# iyno.org: Signs and Reflexes of the Upper and Lower Limbs

### Muhammad Saqib Hussain 09 December 2025

Clinically Important Reflexes and Signs to check for in a person with neurological symptoms

## 1. Upper Limb

## 1.1. Reflexes

Reflex Name	What to do?	Response
Bicipital	Strike the examiner's finger placed on the tendon of the biceps over the cubital fossa	arm flexes
Tricipital	strike the tendon of the tri- ceps just above the olecra- non	the arm extends
Styloradial	strike 1 to 2 inches above the radio-ulnar joint on the radial side of the arm	fingers flex
finger flex reflex	strike the fingers of the ex- aminer placed on the par- tially flexed fingers of the patient on the palmar side	fingers flex

## 1.2. Spastic Pyramidal Signs

Sign	What to do	What to expect	
Juster's Sign	Flick the palmar sur- face of the little fin- ger side on the palm	fingers flex	
Hoffman's Sign	Flick the middle finger into flexion	the index and thumb flex too	
Raduvici- Marinescu's sign	Flick the thenar eminence	there is twitching of the chin	
Tromner's Sign	Flick the middle finger into extension	the middle, index and thumb flex	

#### **Contents**

L.	oppe	er Limb	-
	1.1.	Reflexes	1
	1.2.	Spastic Pyramidal Signs	1
	1.3.	Paretic Pyramidal Signs	2
2.	Lowe	er Limb	2
	2.1.	Reflexes	2
	2.2.	Pyramidal Signs	2

## 1.3. Paretic Pyramidal Signs

Sign	What to do	What to expect	
Mingazinni's Sign	Patient outstretches their arms	The affected side droops	
Hanzal's Sign	Same as Mingazinni's sign (the patient outstretches their arm)	1	
Retardation Test	The patient is asked to perform back and forth movements		

## 2. Lower Limb

## 2.1. Reflexes

Name	What to do		What to expect		
Patellar Reflex	Strike the tendon	patellar	The leg	extends	
Achilles Tendon Reflex	Strike the Tendon	Achilles	Plantar the foot	Flexion	of

## 2.2. Pyramidal Signs

Sign	What to do	What to expect
Babinski's sign	Stroke the plantar surface of the foot from the heel towards the little finger and then towards the toe	The toe extends while the other fingers fan out.
Mingazzini's Sign	supine (face up) and	The patient closes their eyes and they can't hold their leg (or leg) in the position and it slowly (or rapidly depending on the severity) droops down.