

MediTutor v.5 Rehabilitation Software

USER'S MANUAL



May 2012

Revision History

Author	Release No.	Date	Revision Description
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Eitan Gluzman	MediTutor v.5.30	20/03/2012	Add sub topic: MediTutor Toolbar
Eitan Gluzman	MediTutor v.5.30	20/03/2012	Add sub topic: Fruit Shop to treatmnet list
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USER'S MANUAL

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GENERAL INFORMATION

Introduction

The MediTutor™ is a novel system designed to evaluate and rehabilitate sensory, motor and cognitive hand impairments. The system is composed of an ergonomic patient Worn device and the MediTutor™ support software. The MediTutor™ is sophisticated rehabilitation software allowing for both patient Limb movement impairments function evaluation and treatment Limb movement impairments. The result of using the MediTutor™ system is an improvement in limb function. Therapists including Occupational Therapists and Physical Therapists use the MediTutor™ system as a major tool in their rehabilitation program. The therapist can evaluate the following clinical Limb movement parameters:

- Passive Range of Motion
- Active Range of Motion
- Velocity of joint movements
- Characterization of quality of the movement, such as tremor or smoothness
- Fine motor and gross motor movement

The information gained in the evaluation stage can be used to quantify patient performance, Determine therapy goals and monitor patient progress.

Clinical Concept

[TBD]

Indications and Contraindications

The MediTutor™ system is used to evaluate and treat limb movement dysfunction that result from the causes listed below. The MediTutor™ system is safe and non-invasive.

Indications

- 1- Neurological Conditions i.e. Stroke
- 2- Multiple Sclerosis (MS)
- 3- Traumatic Brain Injury (TBI)
- 4- Orthopedic injures i.e Fractures
- 5- Movement Disorders i.e. Parkinson's disease
- 6- Complex Regional Pain Syndrome (CRPS)
- 7- Hand Burns
- 8- Hand Operations i.e. Tendon Transfer Surgery
- 9- Children with Cerebral Palsy
- 10- Children with Developmental Coordination Disorders
- 11- Academic Rehabilitation Researches

Contraindications

Do not use the MediTutor™ system without consultation with your doctor in the following cases:

- 1- Patient has an open wound
- 2- Patient has a skin infection
- 3- Patient has a skin disease on the treated hand
- 4- The patient should stop using the device if they show signs of scratching or bloom in the treated area. This occurrence is very rare.

Side Effects

Use of the MediTutor™ system does not lead to any unwanted side effects.

In the very unlikely event of skin irritations stop treatment and consult with your doctor.

Warranty

1. The company is responsible for any manufacturing defect in the MediTutor or any damage to the device caused by improper packing and shipping.
2. Warranty extends to all device components and the MediTutor™ software.
3. Warranty period is valid for a period of one year following device delivery.

Make sure all of the following contents are included:

- An ergonomic patient worn device
- MediTutor™ software



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PO Box. 8306

Information: info@MediTouch.co.il

Coordination

For remote support the client need to download and install Team viewer and supply ID number and password.

Help Desk

For Technical and clinical support, please call +972-9-8637477 or email your question.

to info@MediTouch.co.il .Our website is: www.MediTouch.co.il

MEDITUTOR SUMMARY

System Configuration

MediTutor™ is network based software allowing the data base to be shared among many clients. This means that the MediTutor™ has both server software and client software packages. Once installed at the clinic the software is managed within the organization and not monitored from outside the organization. The organization should nominate a system administrator to undertake software maintenance and support. Note, the organization should define a Database back up procedure for all server data.

MediTutor Home configuration

Description

MediTutor™ home edition operates on a single workstation or a laptop with no use of network resources.

Target customer(s)

Clinician workstation, Marketing presentations and Single user

Configuration

Clients with no Database access, treatments only.



Computer requirements

OS – Windows 2000 32 bit, Windows XP-SP2 32bit or Windows 7 32 / 64 bit

CPU – Intel Pentium 4, AMD, 1.7 GHz or above

Video card – Support OpenGL 2.1, 128Mb of RAM, Minimum screen resolution 600x800

USB – Two available USB channels

MediTutor Standalone configuration

Description

MediTutor™ standalone edition operates on a single workstation or a laptop with no use of network resources.

Target customer(s)

A user that performs an evaluation and treatment sessions on a desktop\laptop

Configuration

Clients with Database access, evaluations, reports and treatments.



Computer requirements

OS – Windows 2000 32 bit, Windows XP-SP2 32bit or Windows 7 32 / 64 bit

CPU – Intel Pentium 4, AMD, 1.7 GHz or above

Video card – OpenGL 2.1, 128Mb of RAM, Minimum screen resolution 600x800

USB – Two available USB channels

MediTutor Professional configuration

Description

MediTutor™ is network based software where one database shared among many workstations.

MediTutor™ supports the operation of clinician workstation, user management, database and license

service on separate machines.

Target customer(s)

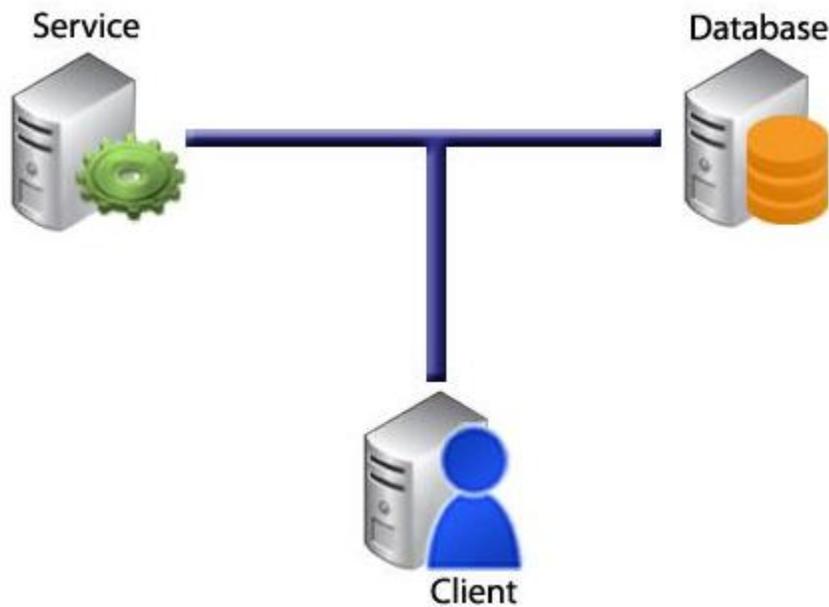
Small scale clinics which intends to share MediTutor database in network.

Configurations

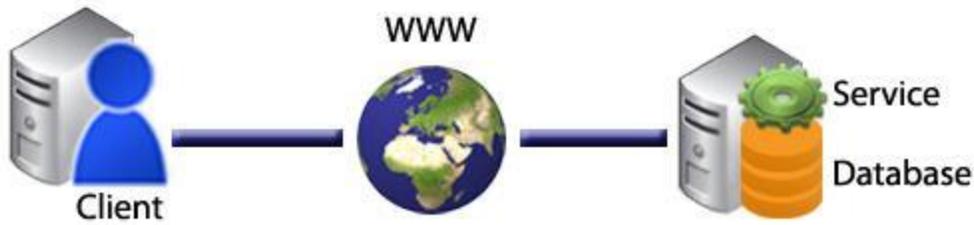
1. Network Configuration 1



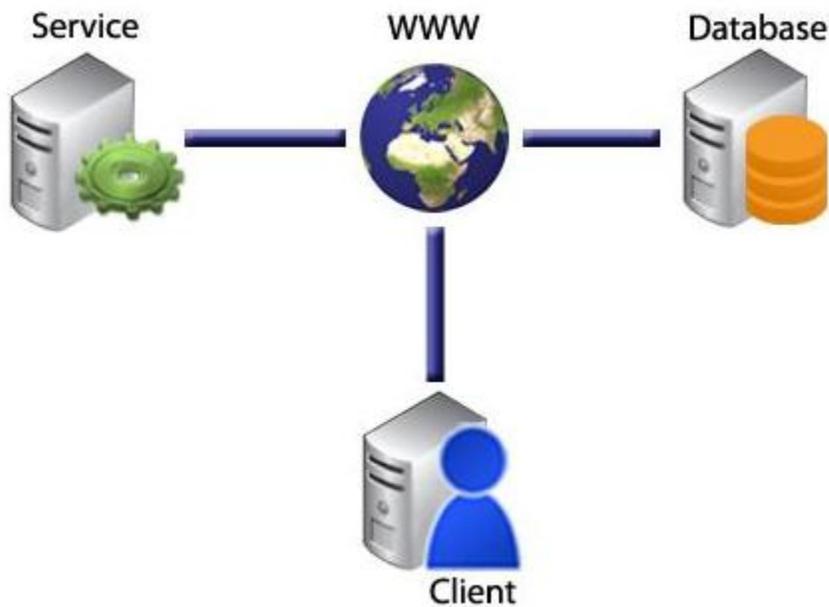
2. Network Configuration 2



3. Network Configuration 3



4. Network Configuration 4



Computer requirements

Client Terminal

- OS – Windows 2000 32 bit, Windows XP-SP2 32bit or Windows 7 32 / 64 bit
- CPU – Intel Pentium 4, AMD, 1.7 GHz or above
- Video card –Support OpenGL support, minimum of 128Mb of RAM, Minimum screen resolution 600x800
- USB port – Two USB channels
- Network card – 10/100

Database Server

- OS – Windows XP-SP2 32 bit, Windows Server 2003 32 bit or Windows Server 2008 64 bit
- DB – MS-SQL Server

-
- Network card – 10/100

MediTutor Enterprise configuration

Description

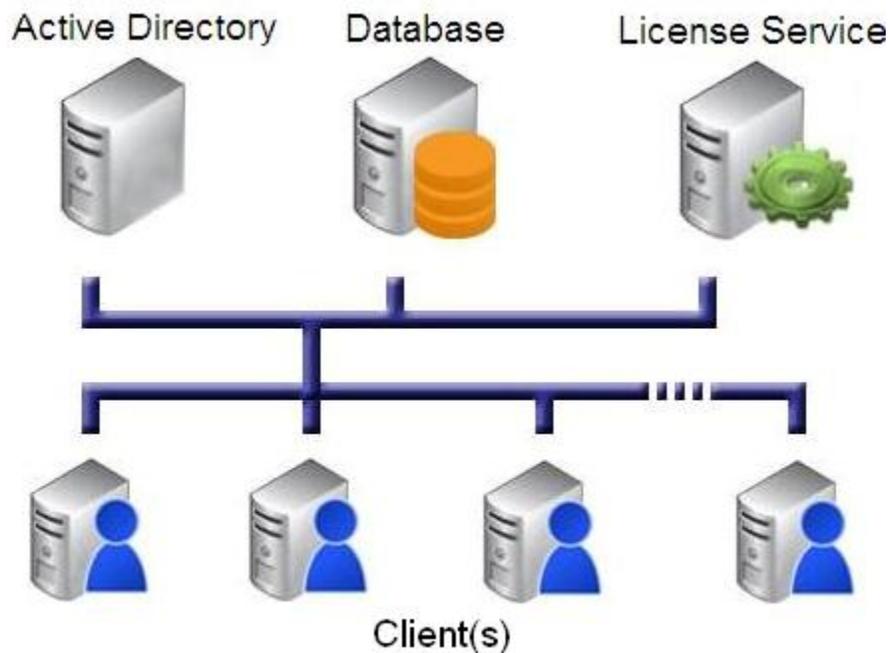
MediTutor™ is network based software where one database shared among many workstations.

MediTutor™ supports the operation of clinician workstation, user management using active directory, database and license service on separate machines.

Target customer(s)

Clinician workstation

Configuration



Computer requirements

Client Terminal

- OS – Windows 2000 32 bit, Windows XP-SP2 32bit or Windows 7 32 / 64 bit
- CPU – Intel Pentium 4, AMD, 1.7 GHz or above

-
- Video card – Support OpenGL 2.1, minimum of 128Mb of RAM, Minimum screen resolution 600x800
 - USB port – Two USB channels
 - Network card – 10/100

Database Server

- OS – Windows XP-SP2 32 bit, Windows Server 2003 32 bit or Windows Server 2008 64 bit
- DB – MS-SQL Server
- Network card – 10/100

Application Server (optional)

- OS – Windows XP-SP2 32 bit or Windows Server 2003 32 bit
- USB port – One USB channel for plug in a Security Key
- Network card – 10/100

Data Flows

Activities

Treatments

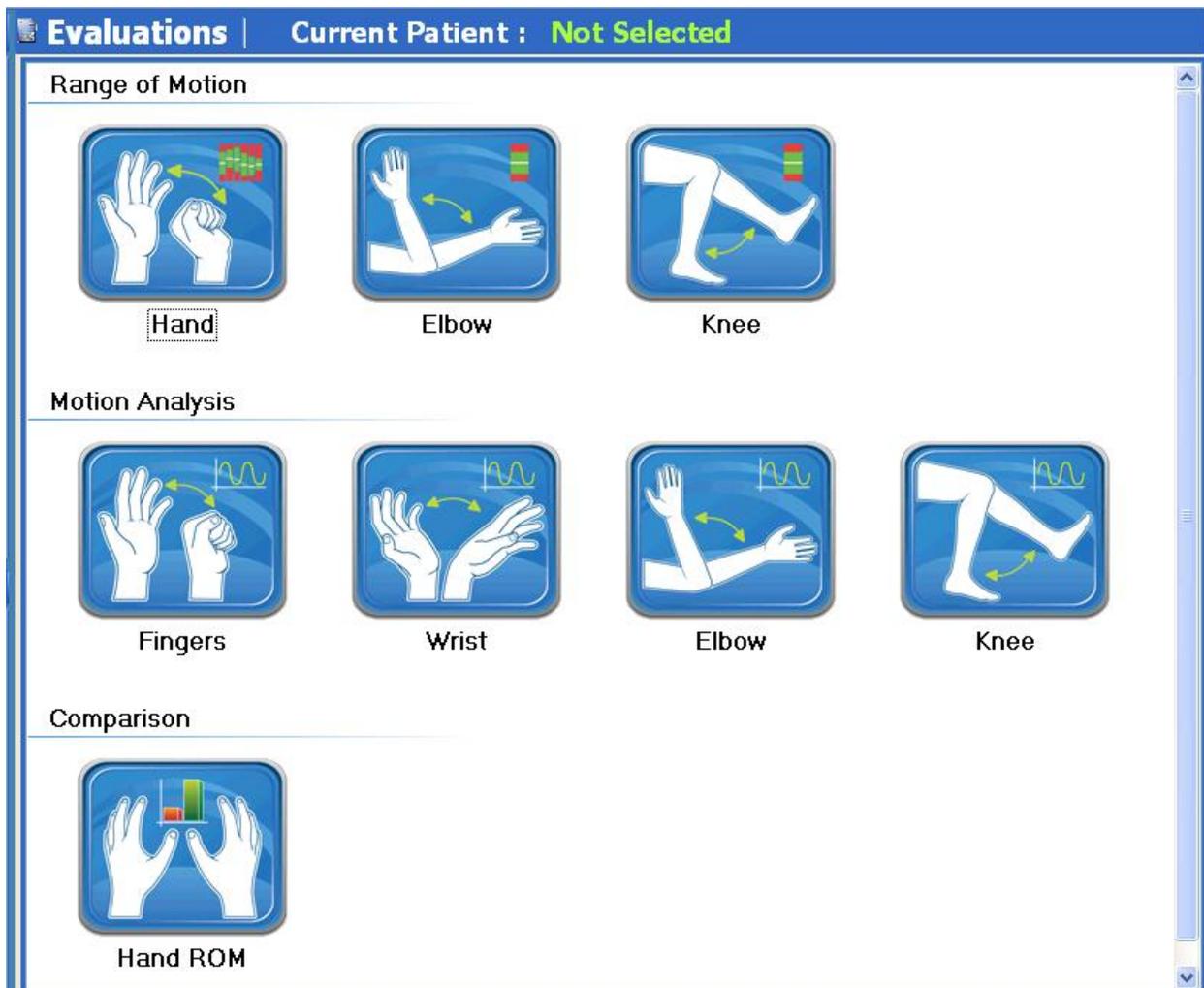
The MediTutor™ system is designed to allow the patient to undertake a wide variety of clinically developed task based exercises. The program to patient interface has been designed to keep the patient motivated during the exercise program. During and after the exercise the patient receives information on his training performance. This information is known as acknowledgement of performance and acknowledgement of results. The exercise tasks are professionally designed to keep the patient motivated during their rehabilitation program. In this section you can choose any treatment as appear in list. The treatments types are listed in **Using The System** section.



Evaluations

This section allows the evaluation of the patients biomechanical and kinematics' hand performance. Proper evaluation of these parameters allows the therapist to better understand the patient's hand impairment and customize a rehabilitation program that will lead to improvement in hand function.

In this section you can choose an evaluation as appear in list. The evaluations types are listed in **Using The System** section.



Reports

This section allows seeing list of evaluations reports per selected patient.

At the upper left side of the form you can filter evaluations reports by choosing evaluation type and side and then press on **Accumulated Report** button. In addition, you can delete specific report.

Reports Current Patient : Smith David			
Type	ALL Evaluations	Side	Both Sides
		Accumulated Report	Search Patient Delete Evaluation
Evaluations List			
Date	Side	Type	User
2011/10/31 12:56	Right	Knee ROM	admin
2011/10/31 13:25	Right	Elbow ROM	admin
2011/10/31 13:26	Right	Elbow ROM	admin
2011/10/31 13:27	Right	Elbow Motion Analysis	admin
2011/10/31 13:28	Right	Elbow Motion Analysis	admin
2011/11/17 10:03	Right	Finger Motion Analysis	admin
2011/11/17 10:04	Right	Finger Motion Analysis	admin
2011/11/17 10:05	Right	Finger Motion Analysis	admin

Management

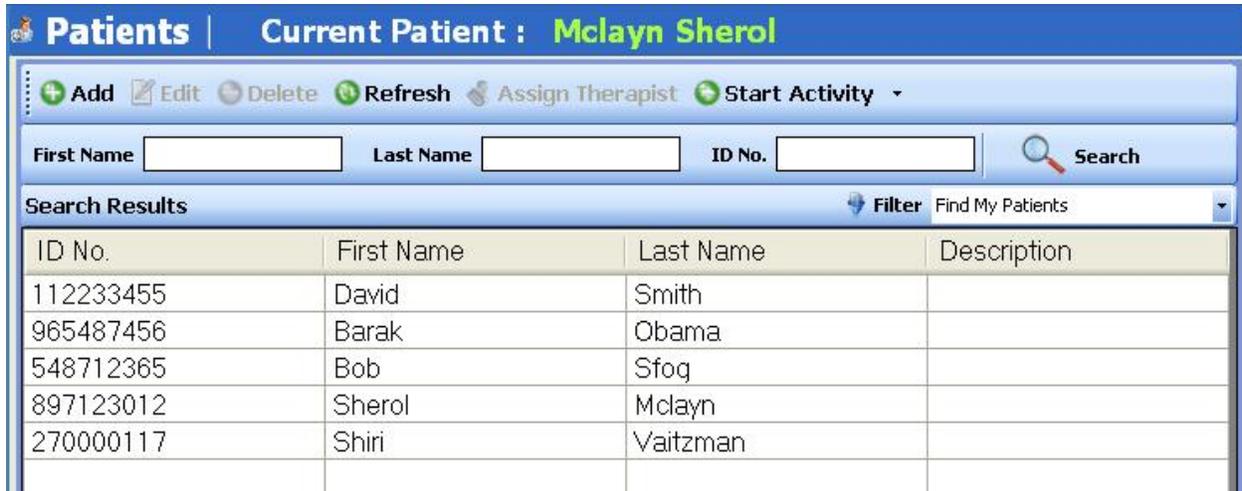
Users

This section details MediTutor™ functionality in terms of managing the users within the clinic. There are four users roles designed to allow therapists different clinic and patient management rights. In this section you can add new user, edit existing user and deactivate specific user. The user's roles and rights are listed in **Using The System** section.

Users Current Patient : Not Selected					
Add Edit					
Users Roles	Related Patient				
<ul style="list-style-type: none"> Users Roles Administrators Supervisors Therapists 	<table border="1"> <thead> <tr> <th>ID No.</th> <th>First</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	ID No.	First		
ID No.	First				

Patients

This section allows set up and storage of all patient details and allows the qualification of which therapist can evaluate and treat which patient within the clinic. In this section you can add, edit, delete or search a patient and assign therapist to him.



ID No.	First Name	Last Name	Description
112233455	David	Smith	
965487456	Barak	Obama	
548712365	Bob	Sfog	
897123012	Sherol	Mclayn	
270000117	Shiri	Vaitzman	

Settings

This section allows changing language appearance application, appearance style and review system information.

Settings | Current Patient : **Mclayn Sherol**

Appearance | System Information

Language Settings

Language
English (United States)

Performance UI Quality

Use high quality displayed objects in Treatments (In this mode the computer should have a powerful graphic card. If you are not sure about your graphic card leave this option unchecked.)

Appearance Style

Navigation Bar Style
Normal

Settings | Current Patient : **Not Selected**

Appearance | System Information

Device - Port 0



Hand Tutor - R

Built Version Number	00
Circuit Type	MBRD-001-A
Device Model	HT100
Device Name	Hand
Firmware Number	3.1.1.1.4
Firmware Type	BL-NO
Maximum Counts	6200

BootLoader Number
Gets the Bootloader number

Device - Port 1



Arm Tutor - R

BootLoader Number	1.2.8.7.4
Built Version Number	08
Circuit Type	PCB-20-02-01-A
Device Model	AT100
Device Name	Arm
Firmware Number	3.2.8.7.4
Firmware Type	BL-NO

BootLoader Number
Gets the Bootloader number

Database



Database Name	MediTutorDB
Database Version	25
IP Address	127.0.0.1
License Service Status	
Server Name	127.0.0.1
Service IP Address 1	127.0.0.1
Service IP Address 2	127.0.0.1
SQL Server Type	SQLite v.3.6.23.1

Database Name
The name of the database mdf file

User Access Levels

There are three users roles designed to allow therapists different clinic and patient management rights. The user role and rights are listed below:

Administrator

This role for the use of organization's system administrator only: it has all administrative rights including; user's management.



Supervisor

This role has supervisor rights including; therapists management.



Therapist

This role allows the following rights: Add new patient into data base, treat all therapists' patients and record evaluation data for their own patients. User's management is restricting.



SUPPORTED DEVICES

HandTutor Specifications

Product Labels

- Product name: HandTutor
- Model: HT100

Dimensions

- Size (length/width/height): 350[mm] x 120[mm] x 70[mm]
- Weight: 350[gr]

Sensor

-
- Technology: Ergonomic glove with sensitive electro optical position, speed wrist and finger movement sensors.
 - Sensitivity: 0.05[mm] of wrist and fingers Ext./Flex
 - Motion capture speed: up to 1[m/sec]

Functionality

- Size: 5 sizes 98% coverage of population
- Side: Left and Right
- Materials: Glove made from Neoprene and Spandex fabric on dorsal side of glove. Palm side of glove is not covered.
- Attachments: Velcro straps
- Infection control: Disposable liner

Communication

- Communication: USB1.1 cable
- Driver: Windows embedded HID driver

Power Supply

- Voltage: 5[V]
- Current supply: 300[mA]

Environmental conditions

- Usage temperature: +15⁰C to +30⁰C
- Storage temperature: -30⁰C to +70⁰C
- Relative humidity: 10% – 95%
- Atmospheric pressure: 500[hPa] – 1060[hPa]

Regulation

- The HandTutor has been tested according to standard IEC 60601-1 (1988) Second Edition + Am.1 + Am.2 and IEC 60601-1-2 (2001)
- Medical device according directive 93/42/EEC European Union
- CE and FDA approved

Manufacturer

- Company name: MediTouch Ltd.
- Address: 45 Hamelacha, Poleg industrial zone, Netanya, Israel.

Illustration

Upper view



Side view



Package

Internal content

- HandTutor – Left or Right ;1-5 sizes
- Nylon coverage to device
- 2 silica bags



Outside package

- L/W/H: 43 [cm]x22.5[cm]x12.5[cm]
- Weight: 1.8[kg]



Labeling

On USB cable

- Device S/N



On USB plug

- Device P/N and regulation



On case

- Regulation label



- Side/Size label (Available products: HandTutor left or right side, sizes 1-5)

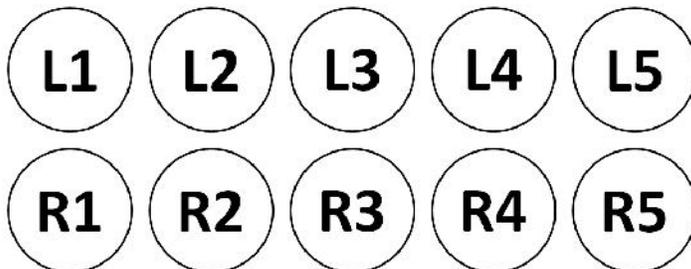


On carton

- Device S/N



- Device type (Available products: HandTutor left or right side, sizes 1-5)



ArmTutor Specifications

Product Labels

- Product name: ArmTutor
- Model: AT100

Dimensions

- Size (length/width/height): 350[mm] x 140[mm] x 60[mm]
- Weight: 400[gr]

Sensor

- Shoulder measurements: Abd/Add, Ext/Flex, Int/Ext rotation - Full range [degree]
- Elbow measurement: Ext/Flex – 0-120[degree]

Functionality

- Size: All sizes adjusted by two telescopes
- Side: Left and Right
- Dynamic range limiter: Ext and/or Flex of elbow
- Body attachment method: Velcro strips
- Infection control: Disposable sponge pads

Communication

- Communication: USB1.1 cable
- Driver: Windows embedded HID driver

Power Supply

- Voltage: 5[V] DC
- Rated current input: 100[mA].

Environmental conditions

- Usage temperature: +15⁰C to +30⁰C
- Storage temperature: -30⁰C to +70⁰C
- Relative humidity: 10% – 95%
- Atmospheric pressure: 500[hPa] – 1060[hPa]

Regulation

- The ArmTutor has been tested according to standard IEC 60601-1 (1988) Second Edition + Am.1 + Am.2 and IEC 60601-1-2 (2001)
- CE and FDA approved

Manufacturer

- Company name: MediTouch Ltd.

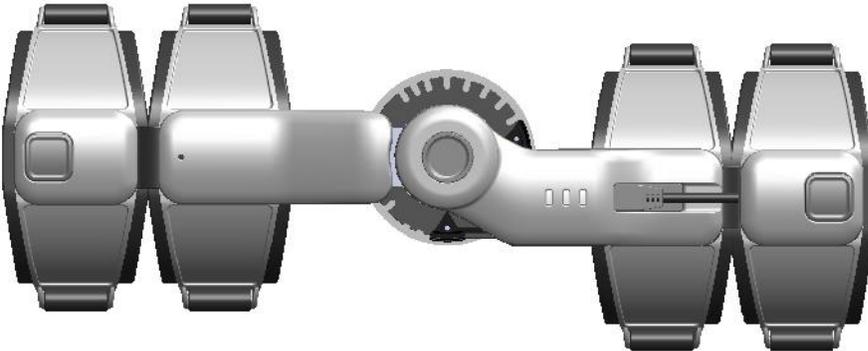
- Address: 45 Hamelacha, Poleg industrial zone, Netanya, Israel.

Illustration

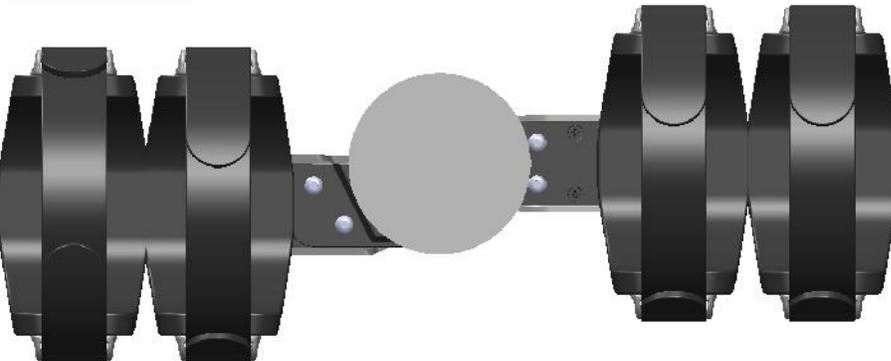
Isometric view



Outer Side view



Inner Side view



Package

Internal content

- ArmTutor – Left or Right
- MiniUSB 2m
- 2 pairs of body attached straps
- 2 silica bags



Outside package

- L/W/H: 42 [cm]x24.5[cm]x14.5[cm]
- Weight: 2[kg]



Labeling

On device

- Device S/N

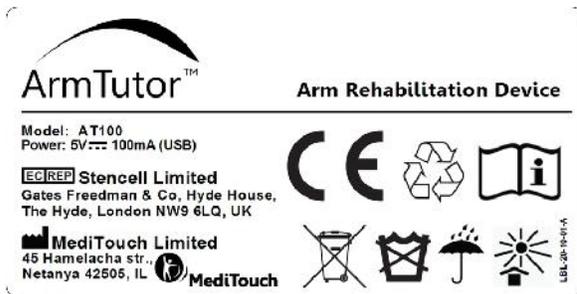


- Device P/N and regulation (Available products: ArmTutor right or left side)



On case

- Regulation label



- Side label (Available products: ArmTutor left or right side)

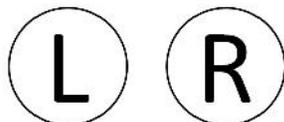


On carton

- Device S/N



- Device orientation (Available products: ArmTutor light or left side)



LegTutor Specifications

Product Labels

- Product name: LegTutor
- Model: LT100

Dimensions

- Size (length/width/height): 350[mm] x 140[mm] x 60[mm]
- Weight: 410[gr]

Sensor

- Hip measurements: Abd/Add, Ext/Flex, Int/Ext rotation - Full range [degree]
- Knee measurement: Ext/Flex – 0-120[degree]

Functionality

- Size: All sizes adjusted by two telescopes
- Side: Left and Right
- Dynamic range limiter: Ext and/or Flex of knee
- Body attachment method: Velcro strips
- Infection control: Disposable sponge pads

Communication

- Communication: USB1.1 cable
- Driver: Windows embedded HID driver

Power Supply

- Voltage: 5[V] DC
- Rated current input: 100[mA]

Environmental conditions

- Usage temperature: +15⁰C to +30⁰C
- Storage temperature: -30⁰C to +70⁰C

-
- Relative humidity: 10% – 95%
 - Atmospheric pressure: 500[hPa] – 1060[hPa]

Regulation

- The LegTutor has been tested according to standard IEC 60601-1 (1988) Second Edition + Am.1 + Am.2 and IEC 60601-1-2 (2001)
- CE and FDA approved

Manufacturer

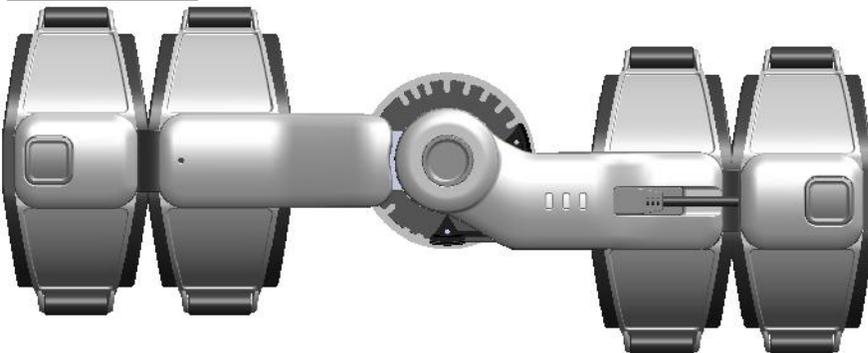
- Company name: MediTouch Ltd.
- Address: 45 Hamelacha, Poleg industrial zone, Netanya, Israel.

Illustration

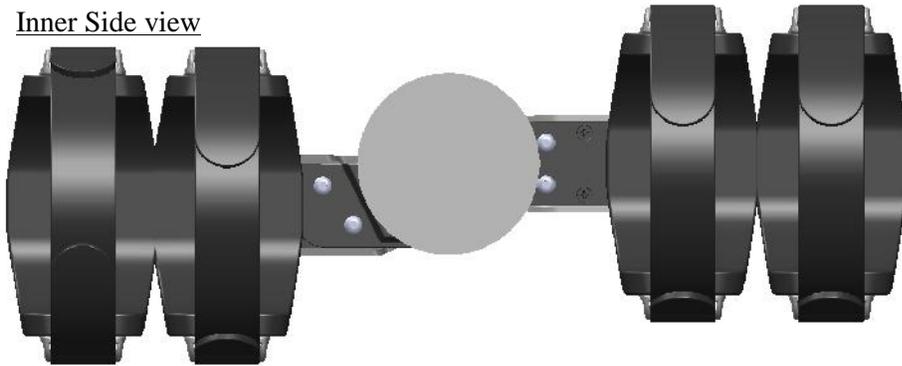
Isometric view



Outer Side view



Inner Side view



Package

Internal content

- LegTutor – Left or Right
- MiniUSB 2m
- 3 pairs of body attached straps
- 2 silica bags



Outside package

- L/W/H: 42 [cm]x29[cm]x17.5[cm]
- Weight: 2.5[kg]



Labeling

On device

- Device S/N



- Device P/N and regulation (Available products: LegTutor right or left side)

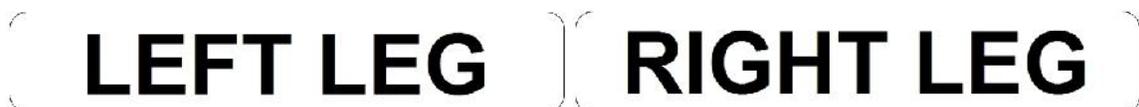


On case

- Regulation label



- Side label (Available products: LegTutor left or right side)

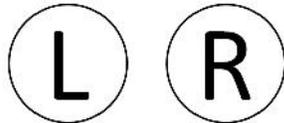


On carton

- Device S/N



- Device orientation (Available products: LegTutor light or left side)



3DTutor Specifications

Product Labels

- Product name: 3DTutor
- Model: 3DT100

Dimensions

- Size (length/width/height): 54[mm] x42[mm] x16[mm]
- Weight: 30[gr]

Sensor

- Measurements: Pitch, Roll, Yaw [degrees]

Communication

- Communication: Bluetooth radio (Class 1)
- Dongle: Supplied

Power Supply

- Autonomy of battery: up to 6[hours]
- Recharge time: up to 75[min]
- Recharge method: Connecting the module to PC using supplied USB cable

- Firmware updates method: Connecting the module to PC using supplied USB cable
- Battery type: 3.7[V] 650[mAh] LiPo
- Voltage input: 5[V] DC
- Rated current input: 400[mA] at charging mode

Environmental conditions

- Usage temperature: +15⁰C to +30⁰C
- Storage temperature: -30⁰C to +70⁰C
- Relative humidity: 10% – 95%
- Atmospheric pressure: 500[hPa] – 1060[hPa]

Functionality

- Body attachment method: Velcro straps
- Size: All sizes
- Side: Left and Right

Features

- On/Off power switch button
- 3D preset button
- Bluetooth sleep mode
- 2 colors led indicators;

Mode	Green Led	Red Led
Link	On	Off
No Link	Blink 0.3Hz	Off
Sleep	Blink 1Hz	Off
FW Update	Blink 3Hz	Off
Charging	Off	On

Regulation

- The 3DTutor has been tested according to standard IEC 60601-1 (1988) Second Edition + Am.1 + Am.2 and IEC 60601-1-2 (2001)
- CE and FDA approved
- FCC

Manufacturer

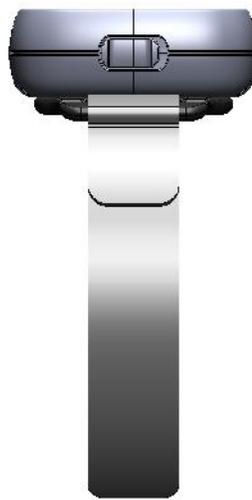
- Company name: MediTouch Ltd.
- Address: 45 Hamelacha, Poleg industrial zone, Netanya, Israel.

Illustration

Side view



Side view



Isometric view



Package

Internal content

- 3DTutor
- MicroUSB 1.2m
- Bluetooth dongle
- 5 body attached straps
- 2 silica bags



Outside package

- L/W/H: 28[cm]x22[cm]x19[cm]
- Weight: 1[kg]



Labeling

On device

- Device S/N

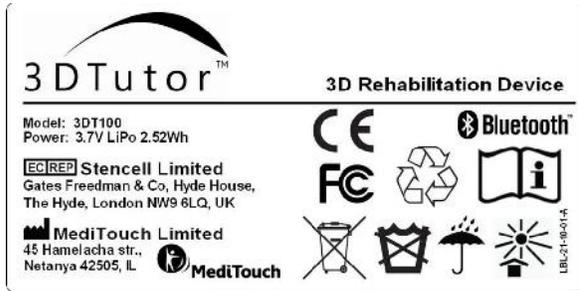


- Device P/N and regulation



On case

- Regulation label



On carton

- Device S/N

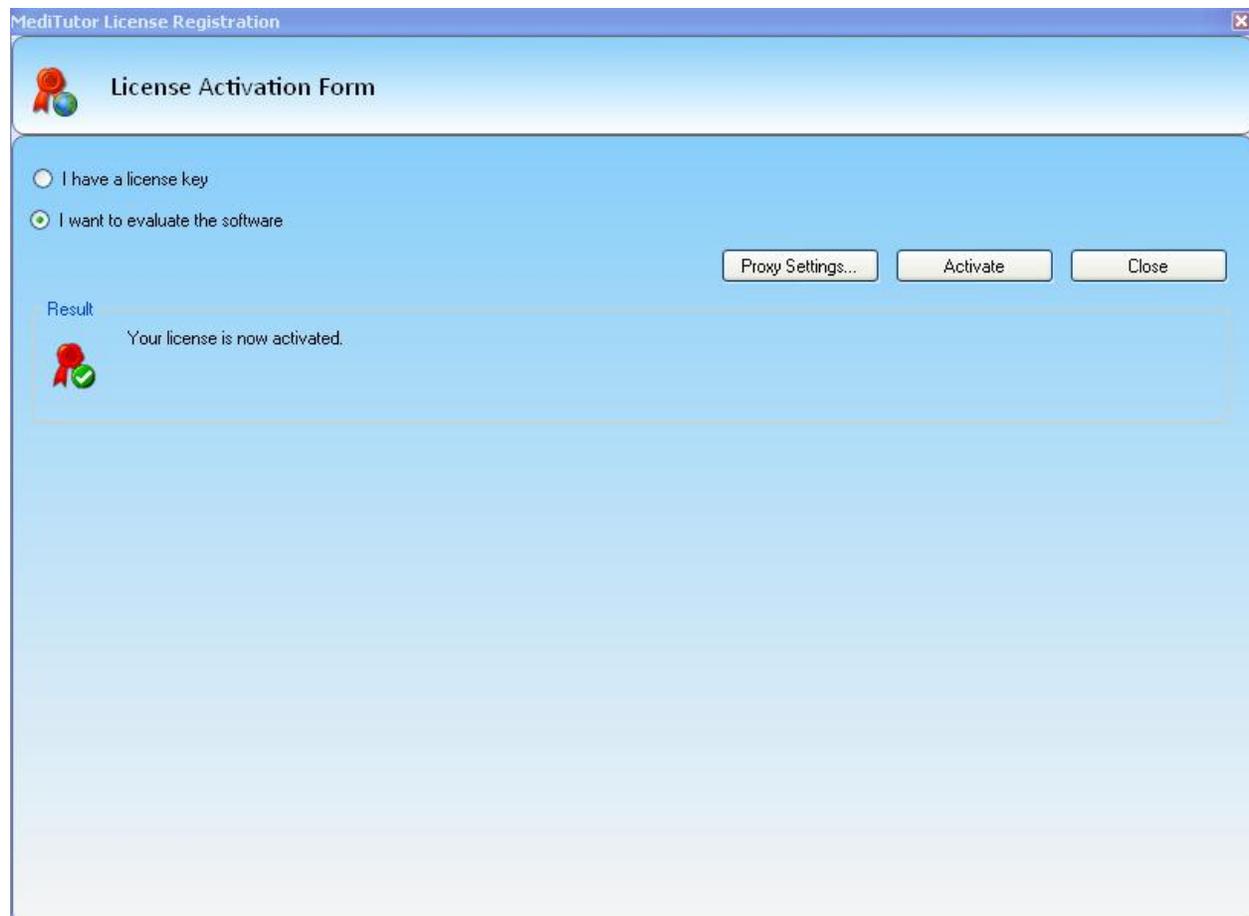


GETTING STARTED

How to activate 21 evaluation days

To activate MediTutor for first time follows next instructions:

- 1- Open **License Activation Form**
- 2- Choose **I want to evaluate the software** and press Activate
- 3- A message **your license is now activated** will appear
- 4- For **permanent license** email to info@mediTouch.co.il



How to Log In to MediTutor

To login to MediTutor follows next instructions:

- 1- Open **Login** screen
- 2- Insert User name: **admin** and Password: **admin**
- 3- Press **Enter**



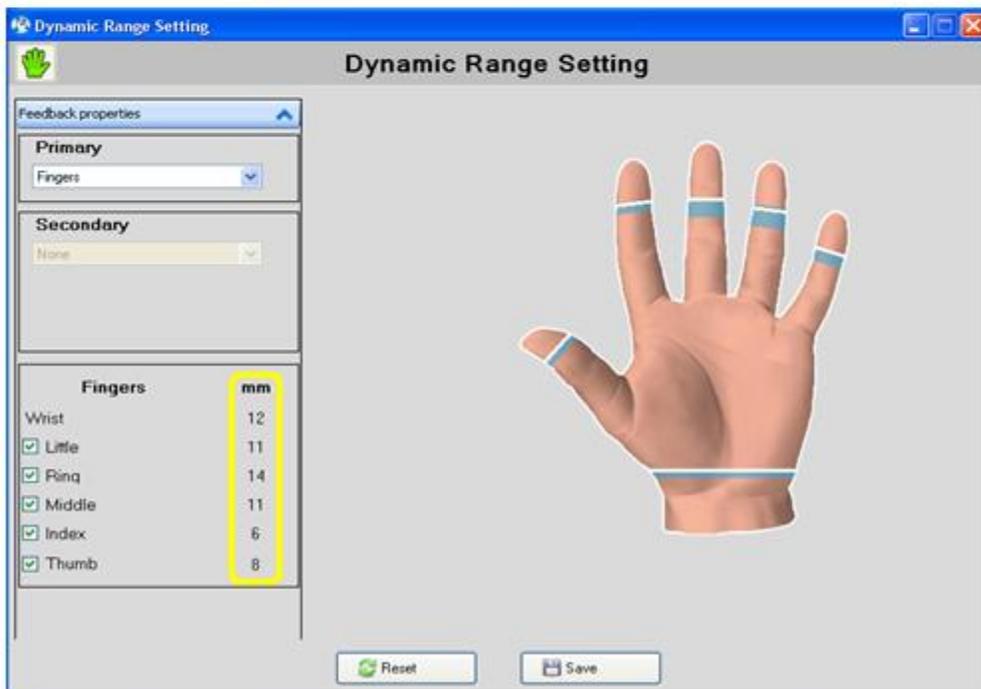
Main window will appear



How to check device operation

The device is calibrated to MediTutor™ software by means of passive or active flexion and extension for all limbs. To check device operation follows next instructions:

- 1- **Login** to MediTutor
- 2- **Connect** the MediTutor device into USB PC port
- 3- Verify **yellow** icon will appear on top
- 4- Displace the device to **calibrate**
- 5- Verify **green** icon will appear on top
- 6- Select a **patient** and load any **treatment**
- 7- A **Dynamic Range Setting** window will appear
- 8- Displace the device and verify **ROM** is recorded.



How to check expiry date license

To check expiry date license follows next instructions:

- 1- **Login** to MediTutor
- 2- Press on **Help**

- 3- Press on **About**
- 4- Check **Expiry Date**



USING THE SYSTEM

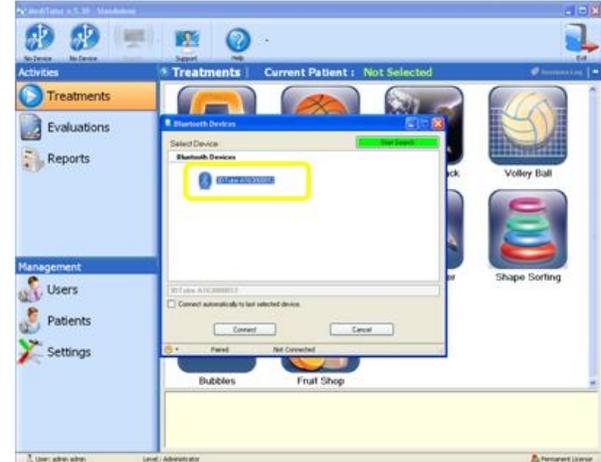
MediTutor Toolbar

This section describes what indicates connected device(s), calibrated device(s) and describes how to connect 3DT. In addition, The procedure for remote support and help file access and MediTutor activation is detailed.

Device connection

To indicate what device is connected and calibrated:

- 1- **Connect** MediTutor device: HandTutor / ArmTutor / LegTutor or 3D Tutor
- 2- Verify a related **image appears in yellow color**



- 3- In case using **HT or AT or LT** then **calibrate** it.
In case using **3DT** then presses **connect**.
- 4- Verify **image color** changes to **green**



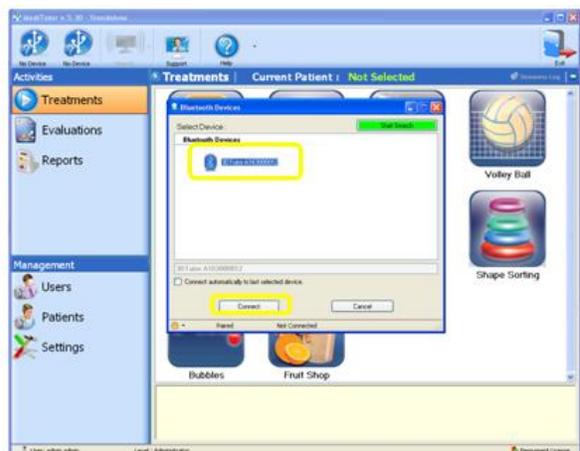
Note: MediTutor allow the connection of a maximum of two concurrent devices

Search / New search

Use 3D Tutor

To use 3DT device follow the below next instructions:

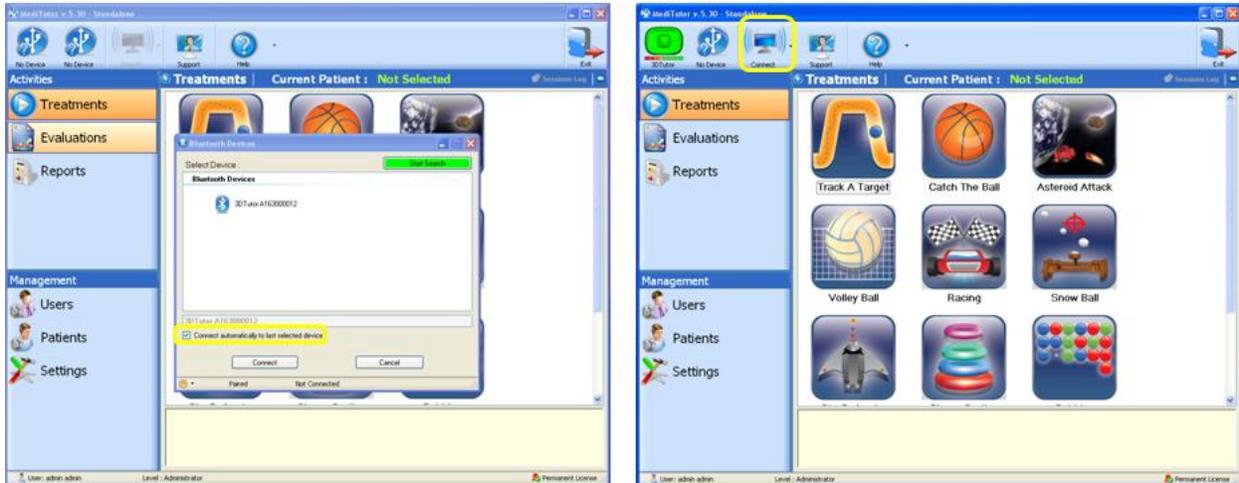
- 1- **Connect Bluetooth dongle**  into USB port. Instead of dongle, you may use the built-in Bluetooth, if exist.
- 2- **Turn on 3D Tutor** 
- 3- Press on **Search**
- 4- **Choose** your 3DT
- 5- Press **Connect** and **OK**



Connect automatically

In order to connect automatically follow the below instructions:

- 1- **Turn on 3D Tutor** 
- 2- Press on **Search**
- 3- **Choose** your 3DT
- 4- Check **Connect automatically to last selected device**
- 5- Press **Connect** and **OK**



- 6- Logout and **relogin** to MediTutor.
- 7- **Turn on 3D Tutor**
- 8- Press **Connect**

New search

In order to connect new 3DT device follows next instructions:

- 1- Press on the small arrow next to **Search** button
- 2- Press on **New Search**
- 3- A warning message will appear. Press **Yes**
- 4- Choose the **new 3DT**
- 5- Press **Connect** and **OK**



Support

To get remote support from MediTouch Support follows next instructions:

- 1- Press on **Support**
- 2- If security running will appear press **Run**
- 3- Supply the **ID** and **Password** to MediTouch team support



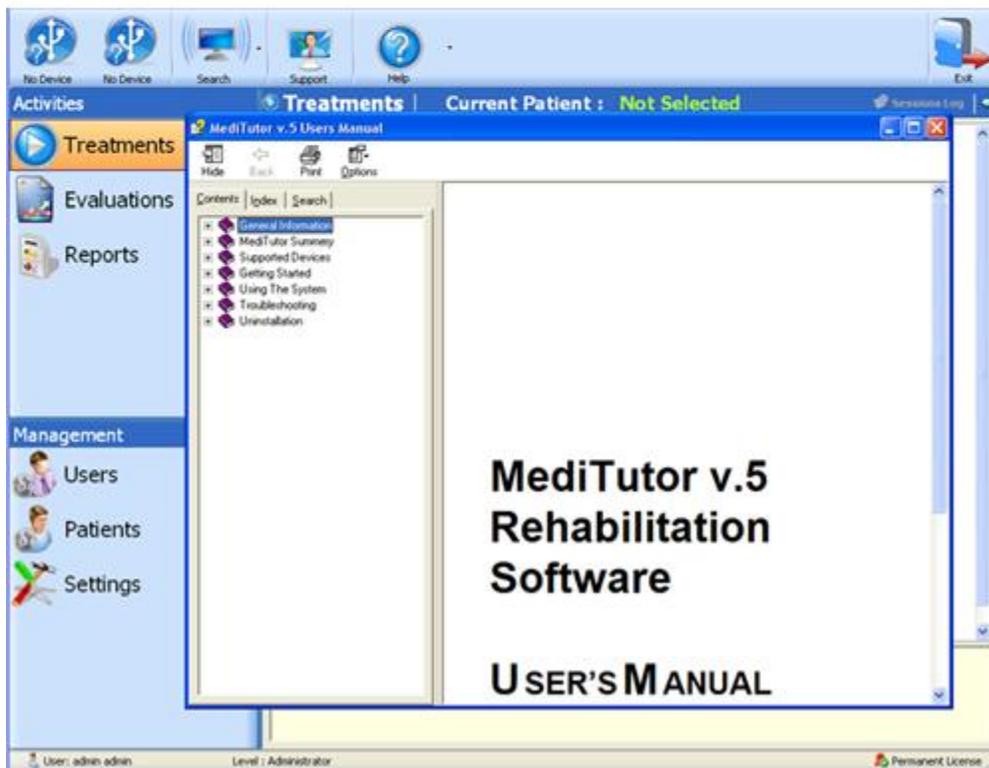


Help

User manual

To open **user manual** follow the below:

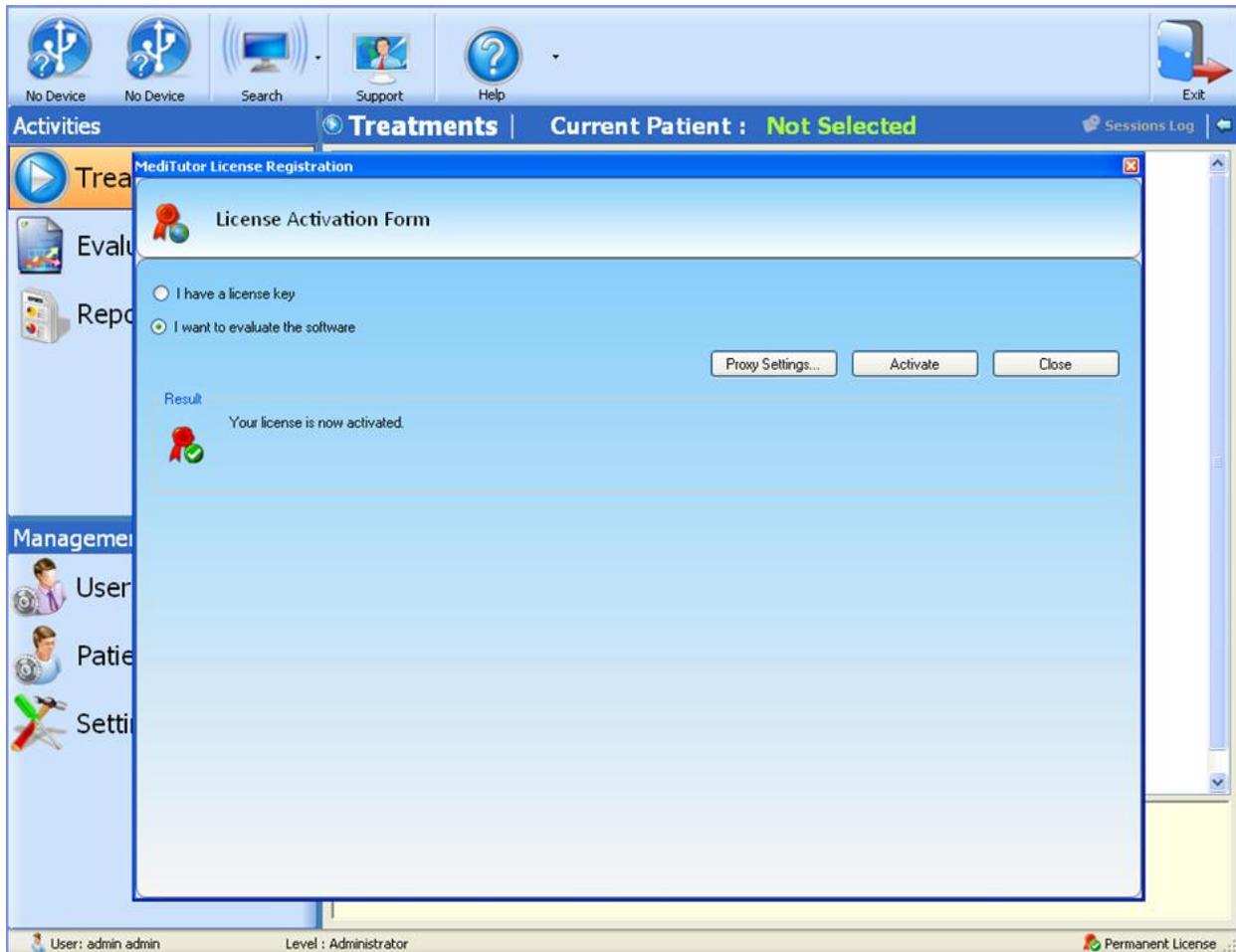
- 1- Press on the small arrow next to **Help** button
- 2- Press on **user manual**



License Activation

To open **License Activation** form follow the bellow instructions:

- 1- Press on the small arrow next to **Help** button
- 2- Press on **License Activation**

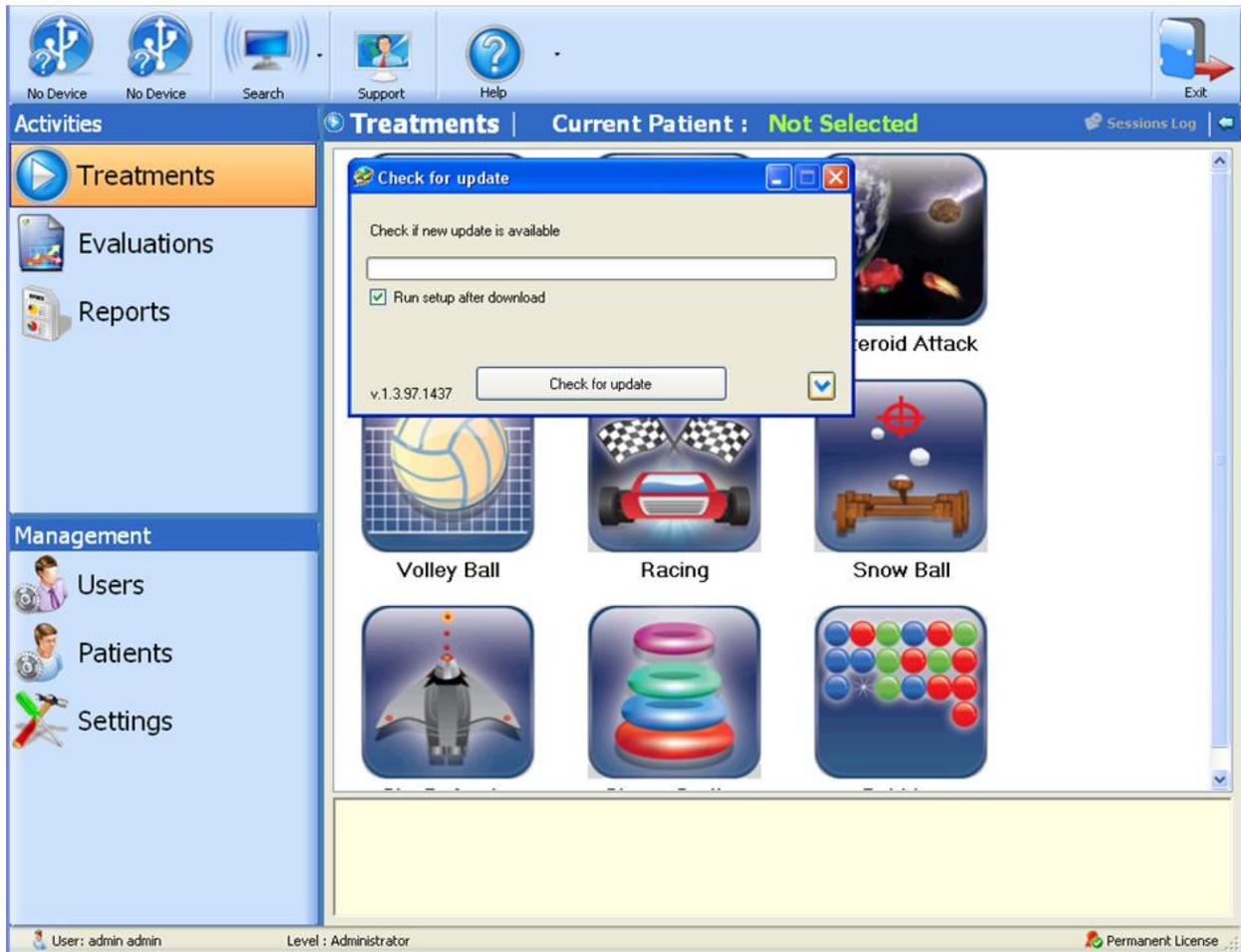


Check for Updates

To **Check for Updates** follow the bellow instructions:

- 1- Press on the small arrow next to **Help** button
- 2- Press on **Check for Updates**
- 3- Check **Run setup after download**

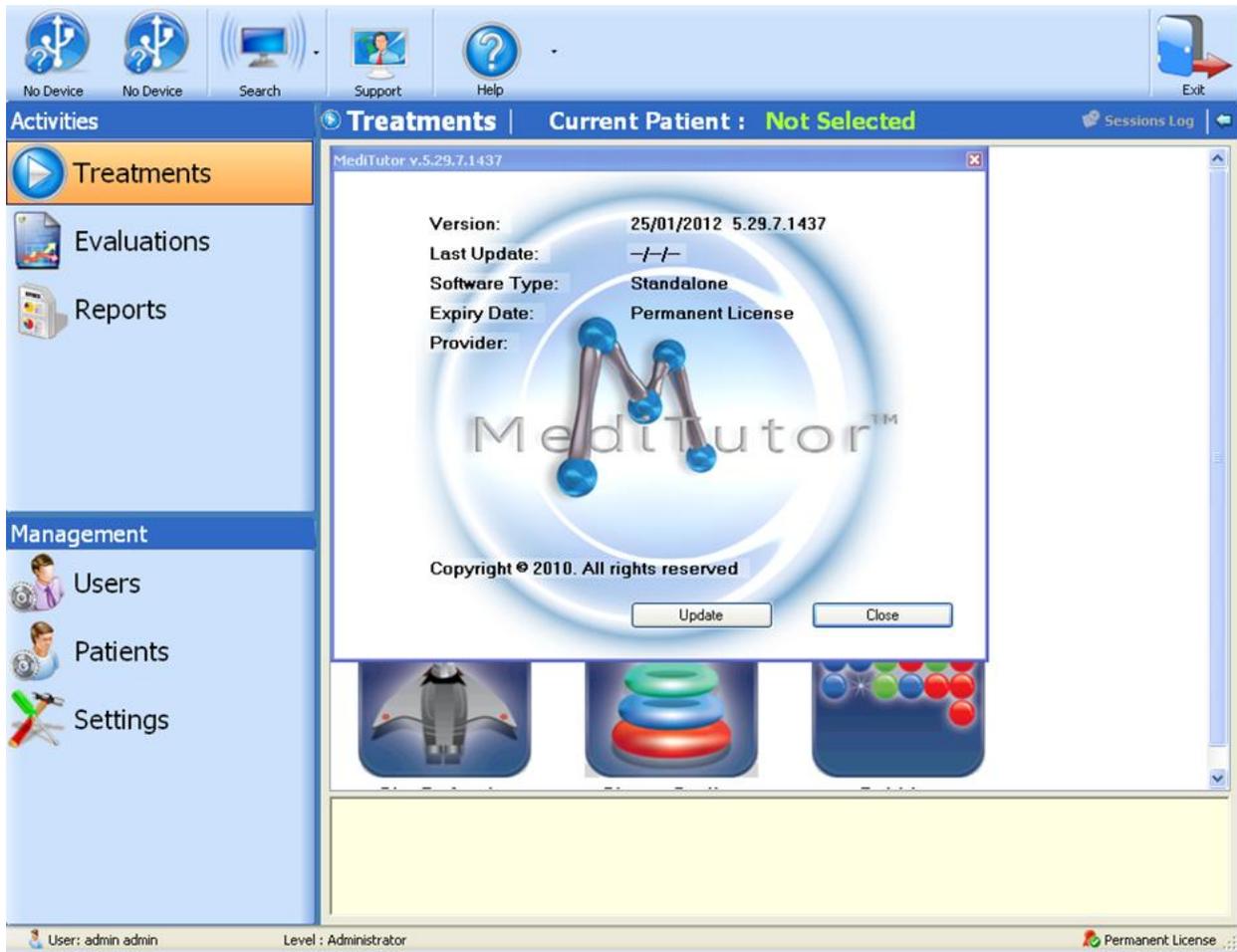
4- Press **Check for Update**



About

To open **About** form and see details of the software version follow the below instructions:

- 1- Press on the small arrow next to **Help** button
- 2- Press on **About**



Management - Users

This section details the management rights of the therapists within the clinic and describes how to add new user, edit existing user and deactivate specific user.

Add user account

To add new user details of the software version follow the below instructions:

- 1- Go to **Users**
- 2- Press **Add**
- 3- Fill **all details**
- 4- Press **Apply**; Save message will appear

HandTutor - L No Device Search Support Help Exit

Users Current Patient : **Smith David**

Activities

- Treatments
- Evaluations
- Reports

Management

- Users**
- Patients
- Settings

Add User

User Details

- User Name: Barak
- Password: ****
- First Name: Barak
- Last Name: Obama
- ID No.: 369852147
- Phone No.: +97254555555
- Position: Administrator
- Role: Administrator

Description

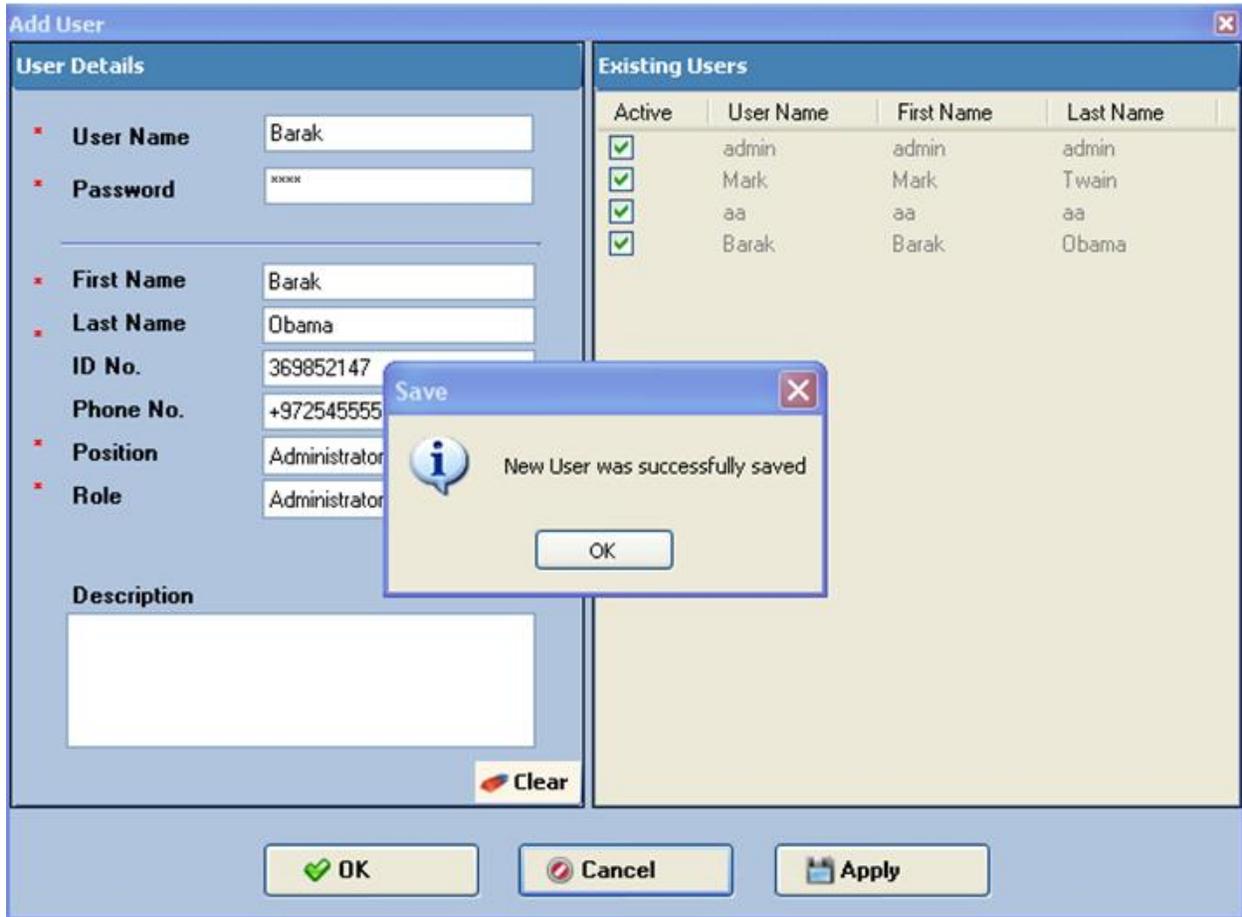
Existing Users

Active	User Name	First Name	Last Name
<input checked="" type="checkbox"/>	admin	admin	admin
<input checked="" type="checkbox"/>	Mark	Mark	Twain
<input checked="" type="checkbox"/>	aa	aa	aa

Clear

OK Cancel Apply

User: admin admin Level: Administrator



Edit user account

To edit a user follow the below instructions:

- 1- Press **Edit**
- 2- Choose **user** from existing users
- 3- Change **any details**
- 4- Press **Apply**; Information message will appear

HandTutor - L No Device Search Support Help Exit

Users | Current Patient : **Smith David**

Activities

- Treatments
- Evaluations
- Reports

Management

- Users**
- Patients
- Settings

Edit User

User Details

- User Name: Barak
- Password: ****
- First Name: Barak
- Last Name: Obama
- ID No.: 369852147
- Phone No.: +97254555555
- Position: Administrator
- Role: Administrator

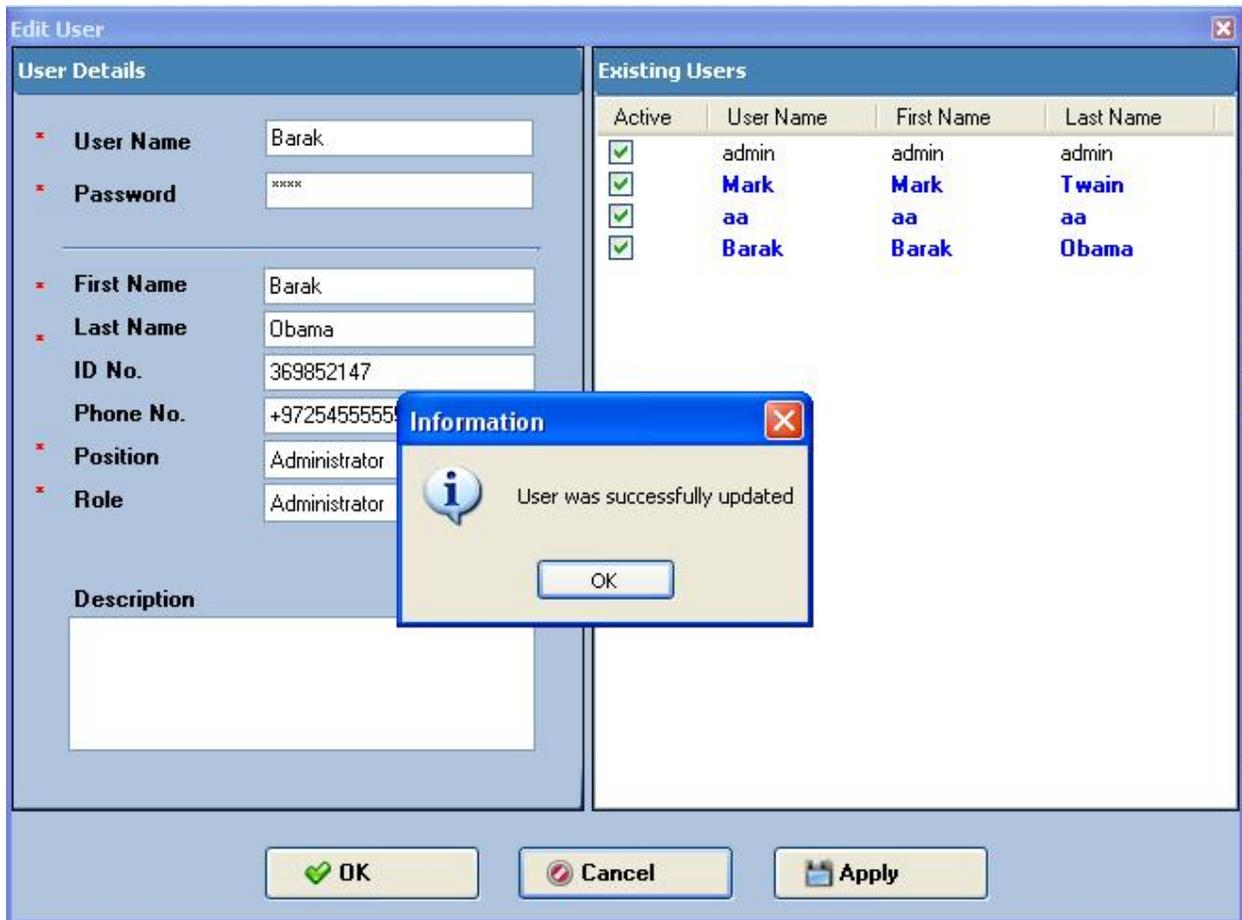
Description

Existing Users

Active	User Name	First Name	Last Name
<input checked="" type="checkbox"/>	admin	admin	admin
<input checked="" type="checkbox"/>	Mark	Mark	Twain
<input checked="" type="checkbox"/>	aa	aa	aa
<input checked="" type="checkbox"/>	Barak	Barak	Obama

OK Cancel Apply

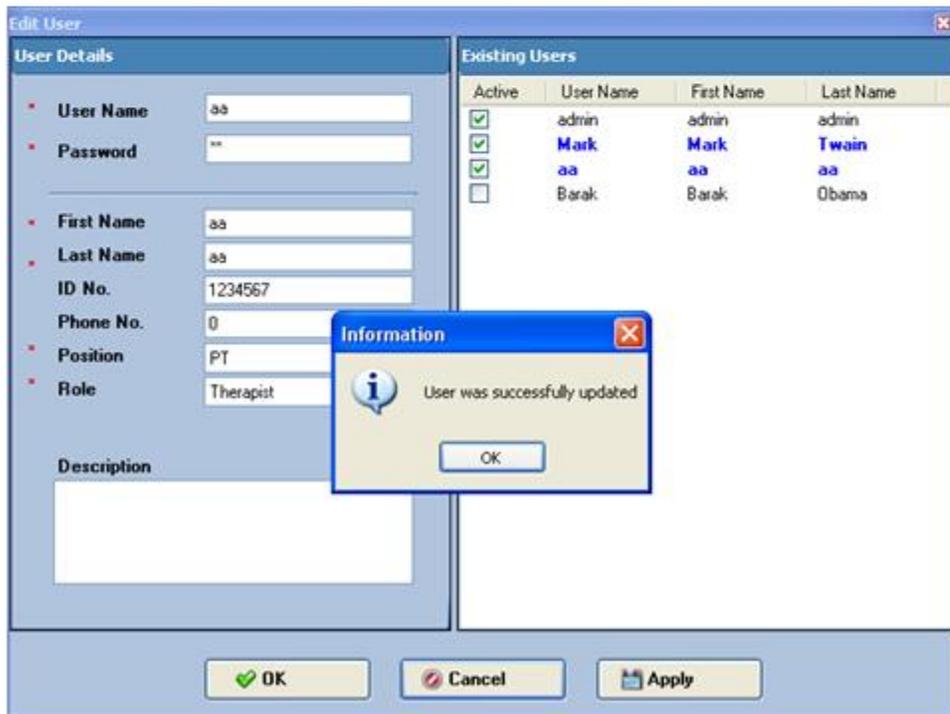
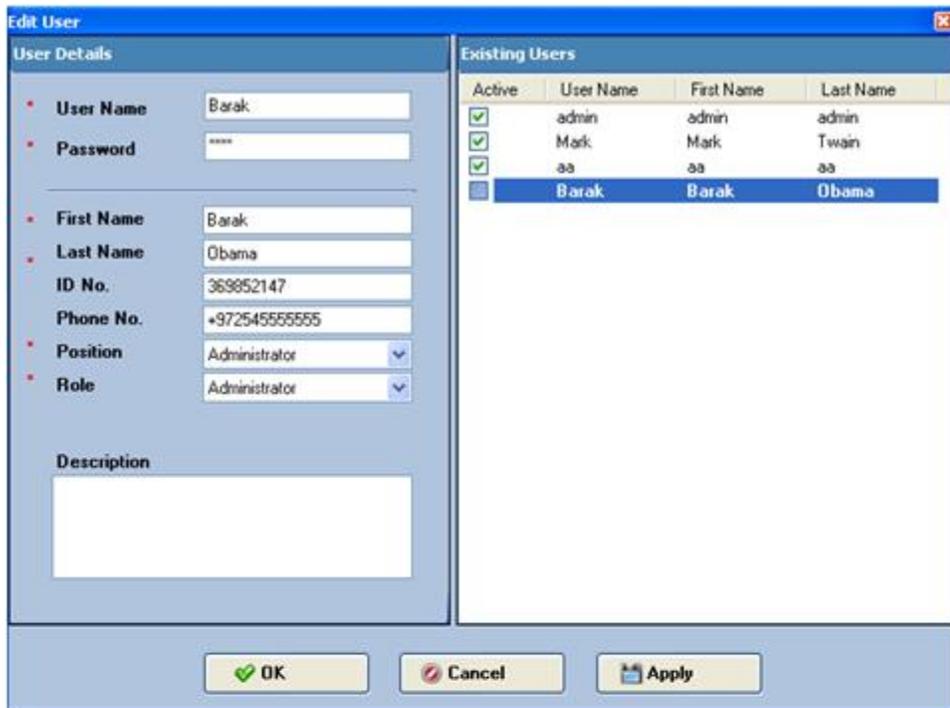
User: admin admin Level: Administrator



Active / Inactive user account

To active or deactivate a user follow the below instructions:

- 1- Press **Edit**
- 2- Choose **user**
- 3- Go to **Active** column and uncheck to deactivate the user
- 4- Press **Apply**; Information message will appear



Show records in Grid or Tree mode

To show user records follow the below instructions:

- 1- Press Show **T**ree for tree view
- 2- Press Show **G**rid for grid view

The screenshot shows the 'Users' interface with the 'Current Patient : Not Selected' header. Below the header are 'Add' and 'Edit' buttons. The main area is divided into two panes. The left pane, titled 'Users Roles', shows a tree view with 'Users Roles' expanded to show 'Administrators', 'Supervisors', and 'Therapists'. The right pane, titled 'Related Patient', contains a table with the following data:

ID No.	First
112233455	Davi
965487456	Bara
548712365	Bob
897123012	She
270000117	Shir

The screenshot shows the 'Users' interface with the 'Current Patient : Not Selected' header. Below the header are 'Add' and 'Edit' buttons. The main area is divided into two panes. The left pane, titled 'Users Roles', shows a grid view of users with the following data:

ID No.	First Name	Last Name	Po
N/A	admin	admin	Ac
025896485	Mark	Twain	Ac

The right pane, titled 'Related Patient', contains a table with the same data as in the first screenshot:

ID No.	First
112233455	Davi
965487456	Bara
548712365	Bob
897123012	She
270000117	Shir

Management – Patients

This section allows setting up and storage of all patient and allows the qualification of which therapist can evaluate and treat which patient within the clinic.

Add patient

To add new patient follows next instructions:

- 1- Go to **Patients**
- 2- Press **Add**
- 3- Fill **all details**
- 4- Press **Apply**; Information message will appear

The screenshot displays the 'Patients' management interface. The top navigation bar includes icons for 'ArmTutor - R', 'HandTutor - R', 'Search', 'Support', 'Help', and 'Exit'. The main window is titled 'Patients' and shows 'Current Patient : Not Selected'. A sidebar on the left contains 'Activities' (Treatments, Evaluations, Reports) and 'Management' (Users, Patients, Settings). The 'Patients' section is active, showing a search bar and a table of search results. An 'Add Patient' dialog box is open, containing the following fields:

First Name	Zull	Address	120 King St
Last Name	Vern	Phone No.	03-9639633
ID No.	963258741	Date of Birth	01/07/1950
Diagnosis	DCD	Description	
Gender	Male		

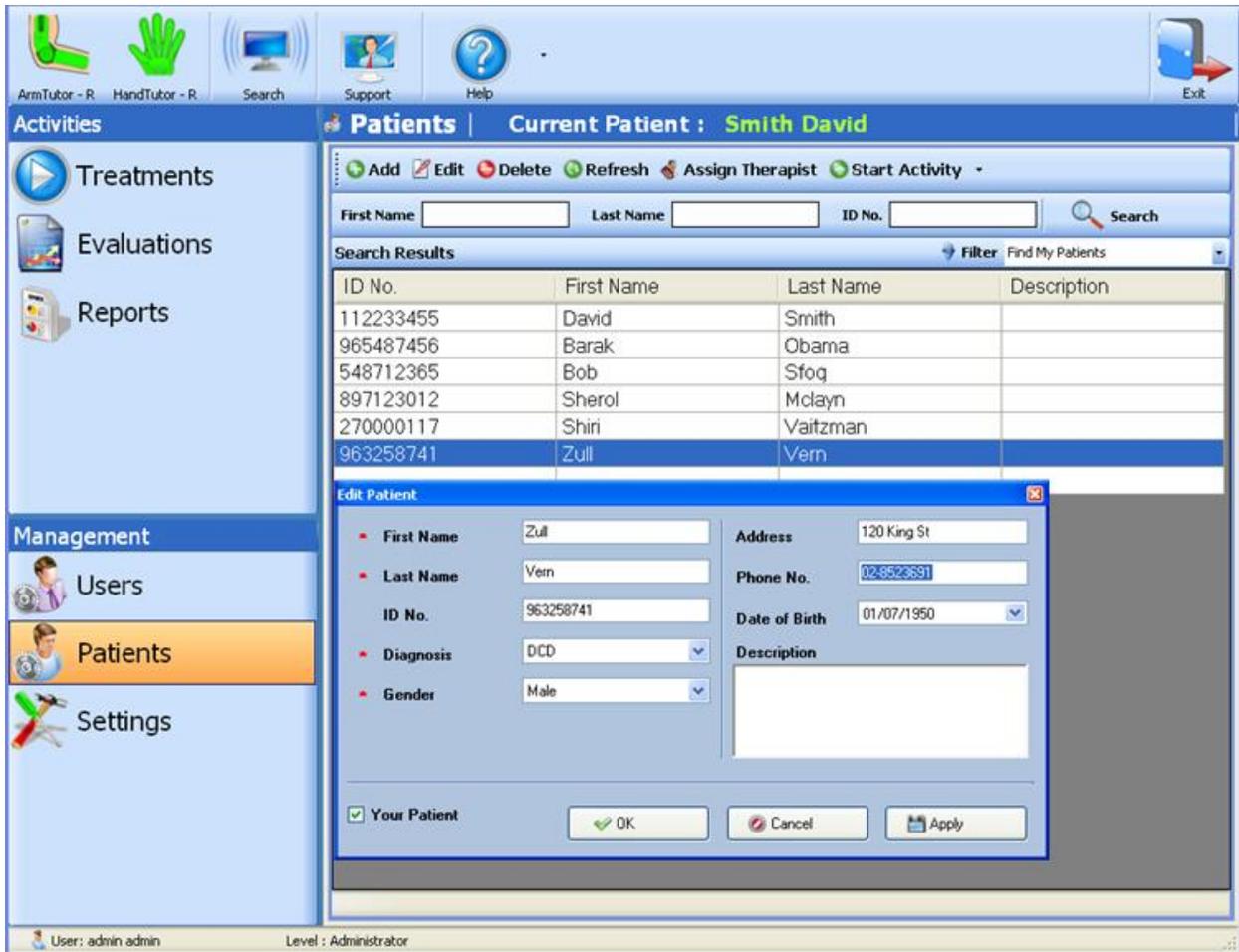
Buttons at the bottom of the dialog include 'Clear', 'OK', 'Cancel', and 'Apply'. The status bar at the bottom indicates 'User: admin.admin' and 'Level: Administrator'.



Edit patient

To edit a patient follow the below instructions:

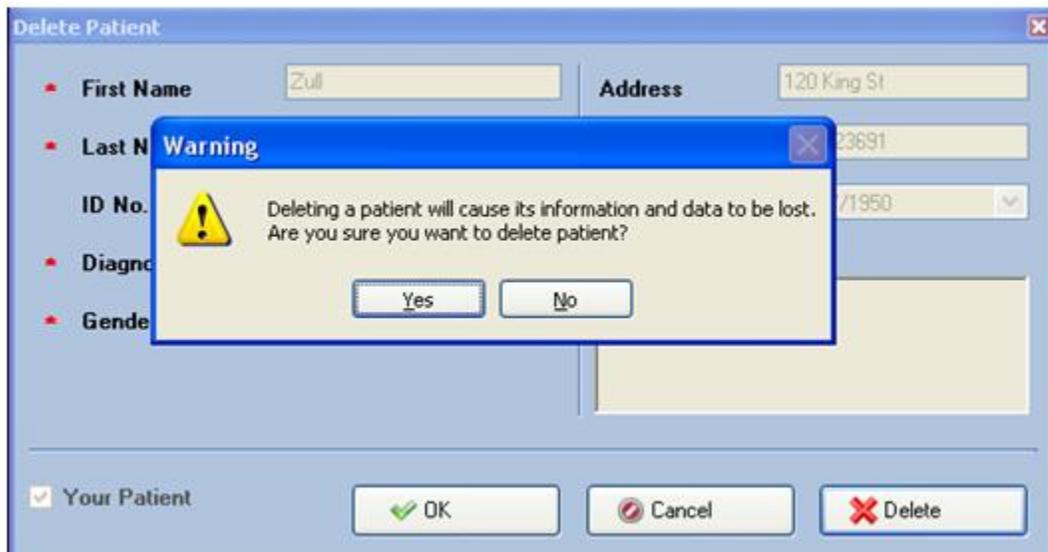
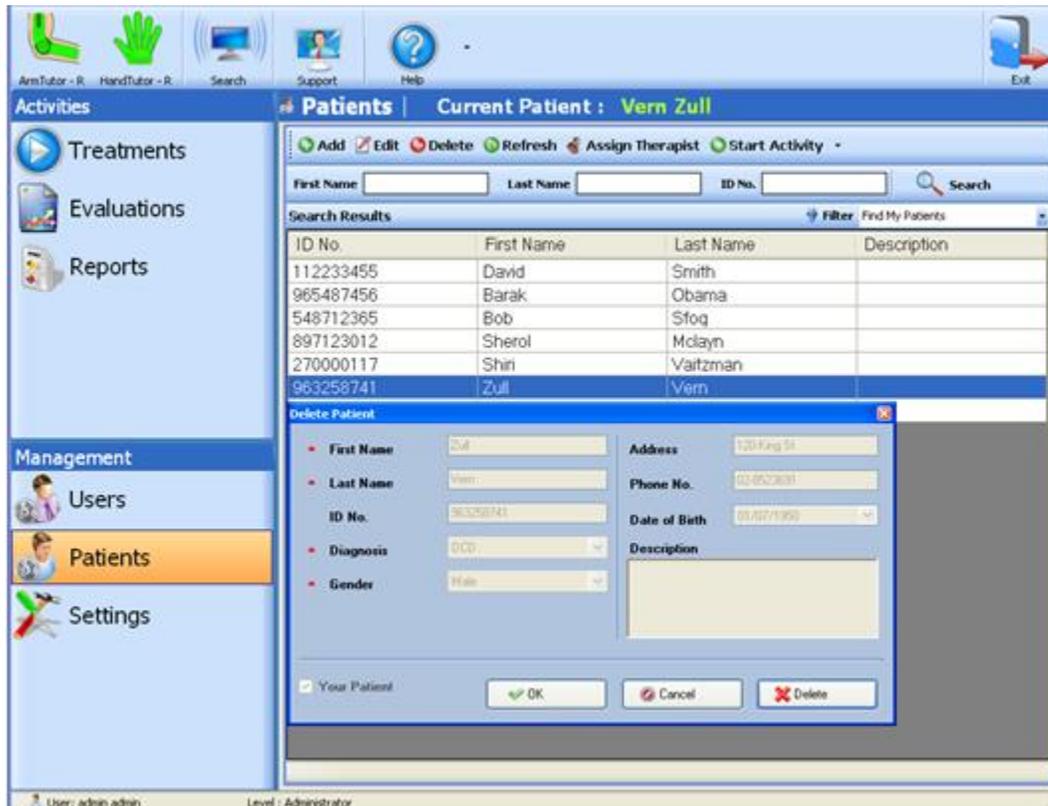
- 1- Choose **patient** from list
- 2- Press **Edit**
- 3- Change **any details**
- 4- Press **Apply**; Information message will appear



Delete patient

To delete patient follow the below instructions:

- 1- Choose **patient** from list
- 2- Press **Delete**
- 3- **Delete Patient** screen will appear; press **Delete**
- 4- Warning message will appear; press **Yes**



Assign Therapist

To assign therapist to patient follow the below instructions:

- 1- Choose **patient** from list
- 2- Press **Assign Therapist**
- 3- Check **Assign** from user list
- 4- Press **Apply**

The screenshot shows the software interface with the following components:

- Top Bar:** Icons for ArmTutor - R, HandTutor - R, Search, Support, Help, and Exit.
- Left Navigation Panel:** Activities (Treatments, Evaluations, Reports) and Management (Users, Patients, Settings).
- Main Window:** Patients | Current Patient : Not Selected. Search filters for First Name, Last Name, and ID No. Search Results table with columns: ID No., First Name, Last Name, Description.
- Assign Therapist Dialog:** Patient Name: David Smith. Users List table with columns: Checked, ID No., First Name, Last Name, Position, Level.

ID No.	First Name	Last Name	Description
112233455	David	Smith	
005103450			

Checked	ID No.	First Name	Last Name	Position	Level
<input type="checkbox"/>	00000000	admin	admin	Administrator	Administrator
<input checked="" type="checkbox"/>	025896485	Mark	Twain	Administrator	Therapist

Select Patient and Start Activity

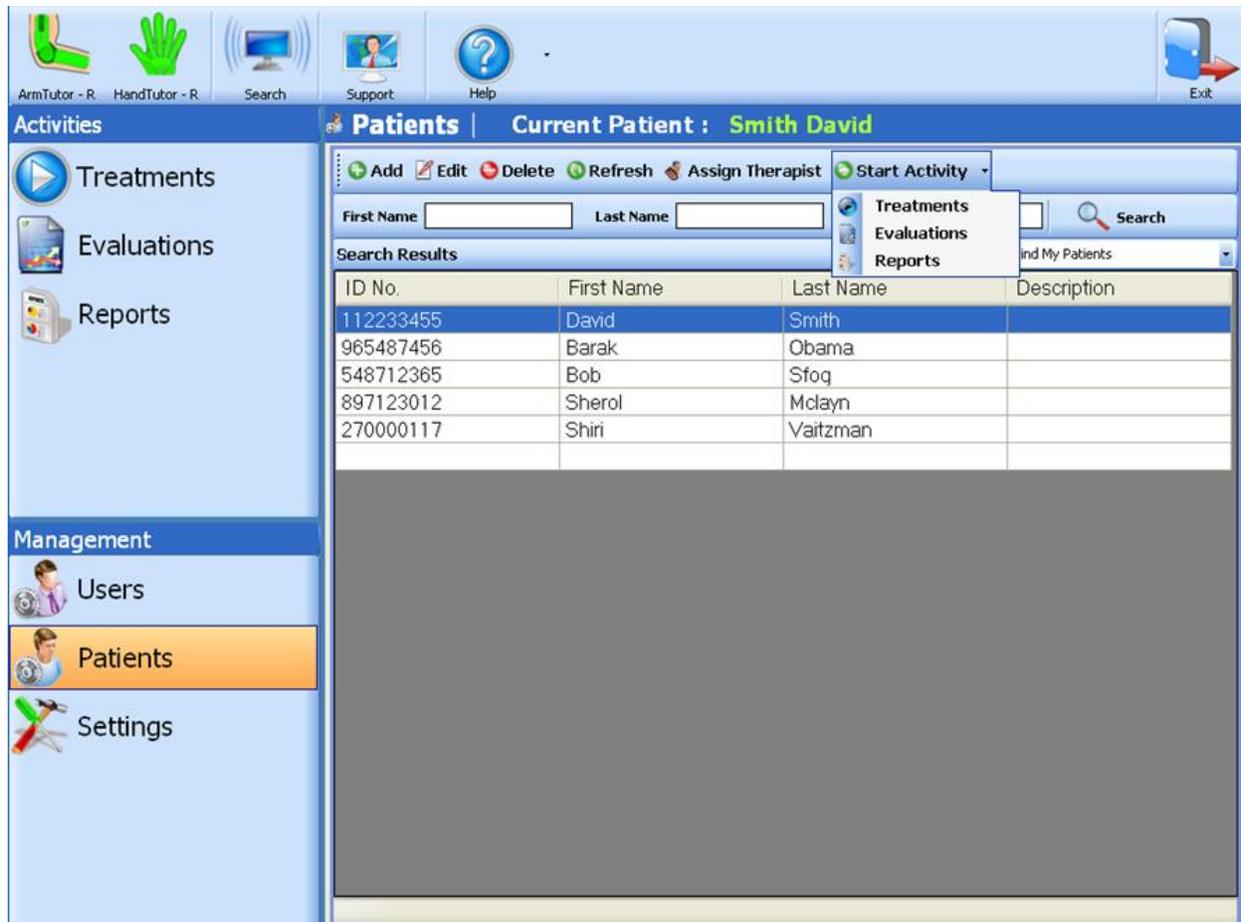
To select a patient follow the below instructions:

- 1- Choose **patient** from list and press Enter
- 2- Press **Yes**
- 3- **Current Patient** will display the user name
- 4- Press **Start Activity** to choose from menu

The screenshot displays a software interface with a top navigation bar containing icons for 'ArmTutor - R', 'HandTutor - R', 'Search', 'Support', 'Help', and 'Exit'. Below this is a main header with 'Activities' and 'Patients | Current Patient : Not Selected'. The 'Patients' section includes a toolbar with 'Add', 'Edit', 'Delete', 'Refresh', 'Assign Therapist', and 'Start Activity'. Search fields for 'First Name', 'Last Name', and 'ID No.' are present, along with a 'Search' button. A 'Search Results' table is shown with columns for 'ID No.', 'First Name', 'Last Name', and 'Description'. The table contains the following data:

ID No.	First Name	Last Name	Description
112233455	David	Smith	
965487456	Barak	Obama	
548712365	Bob	Sfoq	
897123012	Sherol	Mclayn	
2		Vaitzman	

A 'Warning' dialog box is overlaid on the table, containing a yellow warning icon and the text: 'New Patient has been selected. Do you want to set Smith David as the active patient?'. The dialog has three buttons: 'Yes', 'No', and 'Cancel'. The 'Patients' menu item in the left sidebar is highlighted in orange. The bottom status bar shows 'User: admin admin' and 'Level: Administrator'.



Search and Filter patient

To search a patient or find quickly follow the below instructions:

- 1- Go to **Patients**
- 2- Insert into **First Name** or **Last Name** or **ID No.** some value
- 3- **Results** will appear in table

Patients | Current Patient : **Smith David**

Add
 Edit
 Delete
 Refresh
 Assign Therapist
 Start Activity

First Name
 Last Name
 ID No.

Search Results
 Filter Find My Patients

ID No.	First Name	Last Name	Description
965487456	Barak	Obama	
548712365	Bob	Sfog	

- 4- Press on **Filter** and choose **My Patients** or **All Patients**
- 5- **Results** will appear in table

Patients | Current Patient : **Smith David**

Add
 Edit
 Delete
 Refresh
 Assign Therapist
 Start Activity

First Name
 Last Name
 ID No.

Search Results
 Filter **Find My Patients**

ID No.	First Name	Last Name	Find My Patients Find All Patients
112233455	David	Smith	
965487456	Barak	Obama	
548712365	Bob	Sfog	
897123012	Sherol	Mclayn	
270000117	Shiri	Vaitzman	

Management – Settings

This section allows the user to change language, appearance style and watch system information.

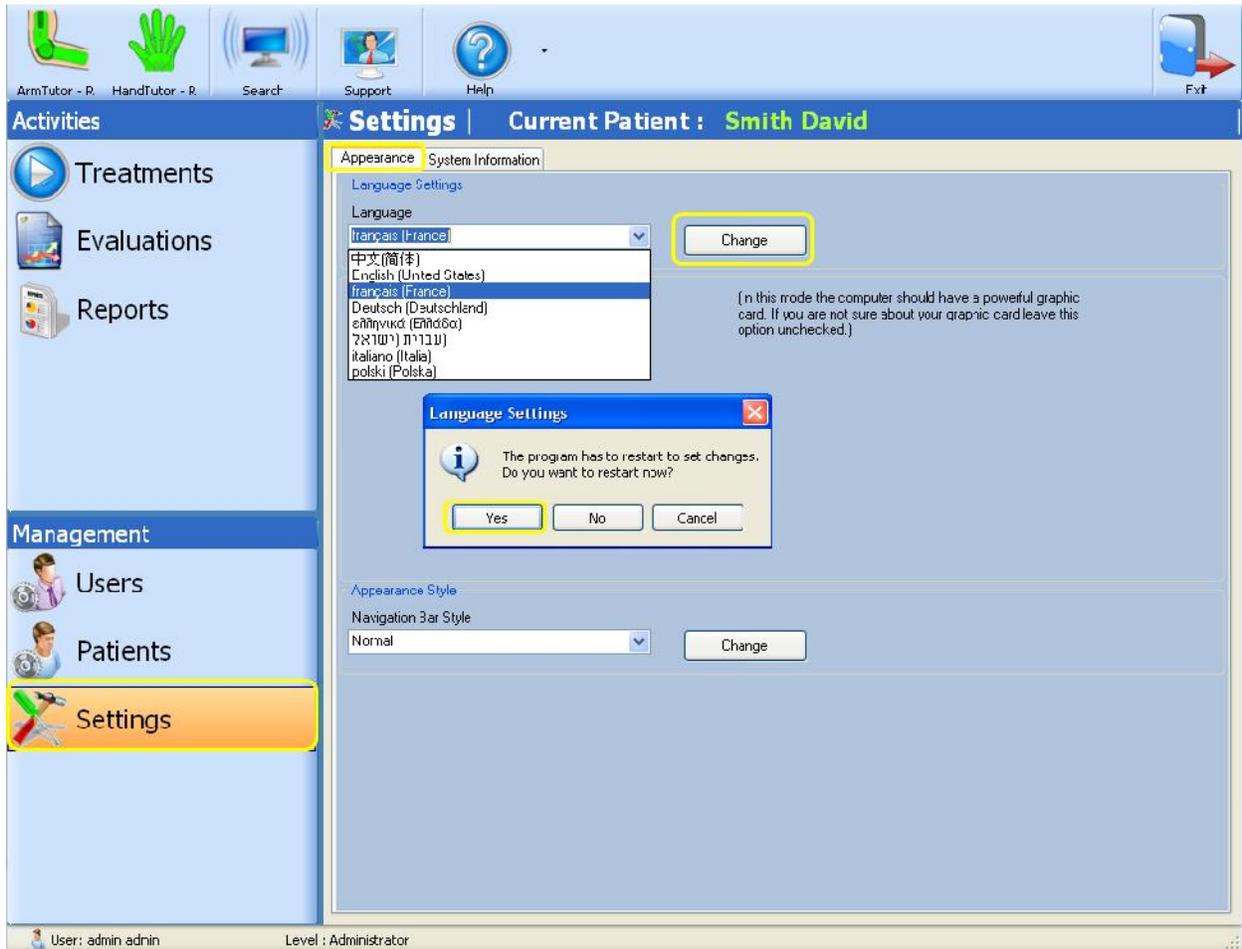
Appearance

How to change MediTutor Language

To change MediTutor language follow the below instructions:

- 1- Go to **Settings**

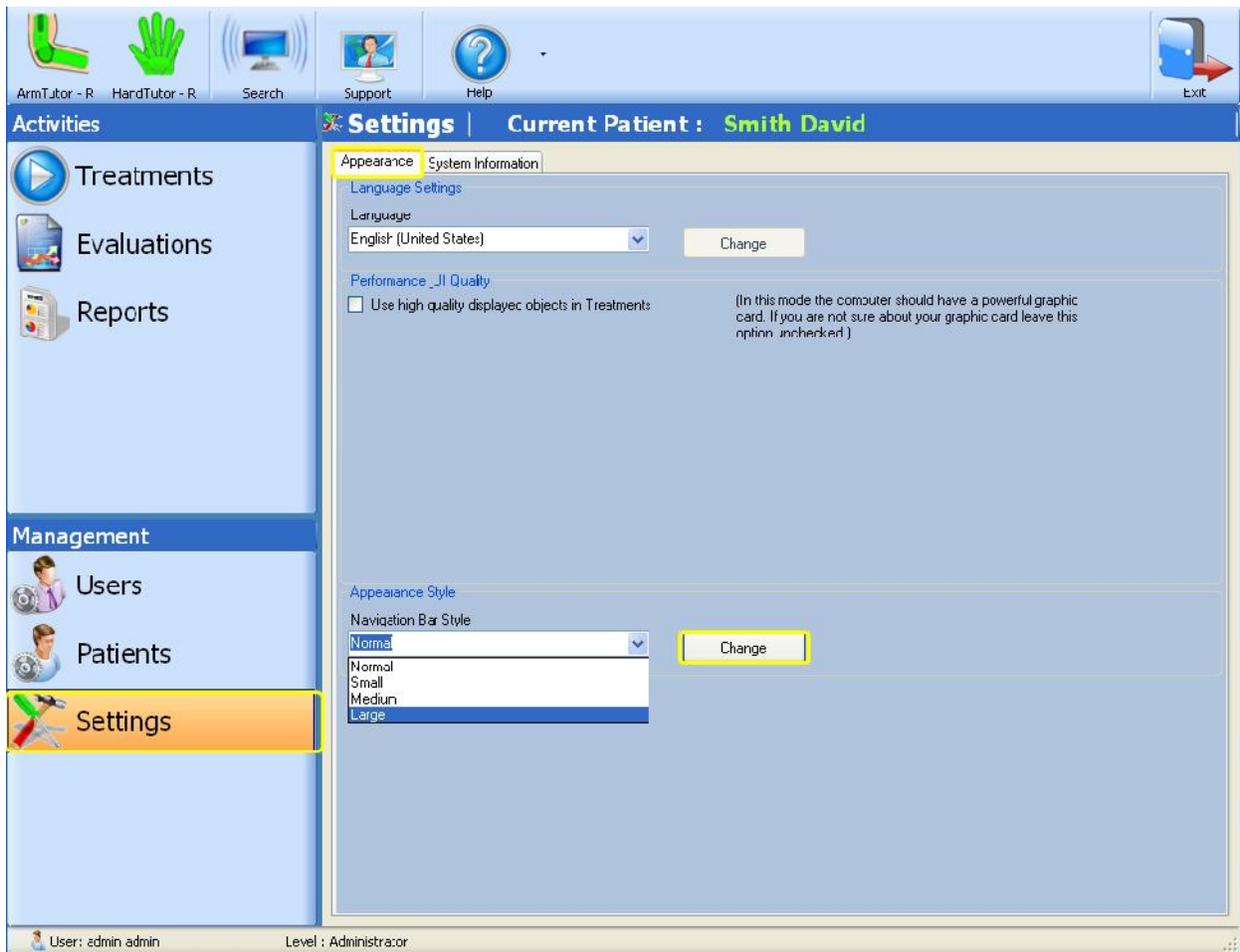
- 2- Choose **Appearance**
- 3- Choose language and press **Change**
- 4- Press **Yes**



How to change Navigation Bar Style

To change MediTutor navigation bar follow the below instructions:

- 1- Go to **Settings**
- 2- Choose **Appearance**
- 3- Choose bar style and press **Change**
- 4- Press **Yes**

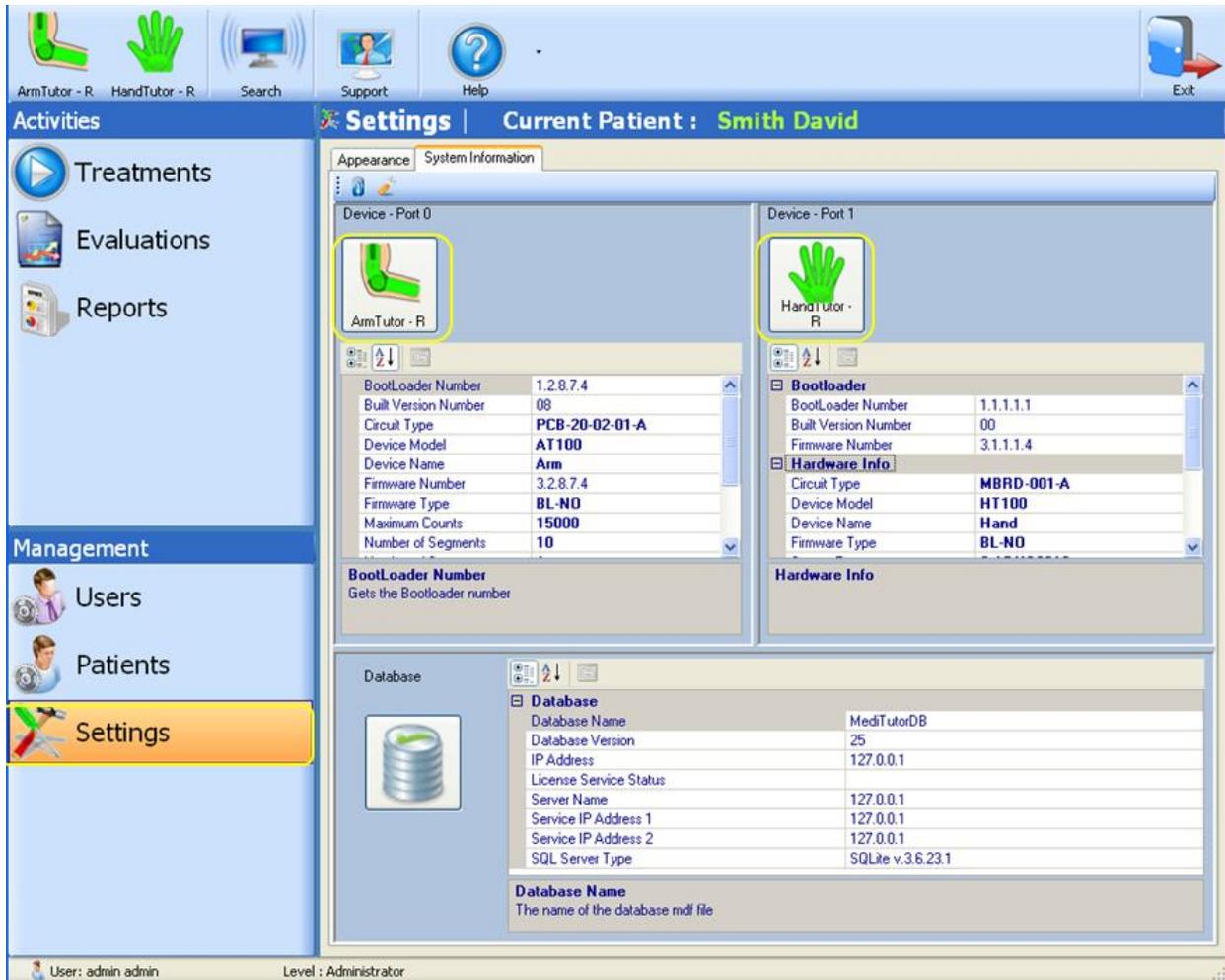


System Information

How to see Device and database details

To review device and database details follow the below instructions:

- 1- Connect a **device(s)** and go to **Settings**
- 2- Choose **System Information**
- 3- **Device(s) and database** information will appear



How to see Wireless Device setting

To review wireless devices setting follow the below instructions:

- 1- Connect a **3DTutor** and go to **Settings**
- 2- Choose **System Information**
- 3- Press **Wireless Devices Setting**
- 4- **3DT setting** will appear in **Discovering Setting** tab
- 5- **Bluetooth details** will appear in **Bluetooth Radio** tab

Settings | Current Patient : **Smith David**

Appearance System Information

Wireless Devices Setting

Discovering Setting Bluetooth Radio

Discover Devices

Automatic Pairing

Key Pass

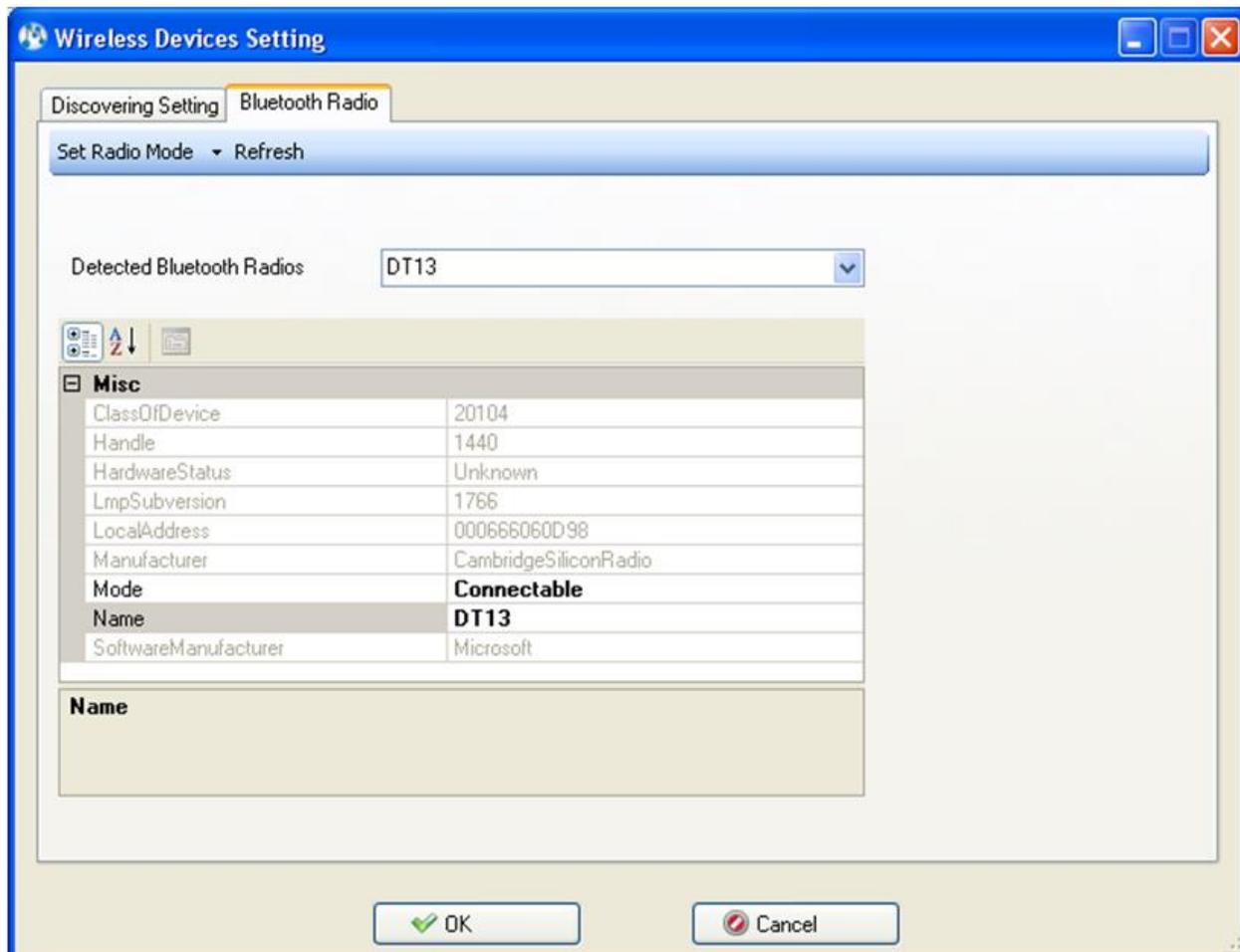
Use Wireless Search Filter

3D Tutor
3D Tutor
3D-Tutor
FireFly

Add
Remove
Clear
Reset
Save

SQL Server Type SQLite v.3.6.23.1

Database Name
The name of the database mdf file

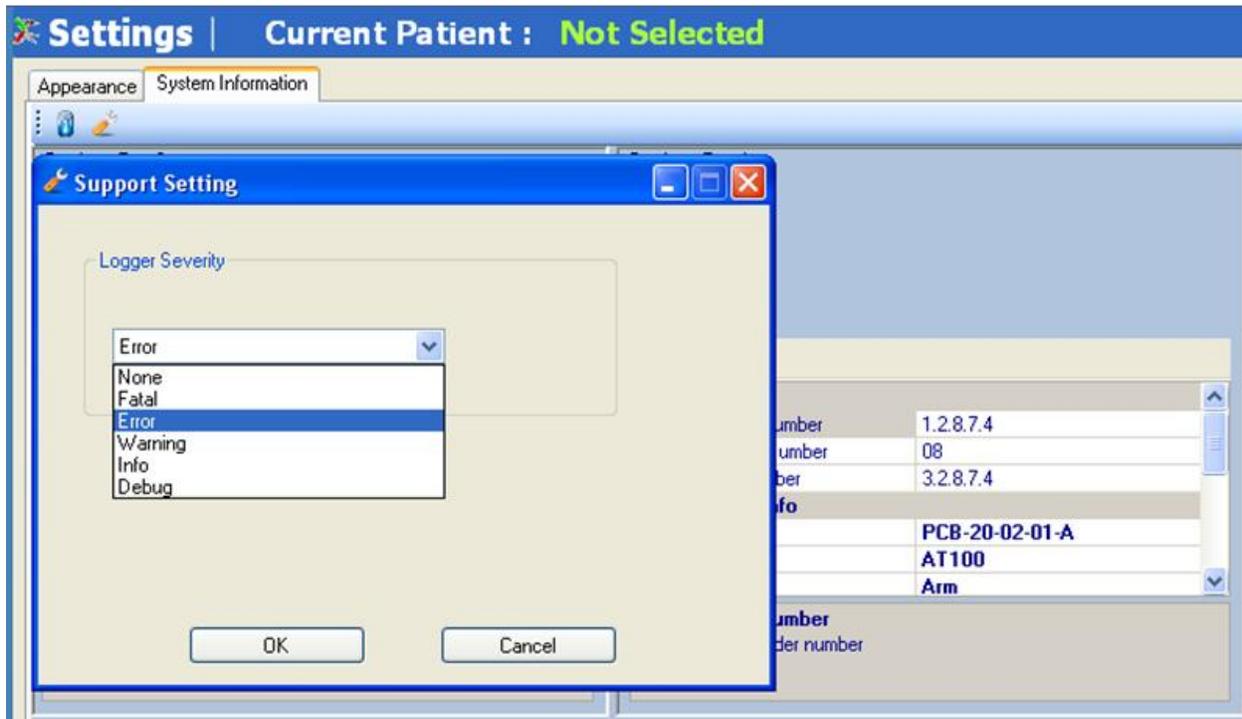


How to see Support Setting

Logger severity is for developers purposes.

To change the severity log follows next instructions:

- 1- Go to **Setting**
- 2- Choose **System Information**
- 3- Press **Support Setting**
- 4- Choose **severity log**
- 5- Press **OK**



Activities – Treatments

The MediTutor™ system is designed to allow the patient to undertake a wide variety of clinically developed task based exercises. The program to patient interface has been designed to keep the patient motivated during the exercise program. During and after the exercise the patient receives information on his training performance. This information is known as acknowledgement of performance and acknowledgement of results. The exercise tasks are professionally designed to keep the patient motivated during their rehabilitation program.

Access to the Treatment list is facilitated by clicking on the **Treatments** button on the Activities menu found on the introductory software window:



Task exercise methodology

Explanation of exercise tasks

HandTutor

All HandTutor™ exercise tasks are based on flexion and extension movements of fingers and wrist. The tasks have been developed to work on fine motor movements of the hand and to provide augmented feedback. Exercise with the HandTutor™ therefore leads to local strengthening of muscles and motor learning.

ArmTutor

All ArmTutor™ exercise tasks are based on flexion and extension movements of elbow and shoulder. The tasks have been developed to work on fine motor movements of the arm and to provide augmented feedback. Exercise with the ArmTutor™ therefore leads to local strengthening of muscles and motor learning.

LegTutor

All LegTutor™ exercise tasks are based on flexion and extension movements of knee and hip.

The tasks have been developed to work on fine motor movements of the leg and to provide augmented feedback. Exercise with the LegTutor™ therefore leads to local strengthening of muscles and motor learning.

3DTutor

All 3DTutor™ exercise tasks are based on physiotherapeutic movements of joint. See Dynamic range setting to see all types. The tasks have been developed to work on fine motor movements of the each joint and to provide augmented feedback. Exercise with the 3DTutor™ therefore leads to local strengthening of muscles and motor learning.

Customizing game to impairments

MediTutor™ exercises work on improving joint impairments. The exercise tasks are very flexible and can be tailored to each individual patient's level of joint motor and cognitive impairment. This task flexibility allows for a tailoring of the exercise task so that the patient stays motivated and challenged to perform at their best and thus gain maximum benefit from the treatment session. Information regarding the extent of the patient's impairment can be gained from the evaluation tasks included in the MediTutor software.

Feedback and learning

The patient receives constant and immediate feedback on his motor movements at all times during the exercise task. This allows the patient to correct his movements according to the objective of the task. After completion of the exercise task the patient receives input on his performance by means of an exercise result score.

Further task customization

Once the task is completed the therapist can further customize the task in order to work on different impairments if required e.g. accuracy of movement as opposed to speed of movement. Alternatively the same impairment can be worked on by repeating the task using the same parameters at the same difficulty level or by changing the parameters to make the task more or less difficult for the impairment.

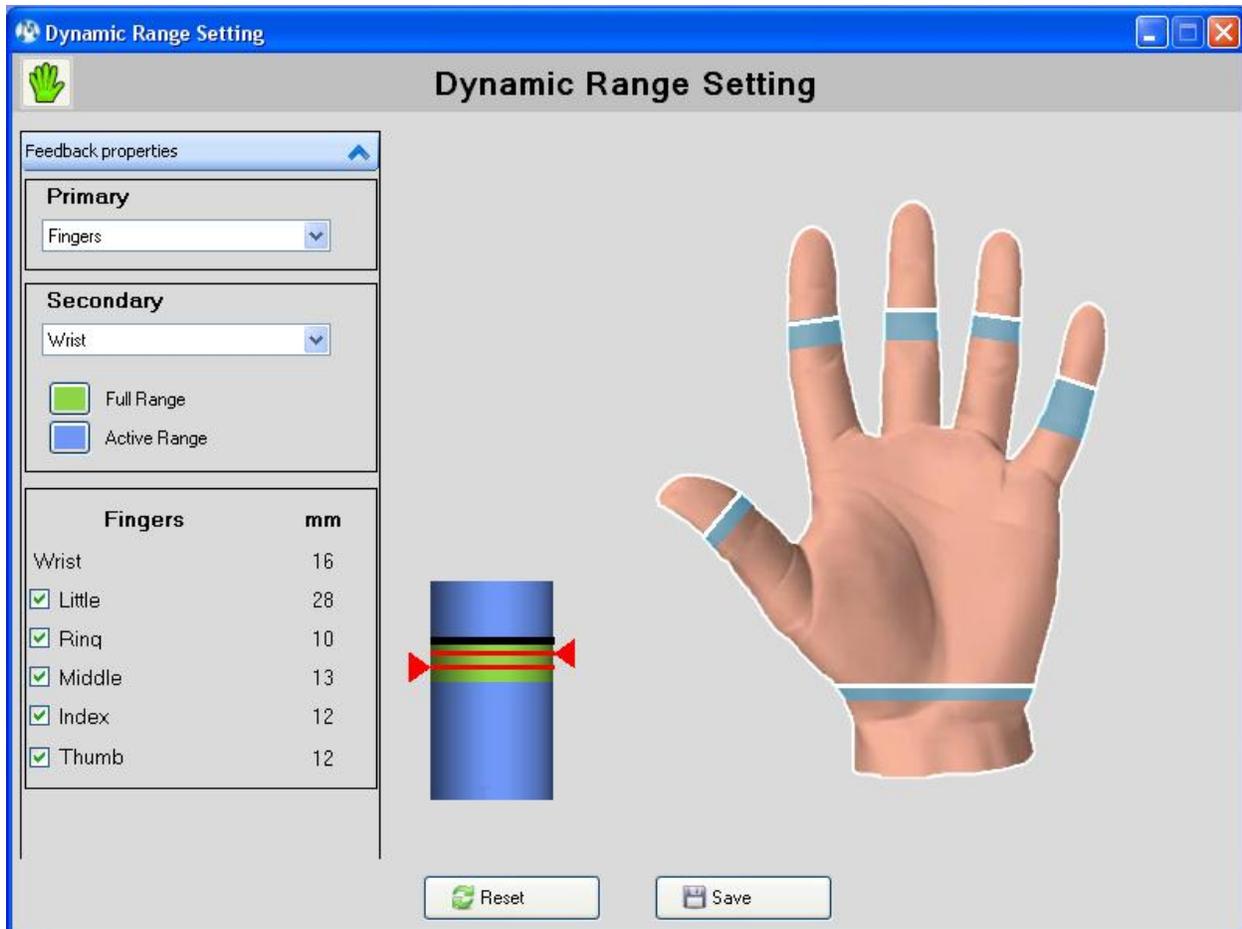
Dynamic Range Setting

Each time user enters to an exercise session the ROM of his limb must be set, in order to perform full settings of the device run treatment and follow the instructions:

HandTutor setting

To take **HandTutor setting** follow the below instructions:

- 1- Connect **HandTutor** and put on
- 2- Choose **patient**
- 3- Go to **Treatments** and start a treatment
- 4- **Dynamic Range Setting** will appear
- 5- Choose from **Primary** Fingers or Wrist
- 6- You may choose **Secondary**
- 7- Extend and flex **HandTutor** in order to take **ROM**, in millimeters
- 8- Press **Save**



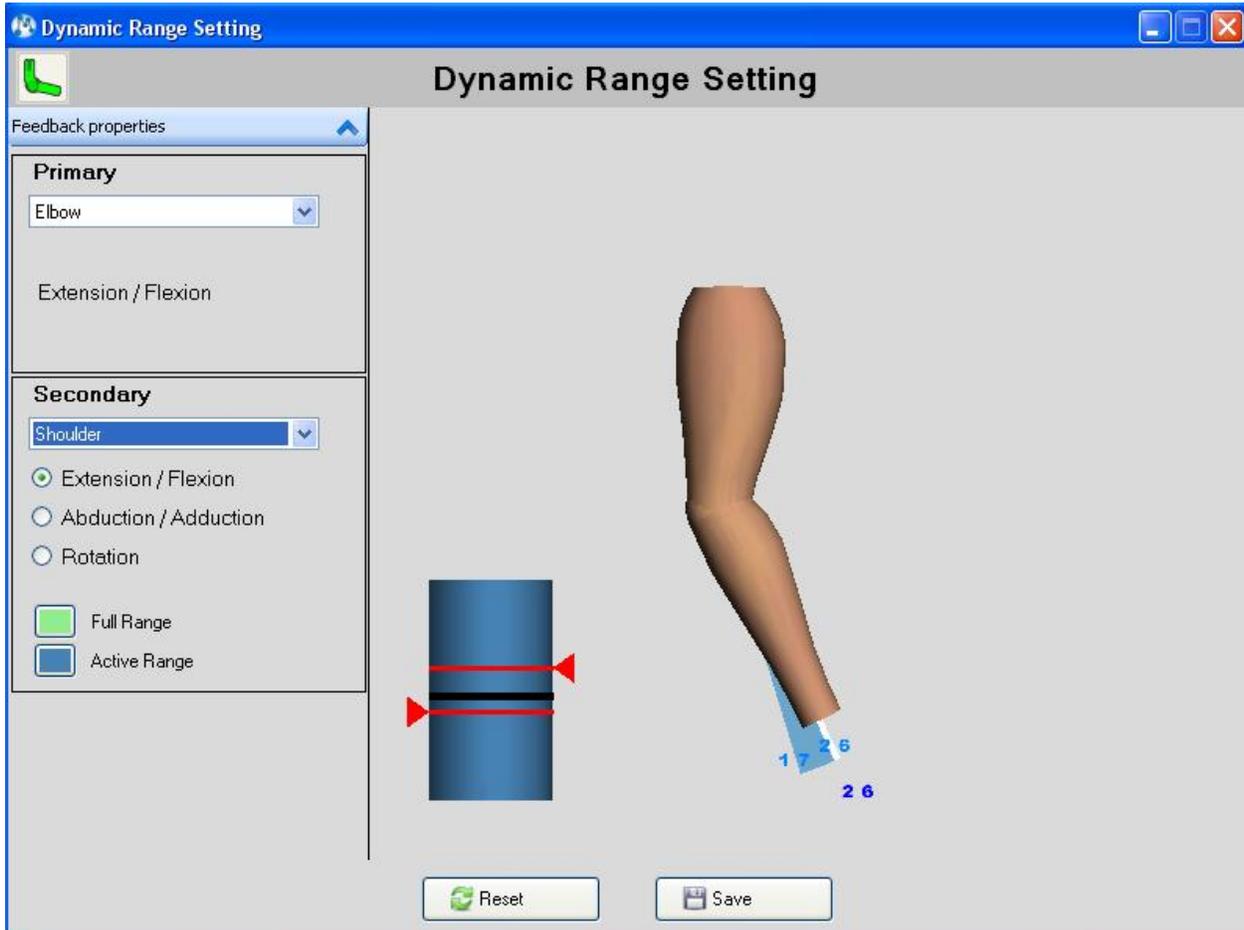
ArmTutor setting

To take **ArmTutor setting** follow the below instructions:

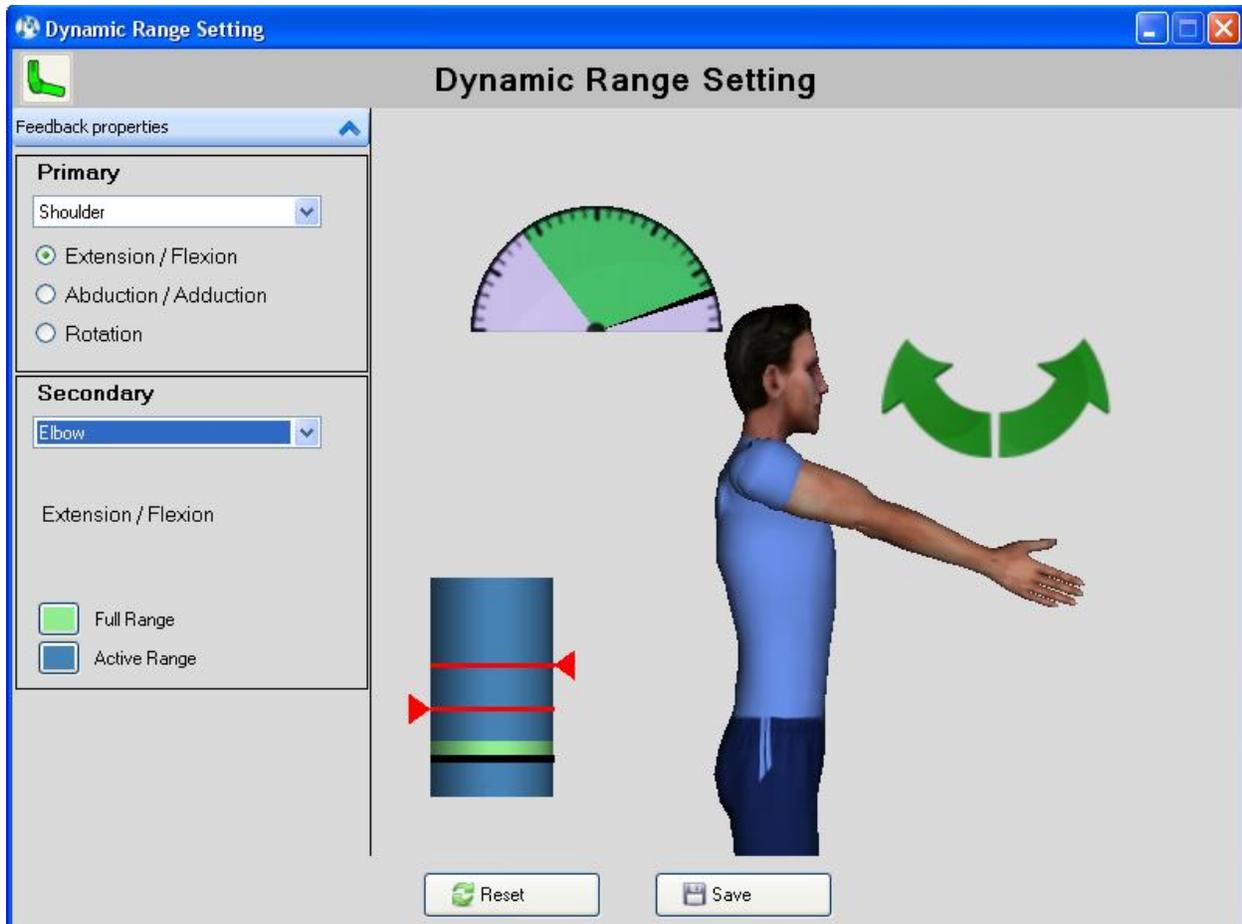
- 1- Connect **ArmTutor** and put on
- 2- Choose **patient**
- 3- Go to **Treatments** and start treatment
- 4- **Dynamic Range Setting** will appear
- 5- Choose from **Primary** Elbow or Shoulder
- 6- You may choose **Secondary**
- 7- Move the **ArmTutor**
- 8- Note it takes **ROM in degrees**

9- Press **Save**

Elbow view



Shoulder view



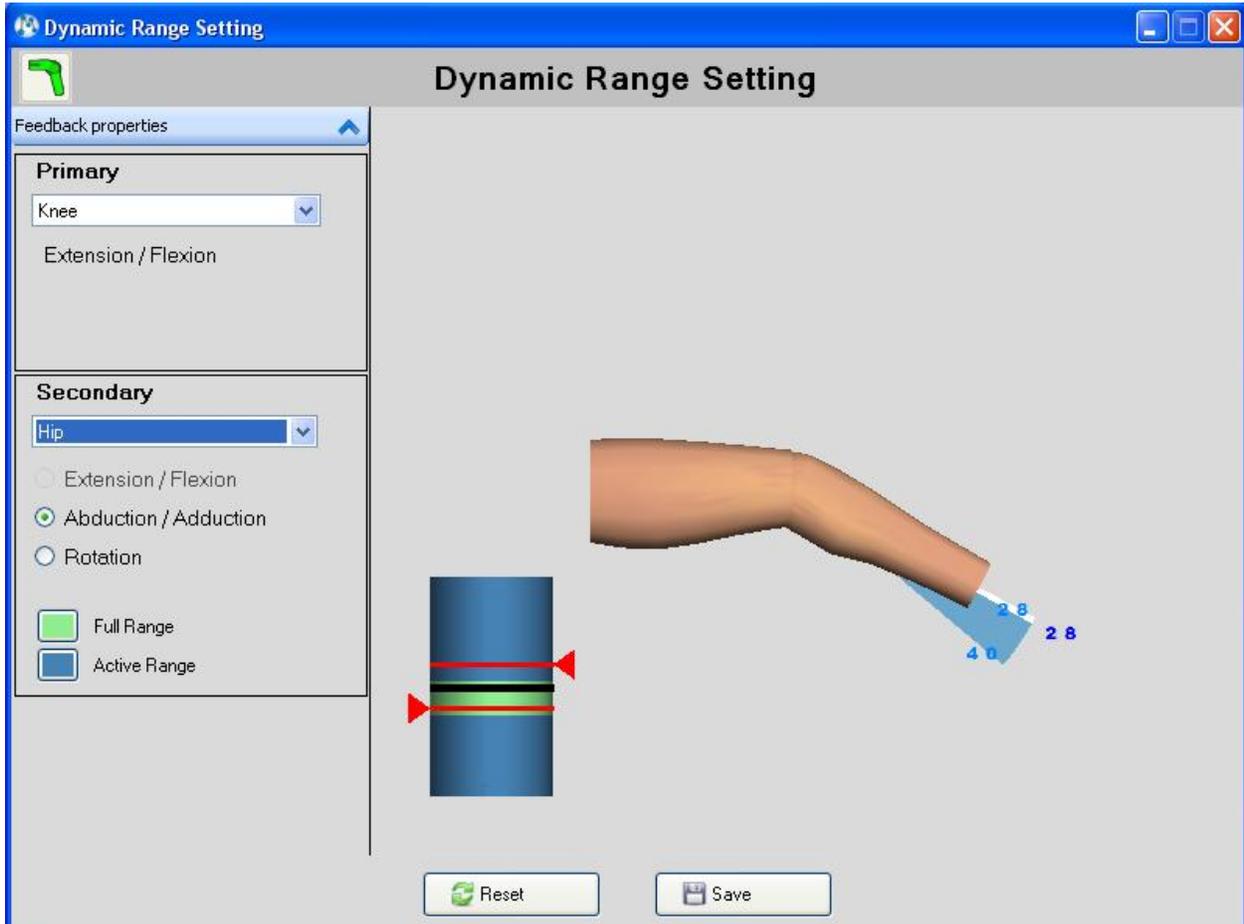
LegTutor setting

To take **LegTutor setting** follow the below instructions:

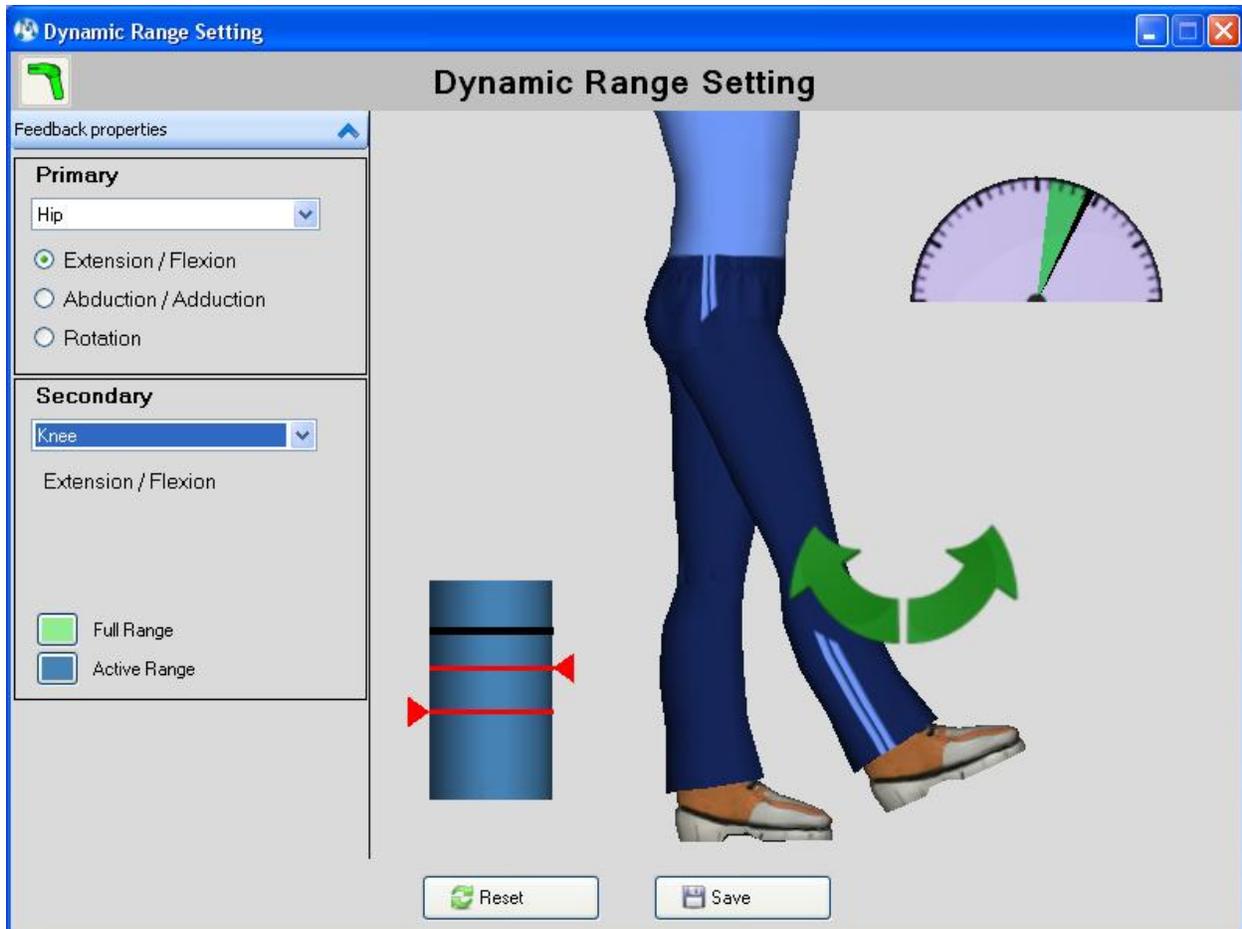
- 1- Connect **LegTutor** and put on
- 2- Choose **patient**
- 3- Go to **Treatments** and start treatment
- 4- **Dynamic Range Setting** will appear
- 5- Choose from **Primary** Knee or Hip
- 6- You may choose **Secondary**
- 7- Move the **LegTutor**
- 8- Note it takes **ROM in degrees**

9- Press **Save**

Knee view



Hip view

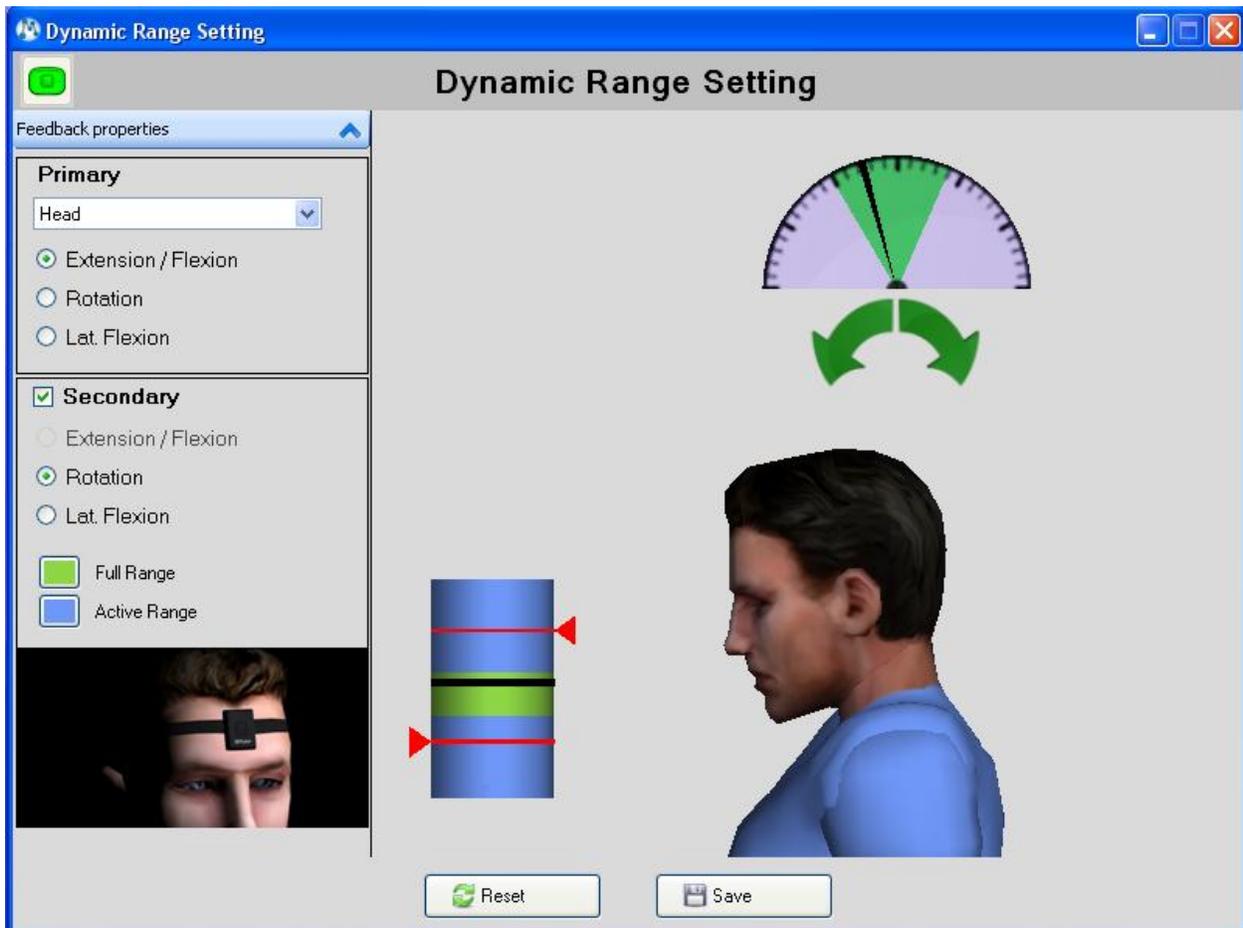


3DTutor setting

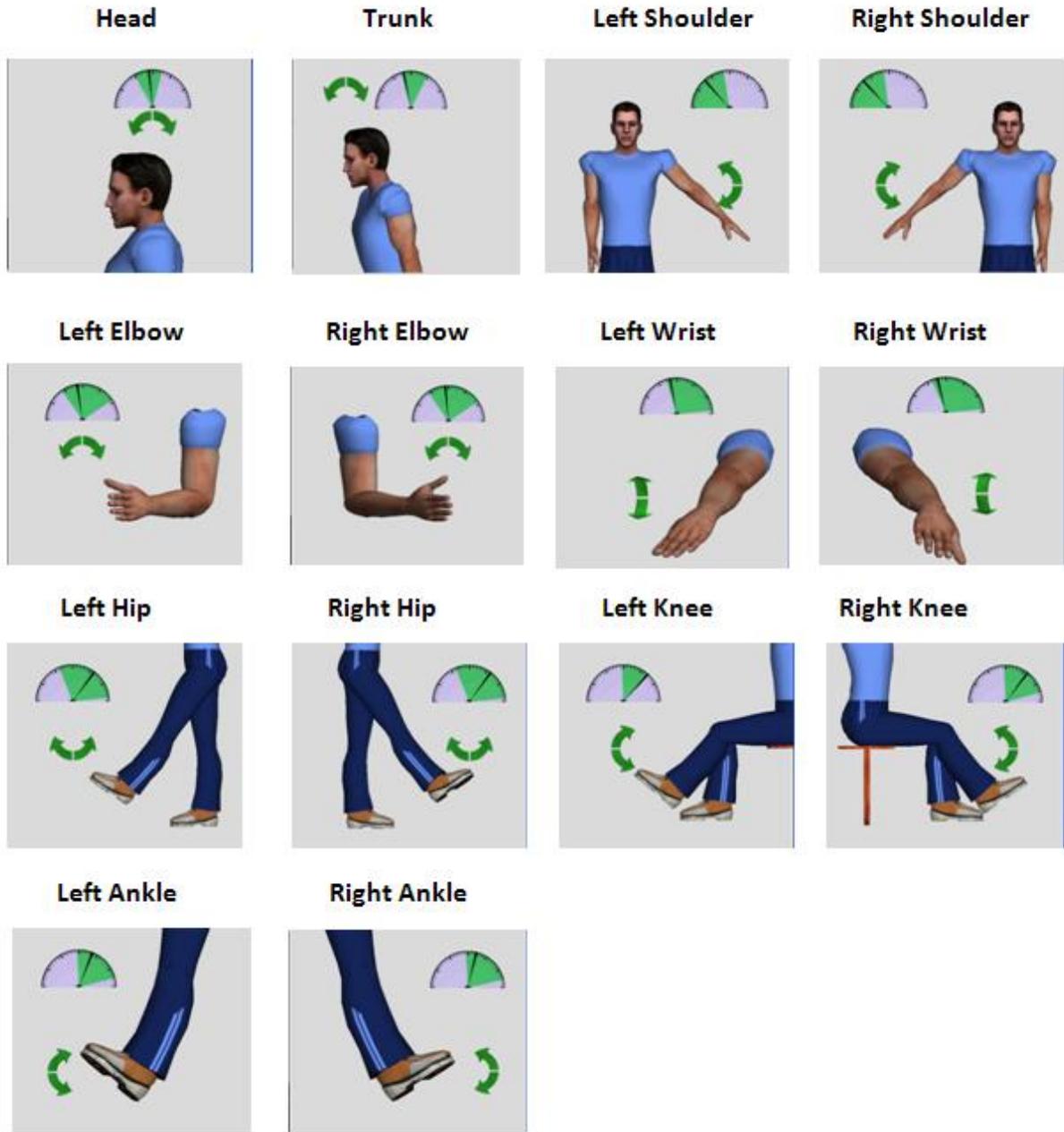
To take **3DTutor setting** follow the below instructions:

- 1- Connect **3DTutor**
- 2- Choose **patient**
- 3- Go to **Treatments** and start treatment
- 4- **Dynamic Range Setting** will appear
- 5- Choose your **Primary** from the list and put on
- 6- You may check **Secondary**
- 7- Move the **3DTutor**
- 8- Note it takes **ROM in degrees**

9- Press **Save**



All types



Treatment setting

Treatment setting is used to set parameters according to the impairment and level to be worked on.

Treatment Control Panel

Each treatment screen has control panel. See the following explanation for each button:



To start treatment



To stop treatment



To open Dynamic Range Setting



To open Treatment Setting

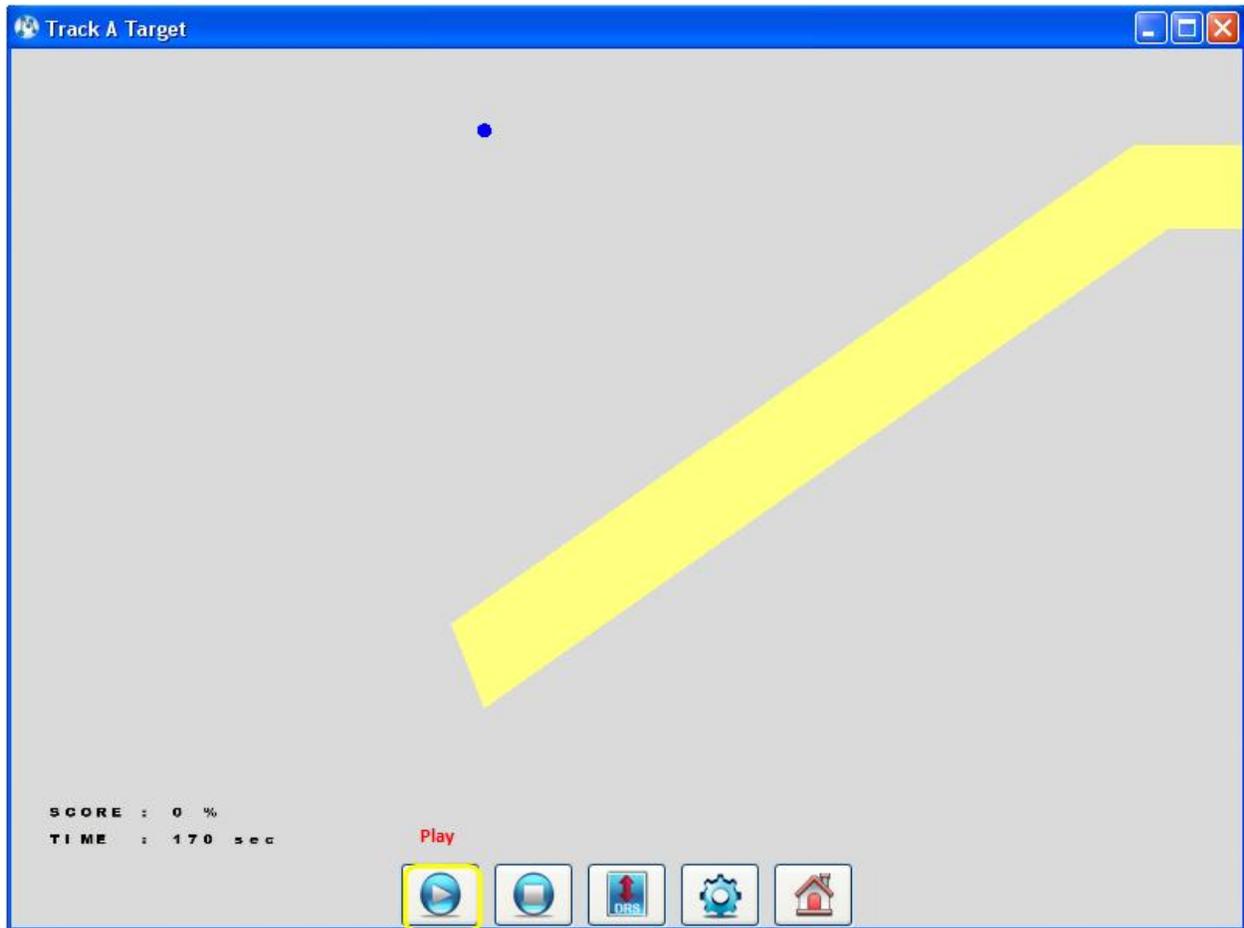


To close treatment

How to start treatment

To **Start Treatment** follow the below instructions:

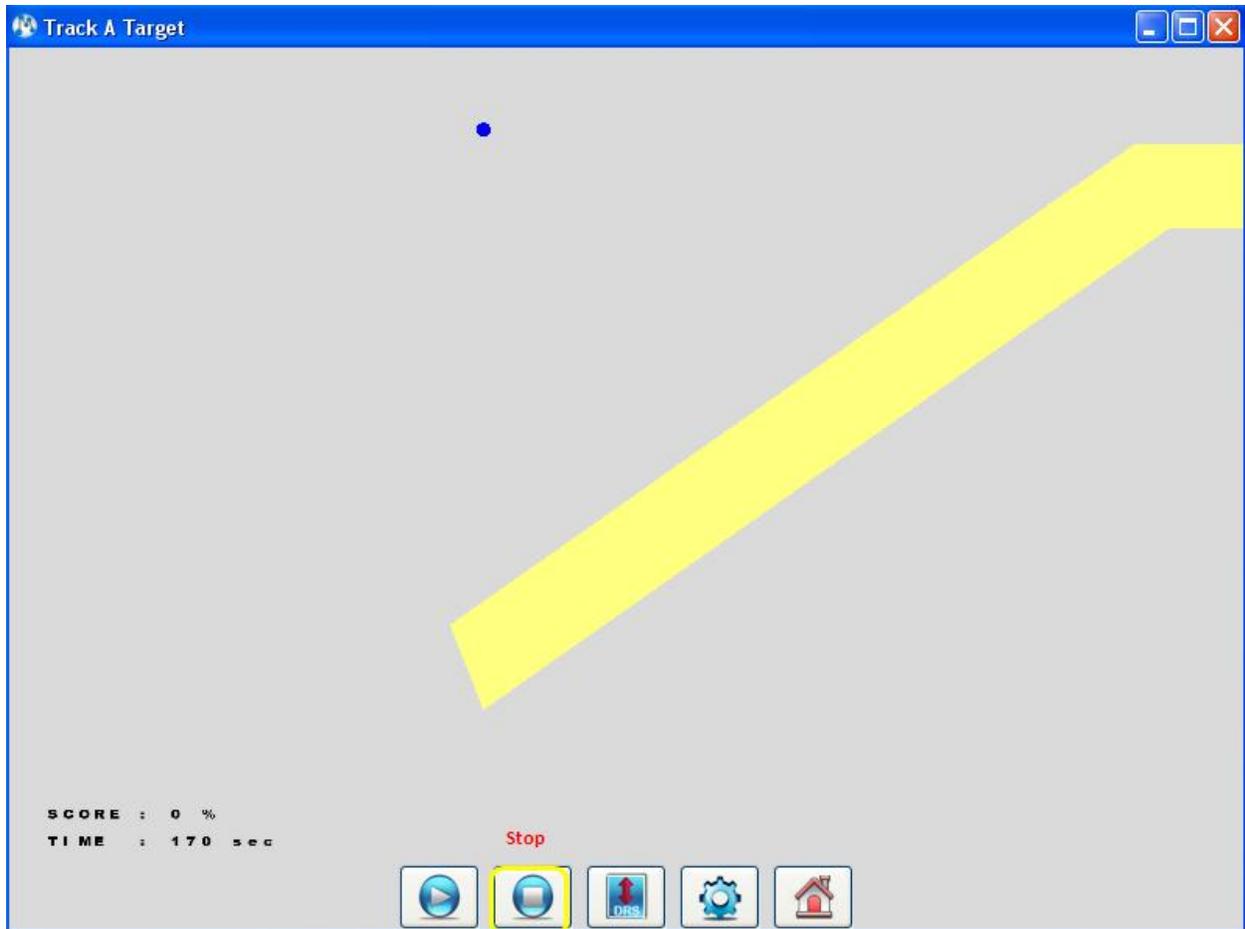
- 1- **Connect and calibrate** the device and go to Treatments
- 2- **Select some treatment** and press double click
- 3- **DRS** window will appear. **Take ROM** and press Save
- 4- **Treatment** window will appear.
- 5- Press on **Start** button



How to stop treatment

To **Stop Treatment** follow the below instructions:

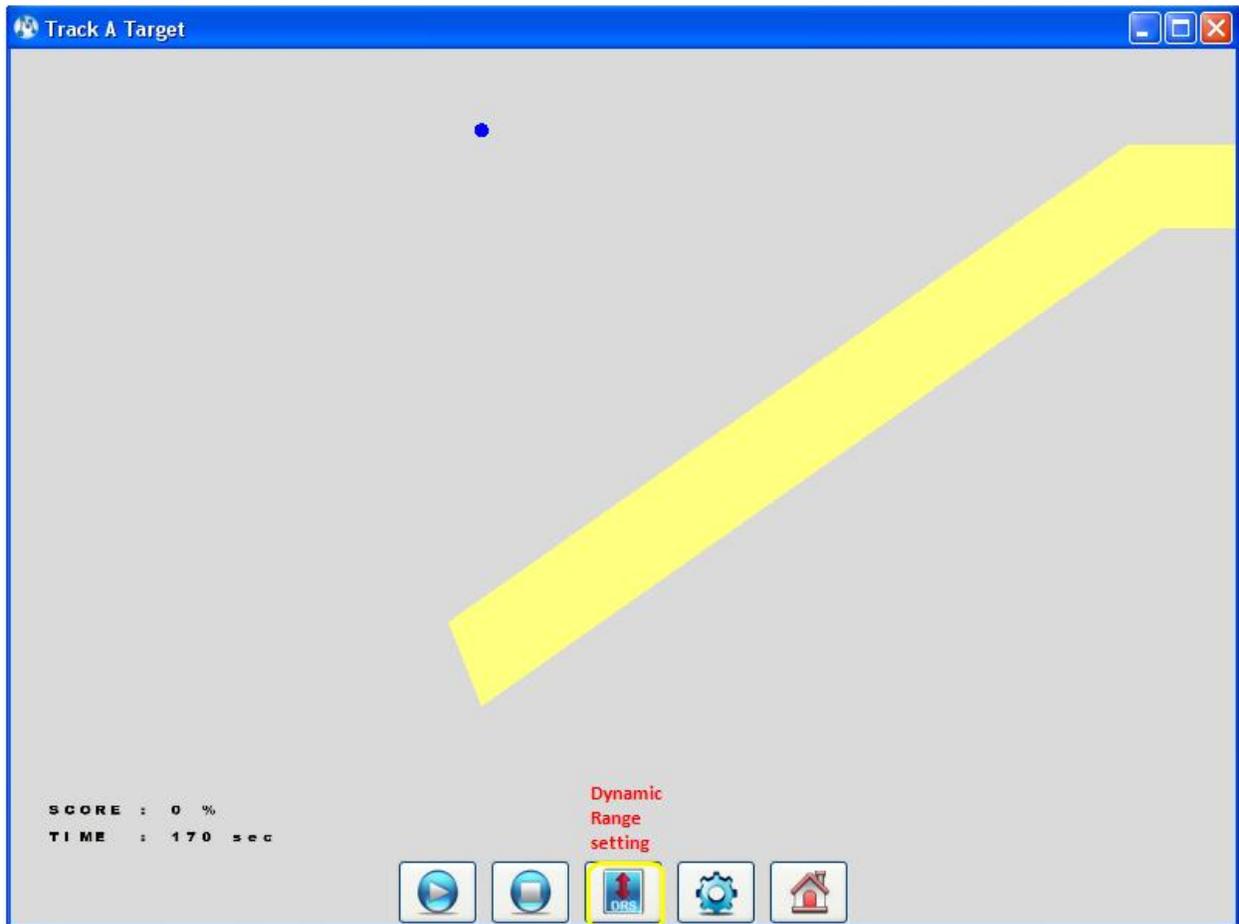
- 1- **Start** any treatment
- 2- Treatment will **run**
- 3- Press on **Stop** button



How to open DRS window

To open **Dynamic Range Setting (DRS)** follow the below instructions:

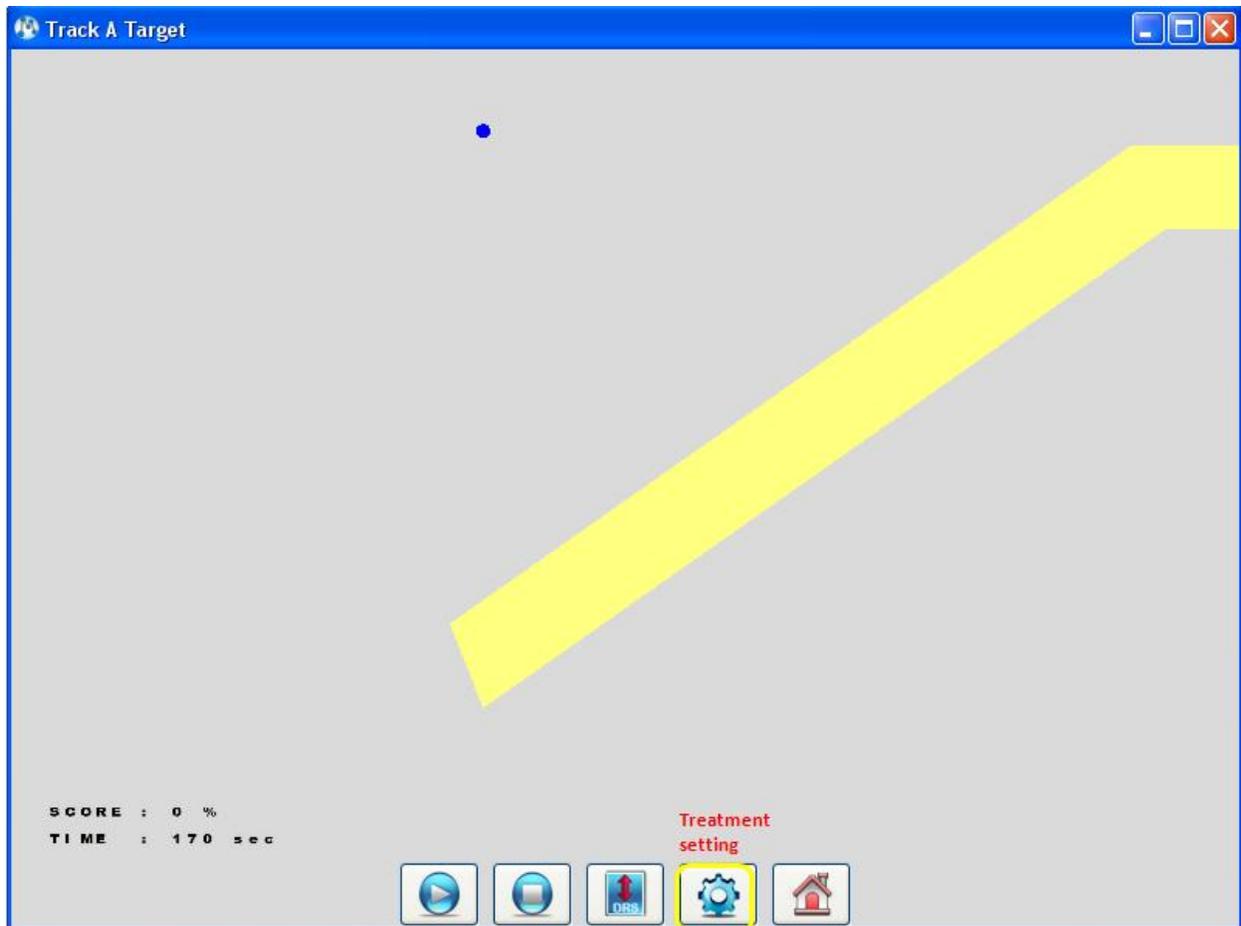
- 1- Go to **Treatments**
- 2- **Select some treatment** and press double click
- 3- **DRS** window will appear
- 4- Press **Save**
- 5- **Treatment** window will appear.
- 6- Press on **DRS** button



How to open Treatment Setting window

To **open Treatment Setting** follow the below instructions:

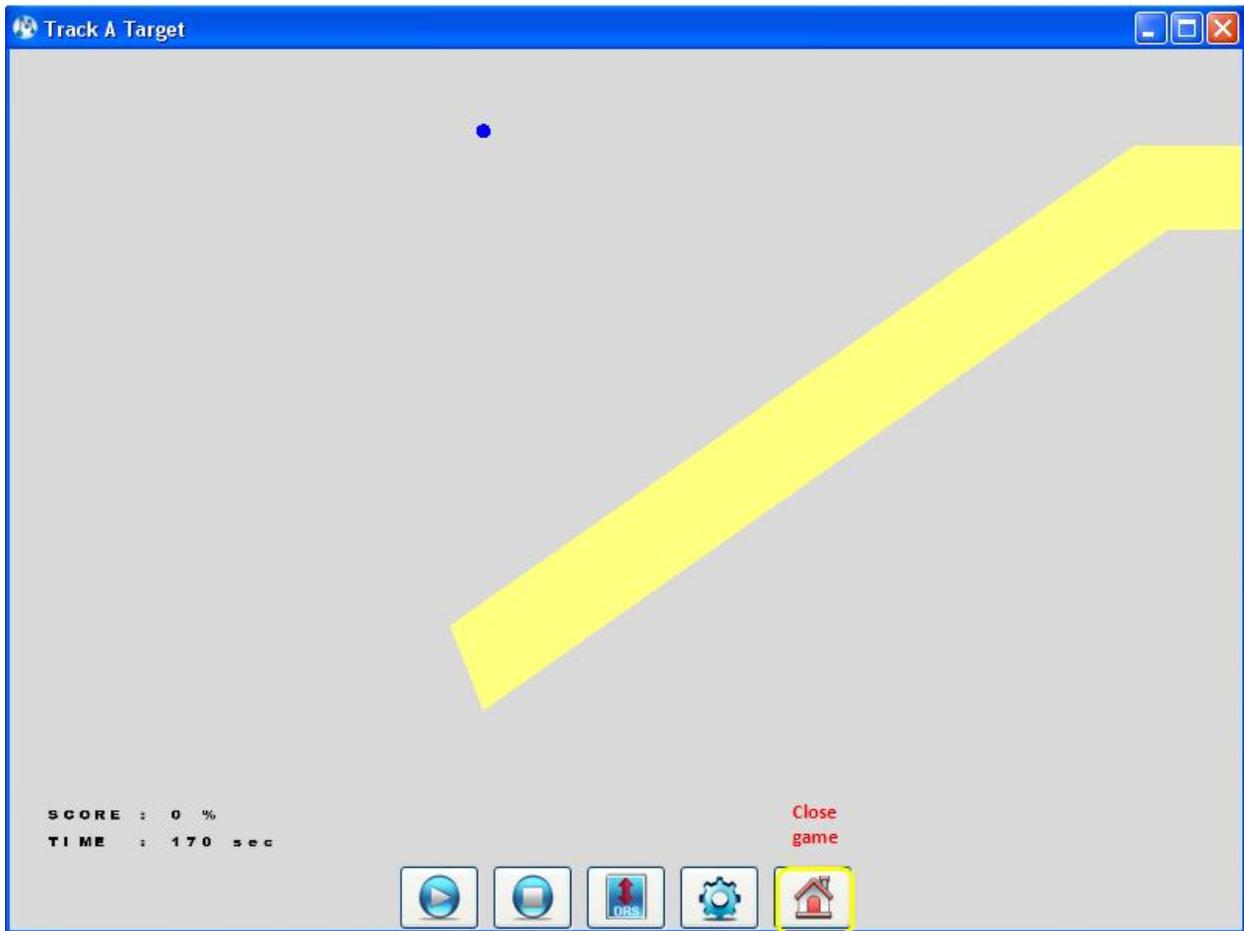
- 1- **Open** any treatment
- 2- Press on **Treatment Setting** button



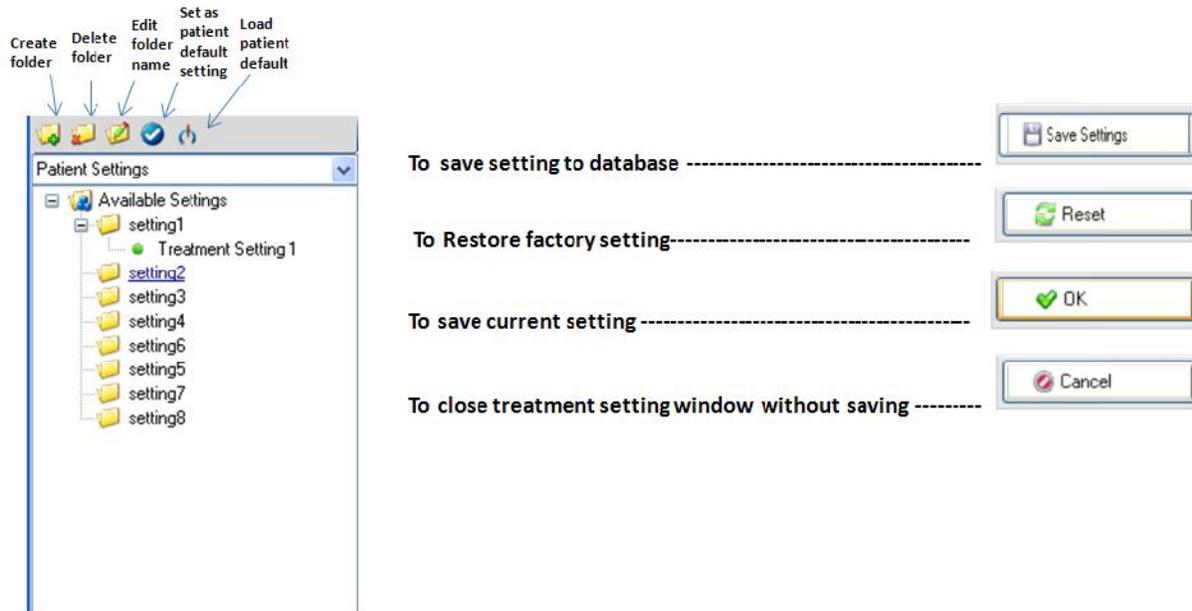
How to close Treatment

To **close treatment** follow the below instructions:

- 1- **Open** any treatment
- 2- **Treatment** window will appear.
- 3- Press on **Close** button



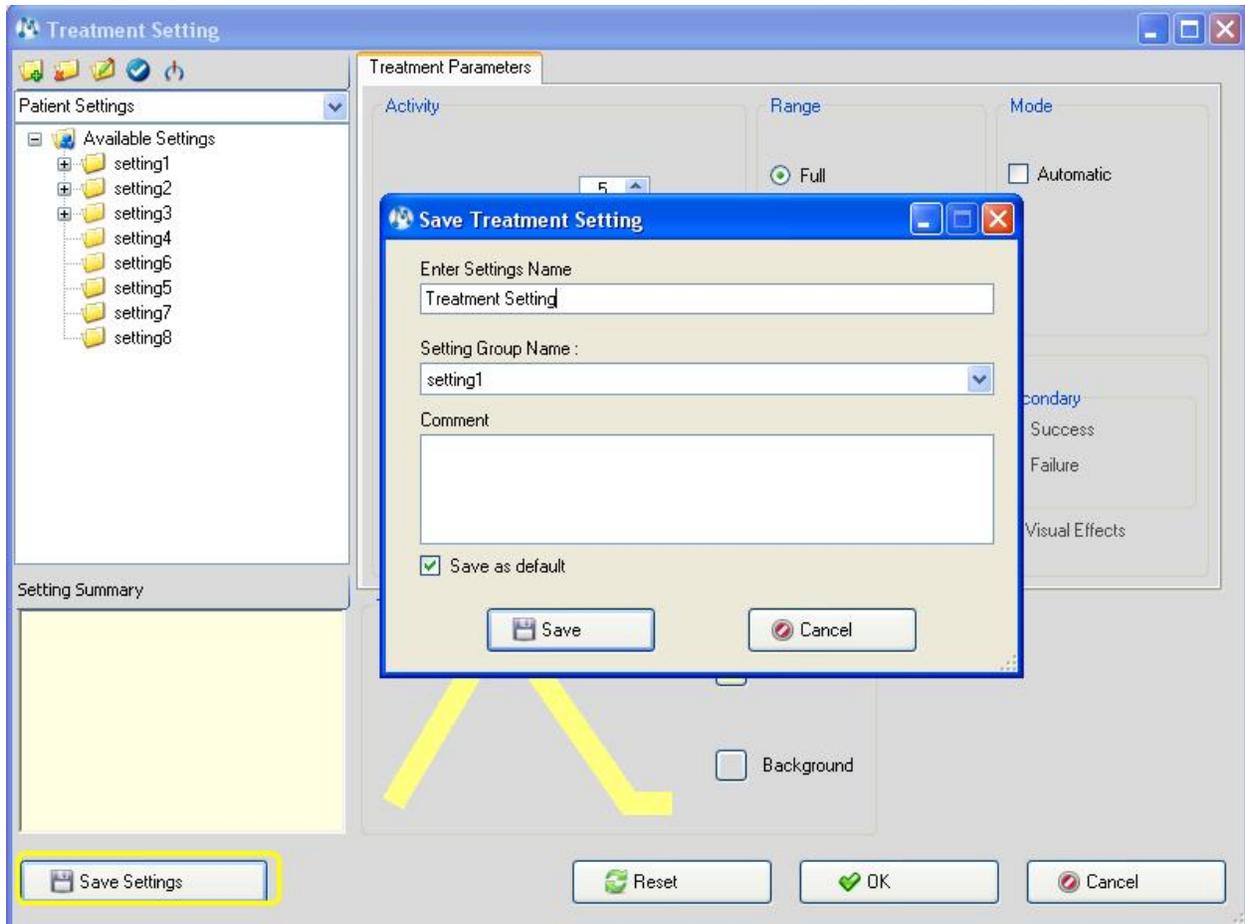
Setting Control Panel



How to save settings to database

To **save treatment setting** follow the below instructions:

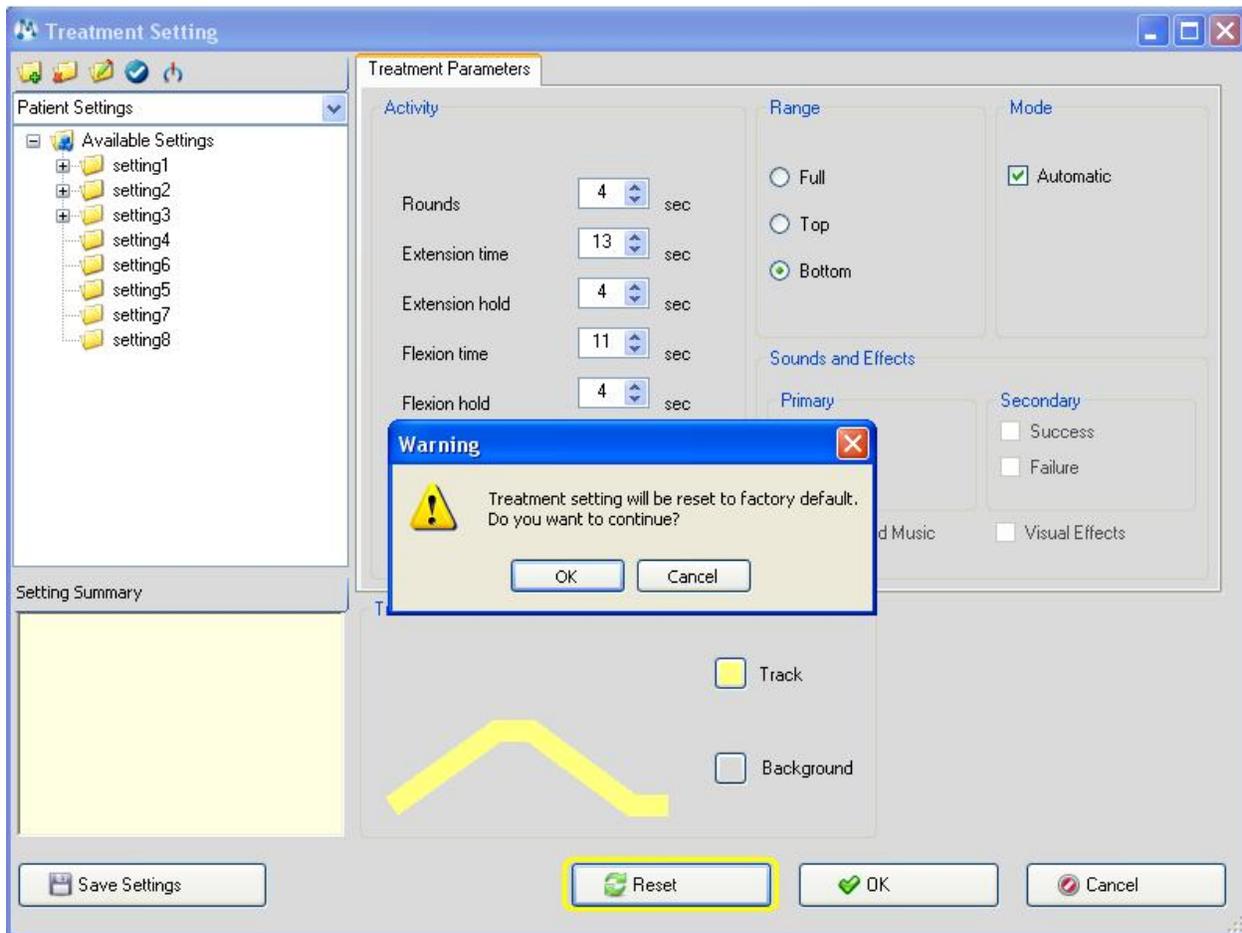
- 1- Open some treatment and press on **Treatment Setting**
- 2- Set your **parameters**
- 3- Press on **Save Settings**
- 4- **Save Treatment Setting** will appear
- 5- Enter **settings name**
- 6- Choose **setting group name**
- 7- You may enter a comment
- 8- If you desire to save it as patient default then mark **Save as default**
- 9- Press **Save**. The saved item will appear under the **setting tree**.



How to reset settings to factory default

To **rest setting** follow the below instructions:

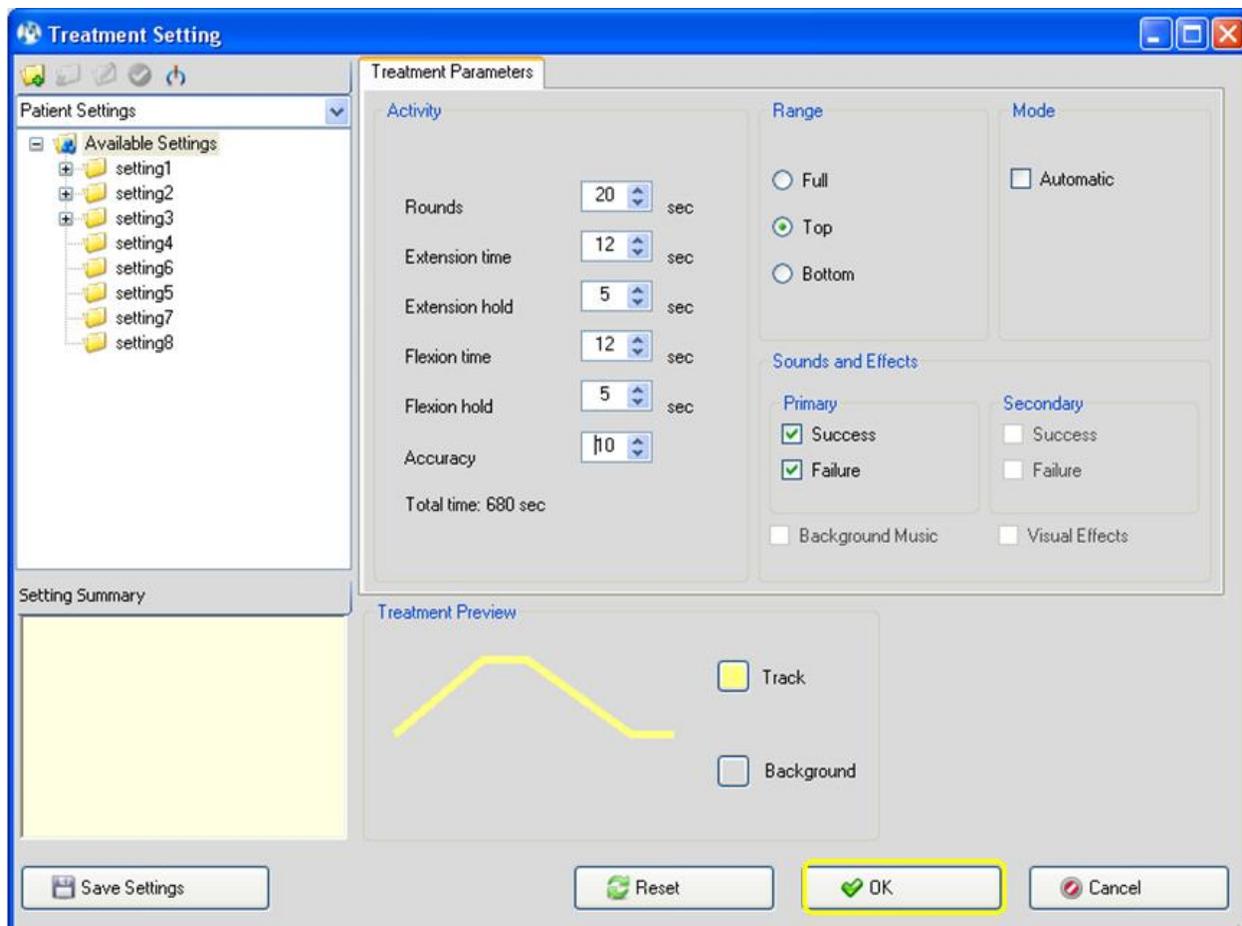
- 4- Open a **Treatment Setting** of some treatment
- 5- Press on **Reset**
- 6- Press **OK**



How to save current settings

To **save current setting** follow the below instructions:

- 1- Open **Treatment Setting** of some treatment
- 2- Set your **parameters**
- 3- Press on **OK**
- 4- Press **Start**



Track a Target parameters

Before you start to use **Track a Target** review the following explanation for each parameter:

Activity

- Rounds: To set number of rounds
- Extension time: To set the duration of extension, in seconds
- Extension hold: To set time of holding extension position, in seconds
- Flexion time: To set the duration of flexion, in seconds
- Flexion hold: To set time of holding flexion position, in seconds
- Accuracy: To set the width of track

Range

- Full: Track will appear on all range
- Top: Track will appear on top of range

- Bottom: Track will appear on bottom of range

Mode

- Automatic: To set automatic mode

Sounds and Effects

- To set sounds for success and failure

Treatment Preview

- Track: To set track color
- Background: To set background color

Treatment Parameters

Activity

Rounds: 5 sec

Extension time: 12 sec

Extension hold: 5 sec

Flexion time: 12 sec

Flexion hold: 5 sec

Accuracy: 30

Total time: 170 sec

Range

Full

Top

Bottom

Mode

Automatic

Sounds and Effects

Primary

Success

Failure

Background Music

Secondary

Success

Failure

Visual Effects

Treatment Preview

Track

Background

Catch the Ball & Asteroid Attack parameters

Before you start to use **Basketball and Asteroids** review the following explanation for each parameter:

Activity

- Size: To set size of ball/asteroid
- Speed: To set speed of ball/asteroid
- Time: To set duration of the game, in seconds
- Number of balls/asteroids: To set numbers of balls/asteroids

Range

- Full: Balls/Asteroids will appear on all range
- Top: Balls/Asteroids will appear on top of range
- Bottom: Balls/Asteroids will appear on bottom of range

Mode

- Automatic: To set automatic mode
- Flip screen: To change direction of appearance

Sounds and Effects

- To set sounds for success and failure

The screenshot shows a 'Treatment Parameters' dialog box with the following settings:

- Activity:**
 - Size: 5 (slider)
 - Speed: 10 (slider)
 - Time: 180 (slider)
 - Number of balls: 1 (dropdown)
- Range:**
 - Full (selected radio button)
 - Top (radio button)
 - Bottom (radio button)
- Mode:**
 - Automatic (checkbox, unchecked)
 - Flip screen (checkbox, unchecked)
- Sounds and Effects:**
 - Primary:**
 - Success (checkbox, checked)
 - Failure (checkbox, checked)
 - Secondary:**
 - Success (checkbox, unchecked)
 - Failure (checkbox, unchecked)
 - Background Music (checkbox, unchecked)
 - Visual Effects (checkbox, unchecked)

Volley Ball parameters

Before you start to use **Volley Ball** review the following explanation for each parameter:

Activity

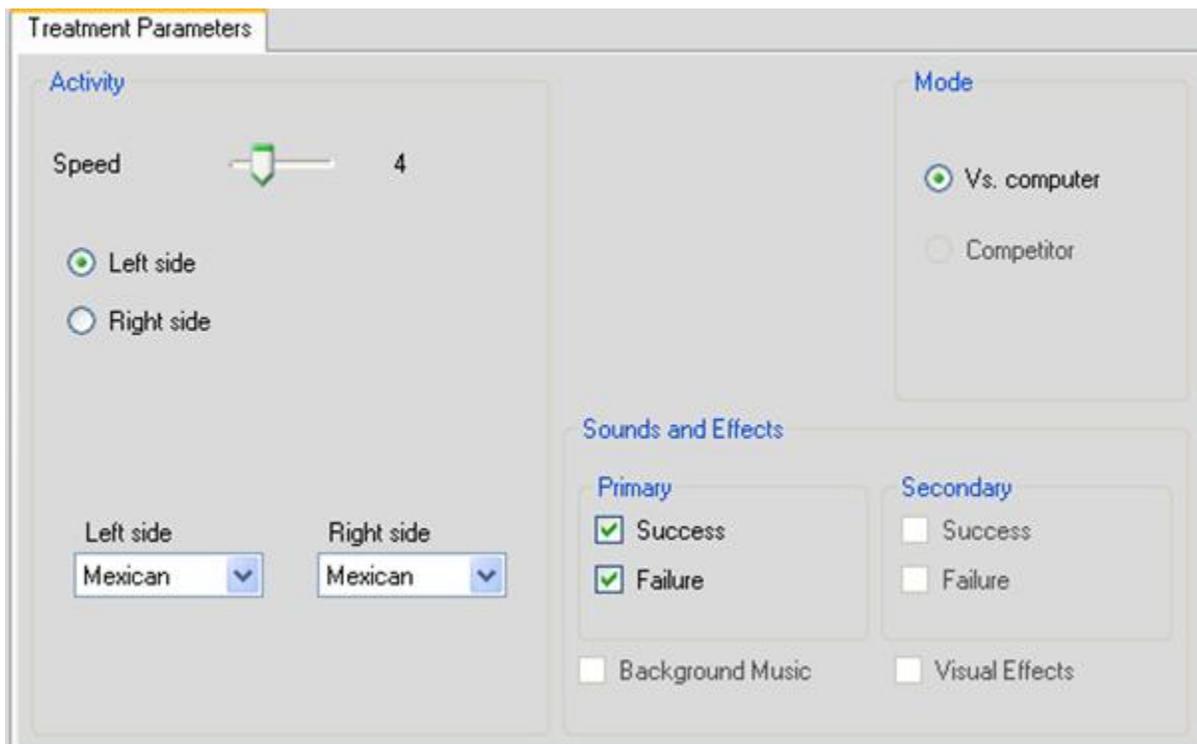
- Speed: To set speed of volley ball
- Left / Right option: To set side of user player
- Left / Right list: To set image of players

Mode

- Vs. Computer: To set game against computer
- Competitor: To set game against another user

Sounds and Effects

- To set sounds for success and failure



Racing parameters

Before you start to use **Racing** review the following explanation for each parameter:

Activity

- Stations: To set number of stations
- Speed: To set speed of racing
- Accuracy: To set width of the road

View

- Back: To set view of racing from back
- Top: To set view of racing from top
- Side: To set view of racing from side

Mode

- Competitor: To set racing with/without competitor
- Trip Indicator: To set racing with/without trip indicator

Sounds and Effects

- To set sounds for success and failure

The screenshot shows a software interface titled "Treatment Parameters" with a tabbed design. The "Activity" tab is active, displaying three sliders: "Stations" set to 7, "Speed" set to 5, and "Accuracy" set to 1. Below this, the "View" section has three radio buttons: "Back" (selected), "Top", and "Side". To the right, the "Mode" section contains two checkboxes: "Competitor" and "Trip Indicator", both of which are unchecked. At the bottom, the "Sounds and Effects" section is divided into "Primary" and "Secondary" sub-sections. The "Primary" sub-section has checkboxes for "Success" (unchecked) and "Failure" (checked). The "Secondary" sub-section has checkboxes for "Success" (unchecked) and "Failure" (unchecked). Additionally, there are two checkboxes at the bottom: "Background Music" (unchecked) and "Visual Effects" (unchecked).

Snow Ball parameters

Before you start to use **Snow Ball** review the following explanation for each parameter:

Activity

- Size: To set size of snow man
- Hold time: To set duration of hold, in seconds
- Task cycle time: To set duration of cycle, in seconds
- Time: To set duration of game, in seconds

Mode

- Automatic: To set automatic mode
- Bimanual: To set manual shooting

Sounds and Effects

- To set sounds for success and failure

Treatment Parameters

Activity

Size		3
Hold time		2 sec
Task cycle time		30 sec
Time		180 sec

Mode

- Automatic
- Bimanual

Sounds and Effects

Primary	Secondary
<input checked="" type="checkbox"/> Success	<input type="checkbox"/> Success
<input type="checkbox"/> Failure	<input type="checkbox"/> Failure
<input type="checkbox"/> Background Music	<input type="checkbox"/> Visual Effects

Sky Defender parameters

Before you start to use **Sky Defender** review the following explanation for each parameter:

Activity

- Time: To set duration of game, in seconds
- Level: To set level of game

Shooting

- Automatic: To set automatic mode
- Manual: To set manual shooting

Range

- Full: To set full range
- Flexion: To set range for flexion move
- Extension: Full: To set range for extension move

Mode

- Game mode: To set game mode

Sounds and Effects

- To set sounds for success and failure

Treatment Parameters

Activity

Time: 180 sec

Level: 1

Shooting

Automatic

Manual

Range

Full

Flexion

Extension

Mode

Game mode

Sounds and Effects

Primary

Success

Failure

Secondary

Success

Failure

Background Music

Visual Effects

Shape sorting parameters

Before you start to use **Shape Sorting** review the following explanation for each parameter:

Activity

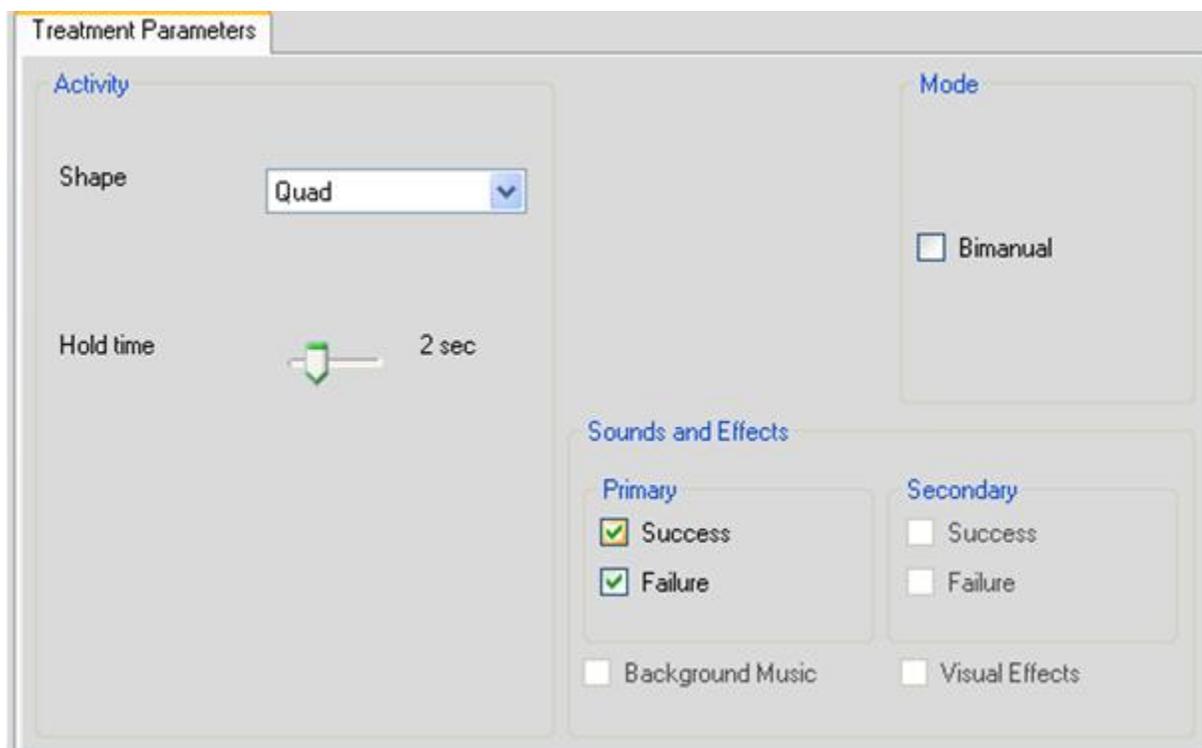
- Shape: To set type of shape
- Hold time: To set duration of hold, in seconds

Mode

- Bimanual: To set manual shooting

Sounds and Effects

- To set sounds for success and failure



Bubbles parameters

Before you start to use **Bubbles** review the following explanation for each parameter:

Activity

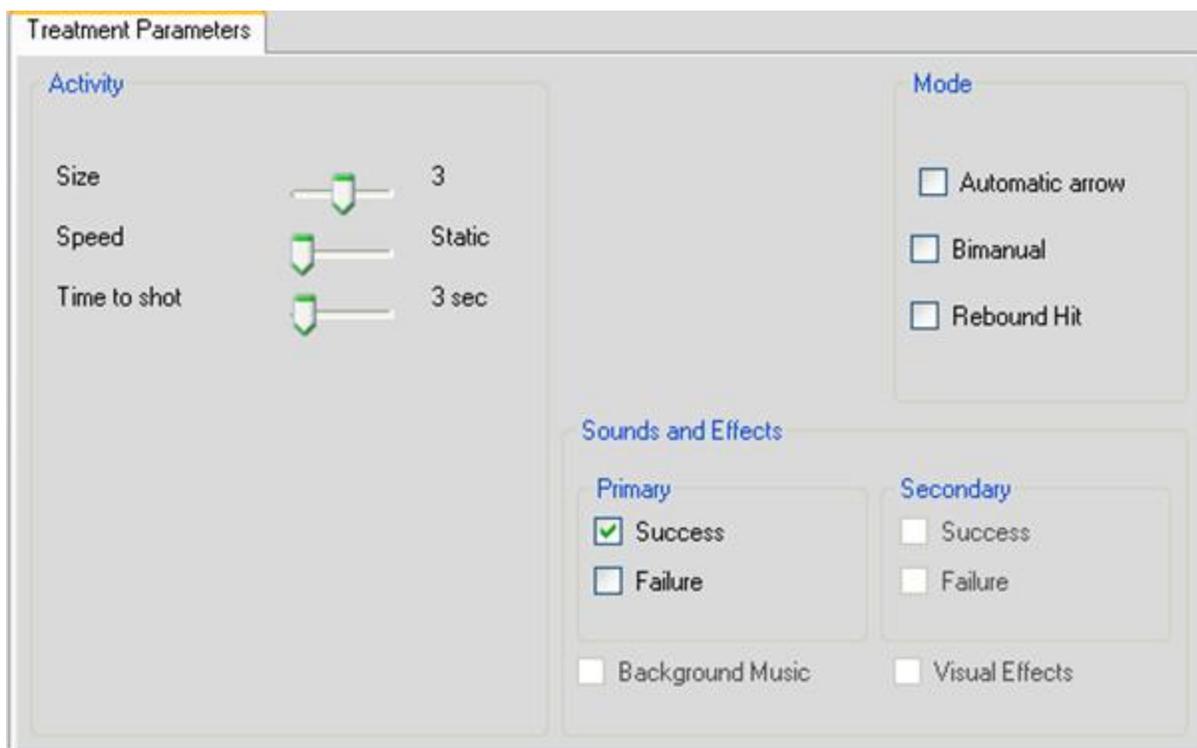
- Size: To set size of bubbles
- Speed: To set speed of falling bubbles, in seconds
- Time to shot: To set cycle of shots, in seconds

Mode

- Automatic arrow: To set auto arrow mode
- Bimanual: To set manual mode
- Rebound Hit: To set rebound mode

Sounds and Effects

- To set sounds for success and failure



Fruit Shop parameters

Before you start to use **Fruit Shop** review the following explanation for each parameter:

Activity

- Size: To set size of target

-
- Hold time: To set duration of hold, in seconds
 - Task cycle time: To set duration of cycle, in seconds
 - Time: To set duration of game, in seconds

Mode

- Automatic arrow: To set automatic game mode

Sounds and Effects

- To set sounds for success and failure

The screenshot shows a software interface for configuring treatment parameters. It is divided into three main sections:

- Activity:** Contains four sliders with green arrowheads. The values are: Size (5), Hold time (2 sec), Task cycle time (3 sec), and Time (5:00).
- Mode:** Contains a single checkbox labeled 'Automatic', which is checked.
- Sounds and Effects:** Contains two sub-sections: 'Primary' and 'Secondary'.
 - Primary:** Has two checked checkboxes for 'Success' and 'Failure'.
 - Secondary:** Has two unchecked checkboxes for 'Success' and 'Failure'.
 - Below these are two more unchecked checkboxes: 'Background Music' and 'Visual Effects'.

Treatment list

All treatments can be operated by HandTutor, ArmTutor, LegTutor and 3DTutor.

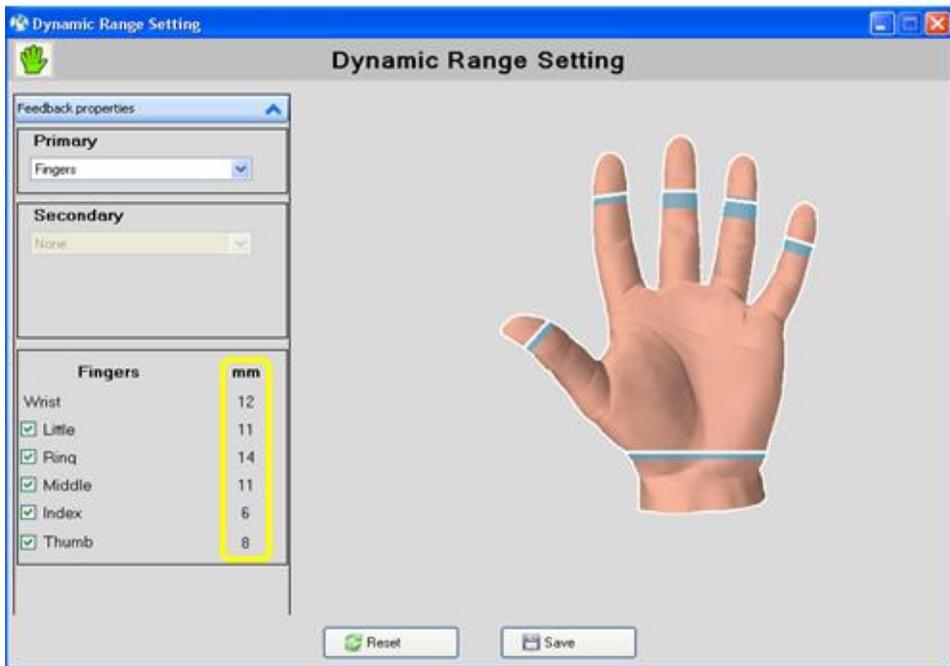
This section will demonstrate how to start a treatment by HandTutor;

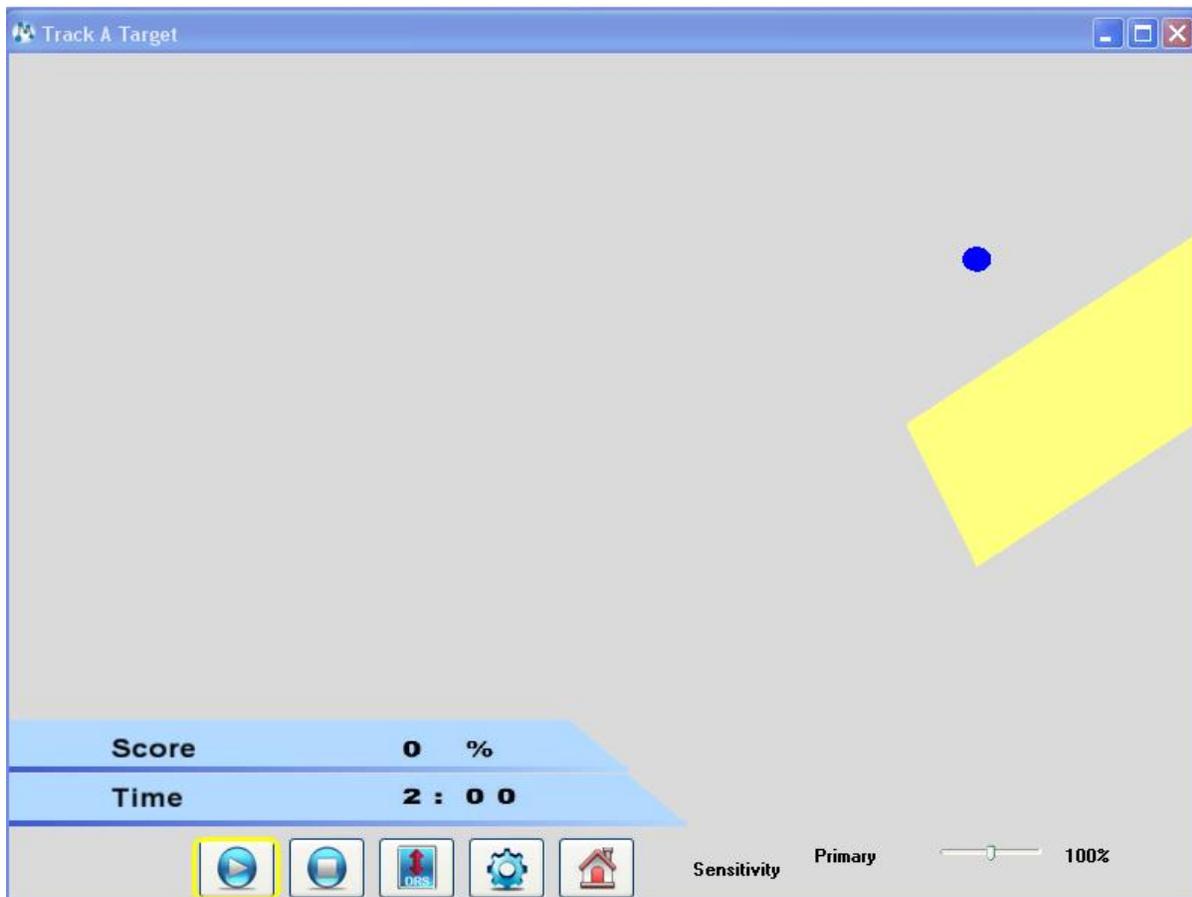
Track a Target

Instructions: Try to keep the ball inside the moving target.

To start **Track a Target** follow the below instructions:

-
- 1- **Connect** HandTutor and **calibrate** it.
 - 2- **Put it on** patient hand
 - 3- Go to Treatments and choose **Track A Target**
 - 4- Choose a **patient**
 - 5- Move HandTutor **to set ROM**
 - 6- Press **Save**
 - 7- **Track A Target** window will appear
 - 8- Press **Play**





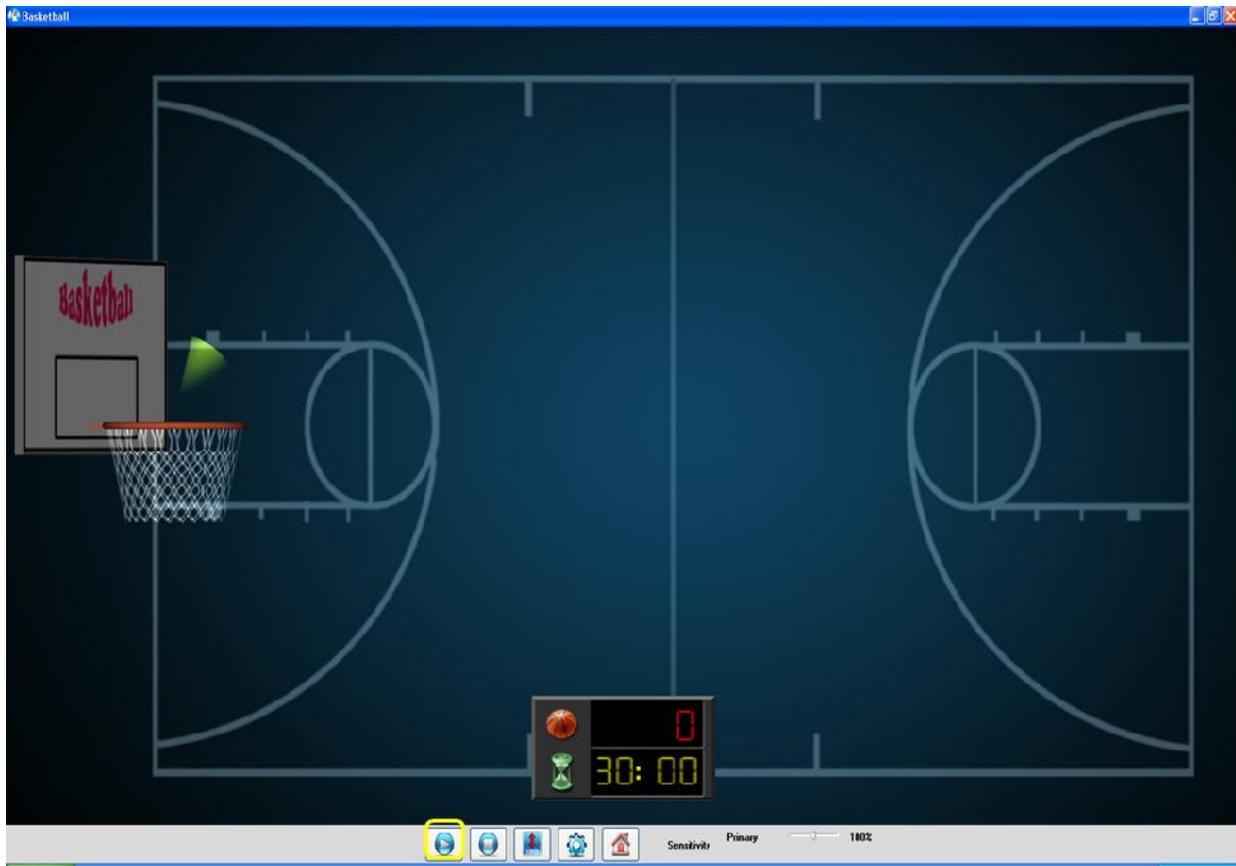
Catch the Ball

Instructions: Try to catch the basketball with the moving basket.

To start **Catch the Ball** follows the below instructions:

- 1- **Connect** HandTutor and **calibrate** it.
- 2- **Put it on** patient hand
- 3- Go to Treatments and choose **Catch The Ball**
- 4- Choose a **patient**
- 5- Move HandTutor **to set ROM**
- 6- Press **Save**
- 7- **Catch The Ball** window will appear
- 8- Press **Play**



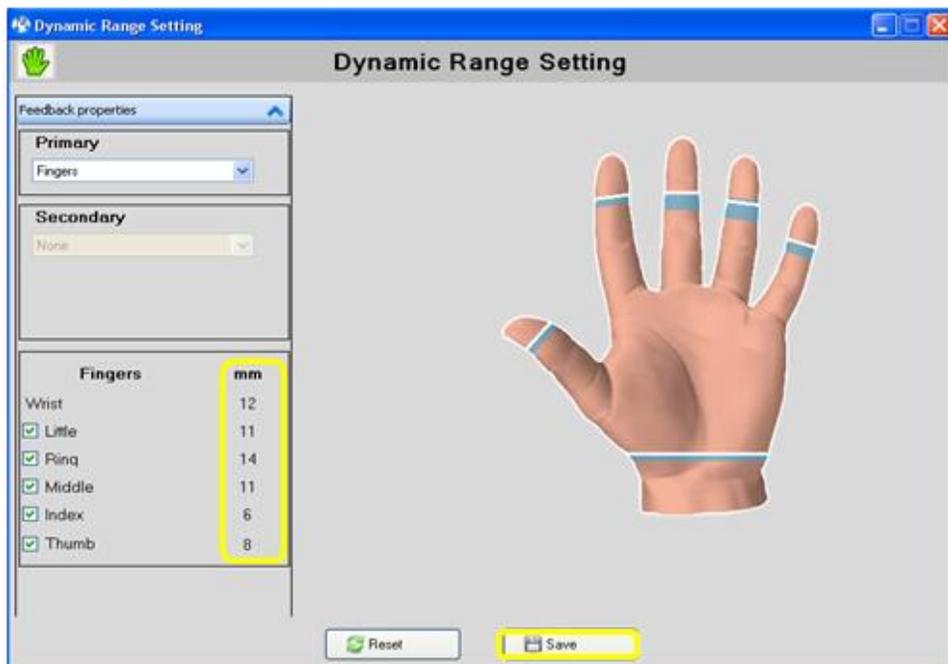


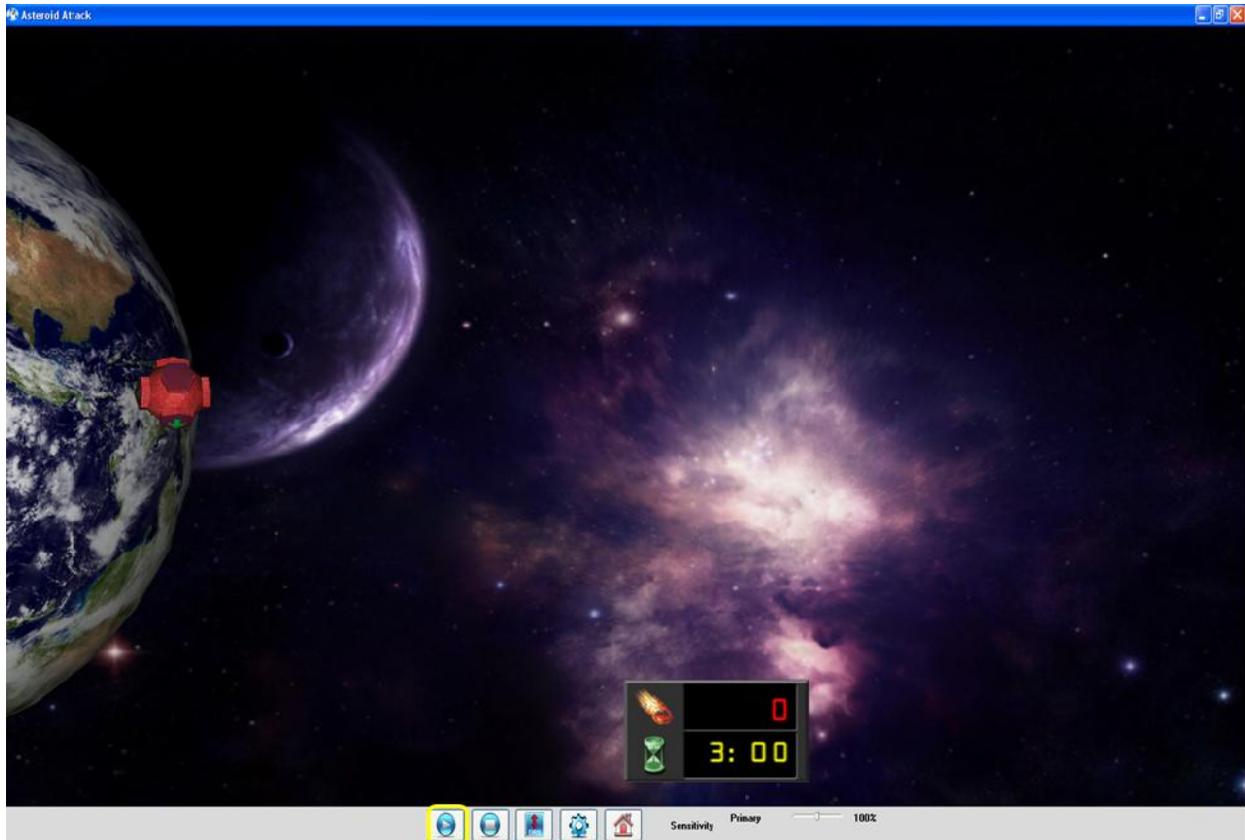
Asteroid Attack

Instructions: Save the earth from falling asteroids.

To start **Asteroid Attack** follow the below instructions:

- 1- **Connect** HandTutor and **calibrate** it.
- 2- **Put it on** patient hand
- 3- Go to Treatments and choose Asteroid Attack
- 4- Choose a **patient**
- 5- Move HandTutor **to set ROM**
- 6- Press **Save**
- 7- **Asteroid Attack** window will appear
- 8- Press **Play**



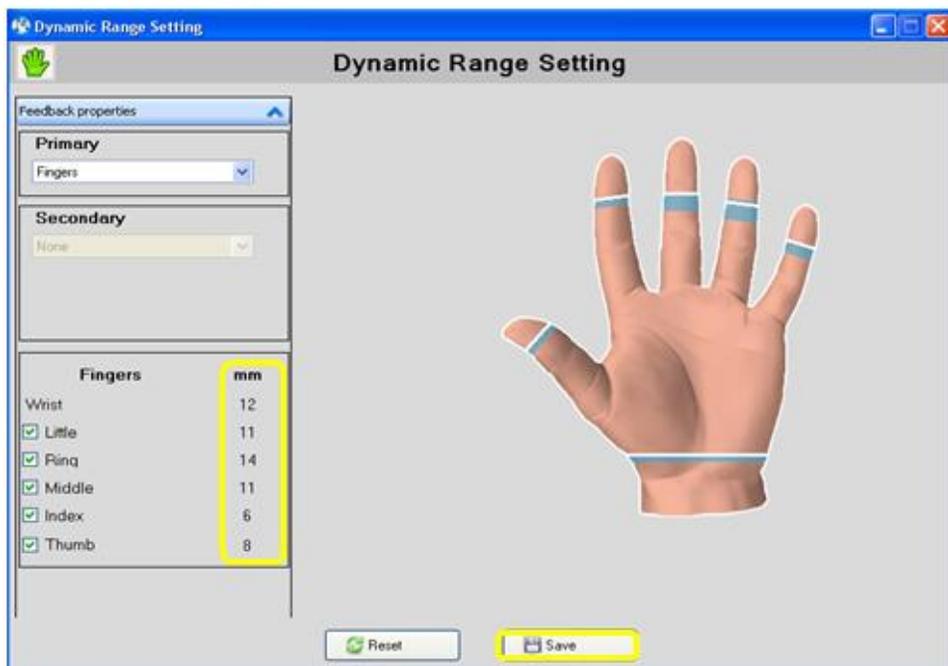


Volley Ball

Instructions: Play beach volley ball.

To start **Volley Ball** follow the below instructions:

- 1- **Connect** HandTutor and **calibrate** it.
- 2- **Put it on** patient hand
- 3- Go to Treatments and choose **Volley Ball**
- 4- Choose a **patient**
- 5- Move HandTutor **to set ROM**
- 6- Press **Save**
- 7- **Volley Ball** window will appear
- 8- Press **Play**



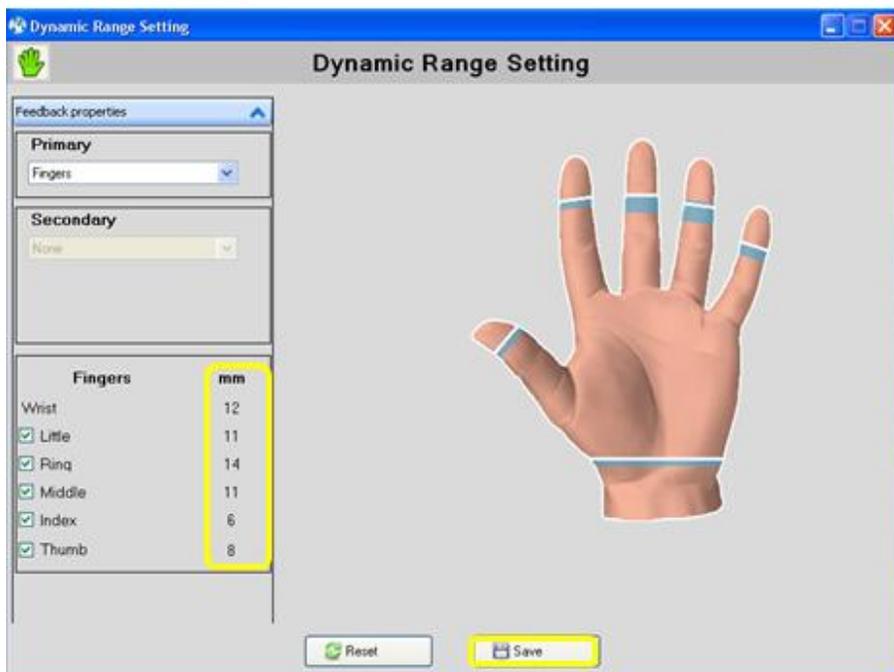


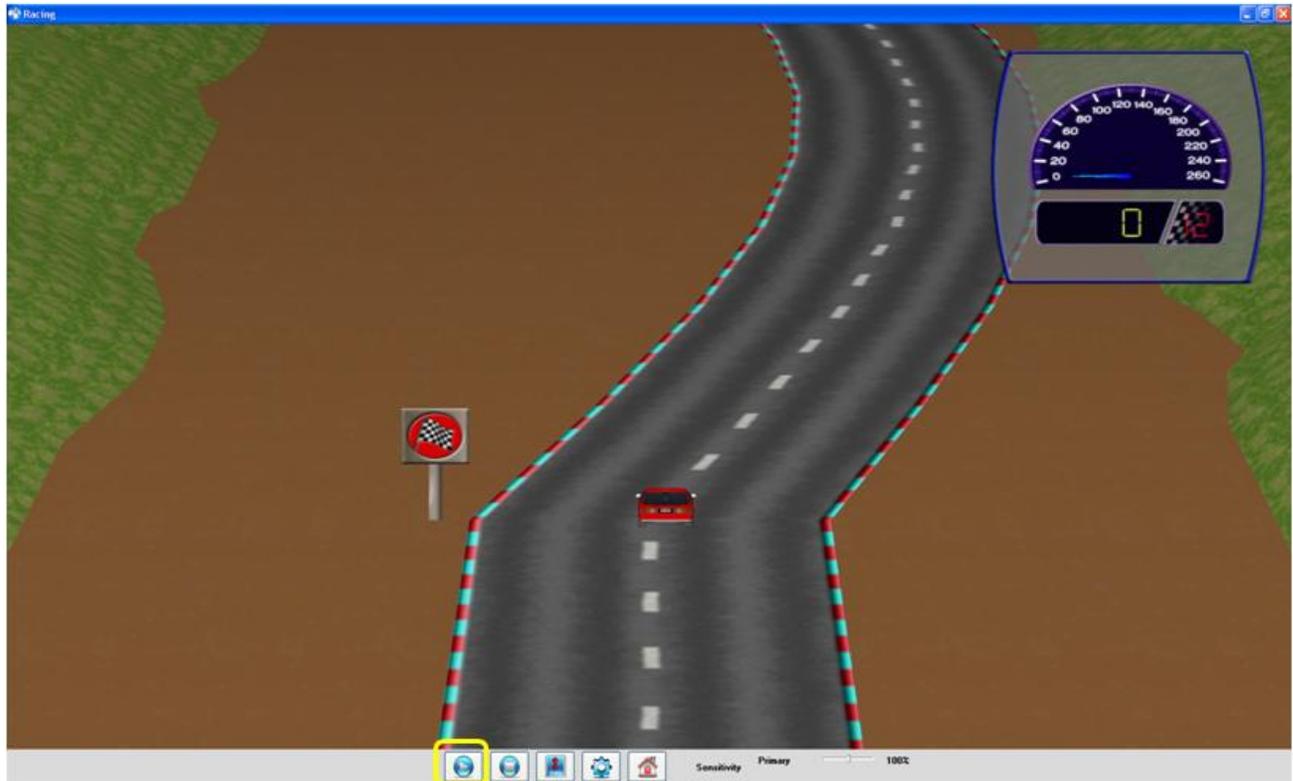
Racing

Instructions: Keep the car on the road until the finish line

To start **Racing** follow the below instructions:

- 1- **Connect** HandTutor and **calibrate** it.
- 2- **Put it on** patient hand
- 3- Go to Treatments and choose **Racing**
- 4- Choose a **patient**
- 5- Move HandTutor **to set ROM**
- 6- Press **Save**
- 7- **Racing** window will appear
- 8- Press **Play**



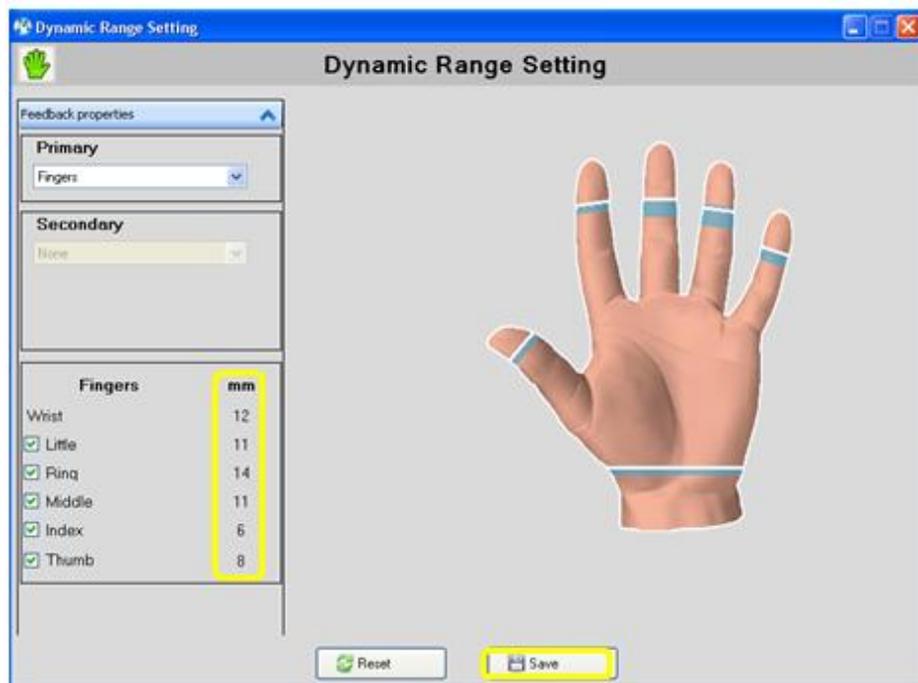


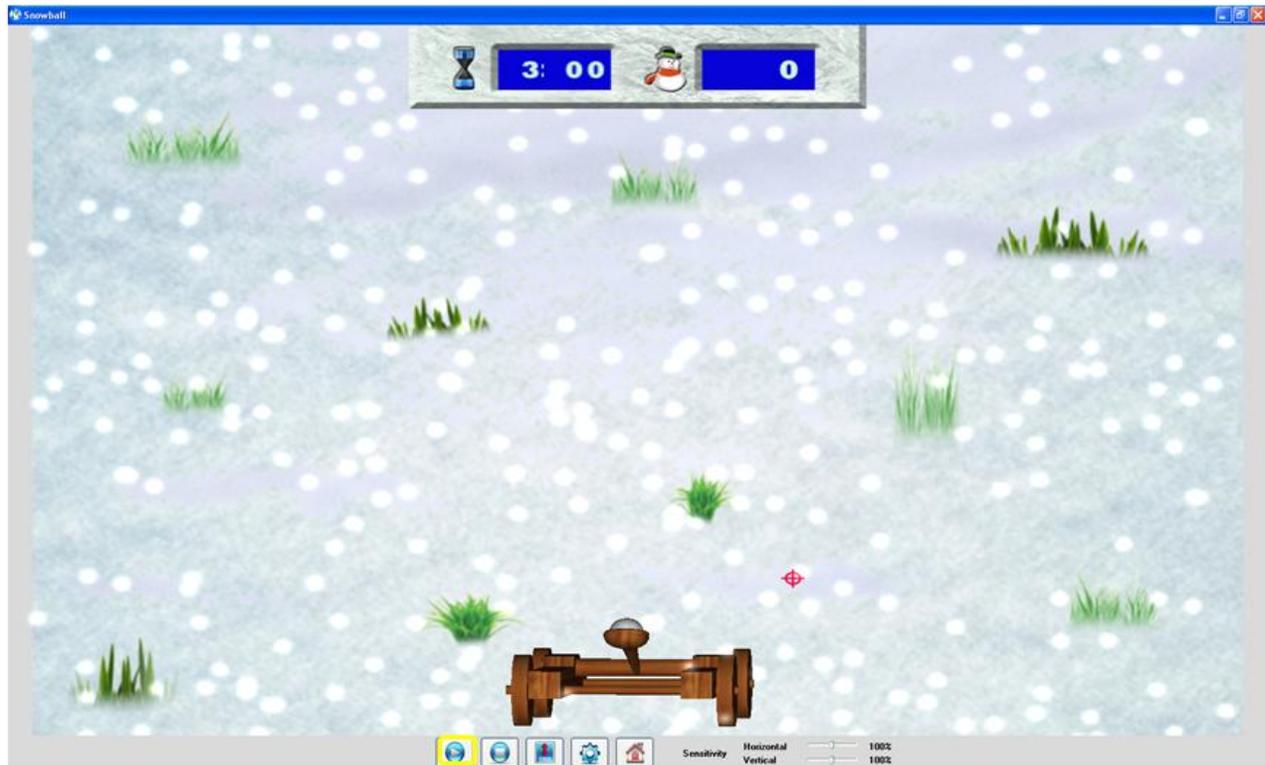
Snow Ball

Instructions: Raise your finger(s) or wrist to aim the snowball at the snowman.

To start **Snow Ball** follow the below instructions:

- 1- **Connect** HandTutor and **calibrate** it.
- 2- **Put it on** patient hand
- 3- Go to Treatments and choose **Snow Ball**
- 4- Choose a **patient**
- 5- Move HandTutor **to set ROM**
- 6- Press **Save**
- 7- **Snow Ball** window will appear
- 8- Press **Play**



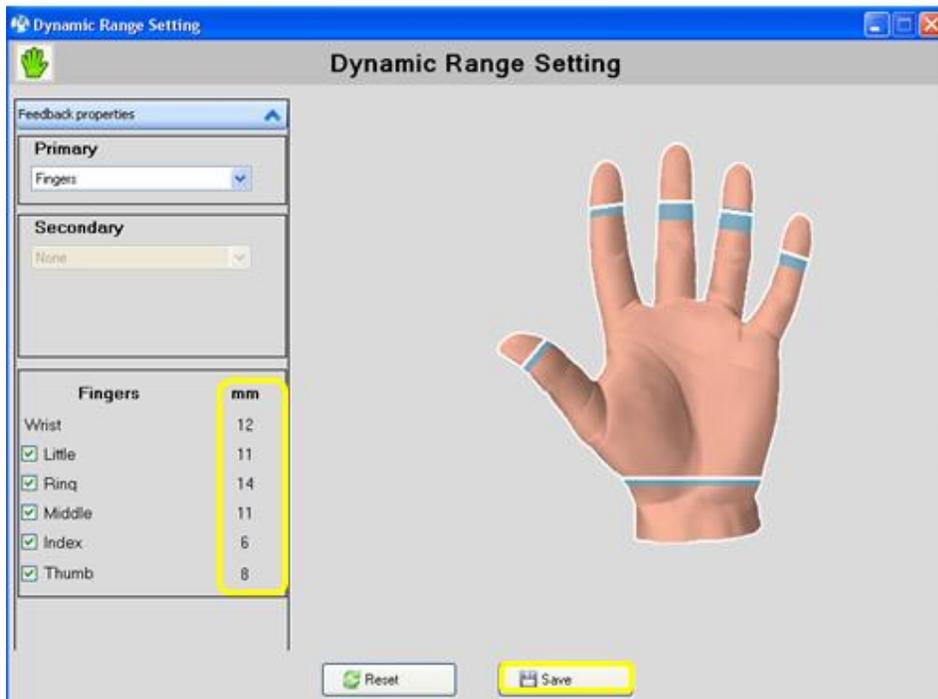


Sky Defender

Instructions: Play spaceship war, eliminate all enemies

To start **Sky Defender** follow the below instructions:

- 1- **Connect** HandTutor and **calibrate** it.
- 2- **Put it on** patient hand
- 3- Go to Treatments and choose **Sky Defender**
- 4- Choose a **patient**
- 5- Move HandTutor **to set ROM**
- 6- Press **Save**
- 7- **Sky Defender** window will appear
- 8- Press **Play**



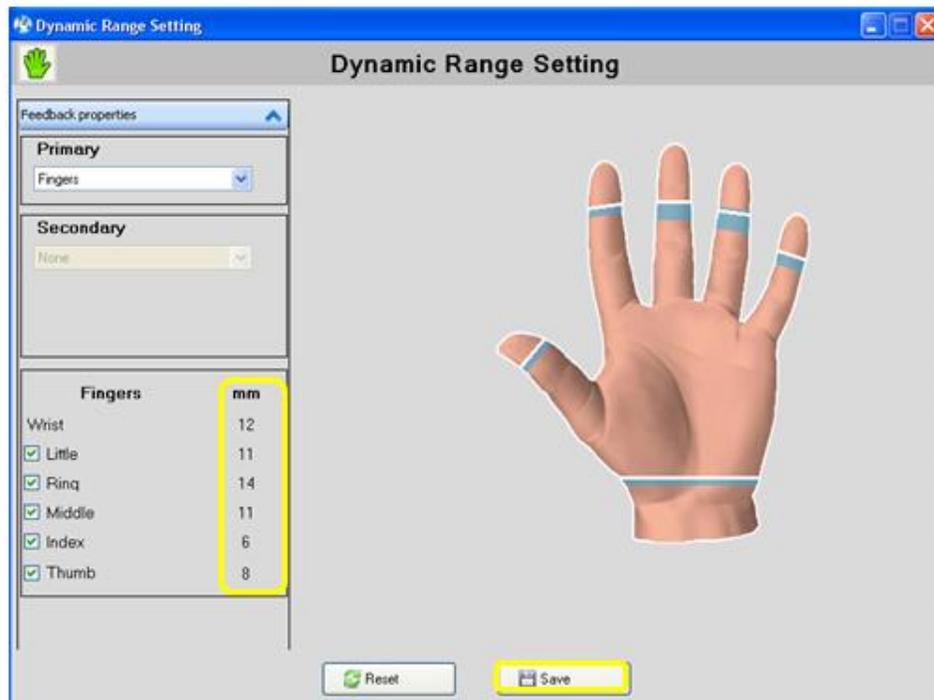


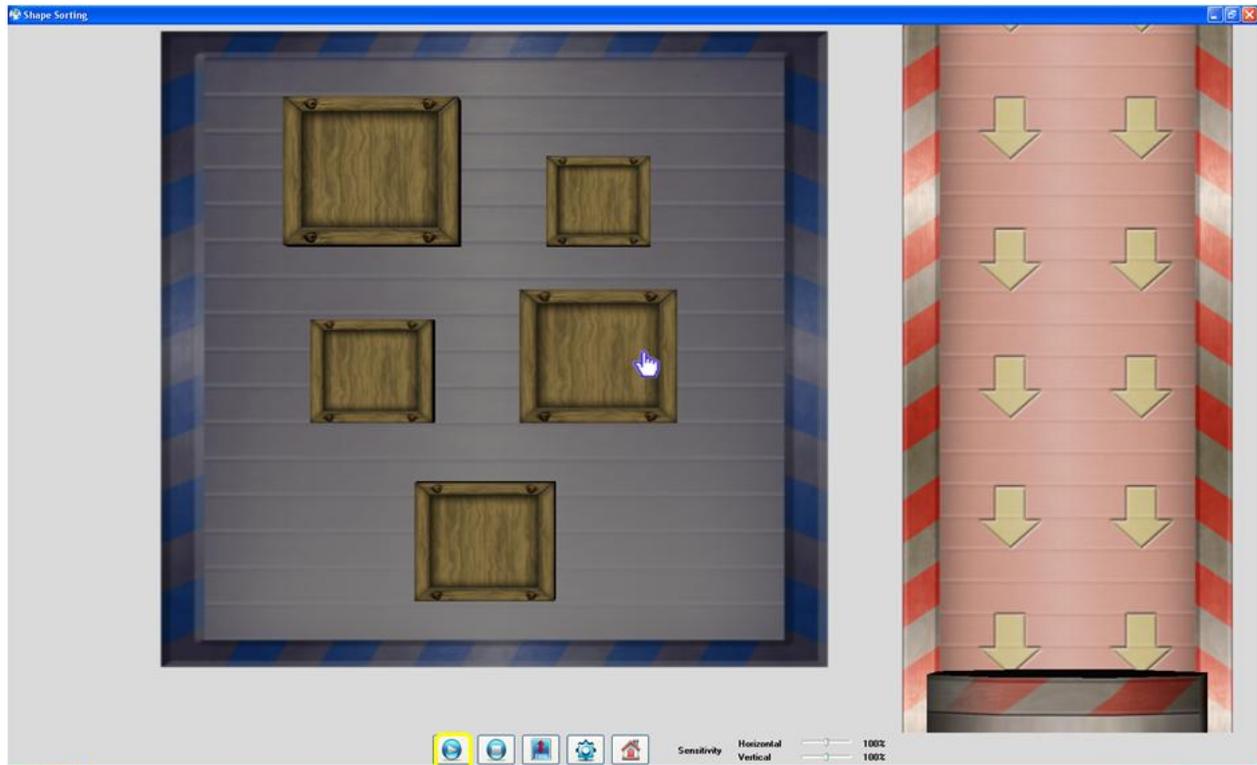
Shape sorting

Instructions: Sort the objects according to their size

To start **Shape Sorting** follow the below instructions:

- 1- **Connect** HandTutor and **calibrate** it.
- 2- **Put it on** patient hand
- 3- Go to Treatments and choose **Shape Sorting**
- 4- Choose a **patient**
- 5- Move HandTutor **to set ROM**
- 6- Press **Save**
- 7- **Shape Sorting** window will appear
- 8- Press **Play**



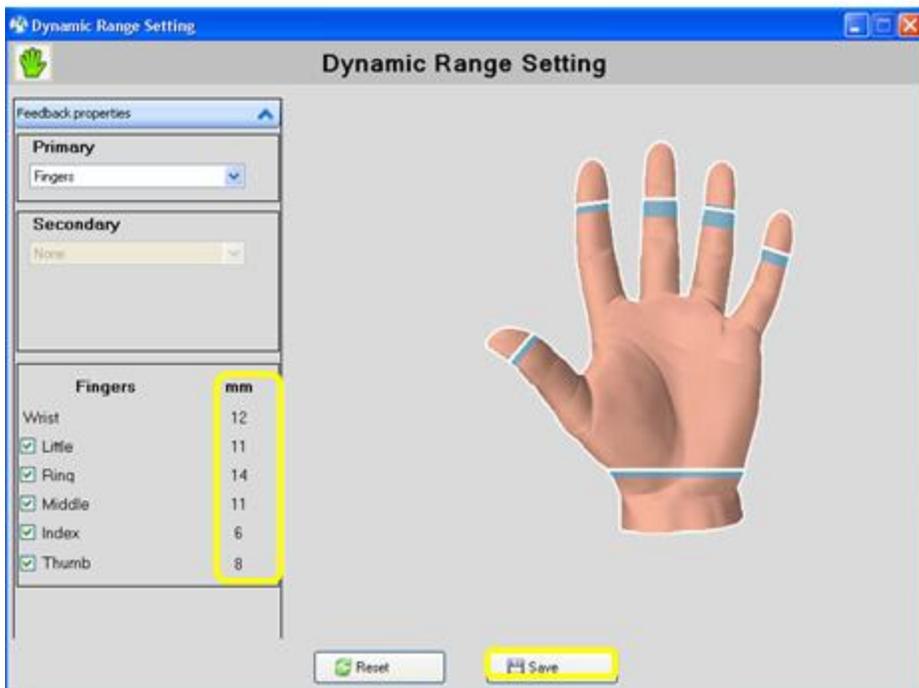


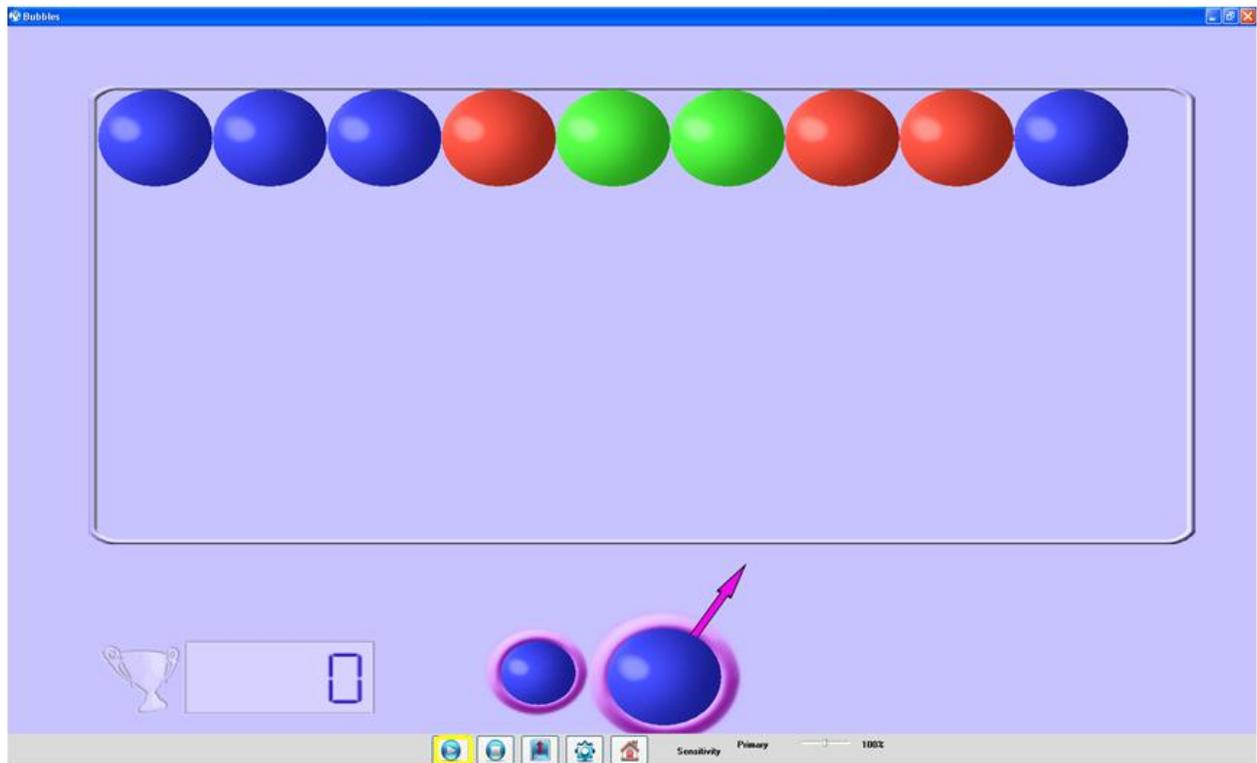
Bubbles

Instructions: Raise your finger(s) or wrist to aim the arrow at the bubbles.

To start **Bubbles** follow the below instructions:

- 1- **Connect** HandTutor and **calibrate** it.
- 2- **Put it on** patient hand
- 3- Go to Treatments and choose **Bubbles**
- 4- Choose a **patient**
- 5- Move HandTutor **to set ROM**
- 6- Press **Save**
- 7- **Bubbles** window will appear
- 8- Press **Play**



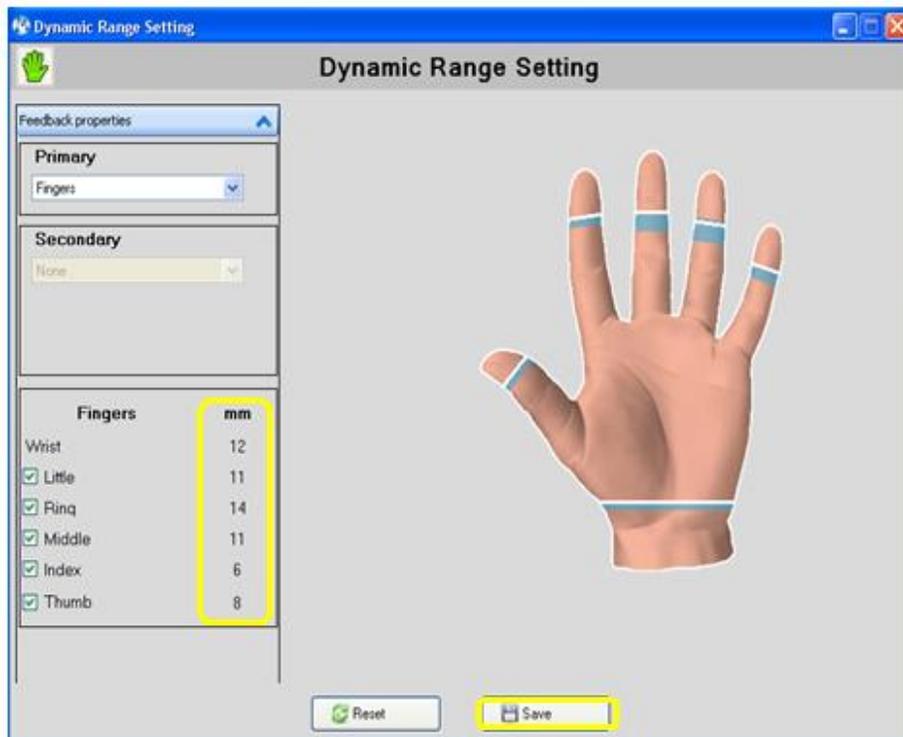


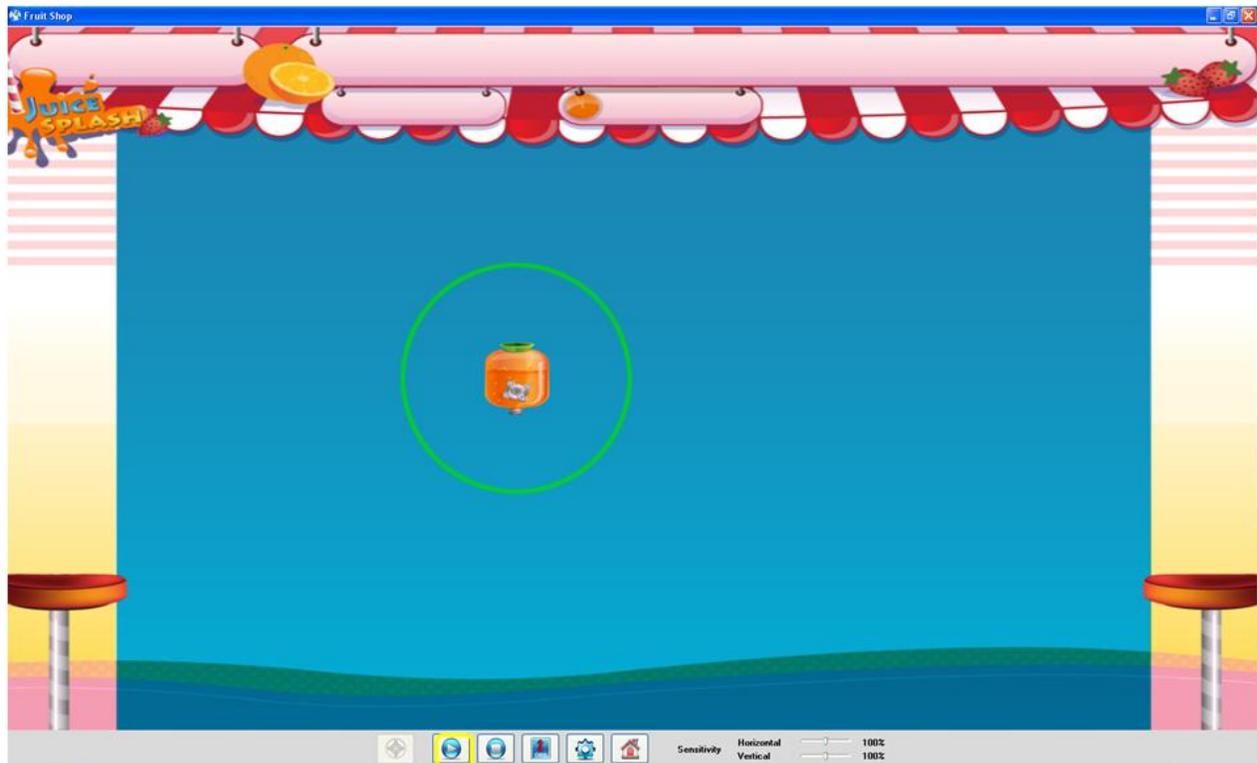
Fruit Shop

Instructions: Pour Fruit Juice to angry customer

To start **Fruit Shop** follow the below instructions:

- 1- **Connect** HandTutor and **calibrate** it.
- 2- **Put it on** patient hand
- 3- Go to Treatments and choose **Fruit Shop**
- 4- Choose a **patient**
- 5- Move HandTutor **to set ROM**
- 6- Press **Save**
- 7- **Fruit Shop** window will appear
- 8- Set **Location of Target** and press **Play**





Impairments

MediTutor™ allows filtering the list by selected impairments:

To impairments list follow the below instructions:

- 1- **Login** to MediTutor
- 2- Go to **Treatments**
- 3- Press on **Impairments** button to open list
- 4- Select any type of Impairment
- 5- Press again on **Impairments** button to close list



Treatment Sessions Log

Treatments sessions are saved to database and cannot be deleted.

How to save treatment session

- 1- Start any **treatment**
- 2- Play **until end** of treatment or press Stop **after 15 seconds**
- 3- **Save Treatment Session** will appear
- 4- If you desire to save it as patient default then mark **Save as default**
- 5- Enter **settings name**
- 6- Choose **setting group name**
- 7- You may enter a comment
- 8- Press **Save**.

The screenshot shows a Windows-style dialog box titled "Save Treatment Session". It is divided into two main sections: "Session Information" and "Setting Information".

Session Information:

Treatment Name :	TrackATarget
Score :	0
Duration :	25
Start Time :	12:07 PM
End Time :	12:08 PM
Setting Name :	Treatment Setting [2011-12-14 12:07:34]

Setting Information:

- Save Setting
- Setting Name:
- Setting Folder Name:

Comment:

Buttons: Cancel, Save

How to open sessions log

- 1- Go to **Treatments**
- 2- Press on **Sessions Log** button
- 3- Choose a session to see **summary**, **treatment setting details** and **DRS details**

The screenshot shows the 'Sessions Log' for patient Smith David. The table below lists the sessions:

#	ID	Treatment Name	Start Time	End Time	Duration	Score	Used Setting	Comment	Used Devices
41	41	Bubbles	10/31/2011 12:4...	10/31/2011 12:4...	31	0	203		
60	60	Basketball	11/16/2011 1:41...	11/16/2011 1:41...	29	3	321		HT100
61	61	Snowball	11/16/2011 1:59...	11/16/2011 2:00...	19	30	322		HT100
62	62	Track A Target	12/14/2011 1:28...	12/14/2011 1:28...	34	23	326		HT100

The 'Session Summary' panel for session 62 shows:

- Treatment Name: Track A Target
- Session Date: 12/14/2011 1:28:04 PM
- Used Devices: HT100
- Comment: (empty)

The 'Treatment Setting Details' panel shows a list of parameters with checkboxes and values:

Parameter Name	Parameter Val.
<input type="checkbox"/> Automatic	False
<input type="checkbox"/> Primary AudioFailure	True
<input type="checkbox"/> Primary AudioSuccess	False
<input type="checkbox"/> Primary Range	Full
<input type="checkbox"/> Primary AudioFailure	False
<input type="checkbox"/> Primary AudioSuccess	False
<input type="checkbox"/> numRounds	1

The 'Dynamic Range Setting' panel shows settings for device HT100:

DeviceName	Part Name	Value
HT100	Little	14 mm
	Ring	8 mm
	Wrist	15 mm
	Thumb	9 mm
	Index	5 mm
	Middle	9 mm

How to export sessions log

- 1- Verify **an Excel** is installed on your computer
- 2- Open **Treatments Sessions Log**
- 3- Press on **Export**
- 4- The results appear on **excel file**

Treatments Sessions Log - Patient:Smith David [112233455]

View Setting Export

#	ID	Treatment Name	Start Time	End Time	Duration	Score	Used Setting	Comment	Used Devices
41	41	Bubbles	10/31/2011 12:4...	10/31/2011 12:4...	31	0	203		
60	60	Basketball	11/16/2011 1:41...	11/16/2011 1:41...	29	3	321		HT100
61	61	Snowball	11/16/2011 1:59...	11/16/2011 2:00...	19	30	322		HT100
▶	62	Track A Target	12/14/2011 1:28...	12/14/2011 1:28...	34	23	326		HT100

Export

Open Created File On Finish

Export Treatment Setting Data

Export Dynamic Range Setting

Cancel Export

Session Summary Treatment Setting Details Dynamic Range Setting

Treatment Name: Track A Target
 Session Date: 12/14/2011 1:28:04 PM
 Used Devices: HT100

Comment :
 =====

Parameter Name	Parameter Va
<input type="checkbox"/> Automatic	False
<input type="checkbox"/> Primary AudioFailure	True
<input type="checkbox"/> Primary AudioSuccess	False
<input type="checkbox"/> Primary Range	Full
<input type="checkbox"/> Primary AudioFailure	False
<input type="checkbox"/> Primary AudioSuccess	False
<input type="checkbox"/> numRounds	1
<input type="checkbox"/> numTimeBottom	5

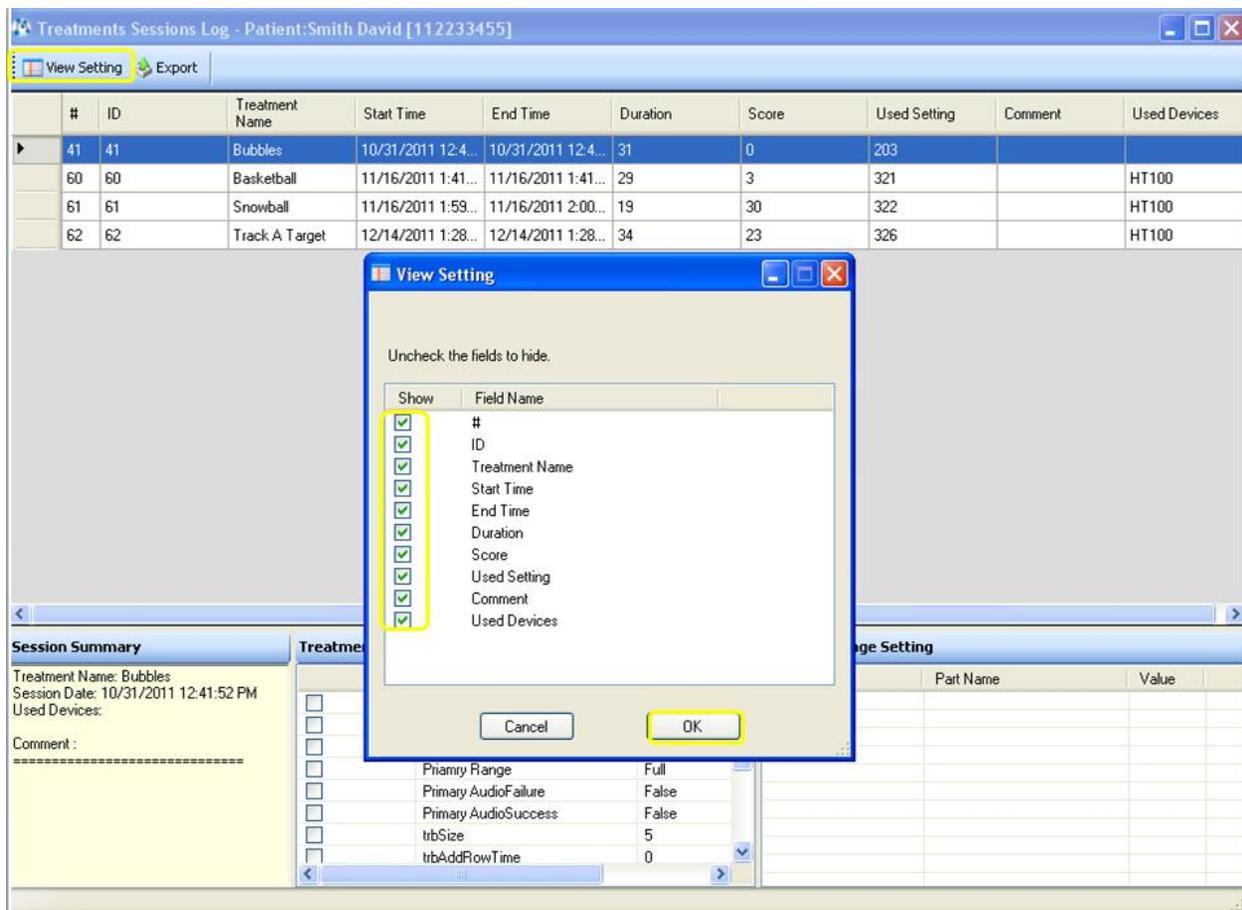
DeviceName	Part Name	Value
HT100	Little	14 mm
	Ring	8 mm
	Wrist	15 mm
	Thumb	9 mm
	Index	5 mm
	Middle	9 mm

The screenshot shows the Microsoft Excel interface with the following data in the spreadsheet:

#	id	treatmen	startTime	endTime	sessionDi	score	usedSetti	comment	usedDevi	Li
2	41	41 Bubbles	10/31/2011 12:41	10/31/2011 12:42	31	0	203			
3	60	60 Basketball	11/16/2011 13:41	11/16/2011 13:41	29	3	321		HT100	
4	61	61 Snowball	11/16/2011 13:59	11/16/2011 14:00	19	30	322		HT100	
5	62	62 Track A Ta	12/14/2011 13:28	12/14/2011 13:28	34	23	326		HT100	

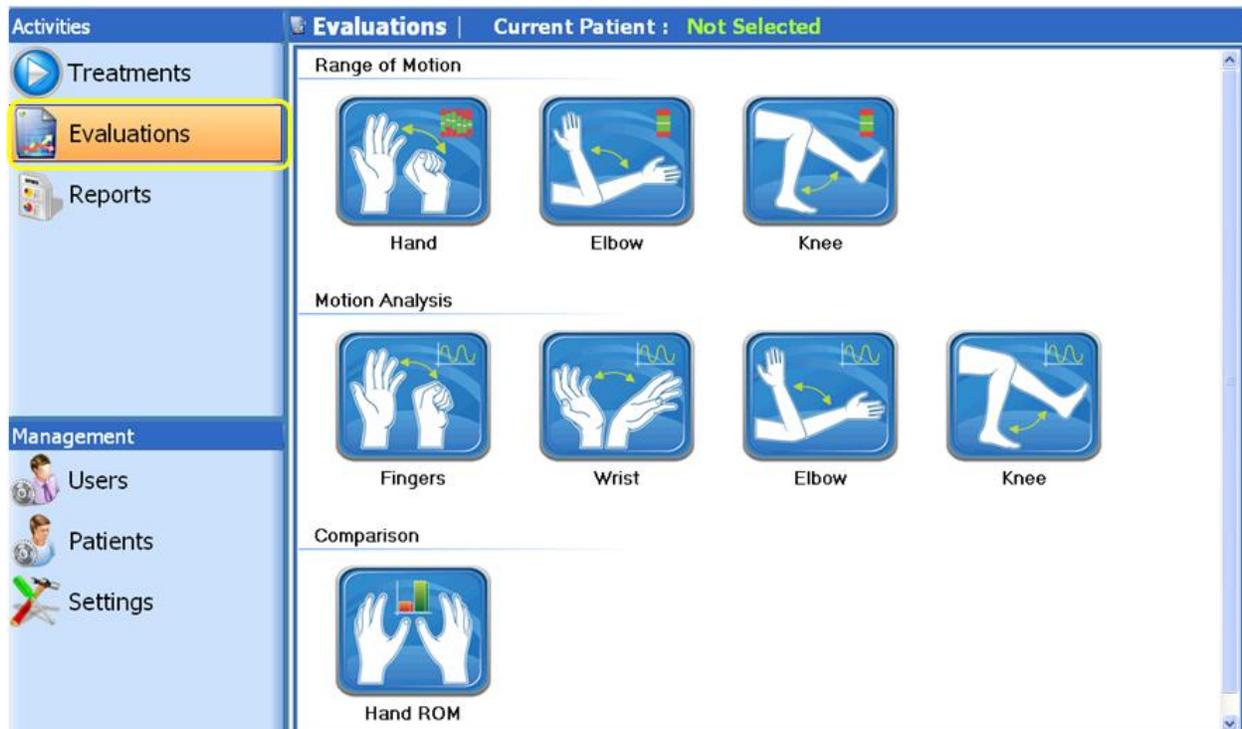
How to change view setting

- 1- Open **Treatments Sessions Log**
- 2- Press on **View Setting**
- 3- Mark **Show**, the fields you preferred to see
- 4- Press **OK**



Activities – Evaluations

MediTutor™ allows the evaluation of the patients biomechanical and kinematics' limb performance. Proper evaluation of these parameters allows the therapist to better understand the patient's limb impairment and customize a rehabilitation program that will lead to improvement in movement function. Access to the Evaluation list is facilitated by clicking on the **Evaluations** button on the below menu found on the introductory software window.



Evaluations types

The MediTutor™ software has been designed to produce evaluations for HandTutor, ArmTutor and LegTutor:

HandTutor

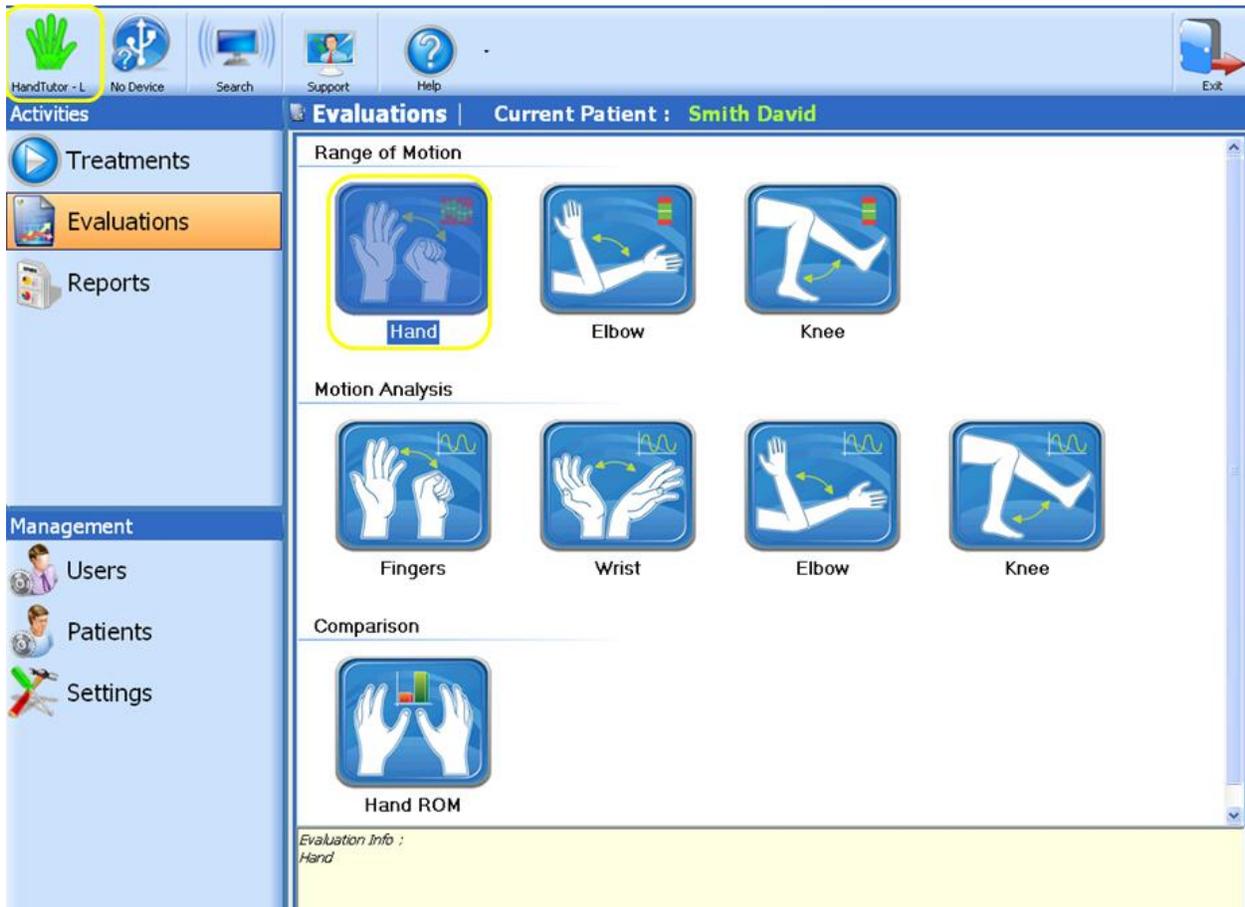
Hand ROM

The Range of Motion (ROM) evaluation option is designed to evaluate both total passive ROM of fingers and wrist joint and Active ROM of fingers and wrist joint relatively to passive ROM.

To start **Hand ROM** evaluation follows instructions:

- 1- **Connect** HandTutor and **calibrate** it.
- 2- **Put it on** patient hand
- 3- Go to **Evaluations**
- 4- Press on **Hand ROM** evaluation
- 5- **Hand ROM** window will appear
- 6- Take **Passive** ROM

- 7- Take **Active ROM**
- 8- Press **Stop** to restart evaluation or to save it
- 9- Press **Save**
- 10- You can press **Show** or **Accumulated** to see single or Accumulated report respectively



Hand ROM Evaluation

Name: David Smith
Date: 12/20/2011

Hand ROM Evaluation




Finger	Active vs. Passive [mm]	Active Extension Deficit [mm]	Active Flexion Deficit [mm]
Wrist	0 / 11	0	0
Little	0 / 5	0	0
Ring	0 / 6	0	0
Middle	0 / 4	0	0
Index	0 / 4	0	0
Thumb	0 / 3	0	0

Passive ROM

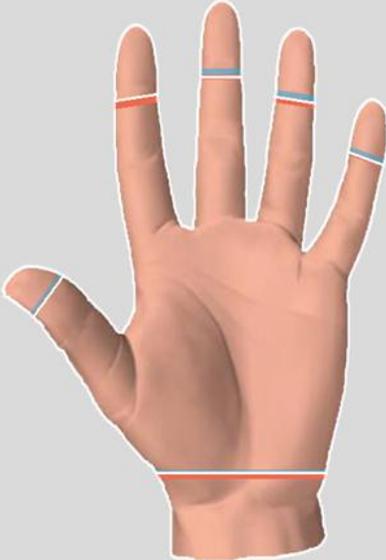
Action:

Report:

Hand ROM Evaluation

Name: David Smith
Date: 12/20/2011

Hand ROM Evaluation

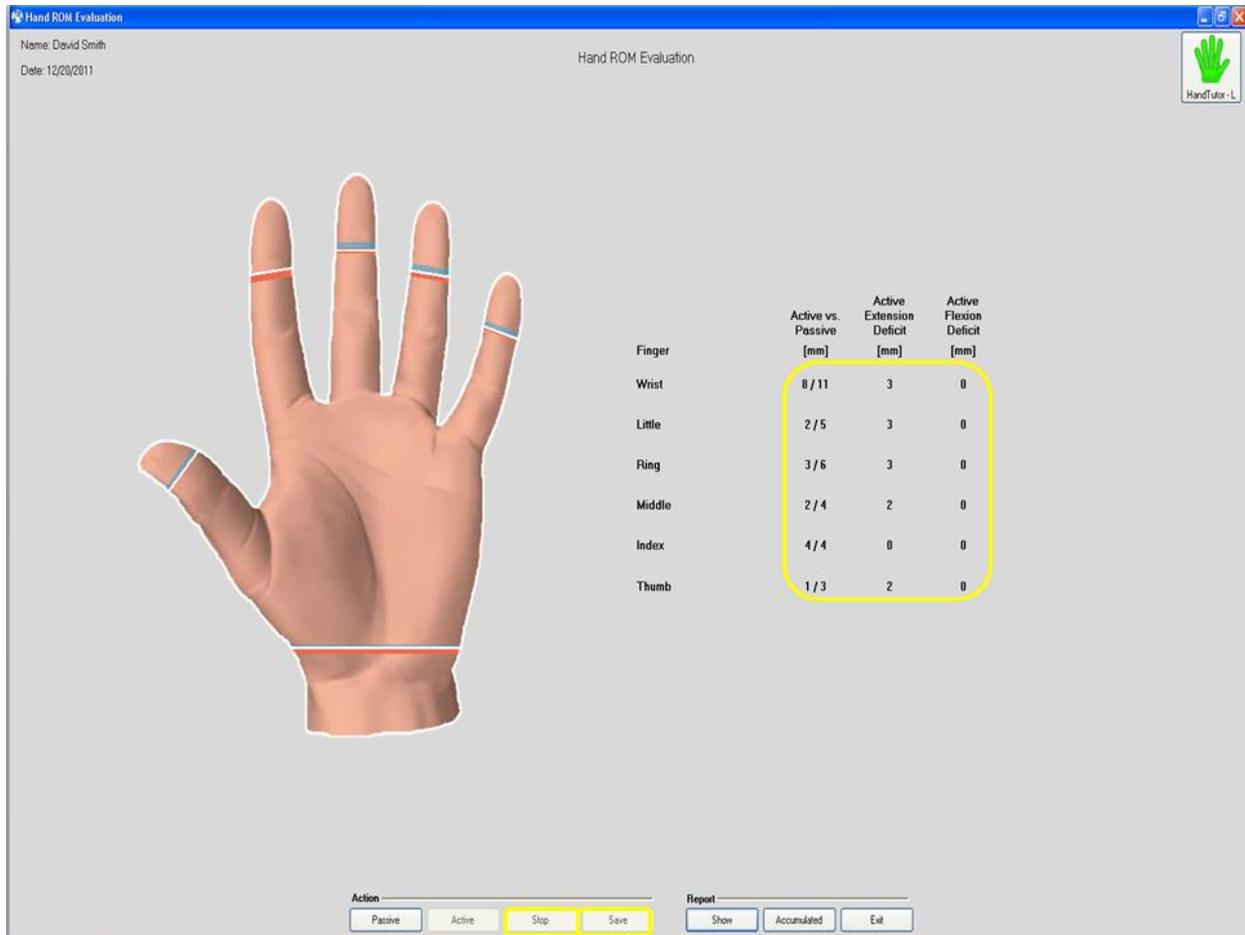



Finger	Active vs. Passive [mm]	Active Extension Deficit [mm]	Active Flexion Deficit [mm]
Wrist	8 / 11	3	0
Little	2 / 5	3	0
Ring	3 / 6	3	0
Middle	2 / 4	2	0
Index	4 / 4	0	0
Thumb	1 / 3	2	0

Active ROM

Action:

Report:



Finger Motion Analysis

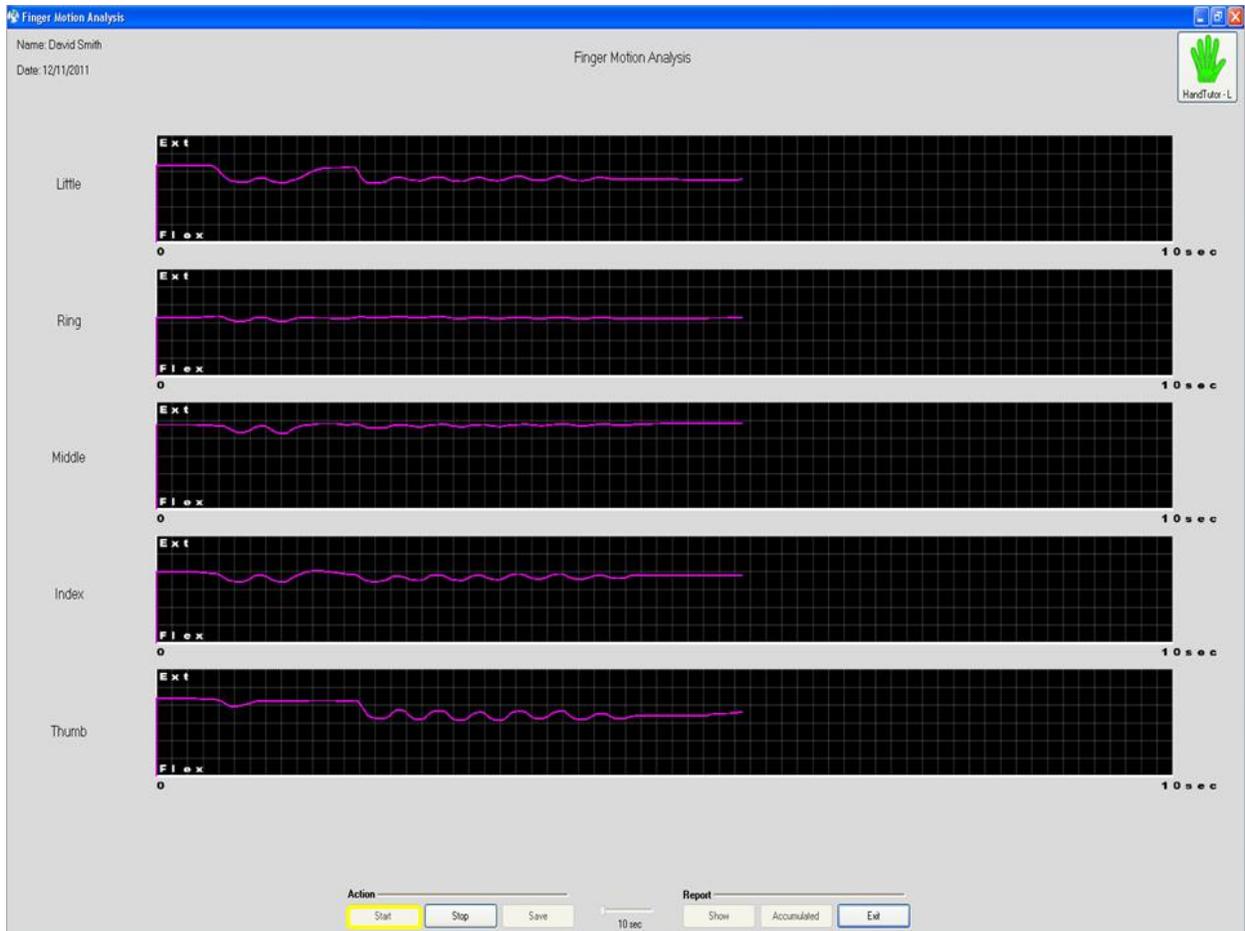
The Finger Motion Analysis option is designed to evaluate cyclical extension and contraction movements of the fingers. To start **Finger Motion Analysis** evaluation follows instructions:

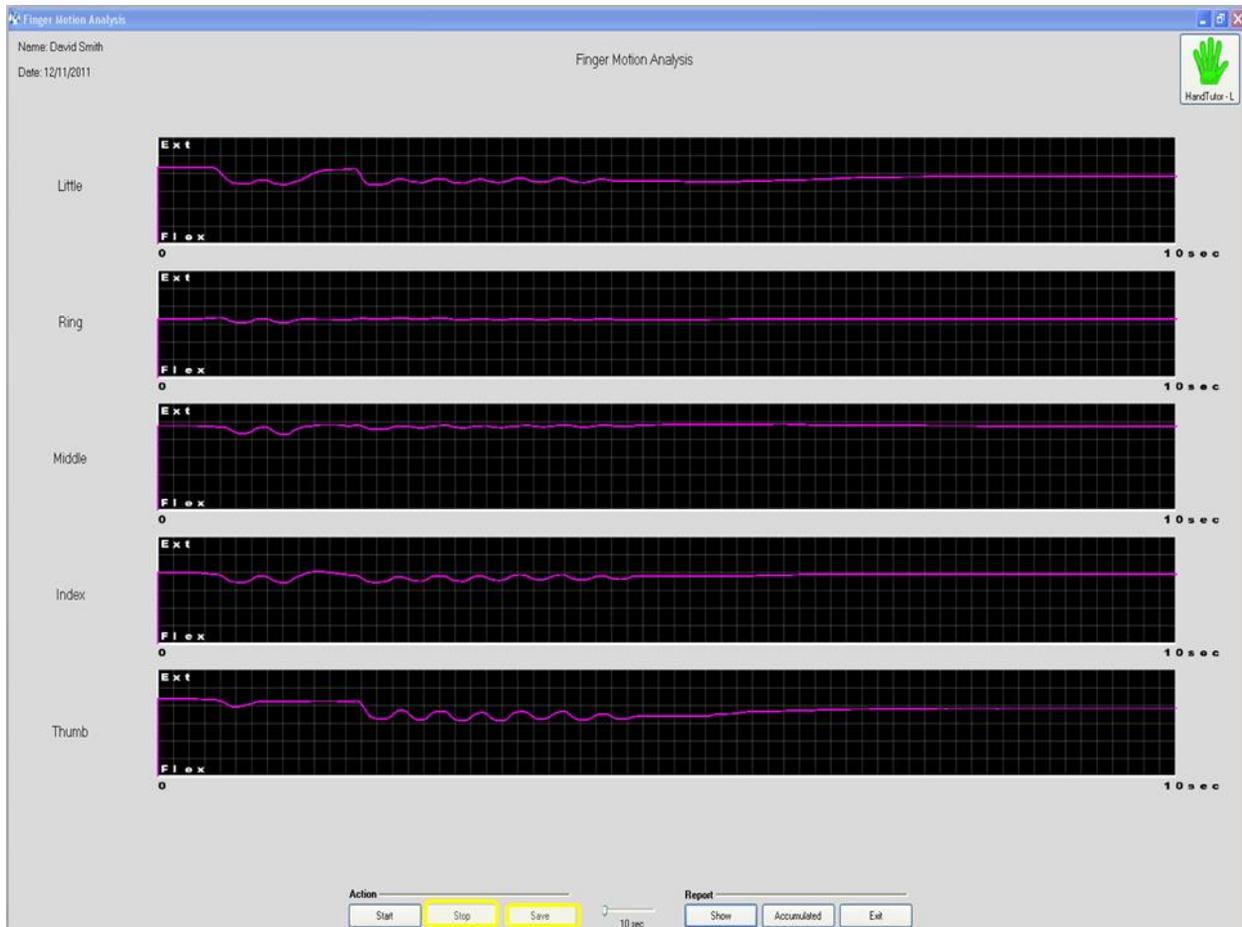
- 1- **Connect** HandTutor and **calibrate** it.
- 2- **Put it on** patient hand
- 3- Go to **Evaluations**
- 4- Press on **Finger Motion Analysis** evaluation
- 5- **Finger Motion Analysis** window will appear
- 6- Choose evaluation time between 10 to 30 seconds
- 7- Press **Start**
- 8- Press **Stop** to restart evaluation or to save it

9- When finish to run press **Save**

10- You can press **Show** or **Accumulated** to see single or Accumulated report respectively







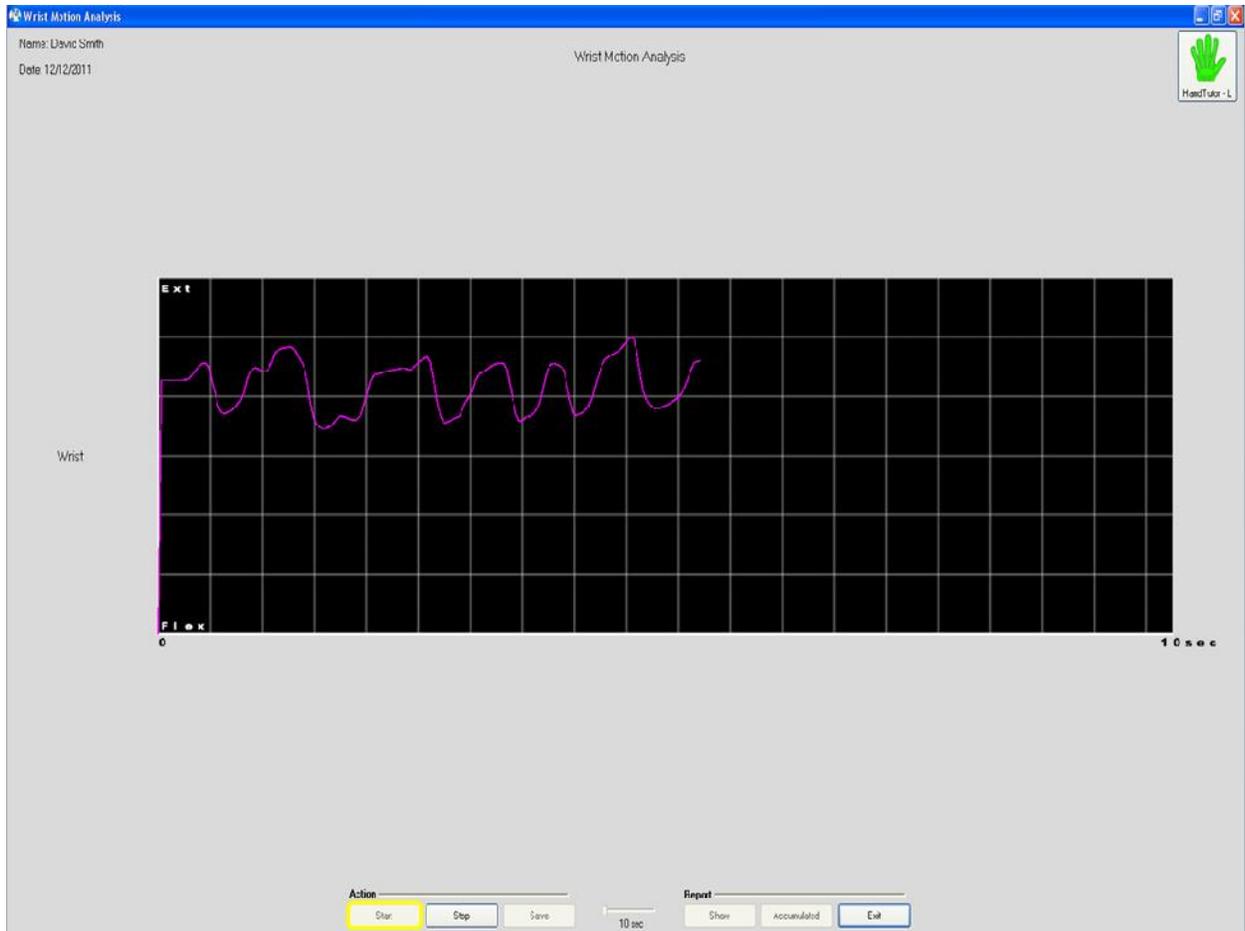
Wrist Motion Analysis

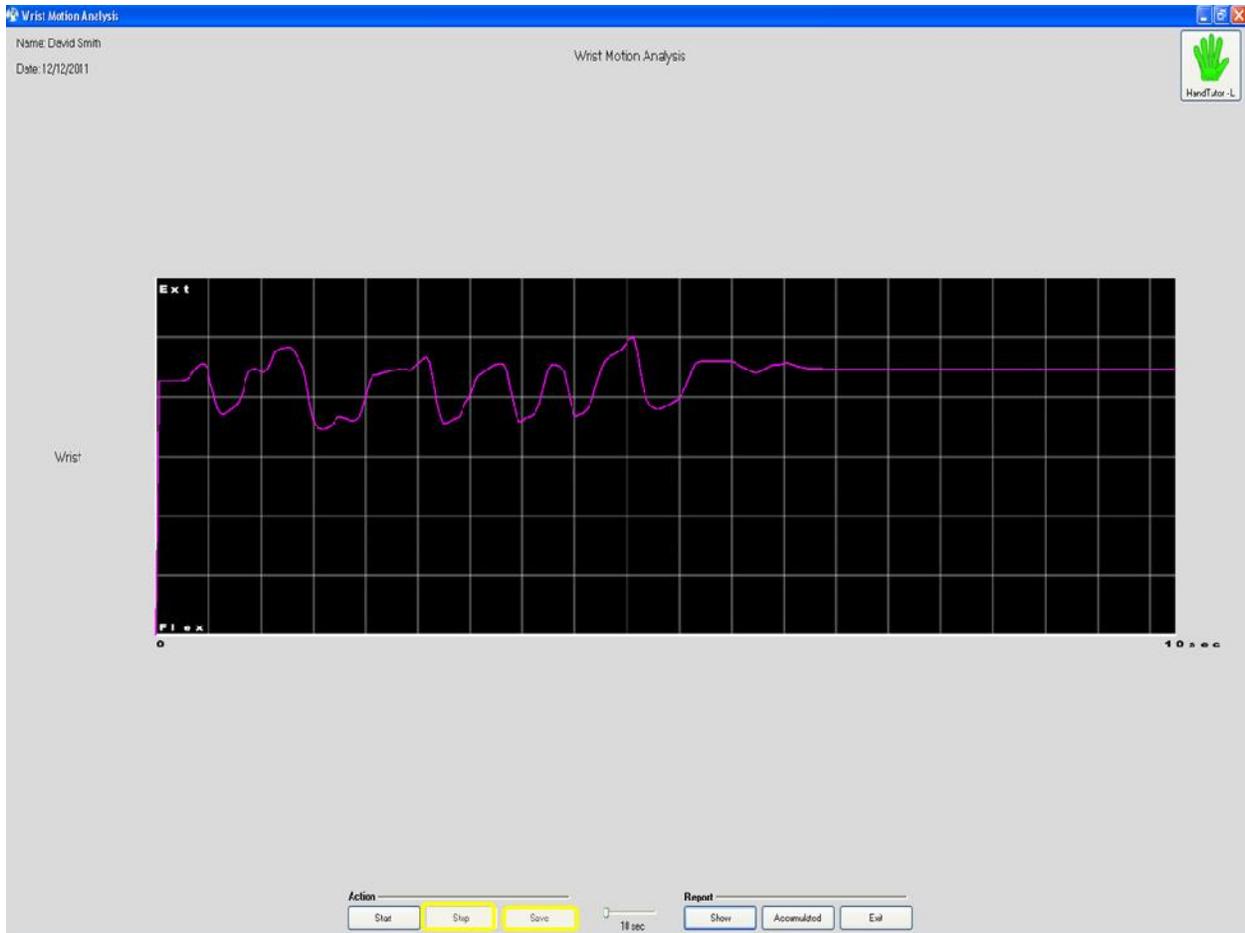
The Wrist Motion Analysis option is designed to evaluate cyclical extension and contraction movements of the wrist. To start **Wrist Motion Analysis** evaluation follows instructions:

- 1- **Connect** HandTutor and **calibrate** it.
- 2- **Put it on** patient hand
- 3- Go to **Evaluations**
- 4- Press on **Wrist Motion Analysis** evaluation
- 5- **Wrist Motion Analysis** window will appear
- 6- Choose evaluation time between 10 to 30 seconds
- 7- Press **Start**
- 8- Press **Stop** to restart evaluation or to save it
- 9- When finish to run press **Save**

10- You can press **Show** or **Accumulated** to see single or Accumulated report respectively







Comparison Hand ROM

Not supported in this version

ArmTutor

Elbow ROM

The Elbow ROM evaluation option is designed to evaluate Active ROM of elbow relatively to passive ROM. To start Elbow ROM evaluation follows instructions:

- 1- **Connect** ArmTutor and **calibrate** it.
- 2- **Put it on** patient arm
- 3- Go to **Evaluations**
- 4- Press on **Elbow ROM** evaluation

- 5- **Elbow ROM** window will appear
- 6- Take **Passive ROM**
- 7- Take **Active ROM**
- 8- Press **Stop** to restart evaluation or to save it
- 9- Press **Save**
- 10- You can press **Show** or **Accumulated** to see single or Accumulated report respectively



Elbow ROM Evaluation

Name: David Smith
Date: 12/12/2011

Elbow ROM Evaluation



Passive ROM

Elbow

Active vs. Passive	Active Extension Deficit	Active Flexion Deficit
degree	degree	degree
0 / 28	0	0

Action

Passive Active Stop Save

Report

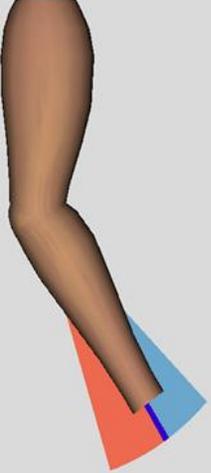
Show Accumulated Exit

Elbow ROM Evaluation

Name: David Smith
Date: 12/12/2011

Elbow ROM Evaluation

Ami Tutor - R



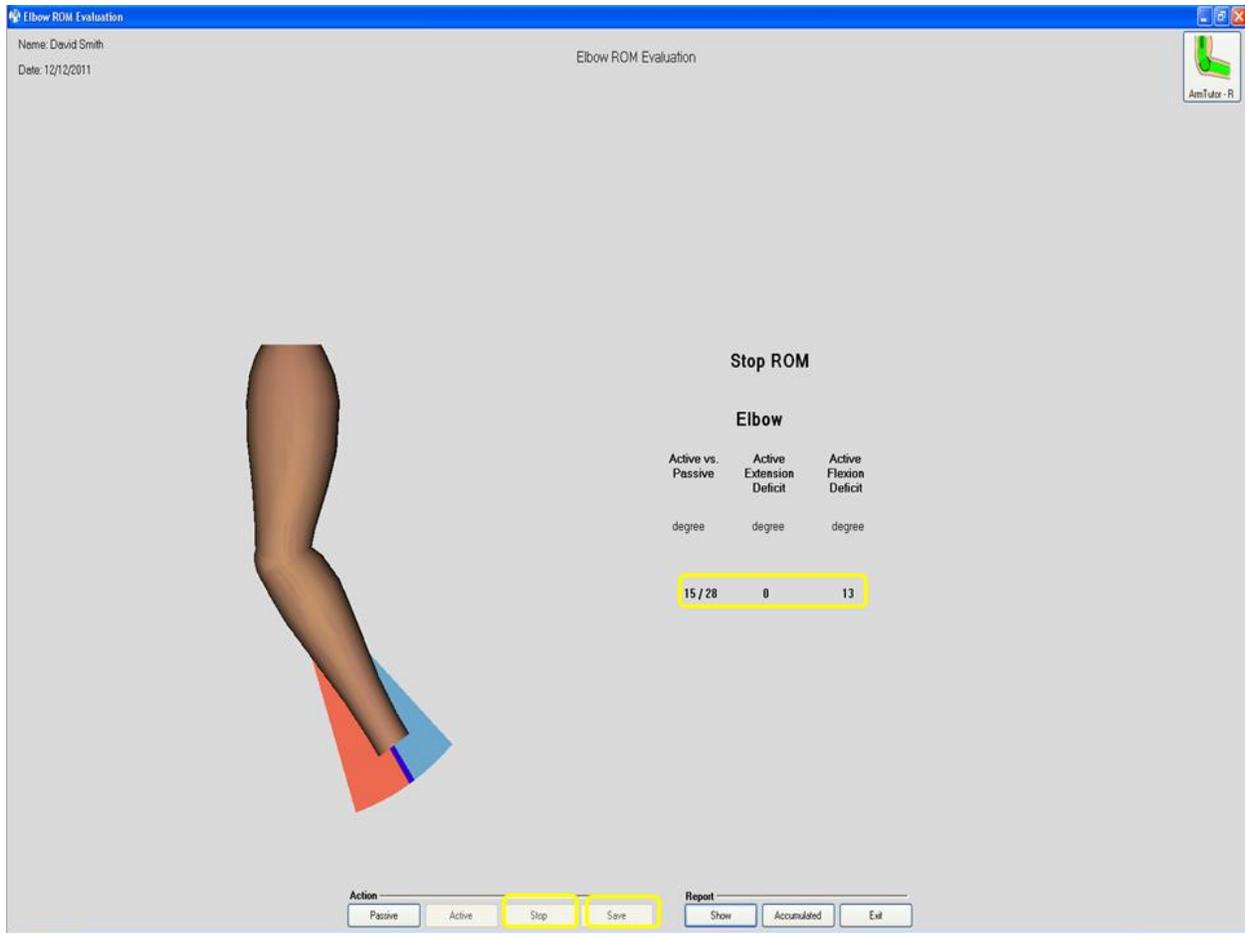
Active ROM

Elbow

Active vs. Passive	Active Extension Deficit	Active Flexion Deficit
degree	degree	degree
15 / 28	0	13

Action: Passive Active Stop Save

Report: Show Accumulated Exit



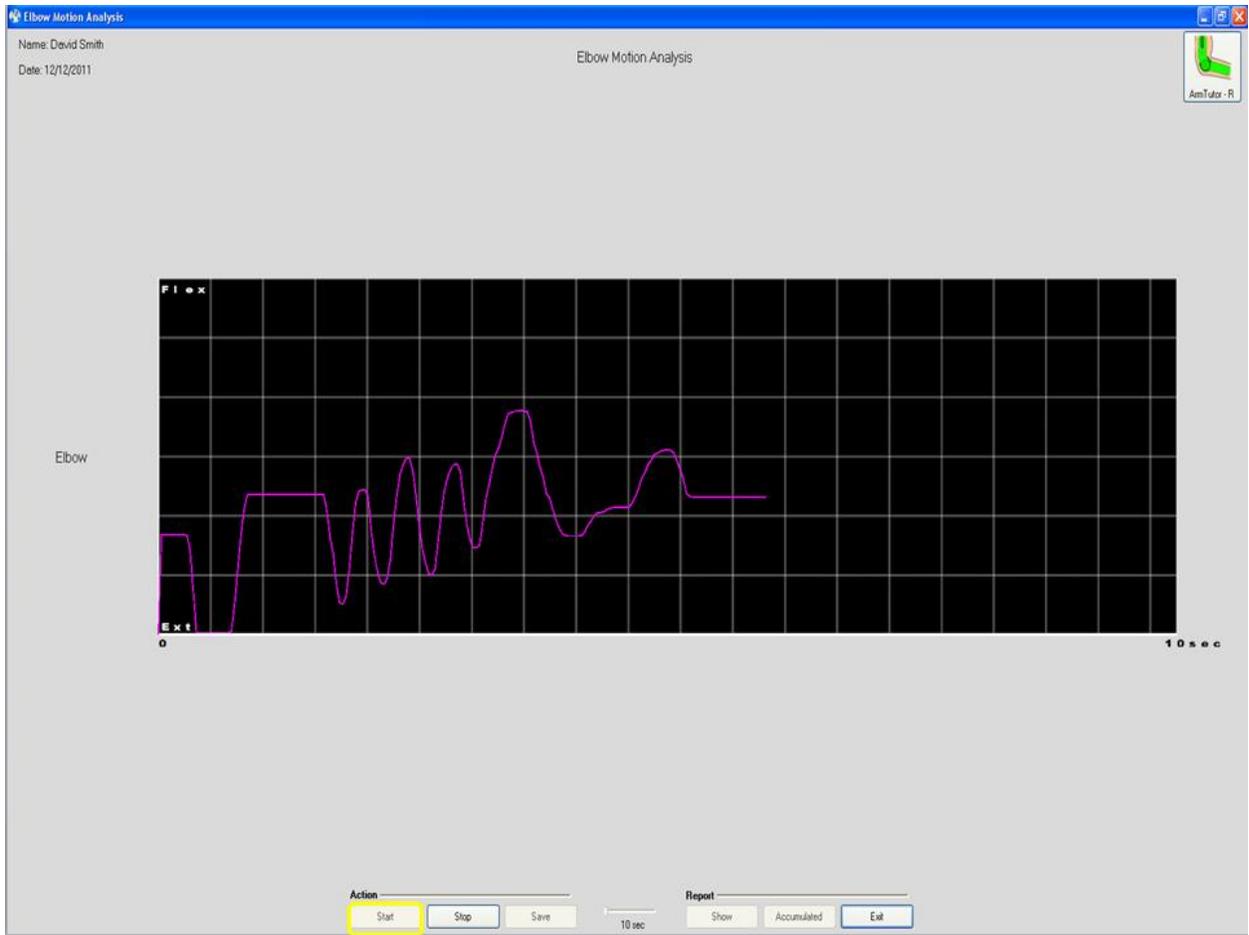
Elbow Motion Analysis

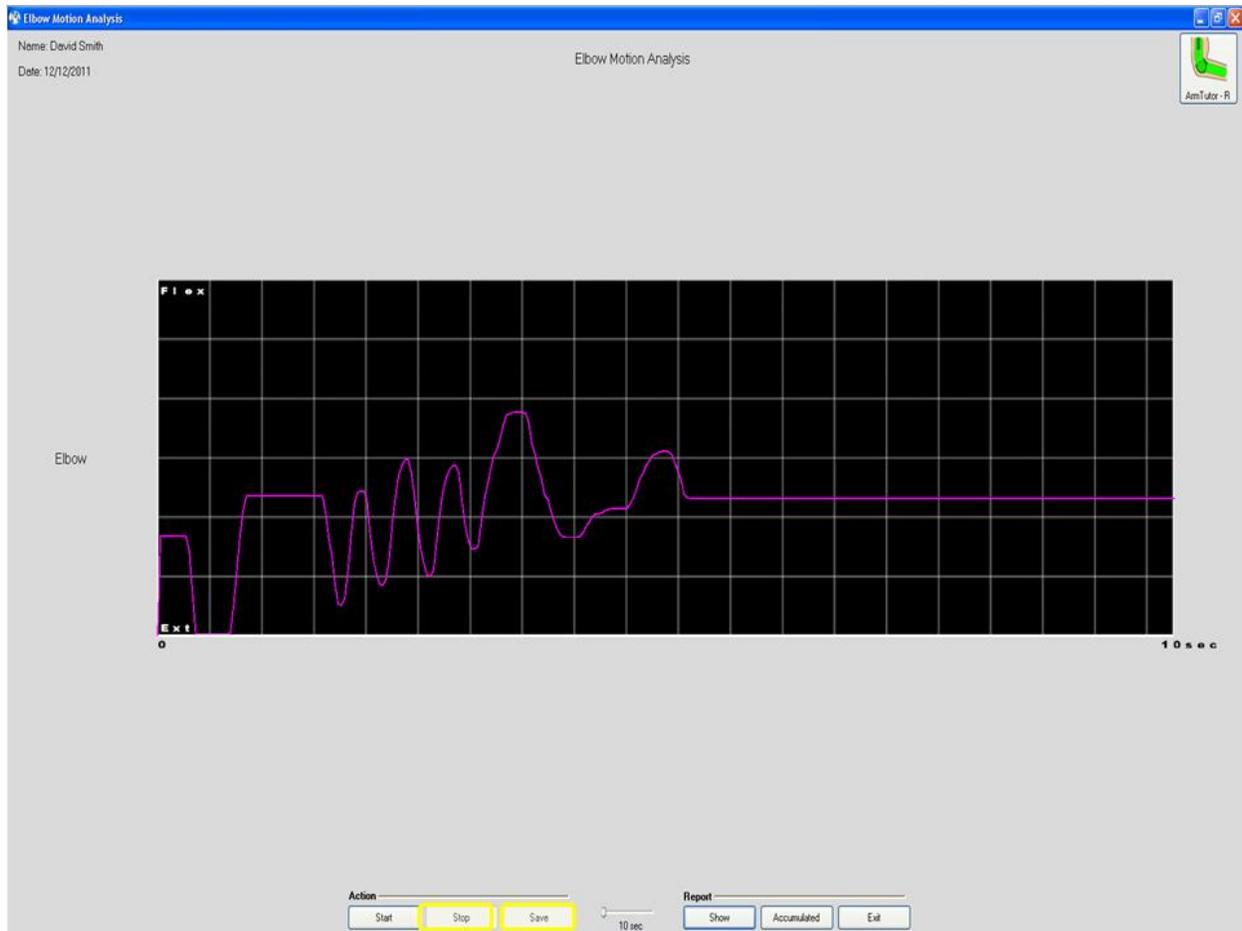
The Elbow Motion Analysis option is designed to evaluate cyclical extension and contraction movements of the elbow. To start Elbow Motion Analysis evaluation follows instructions:

- 1- **Connect** ArmTutor and **calibrate** it.
- 2- **Put it on** patient arm
- 3- Go to **Evaluations**
- 4- Press on **Elbow Motion Analysis** evaluation
- 5- **Elbow Motion Analysis** window will appear
- 6- Choose evaluation time between 10 to 30 seconds
- 7- Press **Start**
- 8- Press **Stop** to restart evaluation or to save it
- 9- When finish to run press **Save**

10- You can press **Show** or **Accumulated** to see single or Accumulated report respectively







LegTutor

Knee ROM

The Knee ROM evaluation option is designed to evaluate Active ROM of knee relatively to passive ROM. To start Knee ROM evaluation follows instructions:

- 1- **Connect** LegTutor and **calibrate** it.
- 2- **Put it on** patient leg
- 3- Go to **Evaluations**
- 4- Press on **Knee ROM** evaluation
- 5- **Knee ROM** window will appear
- 6- Take **Passive ROM**
- 7- Take **Active ROM**

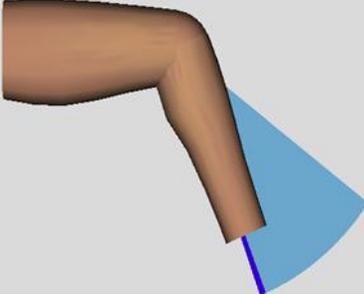
- 8- Press **Stop** to restart evaluation or to save it
- 9- Press **Save**
- 10- You can press **Show** or **Accumulated** to see single or Accumulated report respectively



Knee ROM Evaluation

Name: David Smith
Date: 12/12/2011

Knee ROM Evaluation



Passive ROM

Knee

Active vs. Passive	Active Extension Deficit	Active Flexion Deficit
degree	degree	degree
0 / 31	0	0

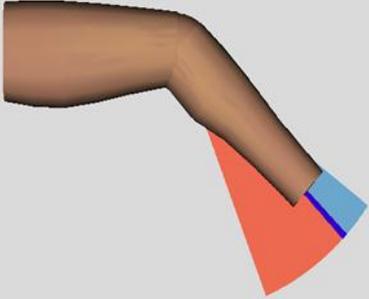
Action:

Report:

Knee ROM Evaluation

Name: David Smith
Date: 12/12/2011

Knee ROM Evaluation



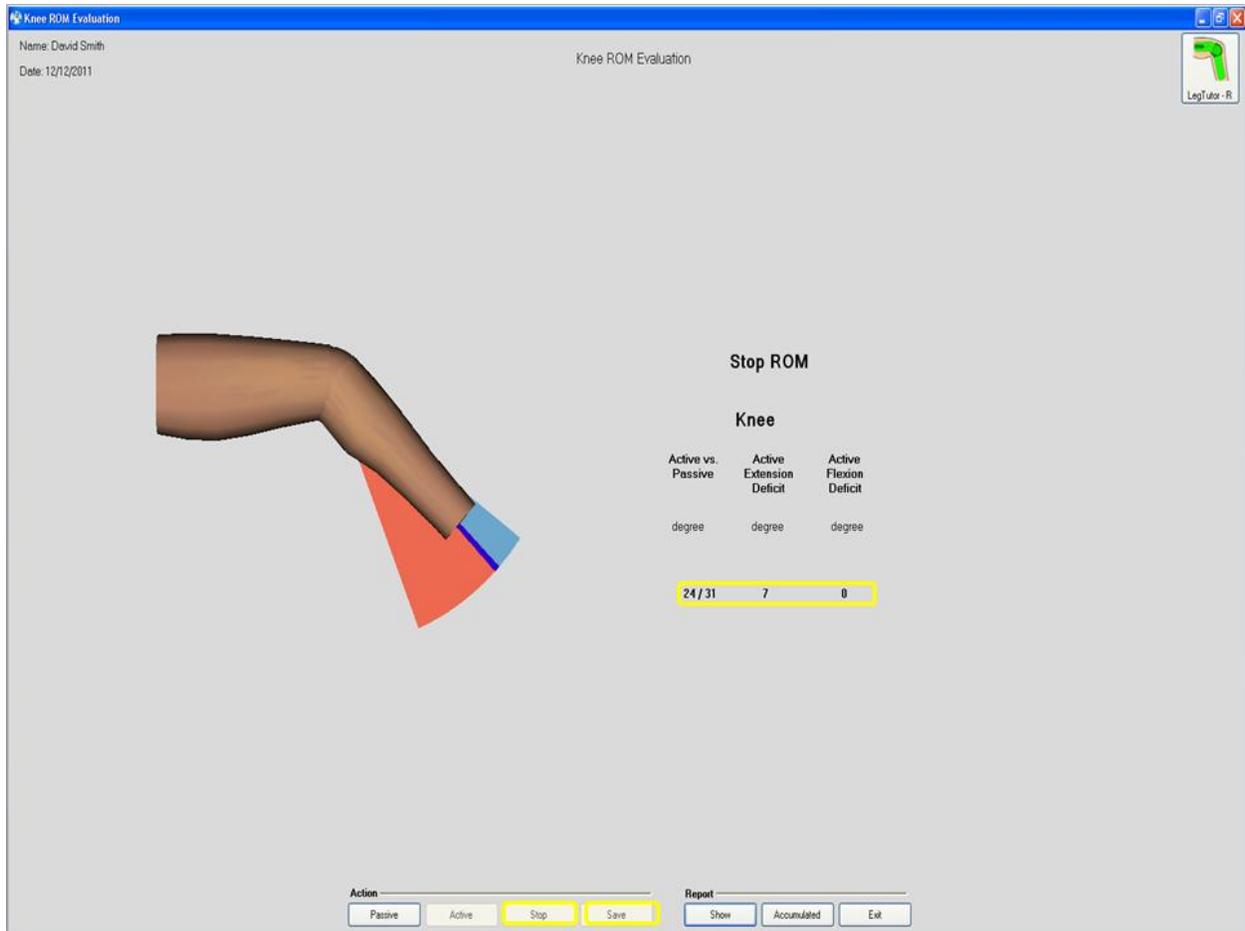
Active ROM

Knee

Active vs. Passive	Active Extension Deficit	Active Flexion Deficit
degree	degree	degree
24 / 31	7	0

Action: Passive Active Stop Save

Report: Show Accumulated Exit



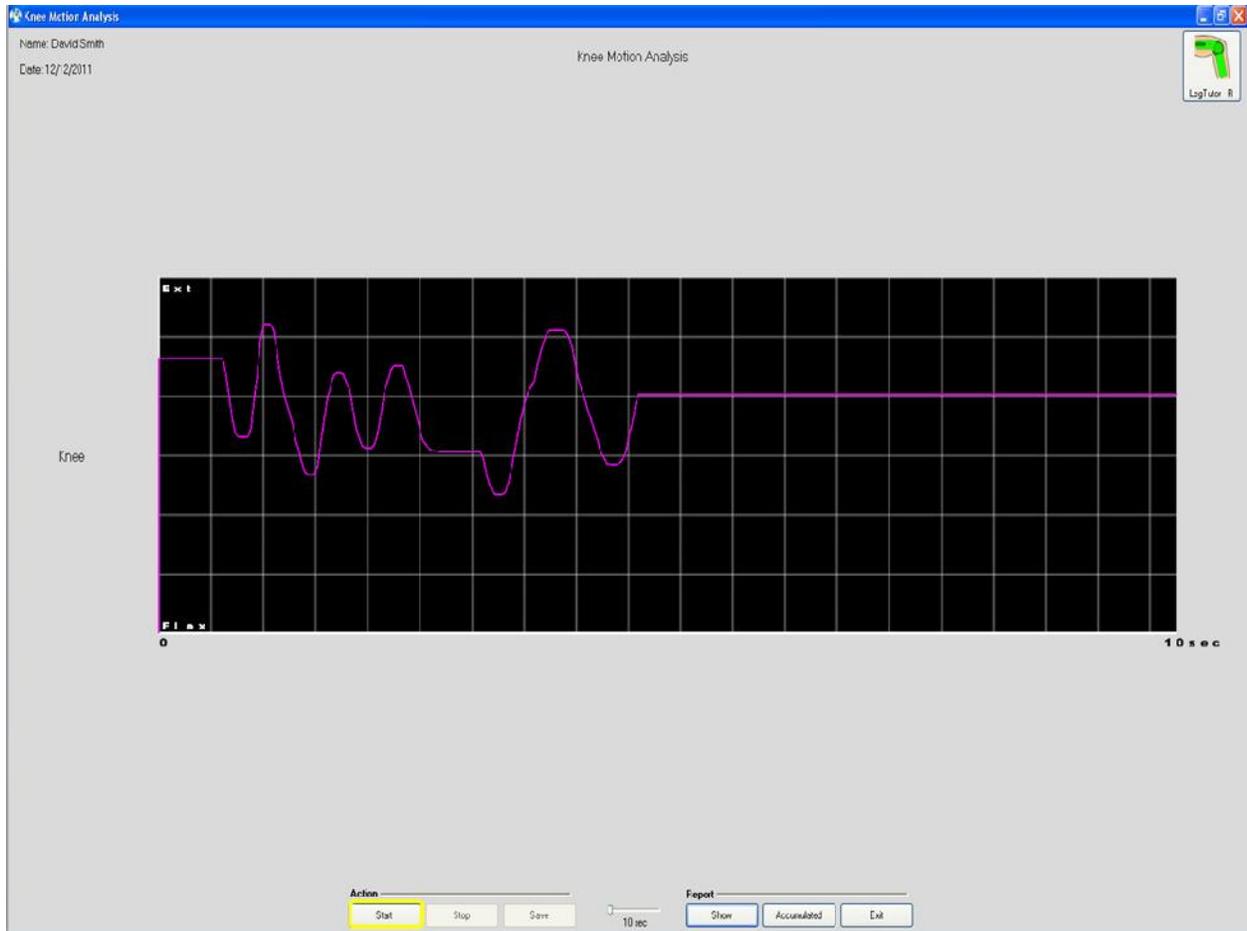
Knee Motion Analysis

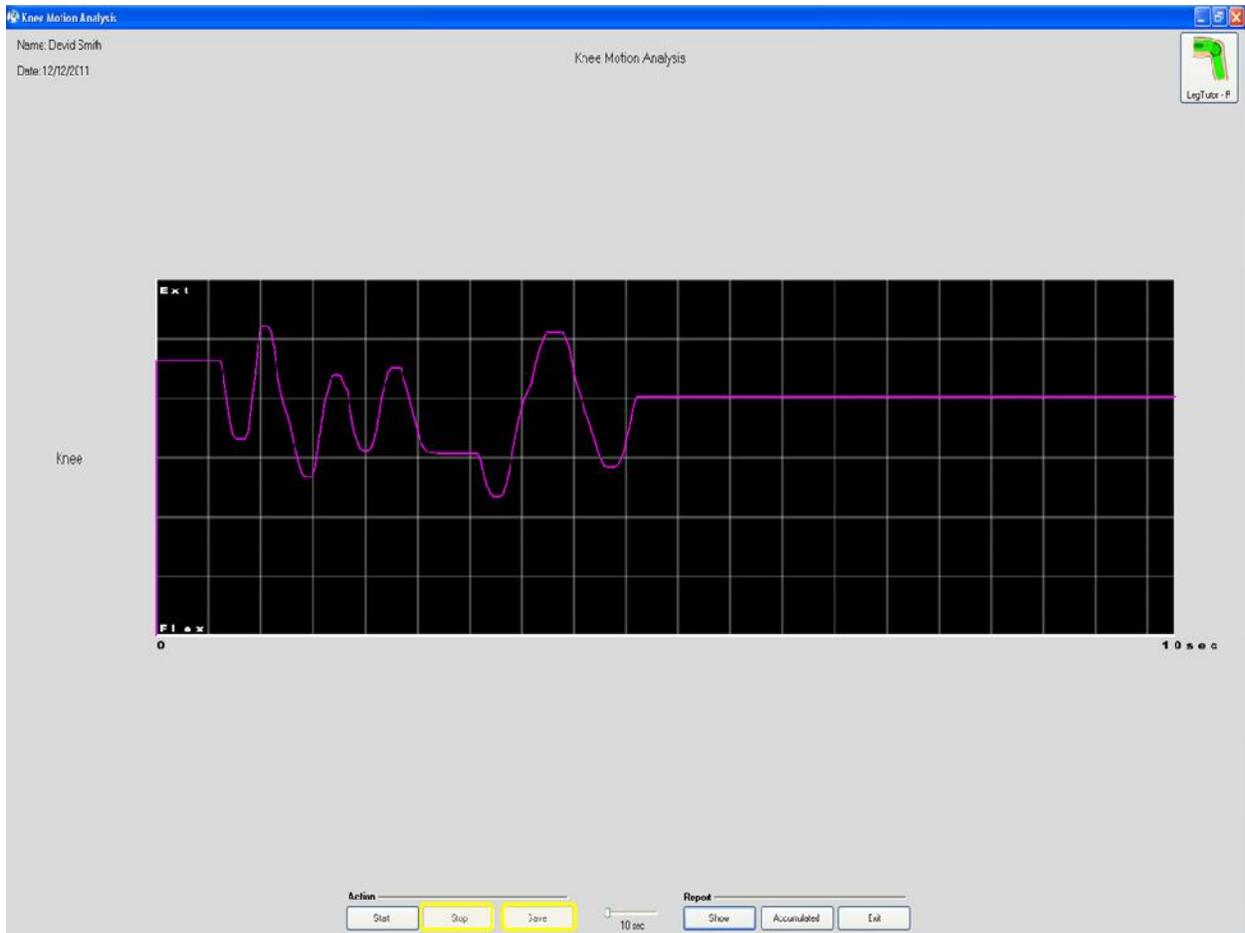
The Knee Motion Analysis option is designed to evaluate cyclical extension and contraction movements of the knee. To start Knee Motion Analysis evaluation follows instructions:

- 1- **Connect** LegTutor and **calibrate** it.
- 2- **Put it on** patient leg
- 3- Go to **Evaluations**
- 4- Press on **Knee Motion Analysis** evaluation
- 5- **Knee Motion Analysis** window will appear
- 6- Choose evaluation time between 10 to 30 seconds
- 7- Press **Start**
- 8- Press **Stop** to restart evaluation or to save it
- 9- When finish to run press **Save**

10- You can press **Show** or **Accumulated** to see single or Accumulated report respectively

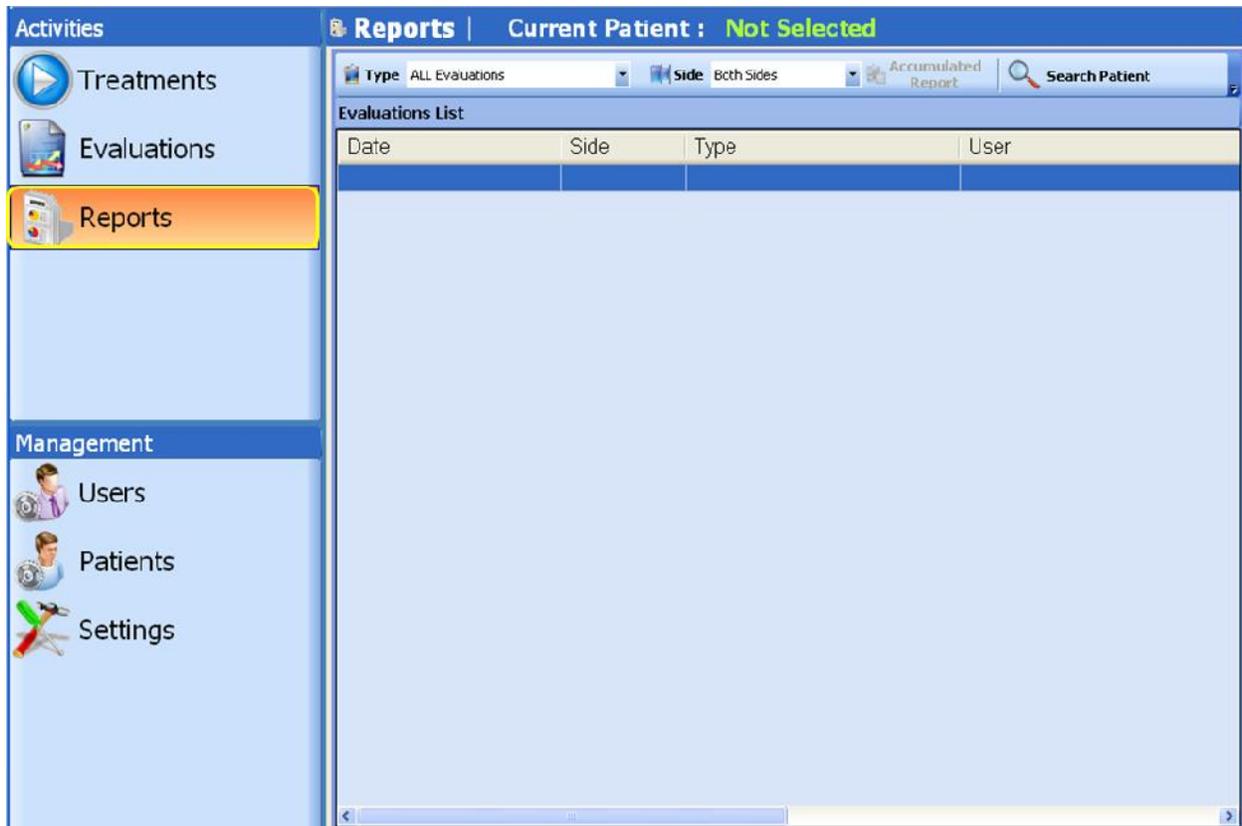






Activities – Reports

Using report patient to Evaluations list therapist can find all patient records. You can sort evaluations by type and side parameters. In addition, it is possible to delete specific evaluation. Access to the Report list is facilitated by clicking on the **Reports** button on the below menu found on the introductory software window.



Reports types

The MediTutor™ software has been designed to show reports for HandTutor, ArmTutor and LegTutor.

HandTutor Reports

Hand ROM

Single Report

The single report shows a single Hand ROM evaluation. You can print it or save to file.

To open **single Hand ROM** report follows instructions:

- 1- Select a patient and save his **Hand ROM evaluation**
- 2- Go to **Reports**
- 3- Press double click on **Range of Motion** record
- 4- **Hand ROM** report will appear

- 5- You can **Print** it or **Save To File**
- 6- Press **Exit** to close report

HandTutor - L | **No Device** | **Search** | **Support** | **Help** | **Exit**

Activities | **Reports** | **Current Patient : Smith David**

Management

- Treatments
- Evaluations
- Reports
- Users
- Patients
- Settings

Evaluations List

Date	Side	Type	User
2011/12/11 15:50	Left	Range of Motion	admin
2011/12/11 16:40	Left	Finger Motion Analysis	admin
2011/12/12 10:32	Left	Wrist Motion Analysis	admin
2011/12/12 11:07	Right	Elbow ROM	admin
2011/12/12 11:21	Right	Elbow Motion Analysis	admin
2011/12/12 12:04	Right	Knee ROM	admin
2011/12/12 12:15	Right	Knee Motion Analysis	admin

User: admin admin | Level: Administrator

MediTutor

Hand ROM Evaluation

First Name: David
Last Name: Smith
ID Number: 112233455

Gender: Male
Date of Birth: 01/01/1950
Diagnosis: Left Hemiparesis

First Evaluation: -
Last Evaluation: -
Treated Area: Left Hand
Current Evaluation: 11/12/2011 : 15:50



	Passive ROM	Active vs. Passive [mm]	Active Extension Deficit [mm]	Active Flexion Deficit [mm]
Wrist		10 / 10	0	0
Little		2 / 4	2	0
Ring		5 / 8	3	0
Middle		8 / 9	1	0
Index		8 / 8	0	0
Thumb		6 / 7	1	0

Notes:

Print Save To File Exit

Measures description

The first column in table shows the **Active Range of Motion against Passive Range of Motion**. The data is recorded in mm (millimeter).

The second column shows deficit of **Active Extension** in millimeter.

The far right column shows deficit of **Active Flexion** in millimeter as well.

Accumulated Report

The accumulated report shows all Hand ROM evaluation sessions. You can print it or save to file.

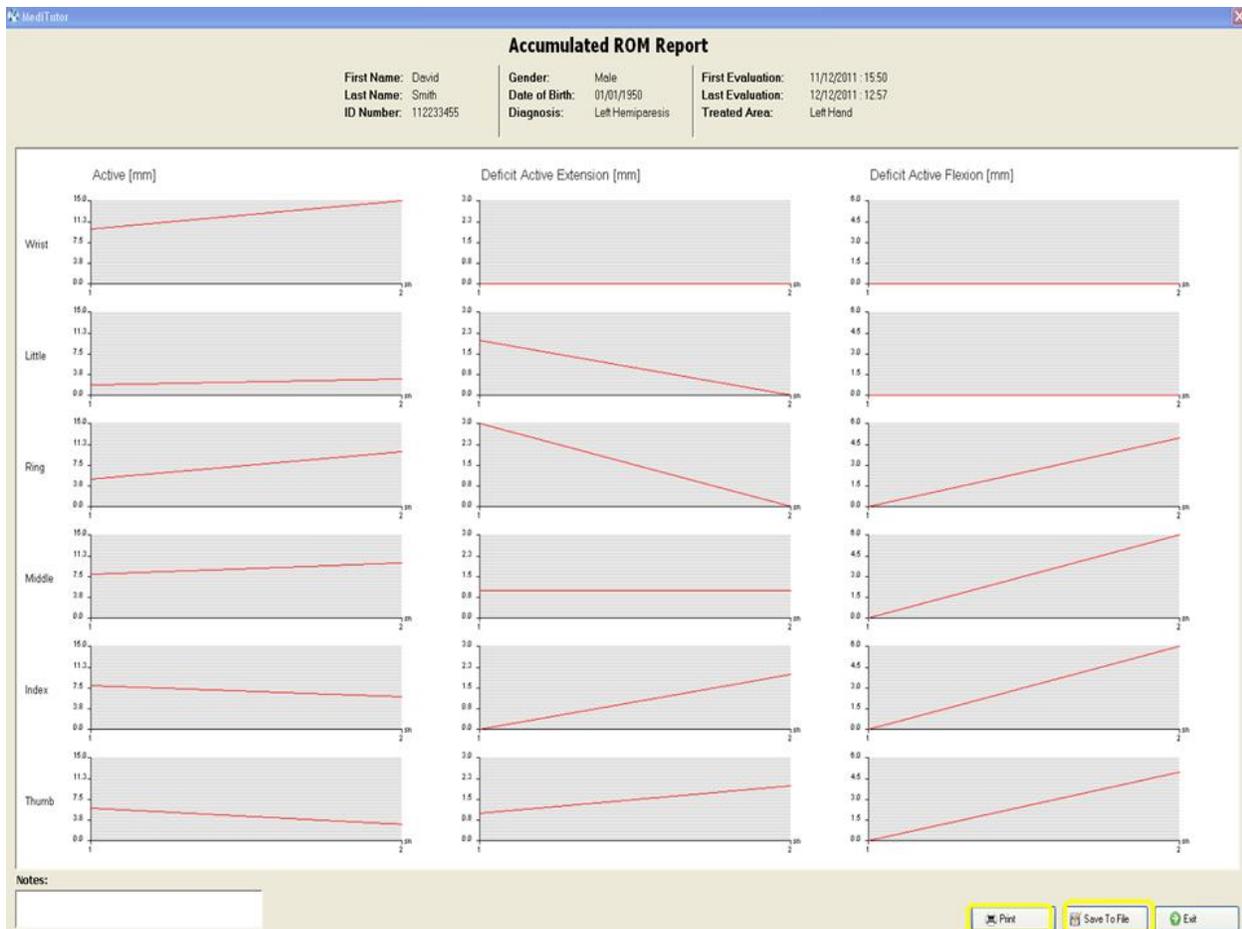
To open **accumulated Hand ROM** report follows instructions:

- 1- Select a patient and save at least two **Hand ROM evaluation** sessions
- 2- Go to **Reports**
- 3- Choose **Range of Motion** record

- 4- Press on **Accumulated Report**
- 5- **Accumulated Hand ROM** report will appear
- 6- You can **Print** it or **Save To File**
- 7- Press **Exit** to close report

The screenshot shows a software interface with a sidebar on the left and a main content area. The sidebar has sections for 'Activities' (Treatments, Evaluations, Reports) and 'Management' (Users, Patients, Settings). The 'Reports' section is active. The main area shows 'Current Patient : Smith David' and a table of 'Evaluations List'. The table has columns for Date, Side, Type, and User. The 'Accumulated Report' button is highlighted in the top right. The 'Range of Motion' entry for 2011/12/11 15:50 is highlighted in the table.

Date	Side	Type	User
2011/12/12 11:21	Right	Elbow Motion Analysis	admin
2011/12/12 11:07	Right	Elbow ROM	admin
2011/12/11 16:40	Left	Finger Motion Analysis	admin
2011/12/12 12:15	Right	Knee Motion Analysis	admin
2011/12/12 12:04	Right	Knee ROM	admin
2011/12/11 15:50	Left	Range of Motion	admin
2011/12/12 12:57	Left	Range of Motion	admin
2011/12/12 10:32	Left	Wrist Motion Analysis	admin



Measures description

The first column in graphs displays **Active Range of Motion** of all sessions in mm (millimeter).

The second column in graphs displays deficit of **Active Extension** of all sessions in millimeter.

The far right column in graphs displays deficit of **Active Flexion** of all sessions in millimeter as well.

Finger Motion Analysis

Single Report

The single report shows a single First Motion Analysis evaluation. You can print it or save to file.

To open **single First Motion Analysis** report follows instructions:

- 1- Select a patient and save his **Finger Motion Analysis evaluation**
- 2- Go to **Reports**

- 3- Press double click on **Finger Motion Analysis** record
- 4- **Finger Motion Analysis** report will appear
- 5- You can **Print** it or **Save To File**
- 6- Press **Exit** to close report

The screenshot shows a software interface with a sidebar on the left and a main content area on the right. The sidebar has sections for 'Activities' (Treatments, Evaluations, Reports) and 'Management' (Users, Patients, Settings). The 'Reports' section is highlighted. The main content area shows a table of evaluations for 'Current Patient : Smith David'. The table has columns for Date, Side, Type, and User. The row for '2011/12/11 16:40' with 'Left' side and 'Finger Motion Analysis' type is highlighted in blue.

Date	Side	Type	User
2011/12/11 15:50	Left	Range of Motion	admin
2011/12/11 16:40	Left	Finger Motion Analysis	admin
2011/12/12 10:32	Left	Wrist Motion Analysis	admin
2011/12/12 11:07	Right	Elbow ROM	admin
2011/12/12 11:21	Right	Elbow Motion Analysis	admin
2011/12/12 12:04	Right	Knee ROM	admin
2011/12/12 12:15	Right	Knee Motion Analysis	admin
2011/12/12 12:57	Left	Range of Motion	admin



Measurements description

The report shows an analysis of the patients finger **Motion** in the left hand column during the test period. The **Spectrum** column is a graphical indication of the quality of cyclical movements. The graph is a representation of the **Max Frequency Energy** which is cyclical flexion and extension movements of the fingers achieved by the patient. The active ROM is also detailed in the **Max ROM** column.

Accumulated Report

The accumulated report shows all Finger MA evaluation sessions. You can print it or save to file. To open **accumulated MA Finger** report follows instructions:

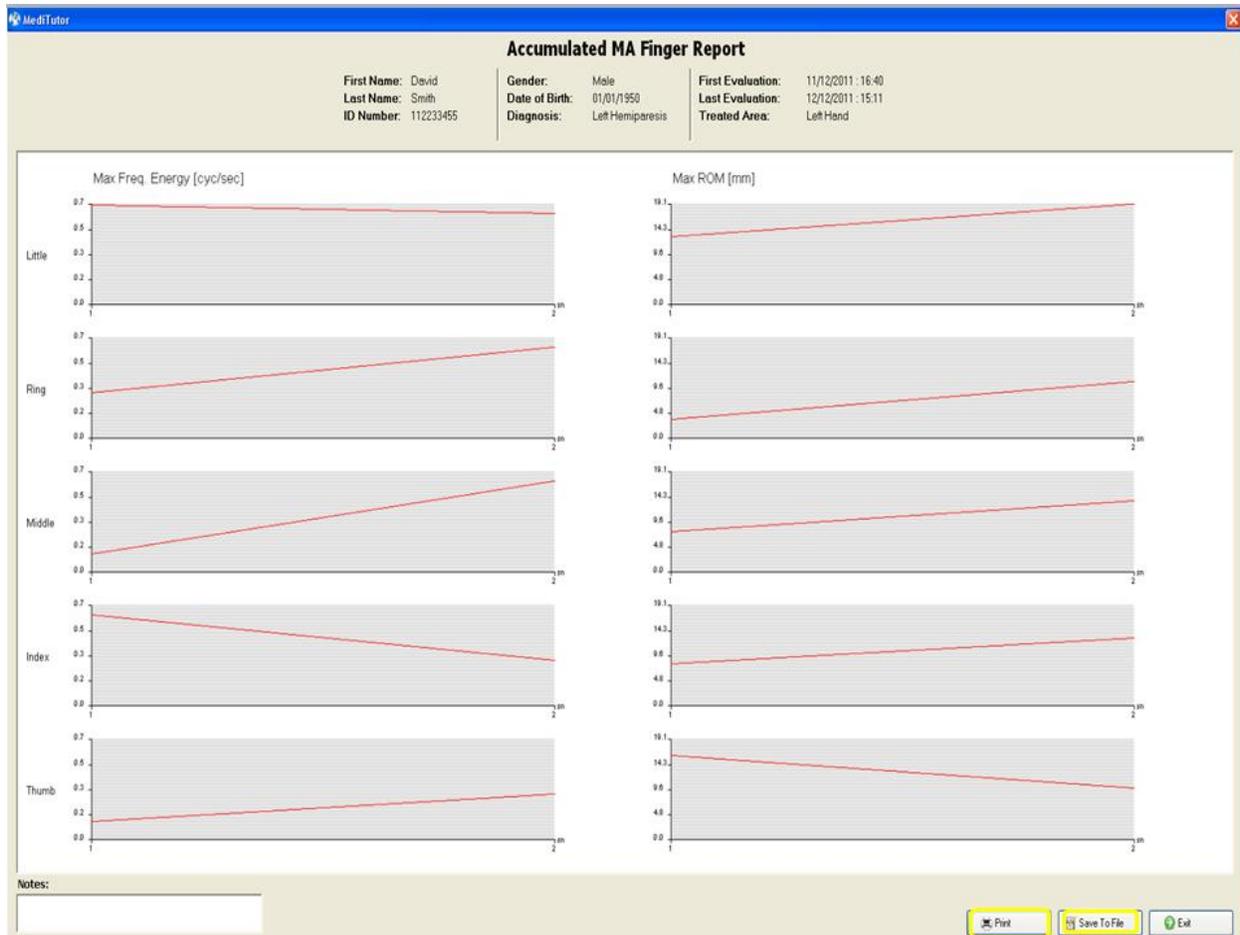
- 1- Select a patient and save at least two **Finger MA evaluation** sessions
- 2- Go to **Reports**
- 3- Choose **Finger Motion Analysis** record

- 4- Press on **Accumulated Report**
- 5- **Accumulated MA Finger** report will appear
- 6- You can **Print** it or **Save To File**
- 7- Press **Exit** to close report

The screenshot shows a software interface for patient management. The top bar indicates the current patient is **Smith David**. Below this, there are filters for 'Type' (ALL Evaluations), 'Side' (Both Sides), and a highlighted 'Accumulated Report' button. A search patient icon is also present. The main area displays an 'Evaluations List' table with the following data:

Date	Side	Type	User
2011/12/12 11:21	Right	Elbow Motion Analysis	admin
2011/12/12 11:07	Right	Elbow ROM	admin
2011/12/11 16:40	Left	Finger Motion Analysis	admin
2011/12/12 15:11	Left	Finger Motion Analysis	admin
2011/12/12 12:15	Right	Knee Motion Analysis	admin
2011/12/12 12:04	Right	Knee ROM	admin
2011/12/11 15:50	Left	Range of Motion	admin
2011/12/12 12:57	Left	Range of Motion	admin
2011/12/12 10:32	Left	Wrist Motion Analysis	admin

At the bottom left, the user is identified as 'admin admin' with the level 'Administrator'.



Measurements description

The first column shows graphs of the **Max Freq.** Energy which is a maximum cyclical velocity of the finger motion for each finger recorded at each evaluation session. The second column shows the **Max ROM** which is the maximal active ROM achieved at each evaluation session.

Wrist Motion Analysis

Single Report

The single report shows a single Wrist Motion Analysis evaluation. You can print it or save to file.

To open **single Wrist Motion Analysis** report follows instructions:

- 1- Select a patient and save his **Wrist Motion Analysis evaluation**
- 2- Go to **Reports**
- 3- Press double click on **Wrist Motion Analysis** record

- 4- **Wrist Motion Analysis** report will appear
- 5- You can **Print** it or **Save To File**
- 6- Press **Exit** to close report

The screenshot shows a software interface with a sidebar on the left and a main content area on the right. The sidebar has three sections: 'Activities' with 'Treatments', 'Evaluations', and 'Reports' (highlighted); 'Management' with 'Users', 'Patients', and 'Settings'. The main content area has a header 'Reports' and 'Current Patient : Smith David'. Below this is a filter bar with 'Type: All Evaluations', 'Side: Both Sides', 'Accumulated Report', and 'Search Patient'. The main area contains an 'Evaluations List' table with the following data:

Date	Side	Type	User
2011/12/12 10:32	Left	Wrist Motion Analysis	admin
2011/12/11 15:50	Left	Range of Motion	admin
2011/12/12 12:57	Left	Range of Motion	admin
2011/12/12 12:04	Right	Knee ROM	admin
2011/12/12 12:15	Right	Knee Motion Analysis	admin
2011/12/11 16:40	Left	Finger Motion Analysis	admin
2011/12/12 15:11	Left	Finger Motion Analysis	admin
2011/12/12 11:07	Right	Elbow ROM	admin
2011/12/12 11:21	Right	Elbow Motion Analysis	admin



Measurements description

The report shows an analysis of the patient's wrist **Motion** in the left hand column during the test period. The **Spectrum** column is a graphical indication of the quality of cyclical movements. The graph is a representation of the **Max Frequency Energy** which is cyclical flexion and extension movements of the wrist achieved by the patient. The active ROM is also detailed in the **Max ROM** column.

Accumulated Report

The accumulated report shows all Wrist MA evaluation sessions. You can print it or save to file.

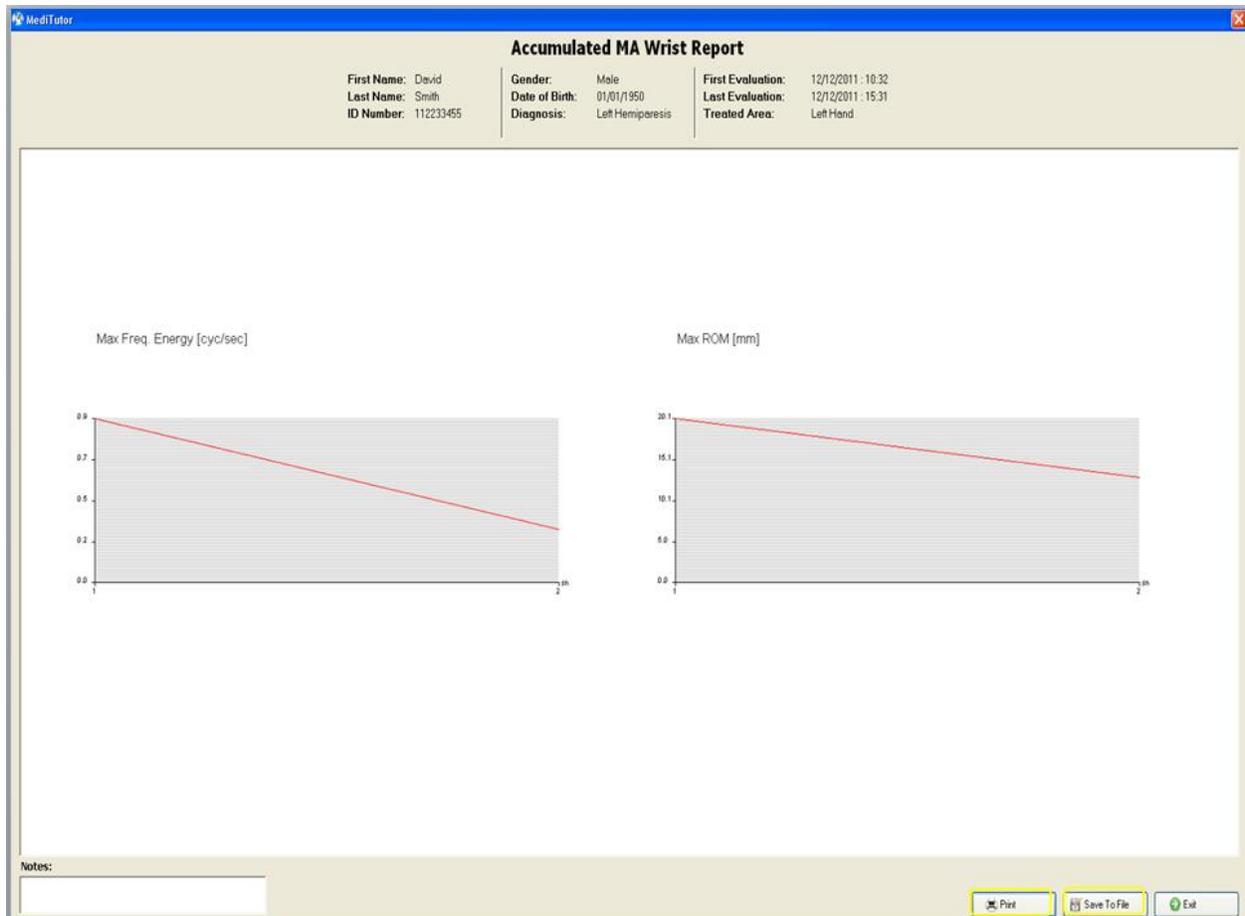
To open **accumulated MA Wrist** report follows instructions:

- 1- Select a patient and save at least two **Wrist MA evaluation** sessions
- 2- Go to **Reports**
- 3- Choose **Wrist Motion Analysis** record

- 4- Press on **Accumulated Report**
- 5- **Accumulated MA Wrist** report will appear
- 6- You can **Print** it or **Save To File**
- 7- Press **Exit** to close report

The screenshot shows a software interface with a left sidebar and a main content area. The sidebar has sections for 'Activities' (Treatments, Evaluations, Reports) and 'Management' (Users, Patients, Settings). The 'Reports' section is highlighted. The main content area shows 'Current Patient: Smith David' and a table of 'Evaluations List'. The 'Accumulated Report' button is highlighted in yellow.

Date	Side	Type	User
2011/12/12 10:32	Left	Wrist Motion Analysis	admin
2011/12/12 15:31	Left	Wrist Motion Analysis	admin
2011/12/11 15:50	Left	Range of Motion	admin
2011/12/12 12:57	Left	Range of Motion	admin
2011/12/12 12:04	Right	Knee ROM	admin
2011/12/12 12:15	Right	Knee Motion Analysis	admin
2011/12/11 16:40	Left	Finger Motion Analysis	admin
2011/12/12 15:11	Left	Finger Motion Analysis	admin
2011/12/12 11:07	Right	Elbow ROM	admin
2011/12/12 11:21	Right	Elbow Motion Analysis	admin



Measurements description

The first column shows graphs of the **Max Freq. Energy** which is a maximum cyclical velocity of the wrist motion at each evaluation session. The second column shows the **Max ROM** which is the maximal active ROM achieved at each evaluation session.

Comparison Hand ROM

Not supported in this version

ArmTutor Reports

Elbow ROM

Single Report

The single report shows a single Elbow ROM evaluation. You can print it or save to file.

To open **single Elbow ROM** report follows instructions:

- 1- Select a patient and save his **Elbow ROM evaluation**
- 2- Go to **Reports**
- 3- Press double click on **Elbow ROM** record
- 4- **Elbow ROM** report will appear
- 5- You can **Print** it or **Save To File**
- 6- Press **Exit** to close report

The screenshot shows the software interface for patient **Smith David**. The 'Reports' section is active, displaying an 'Evaluations List' table. The table contains the following data:

Date	Side	Type	User
2011/12/12 11:21	Right	Elbow Motion Analysis	admin
2011/12/12 16:38	Right	Elbow Motion Analysis	admin
2011/12/12 11:07	Right	Elbow ROM	admin
2011/12/11 16:40	Left	Finger Motion Analysis	admin
2011/12/12 15:11	Left	Finger Motion Analysis	admin
2011/12/12 12:15	Right	Knee Motion Analysis	admin
2011/12/12 12:04	Right	Knee ROM	admin
2011/12/11 15:50	Left	Range of Motion	admin
2011/12/12 12:57	Left	Range of Motion	admin
2011/12/12 10:32	Left	Wrist Motion Analysis	admin
2011/12/12 15:31	Left	Wrist Motion Analysis	admin

The 'Elbow ROM' record is highlighted in blue. The interface also shows a status bar at the bottom with 'User: admin admin' and 'Level: Administrator'.



Measures description

The first row displays **Passive Extension and Flexion** of last evaluation in degrees.

The second row displays **Active Extension and Flexion** of last evaluation in degrees.

Accumulated Report

The accumulated report shows all Elbow ROM evaluation sessions. You can print it or save to file.

To open **accumulated Elbow ROM** report follows instructions:

- 1- Select a patient and save at least two **Elbow ROM evaluation** sessions
- 2- Go to **Reports**
- 3- Choose **Elbow ROM** record
- 4- Press on **Accumulated Report**
- 5- **Accumulated Elbow ROM** report will appear
- 6- You can **Print** it or **Save To File**
- 7- Press **Exit** to close report

Activities | **Reports** | Current Patient : **Smith David**

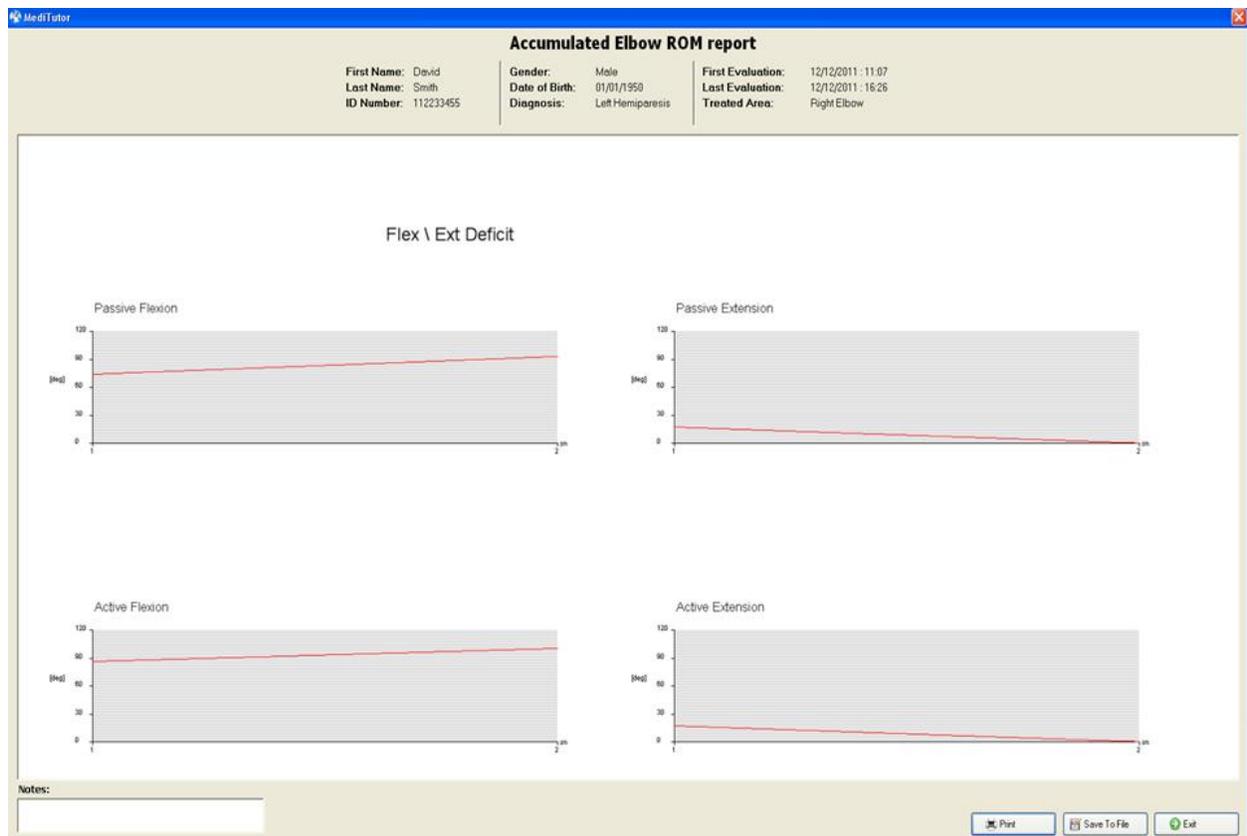
Type: ALL Evaluations | Side: Both Sides | **Accumulated Report** | Search Patient

Evaluations List

Date	Side	Type	User
2011/12/12 11:21	Right	Elbow Motion Analysis	admin
2011/12/12 11:07	Right	Elbow ROM	admin
2011/12/12 16:11	Right	Elbow ROM	admin
2011/12/11 16:40	Left	Finger Motion Analysis	admin
2011/12/12 15:11	Left	Finger Motion Analysis	admin
2011/12/12 12:15	Right	Knee Motion Analysis	admin
2011/12/12 12:04	Right	Knee ROM	admin
2011/12/11 15:50	Left	Range of Motion	admin
2011/12/12 12:57	Left	Range of Motion	admin
2011/12/12 10:32	Left	Wrist Motion Analysis	admin
2011/12/12 15:31	Left	Wrist Motion Analysis	admin

Management

- Users
- Patients
- Settings



Measurements description

The first row in graphs displays **Passive Flexion and Extension** of all sessions in degrees.

The second row in graphs displays **Active Flexion and Extension** of all sessions in degrees.

Elbow Motion Analysis

Single Report

The single report shows a single Elbow MA evaluation. You can print it or save to file.

To open **single Elbow MA** report follows instructions:

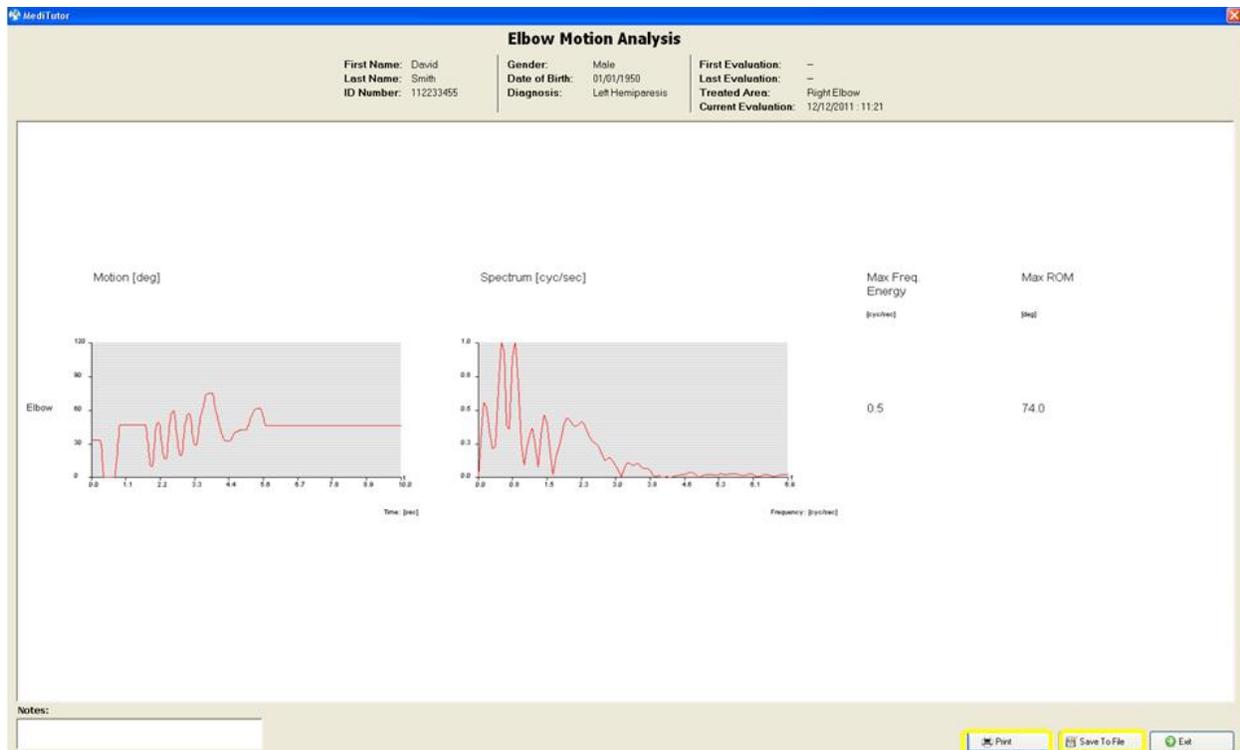
- 1- Select a patient and save his **Elbow MA evaluation**
- 2- Go to **Reports**
- 3- Press double click on **Elbow MA** record
- 4- **Elbow MA** report will appear
- 5- You can **Print** it or **Save To File**

6- Press **Exit** to close report

The screenshot displays a software interface for patient evaluations. The top navigation bar shows 'Reports' and 'Current Patient: Smith David'. Below this, there are filters for 'Type' (ALL Evaluations), 'Side' (Both Sides), and 'Accumulated Report'. A search bar is also present. The main area contains an 'Evaluations List' table with the following data:

Date	Side	Type	User
2011/12/12 11:21	Right	Elbow Motion Analysis	admin
2011/12/12 11:07	Right	Elbow ROM	admin
2011/12/12 16:11	Right	Elbow ROM	admin
2011/12/11 16:40	Left	Finger Motion Analysis	admin
2011/12/12 15:11	Left	Finger Motion Analysis	admin
2011/12/12 12:15	Right	Knee Motion Analysis	admin
2011/12/12 12:04	Right	Knee ROM	admin
2011/12/11 15:50	Left	Range of Motion	admin
2011/12/12 12:57	Left	Range of Motion	admin
2011/12/12 10:32	Left	Wrist Motion Analysis	admin
2011/12/12 15:31	Left	Wrist Motion Analysis	admin

The sidebar on the left is divided into 'Activities' (Treatments, Evaluations, Reports) and 'Management' (Users, Patients, Settings).



Measures description

The report shows an analysis of the patients elbow **Motion** in the left hand column during the test period. The **Spectrum** column is a graphical indication of the quality of cyclical movements. The graph is a representation of the **Max Frequency Energy** which is cyclical flexion and extension movements of the fingers achieved by the patient. The active ROM is also detailed in the **Max ROM** column.

Accumulated Report

The accumulated report shows all Elbow ROM evaluation sessions. You can print it or save to file.

To open **accumulated Elbow MA** report follows instructions:

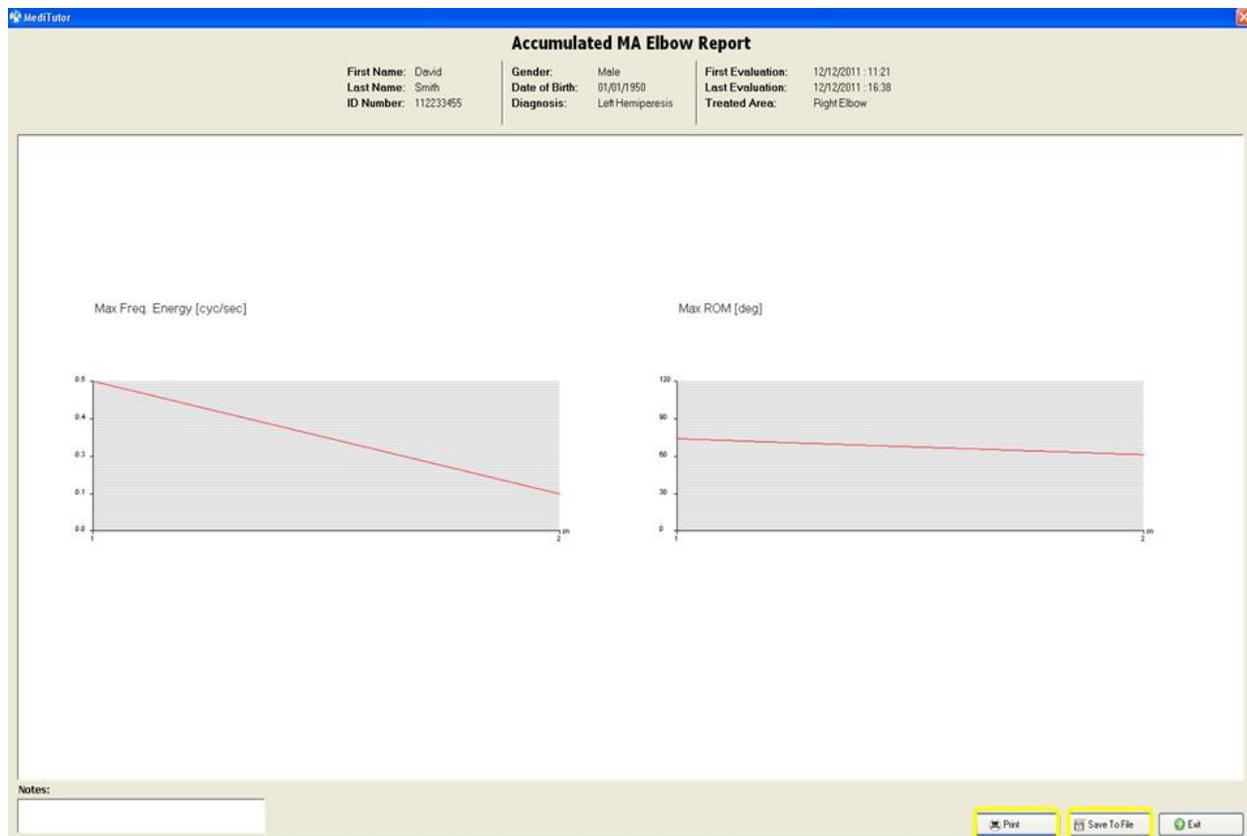
- 1- Select a patient and save at least two **Elbow MA evaluation** sessions
- 2- Go to **Reports**
- 3- Choose **Elbow MA** record
- 4- Press on **Accumulated Report**
- 5- **Accumulated MA Elbow** report will appear
- 6- You can **Print** it or **Save To File**

7- Press **Exit** to close report

The screenshot displays a software interface for patient evaluations. The top header shows 'Reports | Current Patient : Smith David'. Below the header, there are filters for 'Type' (set to 'ALL Evaluations'), 'Side' (set to 'Both Sides'), and an 'Accumulated Report' button. A search bar labeled 'Search Patient' is also present. The main area contains an 'Evaluations List' table with the following data:

Date	Side	Type	User
2011/12/12 11:21	Right	Elbow Motion Analysis	admin
2011/12/12 16:38	Right	Elbow Motion Analysis	admin
2011/12/12 11:07	Right	Elbow ROM	admin
2011/12/12 16:26	Right	Elbow ROM	admin
2011/12/11 16:40	Left	Finger Motion Analysis	admin
2011/12/12 15:11	Left	Finger Motion Analysis	admin
2011/12/12 12:15	Right	Knee Motion Analysis	admin
2011/12/12 12:04	Right	Knee ROM	admin
2011/12/11 15:50	Left	Range of Motion	admin
2011/12/12 12:57	Left	Range of Motion	admin
2011/12/12 10:32	Left	Wrist Motion Analysis	admin
2011/12/12 15:31	Left	Wrist Motion Analysis	admin

The sidebar on the left is divided into 'Activities' and 'Management' sections. 'Activities' includes 'Treatments', 'Evaluations', and 'Reports' (which is highlighted). 'Management' includes 'Users', 'Patients', and 'Settings'.



Measurements description

The first column shows graphs of the **Max Freq. Energy** which is a maximum cyclical velocity of the wrist motion at each evaluation session. The second column shows the **Max ROM** which is the maximal active ROM achieved at each evaluation session.

LegTutor Reports

Knee ROM

Single Report

The single report shows a single Knee ROM evaluation. You can print it or save to file.

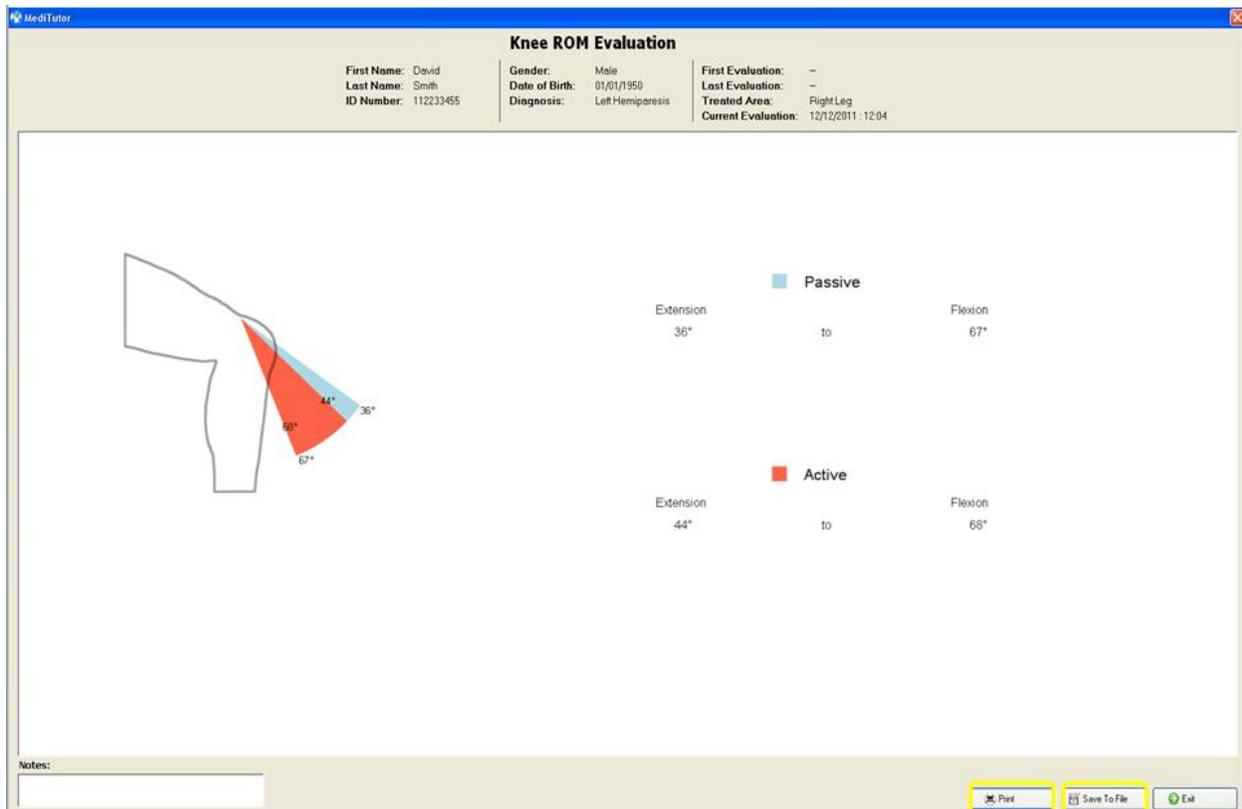
To open **single Knee ROM** report follows instructions:

- 1- Select a patient and save his **Knee ROM evaluation**
- 2- Go to **Reports**
- 3- Press double click on **Knee ROM** record

- 4- **Knee ROM** report will appear
- 5- You can **Print** it or **Save To File**
- 6- Press **Exit** to close report

The screenshot shows the LegTutor software interface. At the top, there is a toolbar with icons for 'LegTutor - R', 'No Device', 'Search', 'Support', 'Help', and 'Exit'. Below the toolbar, the interface is divided into a left sidebar and a main content area. The sidebar has two sections: 'Activities' with 'Treatments', 'Evaluations', and 'Reports' (highlighted in orange), and 'Management' with 'Users', 'Patients', and 'Settings'. The main content area is titled 'Reports' and shows 'Current Patient : Smith David'. It features a filter bar with 'Type: ALL Evaluations', 'Side: Both Sides', and 'Accumulated Report'. Below this is an 'Evaluations List' table with the following data:

Date	Side	Type	User
2011/12/11 15:50	Left	Range of Motion	admin
2011/12/11 16:40	Left	Finger Motion Analysis	admin
2011/12/12 10:32	Left	Wrist Motion Analysis	admin
2011/12/12 11:07	Right	Elbow ROM	admin
2011/12/12 11:21	Right	Elbow Motion Analysis	admin
2011/12/12 12:04	Right	Knee ROM	admin
2011/12/12 12:15	Right	Knee Motion Analysis	admin
2011/12/12 12:57	Left	Range of Motion	admin
2011/12/12 15:11	Left	Finger Motion Analysis	admin
2011/12/12 15:31	Left	Wrist Motion Analysis	admin
2011/12/12 16:38	Right	Elbow Motion Analysis	admin



Measures description

The first row displays **Passive Extension and Flexion** of last evaluation in degrees.

The second row displays **Active Extension and Flexion** of last evaluation in degrees.

Accumulated Report

The accumulated report shows all Knee ROM evaluation sessions. You can print it or save to file.

To open **accumulated Knee ROM** report follows instructions:

- 1- Select a patient and save at least two **Knee ROM evaluation** sessions
- 2- Go to **Reports**
- 3- Choose **Knee ROM** record
- 4- Press on **Accumulated Report**
- 5- **Accumulated Knee ROM** report will appear
- 6- You can **Print** it or **Save To File**
- 7- Press **Exit** to close report

Activities | **Reports** | Current Patient : **Smith David**

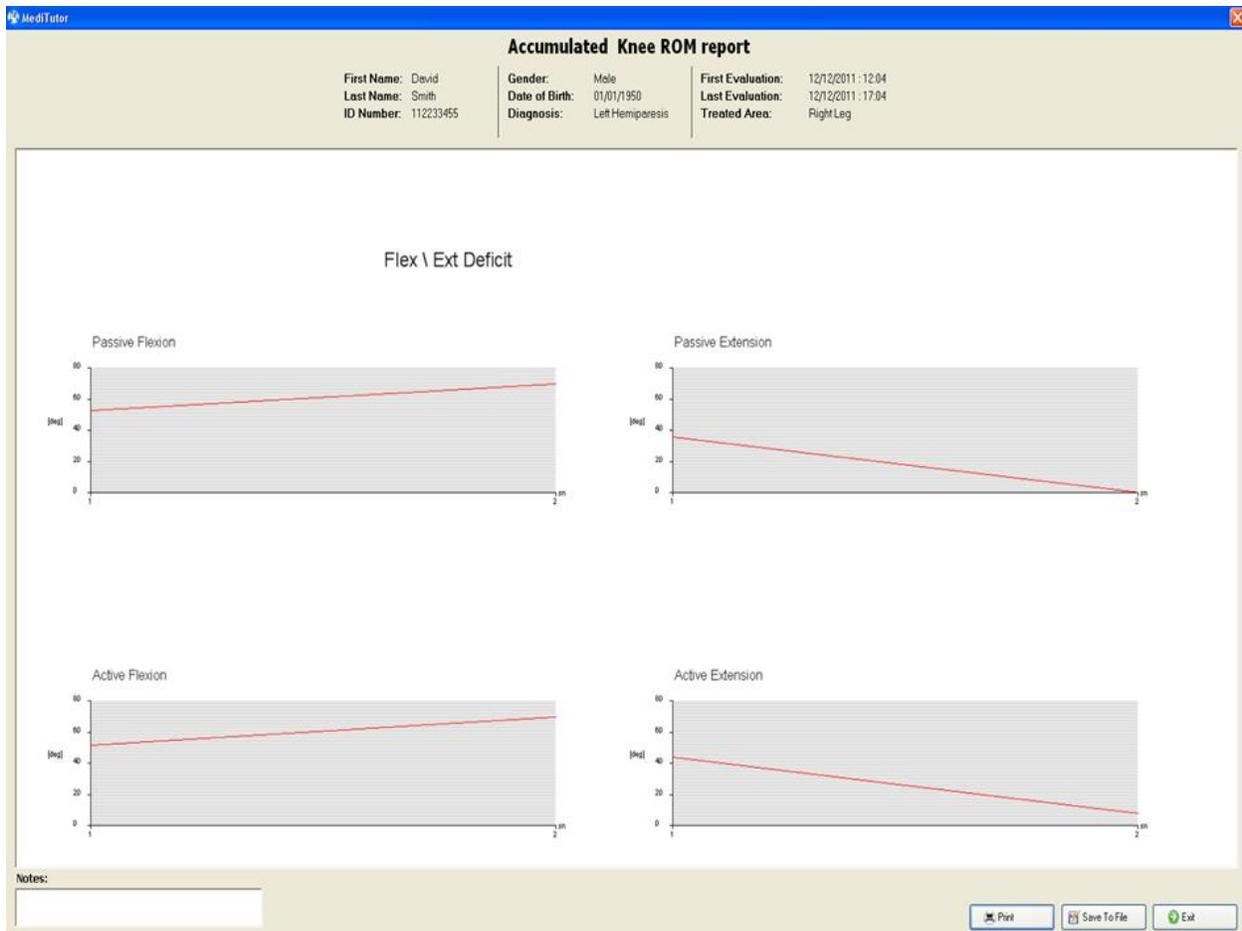
Type: ALL Evaluations | Side: Both Sides | **Accumulated Report** | Search Patient

Evaluations List

Date	Side	Type	User
2011/12/12 11:21	Right	Elbow Motion Analysis	admin
2011/12/12 16:38	Right	Elbow Motion Analysis	admin
2011/12/12 11:07	Right	Elbow ROM	admin
2011/12/11 16:40	Left	Finger Motion Analysis	admin
2011/12/12 15:11	Left	Finger Motion Analysis	admin
2011/12/12 12:15	Right	Knee Motion Analysis	admin
2011/12/12 12:04	Right	Knee ROM	admin
2011/12/12 17:04	Right	Knee ROM	admin
2011/12/11 15:50	Left	Range of Motion	admin
2011/12/12 12:57	Left	Range of Motion	admin
2011/12/12 10:32	Left	Wrist Motion Analysis	admin
2011/12/12 15:31	Left	Wrist Motion Analysis	admin

Management

- Users
- Patients
- Settings



Measurements description

The first row in graphs displays **Passive Flexion and Extension** of all sessions in degrees.

The second row in graphs displays **Active Flexion and Extension** of all sessions in degrees.

Knee Motion Analysis

Single Report

The single report shows a single Knee MA evaluation. You can print it or save to file.

To open **single Knee MA** report follows instructions:

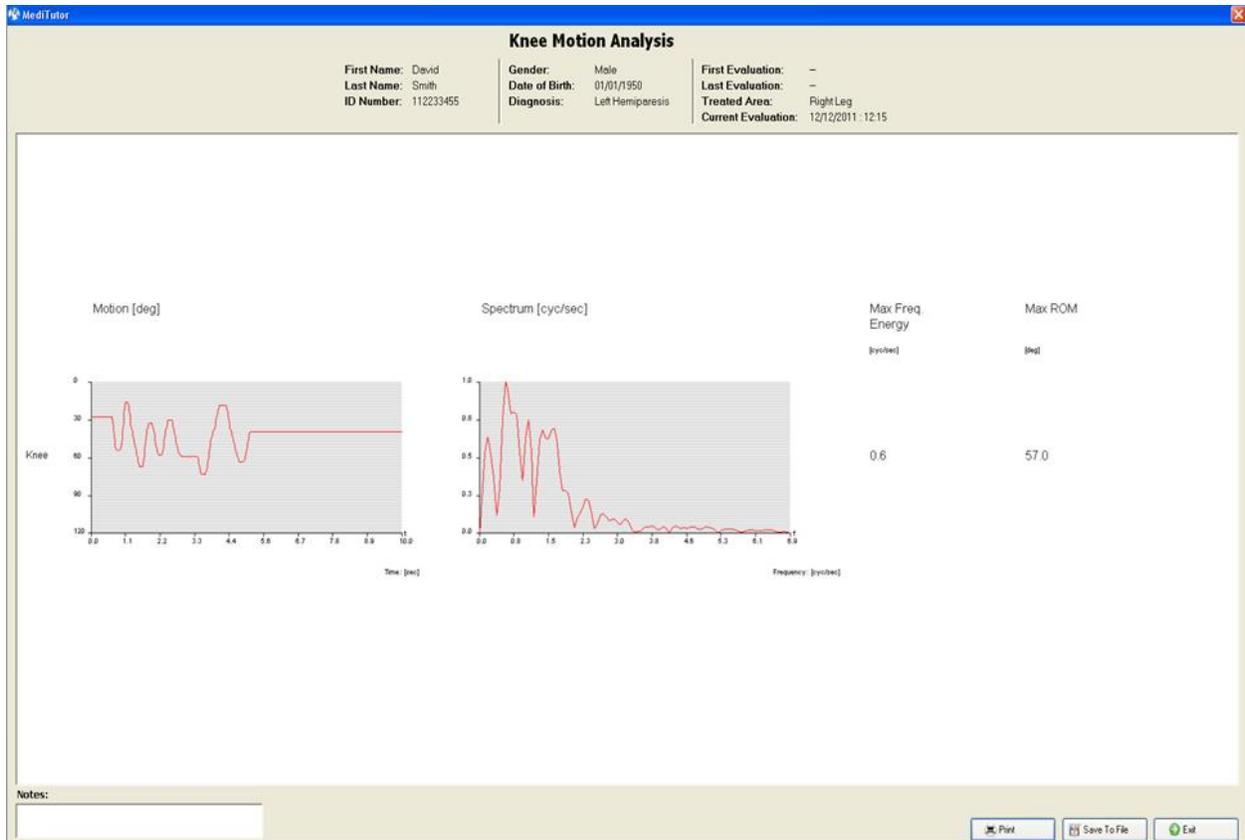
- 1- Select a patient and save his **Knee MA evaluation**
- 2- Go to **Reports**
- 3- Press double click on **Knee MA** record
- 4- **Knee MA** report will appear

- 5- You can **Print** it or **Save To File**
- 6- Press **Exit** to close report

The screenshot shows a software interface for patient evaluations. The top bar indicates the current patient is **Smith David**. Below this, there are filters for 'Type' (set to 'ALL Evaluations') and 'Side' (set to 'Both Sides'). A search bar is also present. The main area displays an 'Evaluations List' table with the following data:

Date	Side	Type	User
2011/12/12 11:21	Right	Elbow Motion Analysis	admin
2011/12/12 16:38	Right	Elbow Motion Analysis	admin
2011/12/12 11:07	Right	Elbow ROM	admin
2011/12/11 16:40	Left	Finger Motion Analysis	admin
2011/12/12 15:11	Left	Finger Motion Analysis	admin
2011/12/12 12:15	Right	Knee Motion Analysis	admin
2011/12/12 12:04	Right	Knee ROM	admin
2011/12/12 17:04	Right	Knee ROM	admin
2011/12/11 15:50	Left	Range of Motion	admin
2011/12/12 12:57	Left	Range of Motion	admin
2011/12/12 10:32	Left	Wrist Motion Analysis	admin
2011/12/12 15:31	Left	Wrist Motion Analysis	admin

The sidebar on the left contains 'Activities' (Treatments, Evaluations, Reports) and 'Management' (Users, Patients, Settings). The 'Reports' option is currently selected.



Measures description

The report shows an analysis of the patients elbow **Motion** in the left hand column during the test period. The **Spectrum** column is a graphical indication of the quality of cyclical movements. The graph is a representation of the **Max Frequency Energy** which is cyclical flexion and extension movements of the fingers achieved by the patient. The active ROM is also detailed in the **Max ROM** column.

Accumulated Report

The accumulated report shows all Knee MA evaluation sessions. You can print it or save to file.

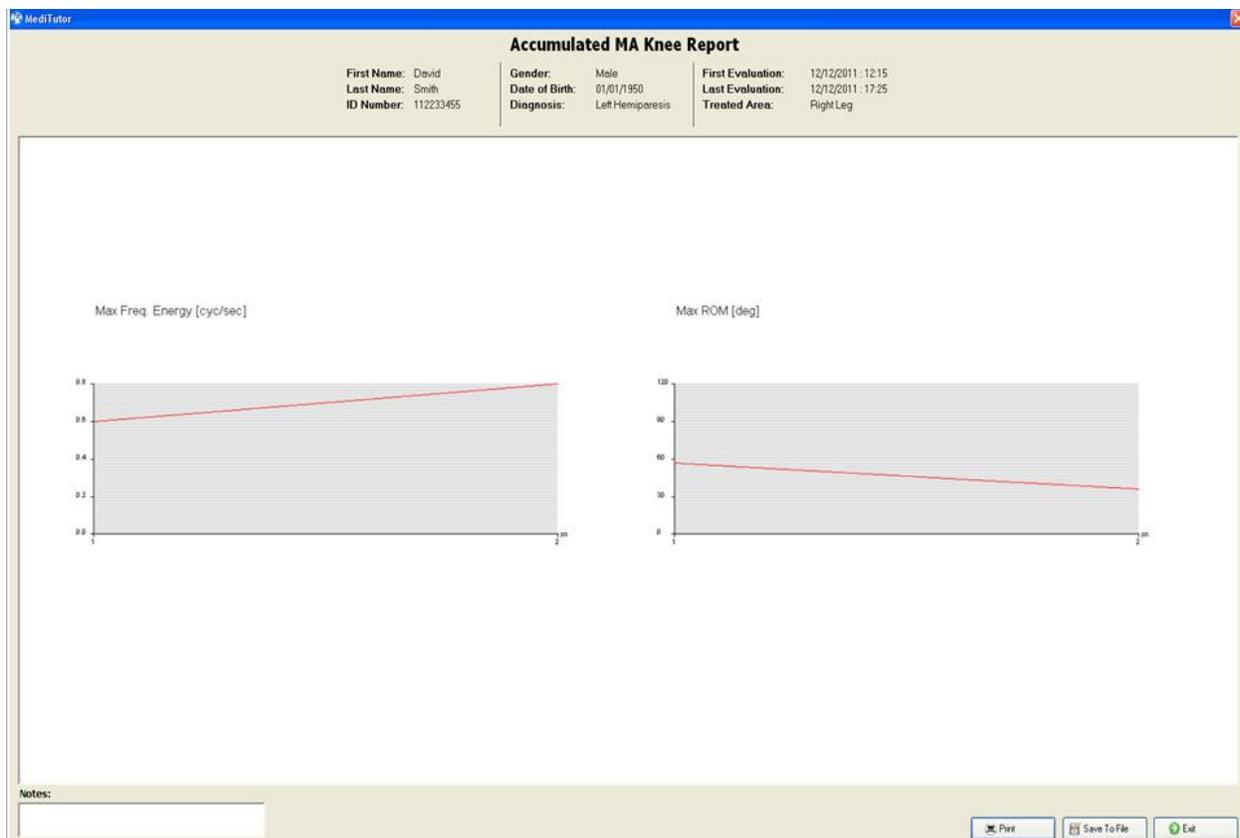
To open **accumulated Knee MA** report follows instructions:

- 1- Select a patient and save at least two **Knee MA evaluation** sessions
- 2- Go to **Reports**
- 3- Choose **Knee MA** record

- 4- Press on **Accumulated Report**
- 5- **Accumulated MA Knee** report will appear
- 6- You can **Print** it or **Save To File**
- 7- Press **Exit** to close report

The screenshot shows a software interface with a left sidebar and a main content area. The sidebar has sections for 'Activities' (Treatments, Evaluations, Reports) and 'Management' (Users, Patients, Settings). The 'Reports' section is highlighted. The main area shows 'Current Patient: Smith David' and a table of 'Evaluations List'. The table has columns for Date, Side, Type, and User. The row for '2011/12/12 12:15' with 'Knee Motion Analysis' is highlighted in blue, and the 'Accumulated Report' button above it is highlighted in yellow.

Date	Side	Type	User
2011/12/12 11:21	Right	Elbow Motion Analysis	admin
2011/12/12 16:38	Right	Elbow Motion Analysis	admin
2011/12/12 11:07	Right	Elbow ROM	admin
2011/12/11 16:40	Left	Finger Motion Analysis	admin
2011/12/12 15:11	Left	Finger Motion Analysis	admin
2011/12/12 12:15	Right	Knee Motion Analysis	admin
2011/12/12 17:25	Right	Knee Motion Analysis	admin
2011/12/12 12:04	Right	Knee ROM	admin
2011/12/12 17:04	Right	Knee ROM	admin
2011/12/11 15:50	Left	Range of Motion	admin
2011/12/12 12:57	Left	Range of Motion	admin
2011/12/12 10:32	Left	Wrist Motion Analysis	admin
2011/12/12 15:31	Left	Wrist Motion Analysis	admin



Measurements description

The first column shows graphs of the **Max Freq. Energy** which is a maximum cyclical velocity of the wrist motion at each evaluation session. The second column shows the **Max ROM** which is the maximal active ROM achieved at each evaluation session.

Filter Report

The filter report allows finding quickly any type of report.

To filter a report follows instructions:

- 1- Select a **patient**
- 2- Go to **Reports**
- 3- Select **Type** of report from the list
- 4- Select **Side** from the list
- 5- Results will appear in **Evaluations List**

The screenshot displays the 'Reports' section of a medical software interface for a patient named 'Smith David'. The interface includes a sidebar with 'Activities' (Treatments, Evaluations, Reports) and 'Management' (Users, Patients, Settings). The main window shows a 'Reports' section with a dropdown menu for 'Type' and a table of report entries.

Date	Side	Type	User
2011/1/1		Range of Motion	admin
2011/1/1		Finger Motion Analysis	admin
2011/12/12 10:32	Left	Wrist Motion Analysis	admin
2011/12/12 11:07	Right	Elbow ROM	admin
2011/12/12 11:21	Right	Elbow Motion Analysis	admin
2011/12/12 12:04	Right	Knee ROM	admin
2011/12/12 12:15	Right	Knee Motion Analysis	admin
2011/12/12 12:57	Left	Range of Motion	admin
2011/12/12 15:11	Left	Finger Motion Analysis	admin
2011/12/12 15:31	Left	Wrist Motion Analysis	admin
2011/12/12 16:38	Right	Elbow Motion Analysis	admin
2011/12/12 17:04	Right	Knee ROM	admin
2011/12/12 17:25	Right	Knee Motion Analysis	admin

Delete Report

The system allows deleting any type of report.

To delete report follow the below instructions:

- 1- Select a **patient**
- 2- Go to **Reports**
- 3- Select **Type** of report from the list
- 4- Select from Evaluations List one record
- 5- Press **Delete**
- 6- A **Question** message will appear.
- 7- Press **Yes**

The screenshot shows a software interface for patient reports. The sidebar on the left has 'Activities' (Treatments, Evaluations, Reports) and 'Management' (Users, Patients, Settings). The main area is titled 'Reports' for 'Current Patient: Smith David'. It features a table of evaluations and a 'Delete Evaluation' button. A dialog box is open, asking 'Delete current evaluation record?' with 'Yes' and 'No' buttons.

Date	Side	Type	User
2011/12/12 10:32	Left	Wrist Motion Analysis	admin
2011/12/12 15:31	Left	Wrist Motion Analysis	admin
2011/12/11 15:50	Left	Range of Motion	admin
2011/12/12 12:57	Left	Range of Motion	admin
2011/12/12 12:04	Right	Knee ROM	admin
2011/12/12 17:04	Right	Knee ROM	admin
2011/12/12 12:15	Right	Knee Motion Analysis	admin
2011/12/12 17:25	Right	Knee Motion Analysis	admin
2011/12/11 16:40		Analysis	admin
2011/12/12 15:11		Analysis	admin
2011/12/12 11:07		Analysis	admin
2011/12/12 11:21		Analysis	admin
2011/12/12 16:38		Analysis	admin

Search Patient's Reports

The system allows searching quickly a patient's reports.

To search patient's reports follow the below instructions:

- 1- Go to **Reports**
- 2- Press **Search**
- 3- **Search Patient** window will appear
- 4- **Choose** your patient
- 5- Press **double click** on your patient
- 6- Press **Yes**
- 7- Results will appear in **Evaluations List**

Activities | **Reports** | Current Patient : **Obama Barak**

Type: ALL Evaluations | Side: Both Sides | Accumulated Report | **Search Patient** | Delete Evaluation

Evaluations List

Date	Side	Type	User

Search Patient

Add Edit Assign Therapist Start Activity

First Name: Last Name: ID No.: Search

Search Results Filter: Find My Patients

ID No.	First Name	Last Name	Address	Phone No.	Date of Birth	Description
965487456	Barak	Obama	1100 Bronks	077-985631258	01/01/1945	
548712365	Bob	Slog			16/11/2011	

Management

- Users
- Patients
- Settings

Activities | **Reports** | Current Patient : **Obama Barak**

Type: ALL Evaluations | Side: Both Sides | Accumulated Report | Search Patient

Evaluations List

Date	Side	Type	User
2011/11/17 15:59	Right	Range of Motion	admin
2011/11/17 16:00	Right	Range of Motion	admin

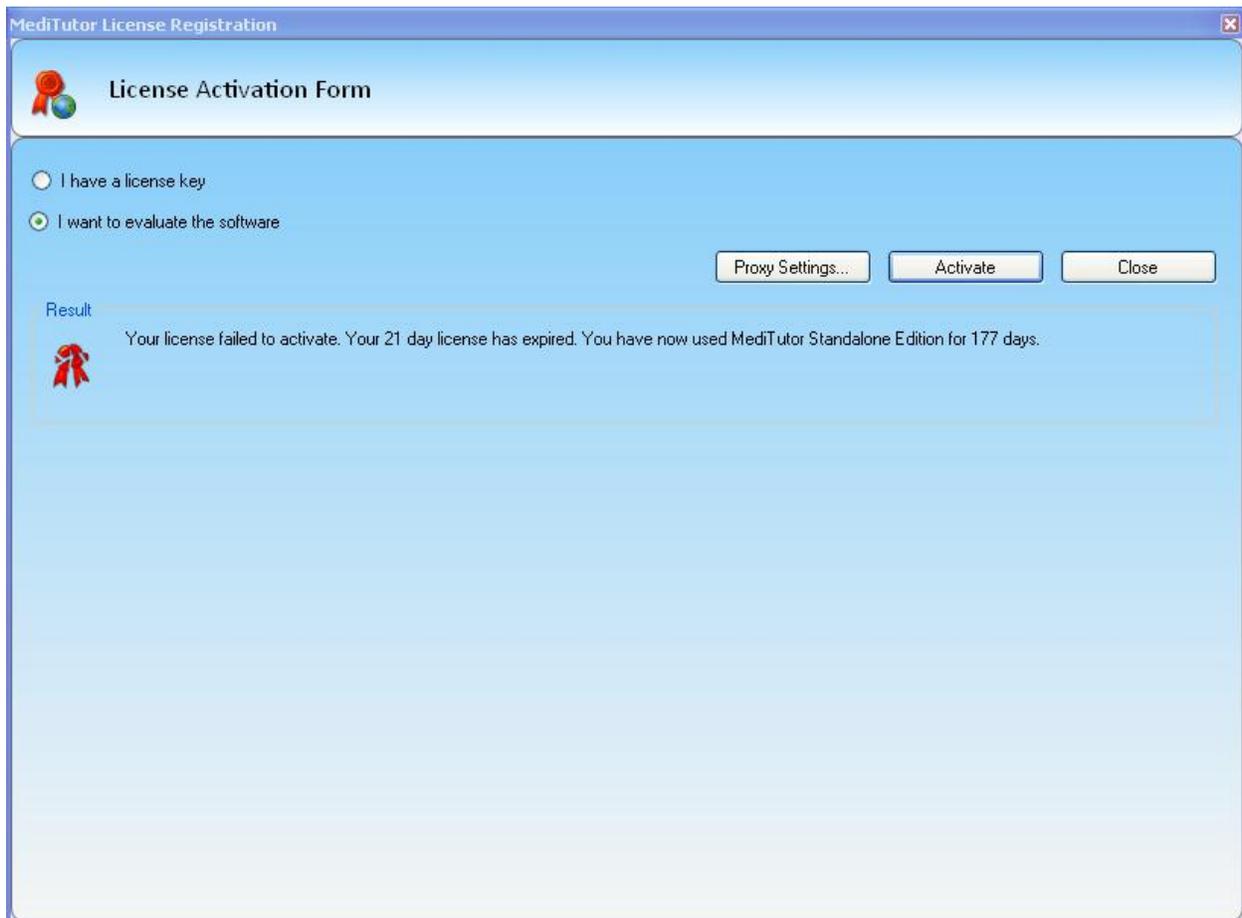
Management

- Users
- Patients
- Settings

TROUBLESHOOTING

Licensing

Your License failed to activate. Your 21 days license has expired



Solution:

Contact MediTouch support and request valid activation key.

The [device name] is not supported with the current license



Solution:

Insert valid activation key related to your device.

Users

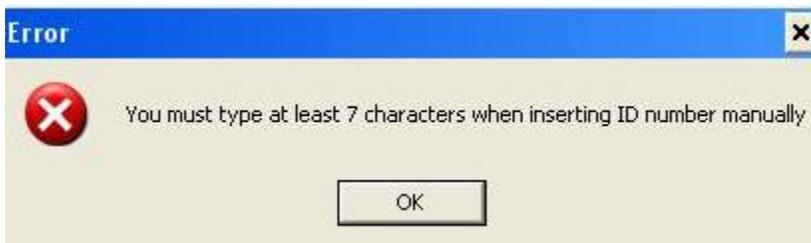
User name already exist



Solution:

Enter unique user name.

You must type at least 7 characters



Solution:

Enter at least 7 numbers.

ID number already in Database



Solution:

Enter unique id number

Patients

This patient already exist



Solution:

Enter unique ID number

Settings

Bluetooth is not supported



Solution:

Connect the Bluetooth dongle and verify the Search button enable.

Treatments

Device is not connected



Solution:

Connect the device, calibrate it and run the treatment.

Evaluations

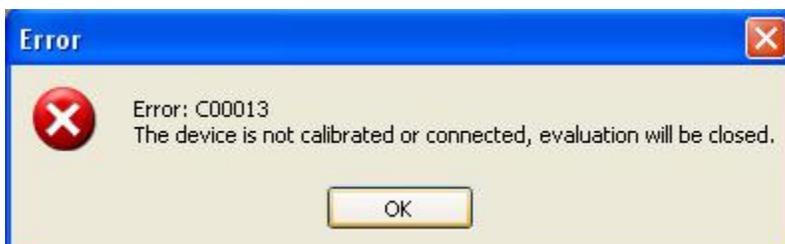
Device is not calibrated



Solution:

Calibrate the device and run the treatment.

The device is not calibrated or connected



Solution:

Connect the device, calibrate it and run the evaluation.

There are not enough treatment records for an accumulated report



Solution:

Save at least two evaluations from the same type.

UNINSTALLATION

How to uninstall MediTutor

- 1- Go to **Start > All programs > MediTutor**
- 2- Press on **Uninstall MediTutor**

Or

- 1- Open from **Control Panel > Add or Remove Programs**
- 2- Choose **MediTutor v.5** and press **Remove**