Cervical Joint Position Error Test

Module tutorial

Q-REC-VI-164

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1. GENERAL

1.1.   Description

Cervical Joint Position Error Test software is an immersive 3D simulation based on virtual reality technology, which immerses a person in a digitally created artificial world.

Cervical Joint Position Error Test is an assessment software for neck muscle proprioception.
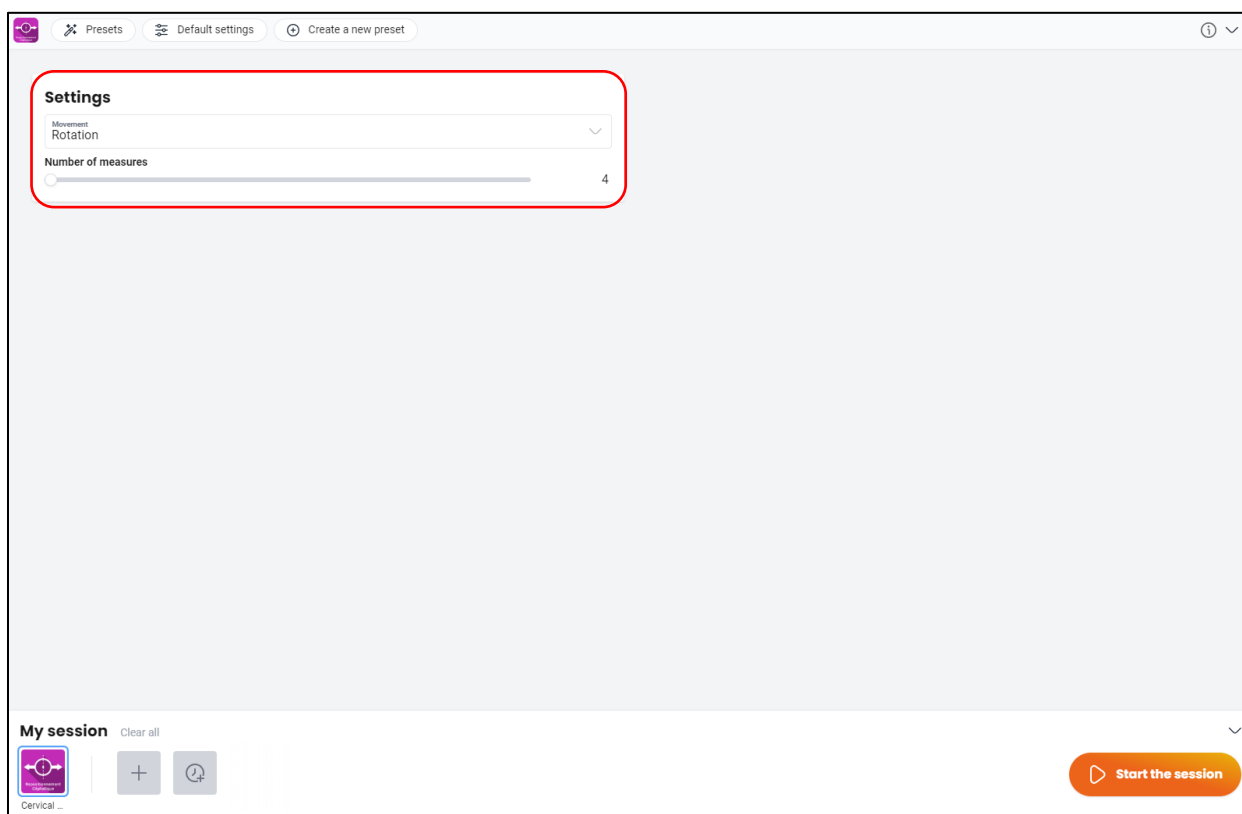
1.2.   Required accessories

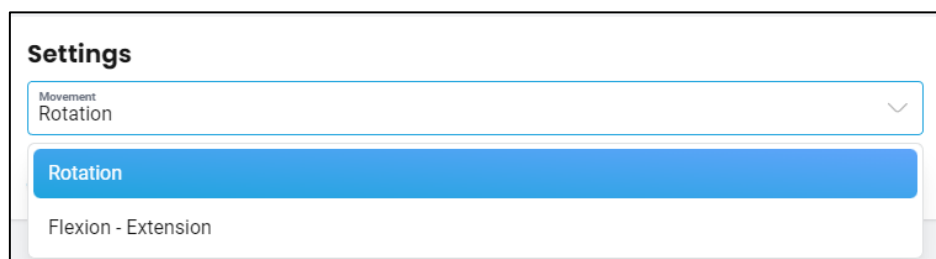VR headset, Xbox controller optional.

1.3.   Patient setup

Use in the sitting or standing position.

2. Settings

2.1.   Session settings

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Movement:

Rotation or **Flexion – Extension**

This setting defines the type of movement the patient will have to perform during the session.

Patients are asked to turn their heads to the right or left or to perform flexion-extension movements. They must then return to where they perceive the initial position to be, and validate this position.

Number of measures:
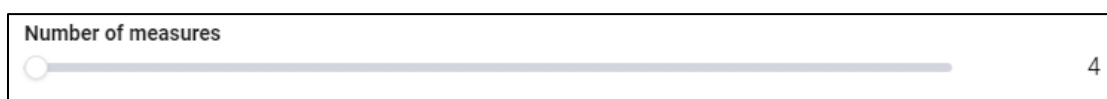
Increases the number of measures taken before the conclusion of the session.
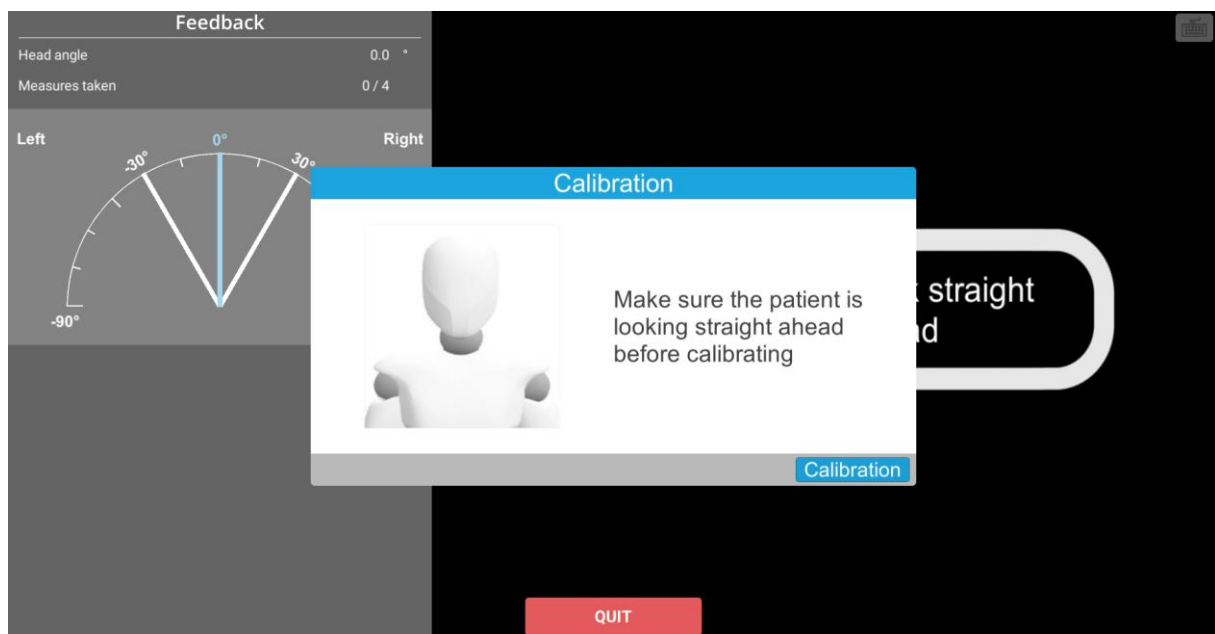
Value: 4 to 24 measures.

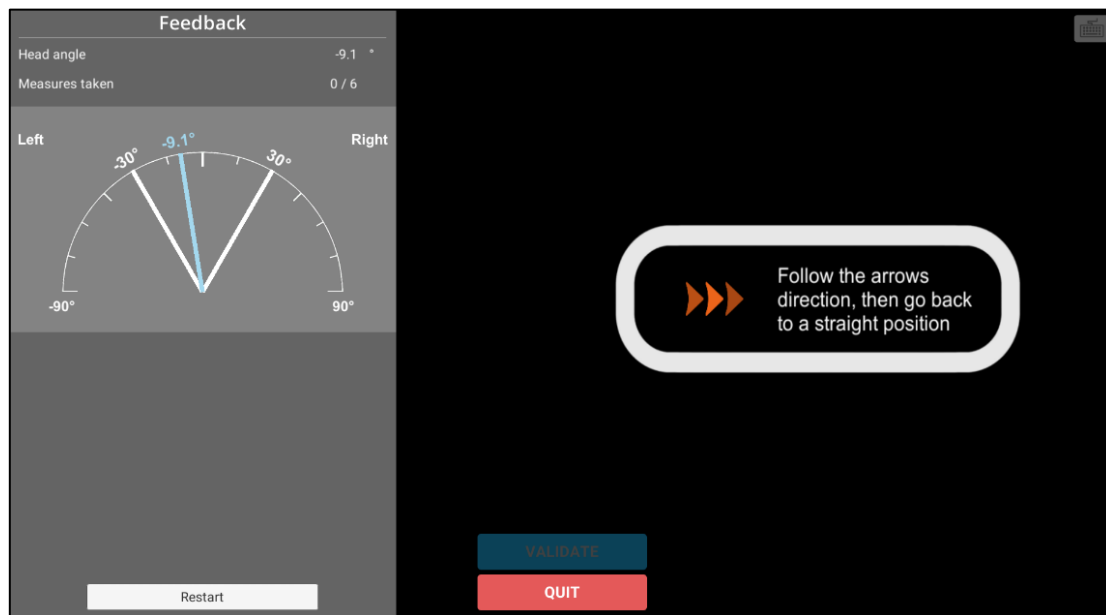Q-REC-VI-164

3. Module

3.1. Session

Once you've defined the presets, click on "**Start the session**" in the bottom right-corner of the screen.

3.1.1. Calibration

1. Make sure the patient is looking straight ahead.
2. Press the "**Calibration**" button or the "**C**" key on the keyboard.

3.1.2. Proceeding with the session

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1) Make sure the patient is looking straight ahead before starting the exercise.
2) The patient rotates their head right or left and returns to the starting position, head upright.
3) When the patient thinks they have returned to the starting position (head upright), they can **validate the position by pressing the A button** on the Xbox controller.

Or: Manually validate the position indicated by the patient by clicking on the "**Validate**" button or press the "**Enter**" key on the keyboard.

All indications required for the exercise are displayed in the headset. That way, patients can carry out the test on their own and validate the measures themselves, using the Xbox controller.

3.2.   Shortcuts

During the session, the shortcut list is found by clicking on the Xbox controller icon in the upper right corner of the screen.

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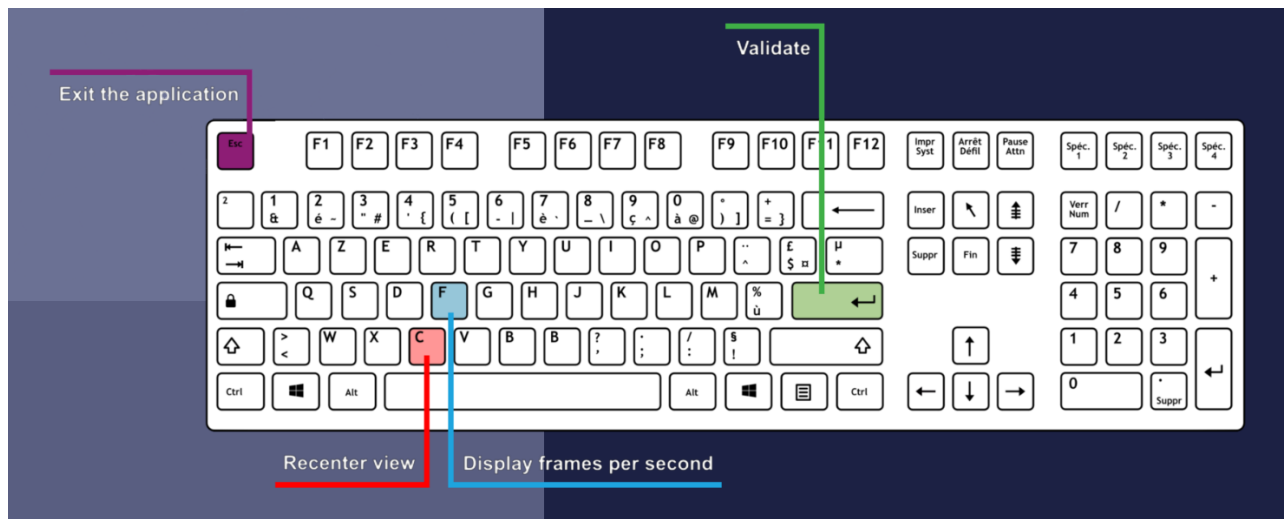
3.3. Results

Once the session is over, you can view the results.

3.3.1. Summarized results

By default, the results are as follows:

- The value of each angle measured (in degrees).
- The patient's average gross rotation or flexion-extension (in degrees).
- The patient's average rotation or flexion-extension without extremes (in degrees).

3.3.2. Graphs and report

To find the detailed results and to generate a report, click on the histogram icon.

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Name	Result
Measure 1	25.70 °
Measure 2	-27.00 °
Measure 3	32.60 °
Measure 4	-32.50 °
Raw average	-0.30 °
Average without extremes	-0.60 °

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