l}\text { Rigidity } \\ \text { + check for clonus at knee }\end{array} \\ & & \begin{array}{l}\text { Ensure no pain } \\ \text { Relax foot }\end{array} \\ \text { Hold lower leg with one } \\ \text { hand and extend the ankle } \\ \text { joint with the other } \\ \text { Suddenly dorsiflex ankle } \\ \text { and hold in position } \\ \text { Compare with other leg }\end{array}\right]$

Clonus is seen in upper motor neuron lesions

| Power: |  |  |
| :---: | :---: | :---: |
| Test both left and right limbs, directly comparing each movement in turn. |  |  |
| The patient should perform each movement on their own and then attempt with the examiner resisting the movement |  |  |
| Hips: | -Flexion <br> -Abduction <br> -Adduction <br> -Extension | Patient straightens leg, raises leg off the bed, lowers it to the bed |
| Knee: | -Flexion <br> -Extension | Patient flexes hip and knee, secure thigh with one hand, ask patient to kick out towards the end of the bed, pull in heel towards bum |
| Ankle: | -Dorsiflexion <br> -Plantarflexion | Leg flat on bed, secure leg, dorsiflex foot, plantarflex foot |
| Big Toe: | -Flexion <br> -Extension | Hold foot secure, flex big toe (towards patient), extend (away from patient) |


| Coordination: |  |
| :--- | :--- |
| Heel-shin test: | Place heel on one knee and run up and down the <br> shin |
| Toe Tapping: $\quad$ Patient taps floor/your hand with their foot |  |
| Must be completed for both sides and the patient should be asked to |  |
| perform the actions as quickly as possible |  |


| Tendon Reflexes: |  |  |
| :--- | :--- | :--- |
| Knee: | Simb must be totally relaxed <br> flexed, strike directly below the patella | $L 3 / 4$ |
| Ankle: | Leg flat on the bed, laterally rotate leg, flex knee, <br> hold the foot dorsiflexed. Strike Achilles Tendon | $S 1 / 2$ |



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| Tendon Reflexes: (cont) |  |  |
| :---: | :---: | :---: |
| Plantar <br> Response: | Hold ankle with one hand. Warn the patient this may tickle. <br> Scratch the sole of the foot with a tongue depressor, starting at the lateral side of the heel, up lateral sole, across base of toes. | Must be first movement of the big toe <br> Negative Babinski sign (normal except in the case of LMN disease): Flexion of the toes and pull away <br> Positive Babinski sign: <br> Extension (upwards movement) of the toes Indicates UMN damage |

Muscle may just contract, may not be an obvious movement

Reflex may be present/absent, or reduced/brisk


| Sensation: (cont) |  |
| :---: | :---: |
| Pain: | Repeat same process as for light touch. <br> Tested using a new neurotip. <br> Must be disposed of in the sharps bin. |
| Temperature: | Tested the same way as pain/light touch, rarely done. <br> Tested using a cold tuning fork. |
| Vibration <br> Sense: $(128 \mathrm{~Hz})$ | Strike tuning fork and hold to patient's sternum. Ask patient to close eyes. |
|  | Begin on most distal bony prominance (Big toe of each foot) |
| Proprioception: | Ask patient to close eyes. If normal, end <br> Hold big toe at the sides,  <br> here. If patient is  <br> distal to the DIP joint. Stabilise  <br> the toe proximal to the tested  <br> joint. unable to feel, <br> move proximally <br> up the joints. <br> Demonstrate up/down for the <br> patient, then repeat in a <br> random direction, asking the Ankle, Knee, etc. <br> patient to say which direction  <br> the toe is moving.  <br> Repeat 3 times  |
| Gait and Balance: |  |
| Examine Gait: |  |
| Examine Balance: | Romberg's Test: <br> Patient stands with their feet together and close their eyes. <br> If they become unsteady -> Positive test |

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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 - <br> sub acute combined degeneration of the spinal <br> 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


Lower Limbs Dermatome Map:


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