



Performing a HUMAC2015 Mock Test

1. Introduction

- 1.1. This document describes the steps to perform a NORM mock test using the HUMAC2015 program.

2. Procedure

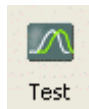
- 2.1. Create a Patient



- 2.1.1. Click the **Patient** button .
- 2.1.2. From the **Patient Selection** screen, click the **New** button.
- 2.1.3. From the **Patient Background Information** screen, enter **CSMiService** as the Patient's Last Name and the HUMAC Interface **Serial Number** as the ID. Click **OK** to continue.

The screenshot shows a dialog box titled "Patient Background Information" with three tabs: "General", "Injury/Group", and "INRTEK". The "General" tab is active. It contains two text input fields: "Last, First, MI" with the value "CSMi Service" and a dropdown menu set to "A..Z"; and "ID" with the value "1234" and a dropdown menu set to "A..Z".

- 2.2. Select a Pattern



- 2.2.1. Click the **Test** button .
- 2.2.2. From the **Pattern Selection** screen, single click **Knee Extension/Flexion** and click the **OK** button.

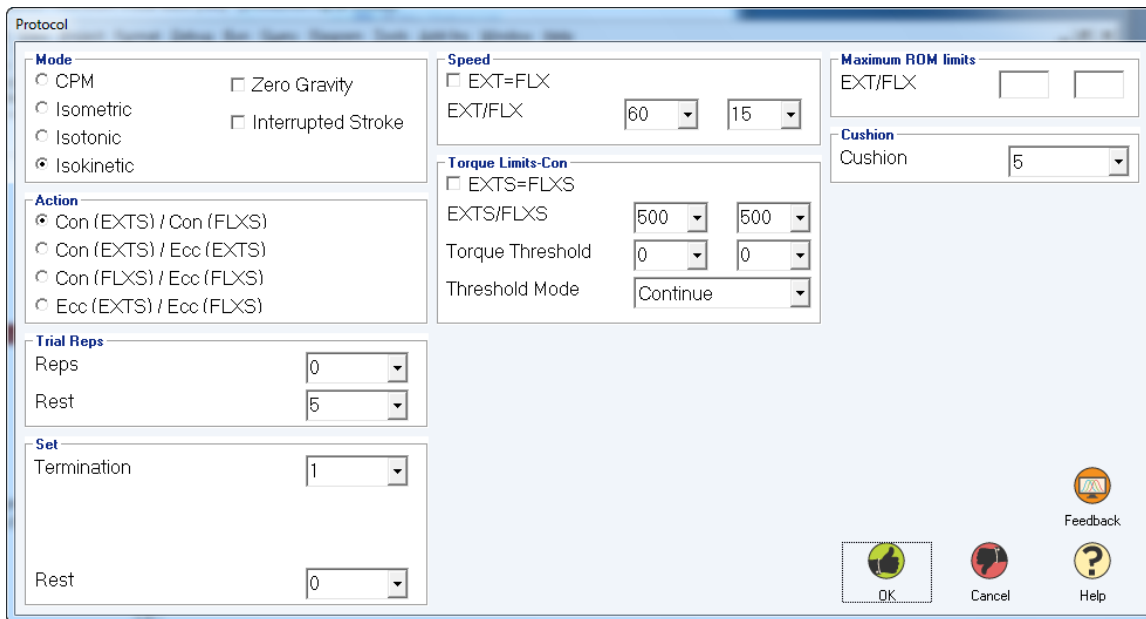
Hip	Flexion/Extension	Standing
Hip	Internal Rotation/External Rotation	
Hip	Internal Rotation/External Rotation	Modified
▶ Knee	Extension/Flexion	
Knee	Extension/Flexion	Prone
Knee	Internal Rotation/External Rotation	

- 2.3. Select a Protocol

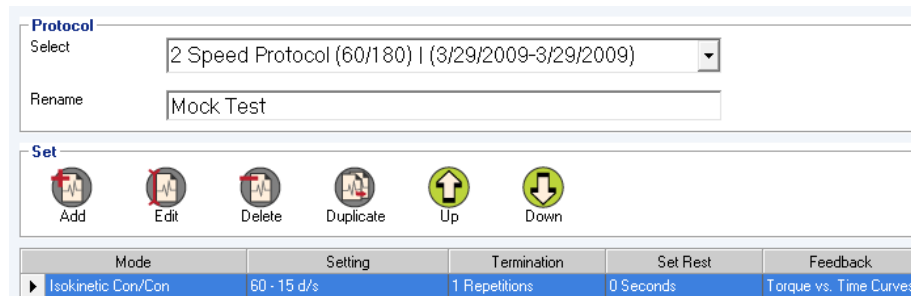
- 2.3.1. Click the **Delete** button to delete all sets in the displayed protocol.
- 2.3.2. Click the **Add** button to add a new set.
- 2.3.3. Program the set as follows:

Parameter	Setting
Mode	Isokinetic
Action	Con/Con

Set Termination	1 Rep
Set Rest	0
Trial Reps	0
Trial Rest	0
Speed EXT/FLX	60/15
Cushion	5
Concentric Torque Limit ADBS/ADDS	500/500
Eccentric Torque Limit ADBS/ADDS	N/A
Overtorque Mode	N/A
Torque Threshold	N/A

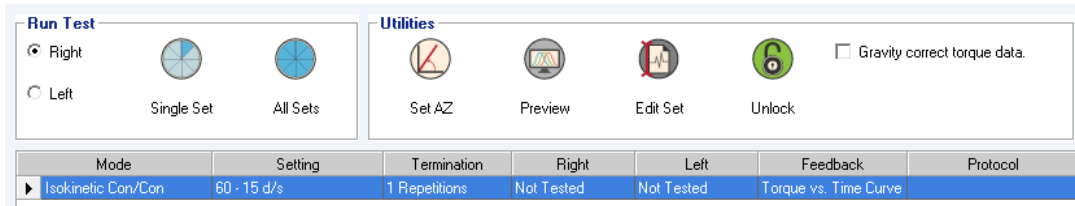


- 2.3.4. Click **OK** to save the Set.
- 2.3.5. Enter **Mock Test** as the **Description** in the Protocol Selection screen.
- 2.3.6. Click **OK** to save the Protocol.



2.4. Performing the Test

- 2.4.1. From the Test Status screen, select the **Right** side and clear the **Gravity correct torque data**. Click **Single Set**.

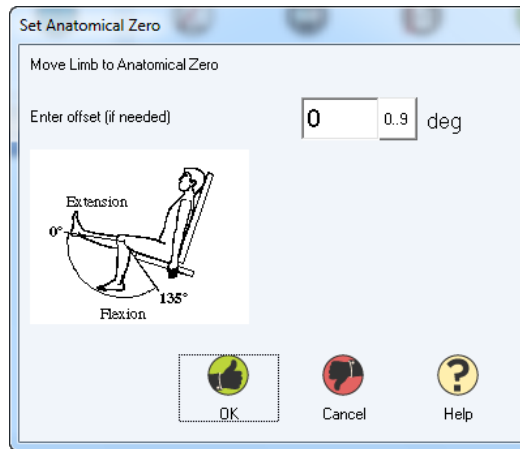


2.5. Dynamometer Settings

- 2.5.1. Set the ROM Stops at White “V” and Teal “F”.
- 2.5.2. Install the Hip/Knee adapter at the 37 setting. Remove any pads from the adapter.
- 2.5.3. Click **OK** to save the settings.

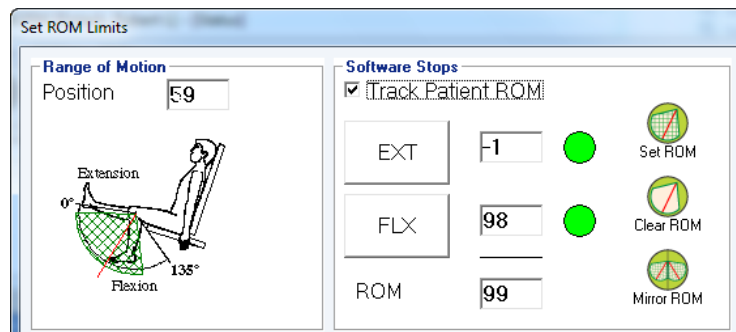
2.6. Anatomical Zero

- 2.6.1. Enter “0” as the **offset**.
- 2.6.2. Position the input adapter against the Teal “F” stop click **OK** to set the Anatomical Zero.



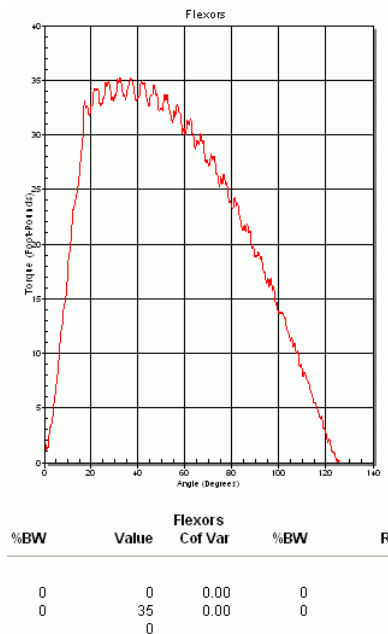
2.7. Set ROM Limits

- 2.7.1. Position the arm against the Teal “F” stop and click the **EXT** button.
- 2.7.2. Position the arm against the White “V” stop and click the **FLX** button.
- 2.7.3. Click the **Set ROM** button.
- 2.7.4. Click **OK** to save the settings.



2.8. Perform the Test

- 2.8.1. The HUMAC will instruct you to place the arm in full Flexion. Position the arm straight down and place the single 25 pound calibration weight on the adapter. Move the arm against the White “V” stop. The feedback display will appear.
- 2.8.2. Perform a single repetition by raising the arm to the Teal “F” stop. After you reach the stop, allow the arm to begin falling smoothly.
- 2.8.3. After the arm moves to straight down, if the feedback display is still showing, gently move the arm against the White “V” stop and release the arm.
- 2.9. Repeat steps 2.4 through 2.8 for the **Left** side using the Teal “V” and White “F”.
- 2.10. Printing the Report
 - 2.10.1. From the Status screen, click the **Preview** button.
 - 2.10.2. The HUMAC will display a short report. Verify the **Flexion** torque for both sides is **35 ± 2 ft-lbs (45 to 50 nm)**.



- 2.11. Ending the Mock Test.
 - 2.11.1. Click the **Print** button to print the test.
 - 2.11.2. Click **OK** to close the **Print Preview** window.
 - 2.11.3. Click **OK** to exit the **Test Status** screen.
 - 2.11.4. Click **Yes** to the “Not all test were run” message.
 - 2.11.5. Click **OK** to exit the **Print Report** screen.