

# The ALS Motor Observational Telemedicine Objective Rasch-built assessment (ALS MOTOR)

**\*\*\*Confirm the participant's left and right side prior to exam scoring\*\*\***

## 1. Neck extension

1	With the chin positioned on the chest, the patient can lift the head to the neutral position <i>(or if the patient is lying down, the patient can lift the head off of the bed or pillow)</i>
0	The patient is not able to lift the head to the neutral position with the chin positioned on the chest <i>(or if the patient is lying down, the patient cannot lift the head off of the bed or pillow)</i>

## 2. Speech

2	Normal speech
1	Speech is mildly or moderately slurred.
0	Speech is unintelligible, or unable to speak

## 3. Orofacial strength

*Ask the patient to make a seal with the lips and puff out the cheeks with air. Demonstrate the task to the patient first.*

1	Able to puff out cheeks
0	Unable to puff out cheeks

## 4. Tongue

1	The patient can protrude the tongue outside of the mouth
0	Unable to protrude the tongue outside of the mouth

## 5. Sniff

1	Normal
0	Weak or unable

## 6. Cough

1	Normal
0	Weak or unable

## 7. Single exhalation.

*Ask the patient to fully inhale, then count as far as they can out loud on 1 breath in their regular speaking voice before having to inhale again, as quickly and as clearly as they can.*

*Demonstrate the task for the patient. Watch the patient carefully and terminate the count if you observe them inhaling. Record "0" if they are unable to count out loud.*

2	Able to count to 20 or above
1	Able to count to 5-19
0	Able to count to 0-4 or unable to perform single exhalation

Start Time \_\_\_\_\_

End Time \_\_\_\_\_

Participant Name \_\_\_\_\_

Examiner \_\_\_\_\_

Phone # \_\_\_\_\_

Date \_\_\_\_\_

**8. Elbow flexion**

Right	Left	
1	1	Able to flex arm at the elbow and bring fist to shoulder level
0	0	Unable to flex the arm and bring fist to shoulder level

**9. Finger extension**

Right	Left	
2	2	Able to fully extend the fingers
1	1	Able to partially extend the fingers
0	0	No contraction when trying to extend the fingers

**10. Grip/Finger flexion**

Right	Left	
2	2	Able to make a tight fist
1	1	Unable to make a tight fist but can flex the fingers
0	0	No contraction when trying to flex the fingers

**11. Straight arm raise**

Ask the patient to raise both arms as high as they can above the head with the arms fully extended. If the patient is lying down, ask the patient to extend the arms straight in the air towards the ceiling

Right	Left	
1	1	Arm is raised fully extended above the head ( <i>or if the patient is lying down, arm is raised fully extended towards the ceiling</i> )
0	0	Unable to fully extend arm above the head ( <i>or if the patient is lying down, unable to raise arm fully extended towards the ceiling</i> )

**12. Trunk strength**

Ask the patient to sit upright without any arm or back support

1	Able to sit up unassisted
0	Unable to sit up unassisted

**13. Knee extension**

Right	Left	
2	2	While seated, able to fully extend the leg at the knee ( <i>or while lying down, the patient can extend the leg straight and raise the entire leg off of the bed</i> )
1	1	While seated, able to partially extend the leg at the knee ( <i>or while lying down, the patient can raise the heel off of the bed, but cannot extend the leg straight and raise the entire leg off of the bed</i> )
0	0	While seated, unable to extend the leg at the knee ( <i>or while lying down, the patient cannot raise the heel off of the bed</i> )

Participant Name \_\_\_\_\_

Date \_\_\_\_\_

**14. Ankle dorsiflexion**

Right	Left	
<b>1</b>	<b>1</b>	While seated and with heel placed on the ground, able to lift the ball of the foot off the ground ( <i>or while lying down, the patient can visibly dorsiflex the foot</i> )
<b>0</b>	<b>0</b>	While seated and with heel placed on the ground, not able to lift the ball of the foot off the ground ( <i>or while lying down, the patient cannot visibly dorsiflex the foot</i> )

**15. Standing from a seated position**

*Ask the patient to stand from a seat, if possible without using the hands to push off the chair.*

*Chair should be standard height so that upper legs are parallel to the ground at rest.*

<b>3</b>	Can stand without using hands to push off the chair
<b>2</b>	Can stand with use of hands to push of the chair, but does not require assistance from another person or a device
<b>1</b>	Needs assistance from a device or another person to stand
<b>0</b>	Unable to stand

**16. Walking**

<b>2</b>	Normal walking
<b>1</b>	Able to walk, but walking is abnormal
<b>0</b>	Unable to walk

Participant Name \_\_\_\_\_

Date \_\_\_\_\_

<b>Raw Score</b>	<b>Normed Score</b>
0	0
1	12
2	20
3	24
4	28
5	31
6	33
7	35
8	37
9	39
10	41
11	42
12	44
13	45
14	47
15	48
16	49
17	51
18	52
19	53
20	55
21	56
22	58
23	59
24	61
25	63
26	65
27	67
28	69
29	72
30	76
31	80
32	88
33	100

**Participant Name** \_\_\_\_\_

**Date** \_\_\_\_\_