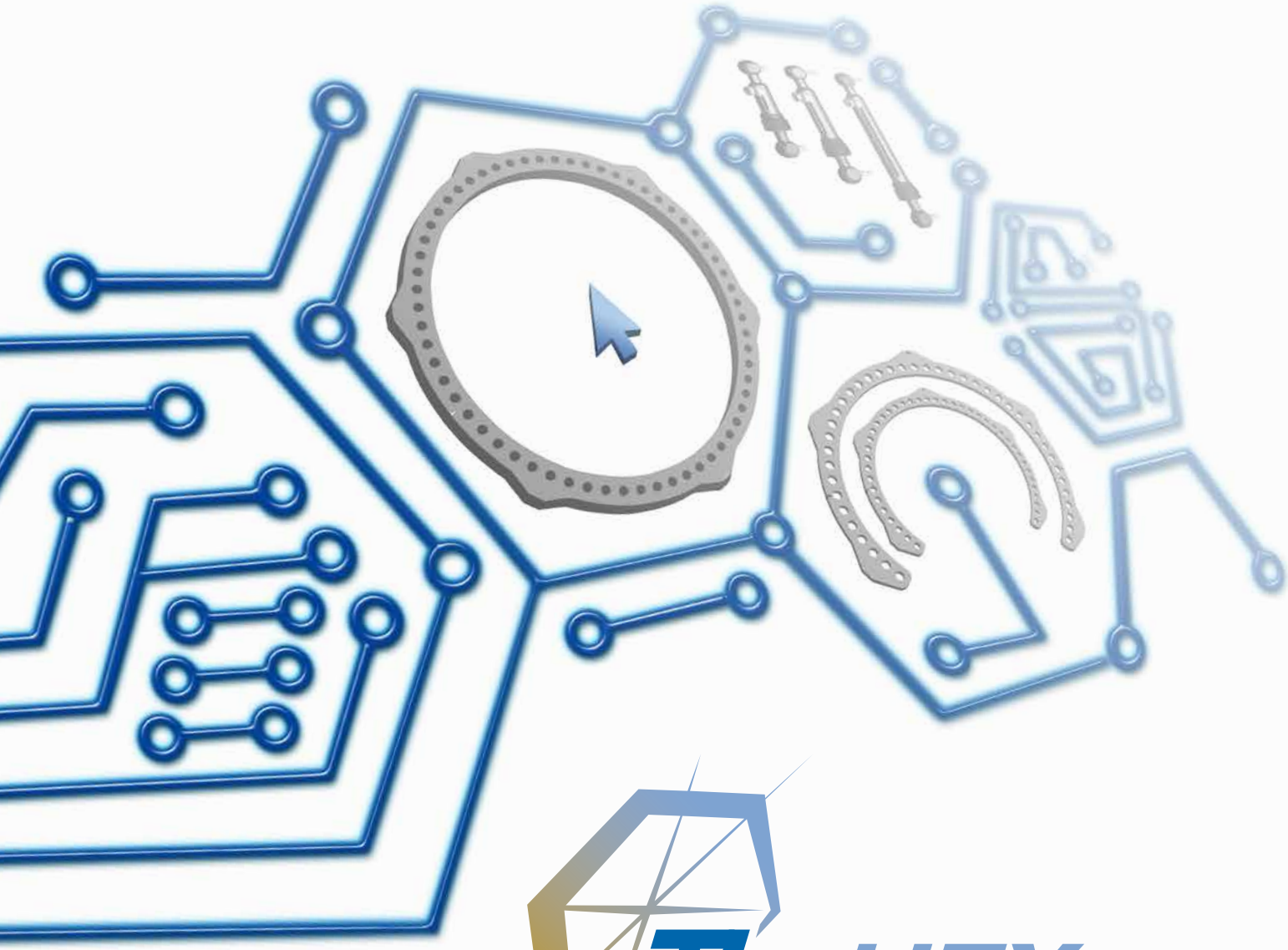


TL-HEX

TRUELOK HEXAPOD SYSTEM

Quick User's Guide

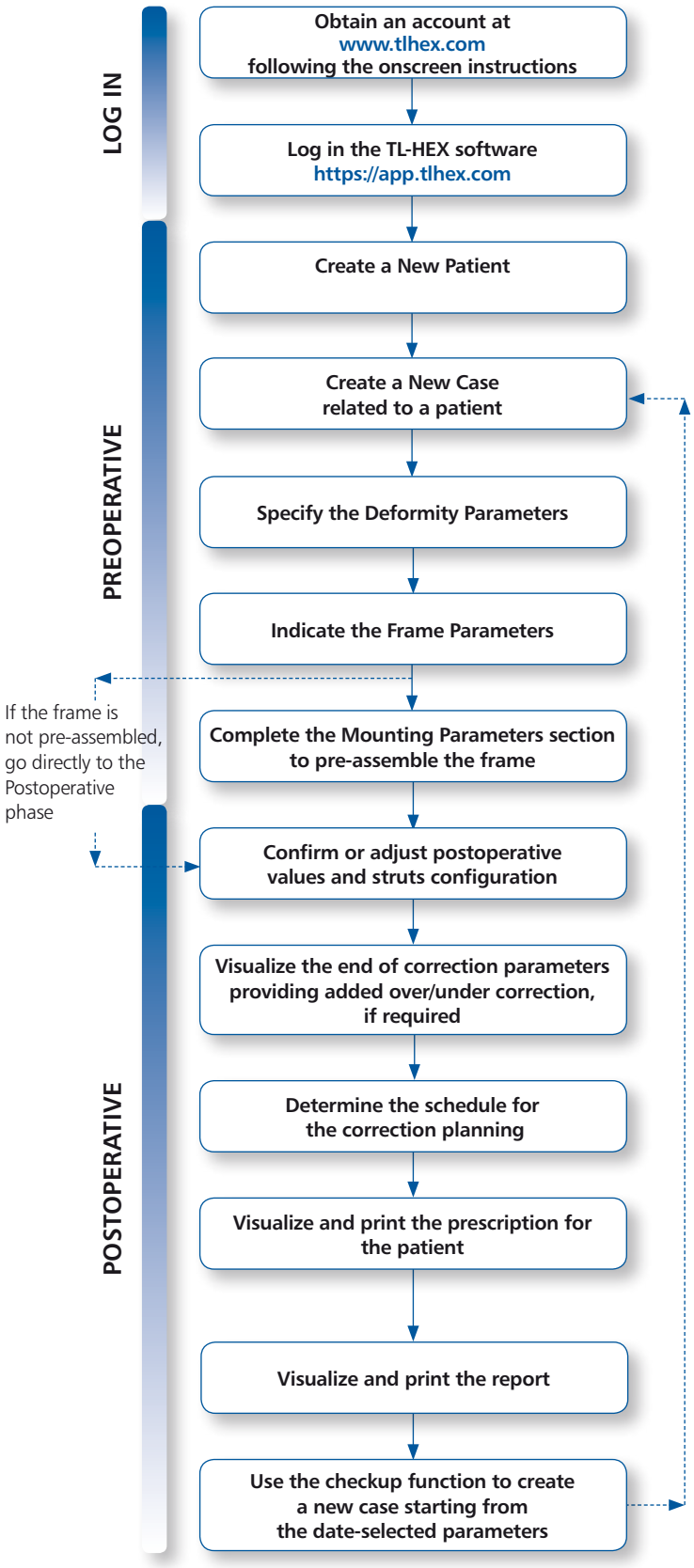
Software Version 1.2

ORTHOFIX®

Orthofix wishes to thank the following surgeons for their contribution to the development of this User's Guide:

Franz Birkholtz, M.D.
Alexander Cherkashin, M.D.
Mikhail Samchukov, M.D.
William Terrell, M.D.

The following provides a sequential overview of the process for a case management with TL-HEX software



Access to the TL-HEX software is controlled by Username and Password. These can be obtained at www.tlhex.com by requesting a new account and following the onscreen instructions.
see screen 1 for details.

Enter a valid Username and Password in the appropriate text fields and click Sign In to gain access to the software.
see screen 2 for details.

In the Add New Patient screen, create a new patient if the patient doesn't exist. Each case must be linked to an existing patient.
see screen 4 for details.

To start a new treatment, create a new case. Select patient from the ones available in the drop-down list providing the information required (Case Name, Case Number, Side).
see screen 7 for details

Describe the deformity starting from the reference segment identification. Then, provide the relevant parameters relative to the angular deformity, rotation, translation and bone length discrepancy.
see screen 8 for details

Indicate the ring type and size that will be used for the frame building. Full and 5/8 rings are available from 140 to 220 mm ring size.
see screen 9 for details.

Complete this section with details of the planned frame position, relative to either the deformity apex or the osteotomy/fracture level. Strut types and lengths are being suggested.
see screen 9 for details.

Provide the actual frame parameters and position as mounted and adjust/modify the struts configuration to adapt them to the configuration obtained during the surgery.
see screen 10 for details.

Visualize the expected results at the end of correction.
If necessary, specify the eventual over/under correction parameters to be considered in the treatment.
see screen 11 for details.

Define the schedule by specifying the latency period, the maximum rates and speeds of correction or the desired days of correction.
see screen 12 for details.

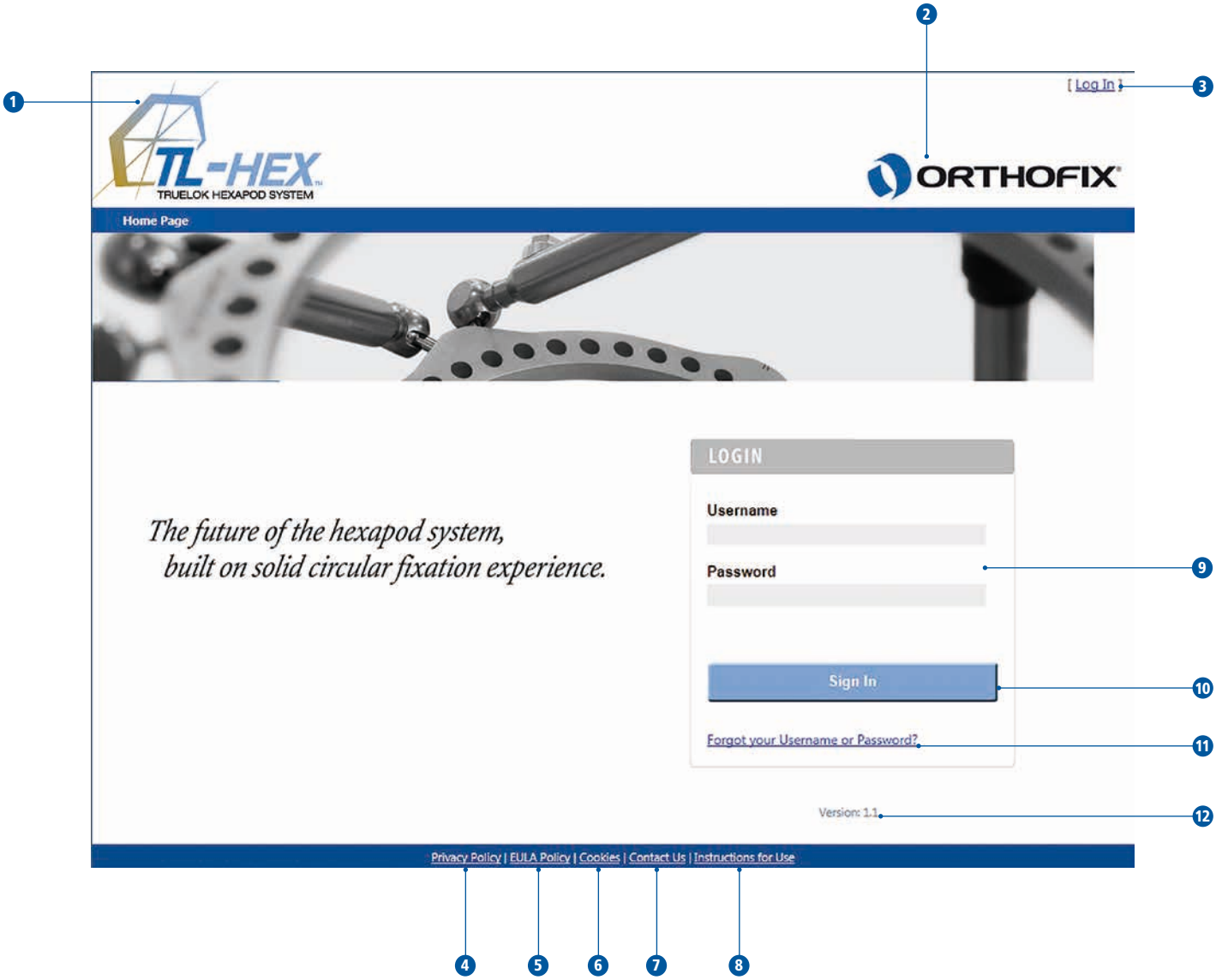
Once all data are approved by the surgeon, the schedule is completed and the prescription is generated. This can be saved and a hard copy must be given to the patient. For each correction step, the number of turns the patient must make are indicated for each strut, as well as the gradual length.
see screen 13 for details.

A more detailed prescription is available for the surgeon in the report section where, per each strut, indication of the acute and gradual correction is given.
see screen 14 for details.

Surgeon can use the checkup function to generate a new case starting from a specific date of the treatment. This new case will report all the parameters updated to the selected date. The Surgeon can then proceed to setup a new deformity correction treatment.
see screen 15 for details.

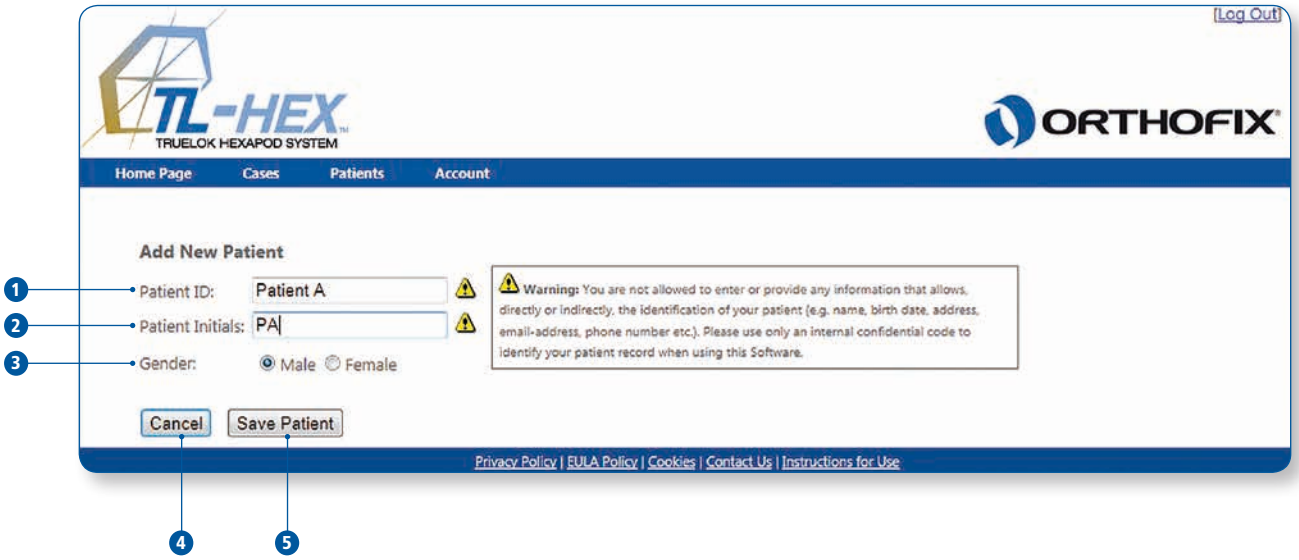

TL-HEX
TRUELOK HEXAPOD SYSTEM
ORTHOFIX
PRODUCT INFORMATION
TRAINING
FAQ
CONTACT US
The future of the hexapod system built on solid circular fixation experience
MEMBERS AREA
LOGIN
1
NEW USERS
Request an Account
2
PRIVACY POLICY | COOKIES | CONTACT US

1. Request a New Account	
	Description
1	Click [Login] to access the software if the account is already activated and the user has his/her own username and password
2	Click [Request an Account] button and follow the onscreen instructions to obtain a valid access to the TL-HEX software.


1
2
3
[Log In]
TL-HEX
TRUELOK HEXAPOD SYSTEM
ORTHOFIX
Home Page
The future of the hexapod system,
built on solid circular fixation experience.
LOGIN
Username
Password
9
Sign In
10
Forgot your Username or Password?
11
Version: 1.1
12
Privacy Policy | EULA Policy | Cookies | Contact Us | Instructions for Use
4
5
6
7
8

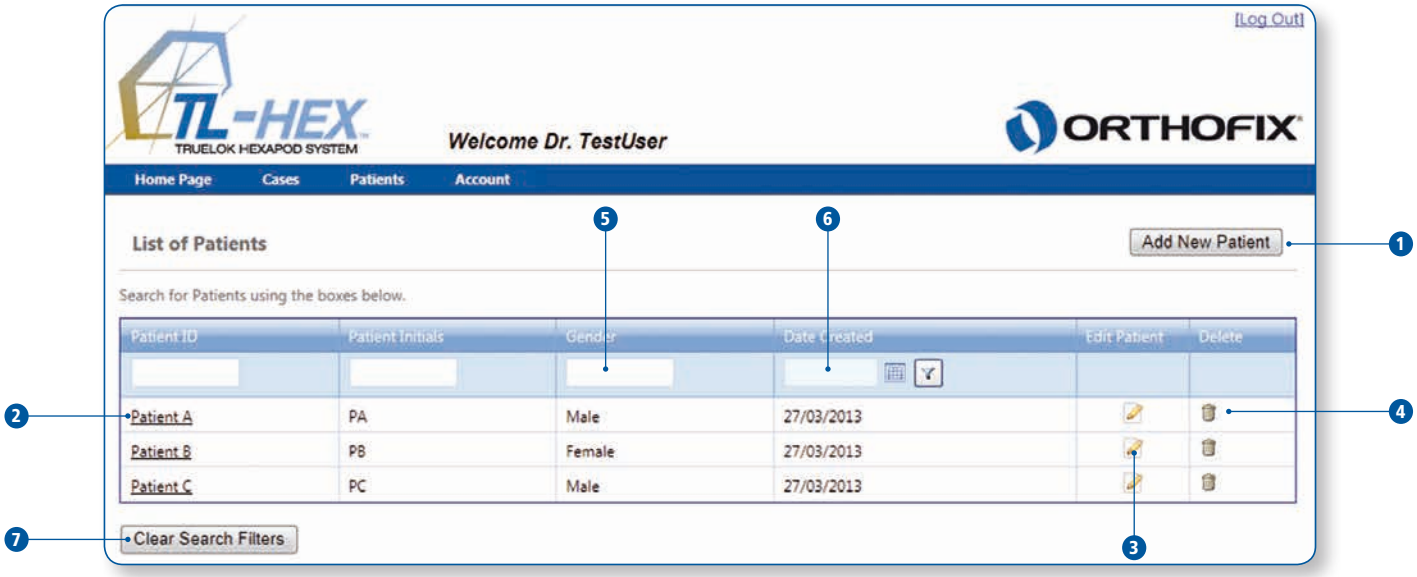
2. Login Page	
	Description
HEADER - This section is reported in all the application pages	
1	Click the TL-HEX logo to go to the product website www.tlhex.com
2	Click the Orthofix logo to go to the Company website intl.orthofix.com
3	[Log In] - if the user is not logged in By clicking [Log In], the user is forwarded to the Login page. [Log Out] - if the user is logged in By clicking [Log out], the user will be logged out by the application and return to the homepage
FOOTER - This section is reported in all the application pages	
4	Click [Privacy Policy] to display the Privacy Policy statement
5	Click [EULA Policy] to review the End User Licence Agreement subscribed for the application
6	Click [Cookies] to review the Cookies statement
7	Click [Contact us] to find how to contact the TL-HEX Customer Care support
8	Click [Instruction for Use] to access the TL-HEX document area
Login	
9	Enter a valid username and password in the appropriate text fields *Please note that username and password are case sensitive.*
10	Click [Sign In] button to access to the TL-HEX software
11	Click the link *Forgot your Username or Password?* and follow the displayed instructions to recover username and/or password
12	Current Software version

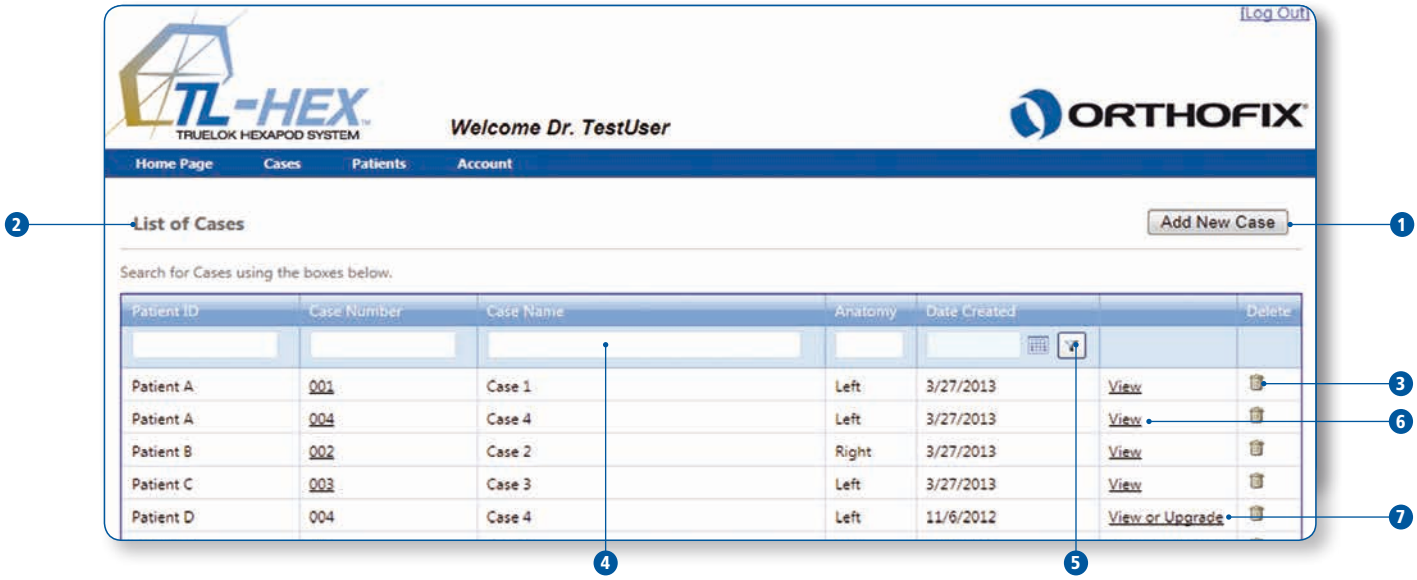

1
2
3
4
[Log Out]
TL-HEX
TRUELOK HEXAPOD SYSTEM
ORTHOFIX
Home Page
Cases
Patients
Account
The future of the hexapod system,
built on solid circular fixation experience.
The TL-HEX System is a hexapod style external circular fixation system developed at Texas Scottish Rite Hospital for Children (TSRHC) in Dallas, Texas, US. It consists of orthopaedic hardware and associated software for simplified deformity correction and trauma management.
The TL-HEX System is fully compatible with the TrueLok™ System and will support fracture fixation, limb lengthening, treatment of non-union and deformity corrections in long bones in both adult and pediatric patients.
The TL-HEX is simple and flexible, it allows for fast and easy assembly and provides Orthofix proven stability for optimal healing.
TL-HEX online software provides the tool for surgeon to plan and conduct deformity correction, and calculates individual patient prescription.
For more product information and contacts: www.tlhex.com
TL-HEX
TRUELOK HEXAPOD SYSTEM

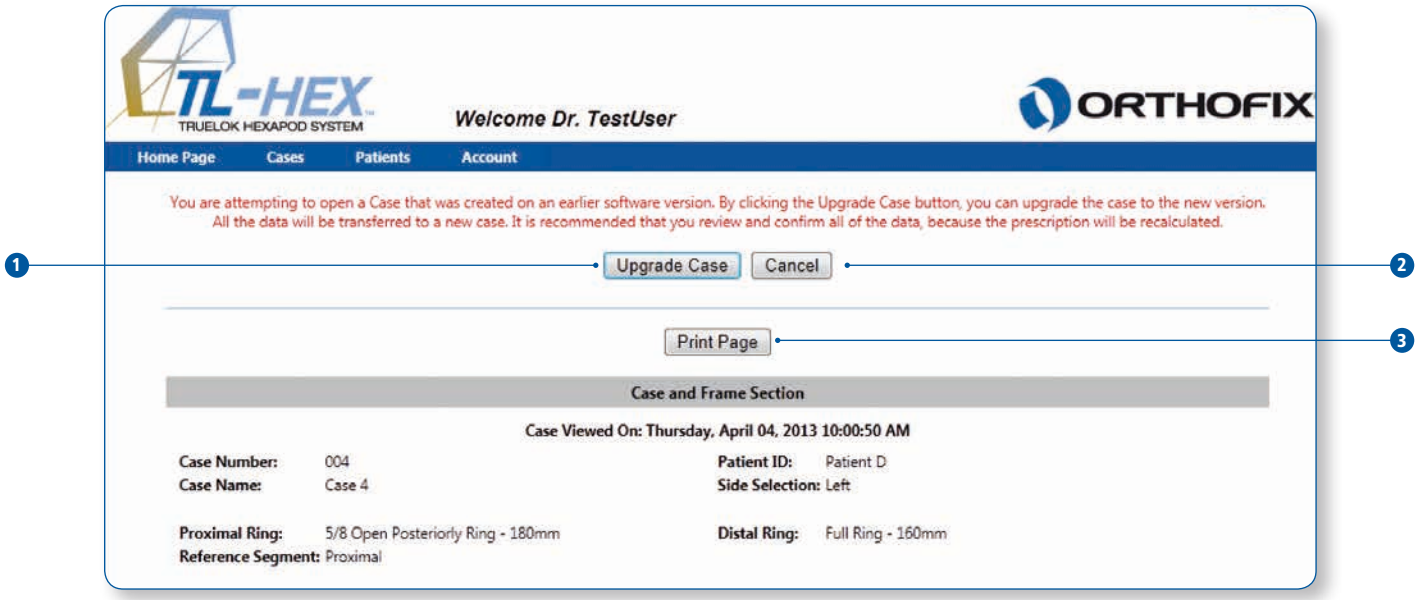

[Log Out]
TL-HEX
TRUELOK HEXAPOD SYSTEM
ORTHOFIX
Home Page
Cases
Patients
Account
Add New Patient
1
Patient ID:
Patient A
2
Patient Initials:
PA
3
Gender:
Male
Female
Warning: You are not allowed to enter or provide any information that allows, directly or indirectly, the identification of your patient (e.g. name, birth date, address, email-address, phone number etc.). Please use only an internal confidential code to identify your patient record when using this Software.
Cancel
Save Patient
Privacy Policy | EULA Policy | Cookies | Contact Us | Instructions for Use
4
5

3. Home Page	
MENU STRUCTURE - Reported in all the application pages when user is logged in	
	Description
1	Click [Home Page] to return to the application Homepage
2	Click [Cases] to access to the Cases Menu functionalities • Select [List of Cases] to view all the cases (see screen N°.6 for detail) • Select [Add New Case] to start a new case (see screen N°.7 for detail)
3	Click [Patients] to access to the Patients Menu functionalities • Select [List of Patients] to view all the registered patients (see screen N°.5 for detail) • Select [Add New Patient] to start a new patient registration (see screen N°.4 for detail) All cases are related to a patient, therefore a new patient who doesn't exist must be created prior to begin a new case.
4	Click [Account] to access to the Account Menu functionalities • Select [Change password] to invoke the change password procedure (see screen N°.16 for detail)

4. Patient → Add New Patient	
	Description
1	Insert the Patient ID
2	Insert Patient Initials or other reference associated with the patient
3	Select Patient Gender • Male - or - • Female
4	By clicking [Cancel] all the entered information is discarded and the application returns to the List of Patients screen (see screen N°.5 for detail)
5	Click [Save Patient] to create a new patient and move to the List of Patients screen (see screen N°.5 for detail)
⚠	**Warning:** Under the Orthofix Terms of Use, the surgeon should never enter information that directly identifies a patient. The patient number is intended to be used as an identifying link to the patient within the surgeon's patient management system.


[Log Out]
TL-HEX
TRUELOK HEXAPOD SYSTEM
Welcome Dr. TestUser
ORTHOFIX
Home Page
Cases
Patients
Account
List of Patients
Add New Patient
Search for Patients using the boxes below.
Patient ID
Patient Initials
Gender
Date Created
Edit Patient
Delete
Patient A
PA
Male
27/03/2013
Patient B
PB
Female
27/03/2013
Patient C
PC
Male
27/03/2013
Clear Search Filters
1
2
3
4
5
6
7

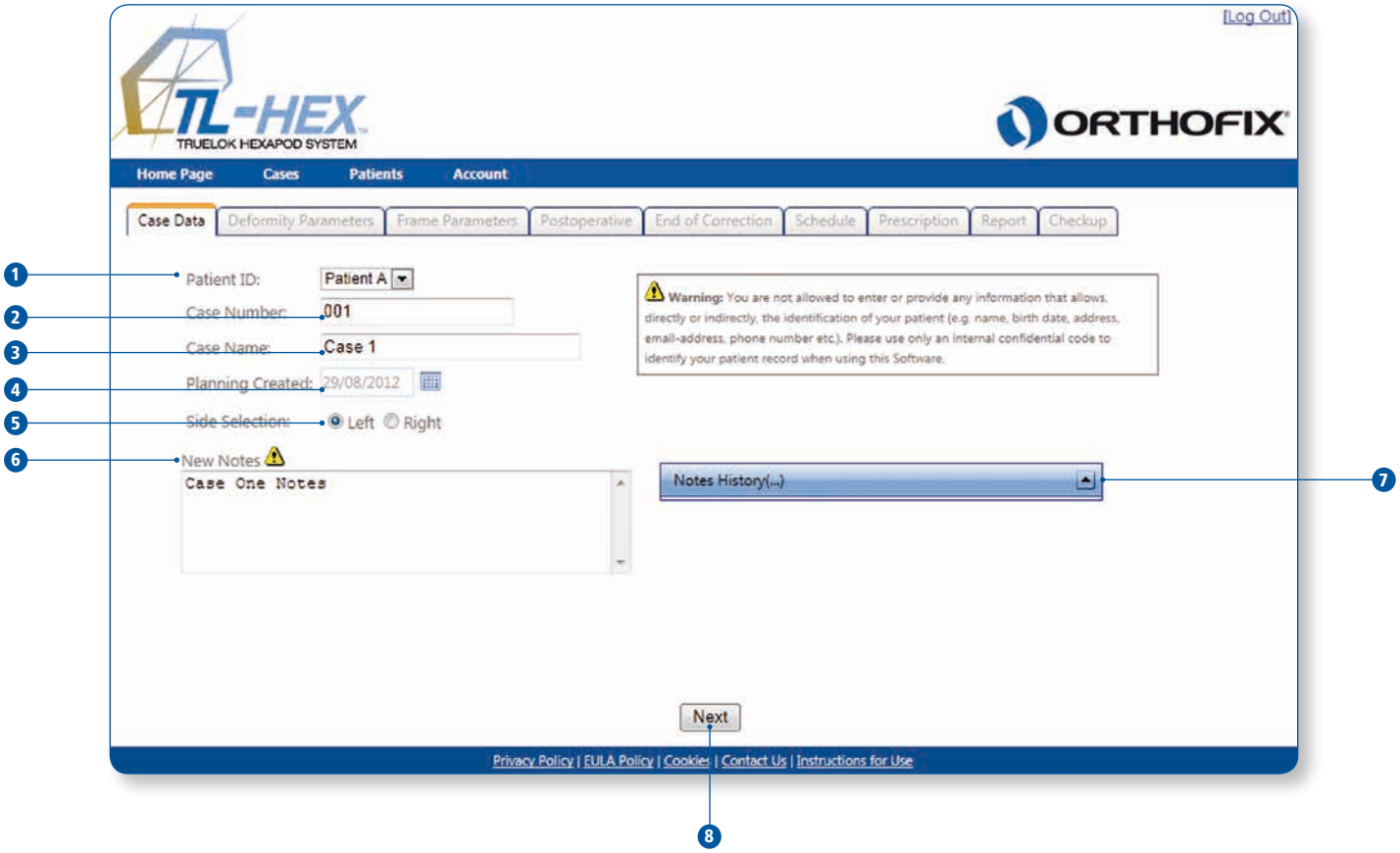

[Log Out]
TL-HEX
TRUELOK HEXAPOD SYSTEM
Welcome Dr. TestUser
ORTHOFIX
Home Page
Cases
Patients
Account
List of Cases
Add New Case
Search for Cases using the boxes below.
Patient ID
Case Number
Case Name
Anatomy
Date Created
Delete
Patient A
001
Case 1
Left
3/27/2013
View
Patient A
004
Case 4
Left
3/27/2013
View
Patient B
002
Case 2
Right
3/27/2013
View
Patient C
003
Case 3
Left
3/27/2013
View
Patient D
004
Case 4
Left
11/6/2012
View or Upgrade
1
2
3
4
5
6
7


TL-HEX
TRUELOK HEXAPOD SYSTEM
Welcome Dr. TestUser
ORTHOFIX
Home Page
Cases
Patients
Account
You are attempting to open a Case that was created on an earlier software version. By clicking the Upgrade Case button, you can upgrade the case to the new version.
All the data will be transferred to a new case. It is recommended that you review and confirm all of the data, because the prescription will be recalculated.
Upgrade Case
Cancel
Print Page
Case and Frame Section
Case Viewed On: Thursday, April 04, 2013 10:00:50 AM
Case Number: 004
Case Name: Case 4
Patient ID: Patient D
Side Selection: Left
Proximal Ring: 5/8 Open Posteriorly Ring - 180mm
Reference Segment: Proximal
Distal Ring: Full Ring - 160mm
1
2
3

5. Patient → List of Patients	
	Description
1	Click [Add New Patient] to create a new patient (see screen Nº.4 for detail)
2	Select the Patient ID to lead to the list of cases associated with this patient
3	Click the icon to edit patient details
4	Click the icon to delete definitively a Patient. The application asks to confirm the deletion. **Delete action cannot be undone and implies that all the cases related to that patient will be deleted**
5	Use the box related to each header to filter and search the content based on a specified criteria
6	For Date Created header it is possibile to set complex filter using the available function, by clicking icon
7	To remove any filter, click [Clear search filters]

6. Cases →List of Cases	
	Description
1	Click [Add New Case] to create a new case (see screen Nº.7 for detail)
2	By default, all the cases are sorted by Patient ID. Click any of the headers (i.e. Patient ID, Case Number, Case Name, Anatomy and Date created) to change the sort
3	Click the icon to delete definitively a Case. The application asks to confirm the deletion. **Delete action cannot be undone**
4	Use the box related to each header to filter and search the content based on a specified criteria
5	For Date Created header, it is possibile to set complex filter using the available function, by clicking the
6	The cases created with SW version 1.2 have an additional link "View" that allows a read-only version of the case to be displayed
7	In the case created with the older software version (1.1), the additional link field is VIEW OR UPGRADE

	Description
1	Click [Upgrade Case] to generate a new case using the old case input data
2	Click [Cancel] to close the page and go back to List of Cases page
3	Click [Print the page] to Print the page


[Log Out]
TL-HEX
TRUELOK HEXAPOD SYSTEM
ORTHOFIX
Home Page
Cases
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Account
Case Data
Deformity Parameters
Frame Parameters
Postoperative
End of Correction
Schedule
Prescription
Report
Checkup
1
Patient ID:
Patient A
2
Case Number:
001
3
Case Name:
Case 1
4
Planning Created:
29/08/2012
5
Side Selection:
Left
Right
6
New Notes
Case One Notes
Warning: You are not allowed to enter or provide any information that allows, directly or indirectly, the identification of your patient (e.g. name, birth date, address, email-address, phone number etc.). Please use only an internal confidential code to identify your patient record when using this Software.
Notes History(...)
7
Next
8
Privacy Policy | EULA Policy | Cookies | Contact Us | Instructions for Use

7. Cases → Add New Case	
	Description
1	Select the Patient from the drop-down selector. If no patients have been entered, the drop-down selector will be empty. To create a Patient before beginning a case creation see screen N°.4 for details
2	Assign the Case Number
3	Specify the Case Name (reference associated with this case)
4	Select the Planning Date by clicking the calendar icon
5	Select the side • Left - or - • Right
6	Specify additional notes, if any
7	Review the inserted notes, if existing
8	Click [Next] to proceed with the next steps in the treatment planning process [Deformity Parameters].
⚠	**Warning:** Under the Orthofix Terms of Use, the surgeon should never enter information that directly identifies a patient. The patient number is intended to be used as an identifying link to the patient within the surgeon's patient management system


[Log Out]
TL-HEX
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Home Page
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Patients
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Case Data
Deformity Parameters
Frame Parameters
Postoperative
End of Correction
Schedule
Prescription
Report
Checkup
Case Number: 001
Case Name: Case 1
Patient ID: Patient A
Side Selection: Left
Reference Segment: Proximal Distal
AP Plane Angular Deformity (deg) 0
Valgus Varus
ML Plane Angular Deformity (deg) 0
Apex Anterior Apex Posterior
Rotation (deg) 0
External Internal
AP Plane Translation (mm) 0
Medial Lateral
ML Plane Translation (mm) 0
Anterior Posterior
Axial Translation (mm) 0
Short
Long
Bone Length (mm) 0
Short
Long
Update Views
AP view
ML view
Axial view
Previous
Next
Privacy Policy | EULA Policy | Cookies | Contact Us | Instructions for Use
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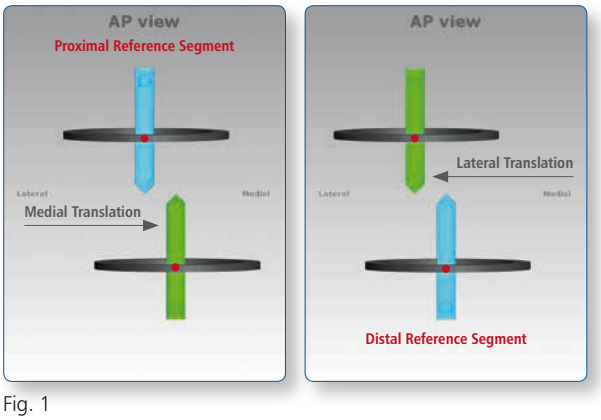
7
8
9
10
11

8. Deformity Paramaters	
	Description
1	Summary of Case Data provided in the Case Data tab
Deformity Parameters	
2	Choose the reference segment as • Proximal - or - • Distal Refer to the Fig. 1 for the description of the moving bone segment translation depending on proximal or distal location of the reference segment.  Fig. 1 In the software diagram [10], the reference segment is colored in blue while the moving segment is colored in green
ANGULATION	
3	Insert *coronal plane* angulation (AP view) in degrees. This can be either • Valgus - or • Varus, depending whether the distal segment is bent towards or away from the midline
4	Insert *sagittal plane* angulation (MP view) in degrees. It is described as • Apex Anterior (procurvatum) - or- • Apex Posterior (recurvatum)
5	Insert horizonal plane angulation (Axial view) in degrees. It is described as • External rotation - or - • Internal rotation
TRANSLATION	
6	Insert *coronal plane* translation (AP view) in mm. It is described as • Medial - or - • Lateral
7	Insert *sagittal plane* translation (MP view) in mm. It is described as • Anterior - or - • Posterior
8	Insert *axial translation* (Axial view) in mm as • Short, used when the moving bone segment is translated (compressed) towards the reference bone segment - or - • Long, used when the moving bone segment is translated (distracted) away the reference bone segment Bone length is a clinical paramater indicating limb length discrepancy relative to the contralateral limb. • Short - or - • Long Depending on the relevant amount of bone length discrepancy in mm.
9	Click [Update Views] button at any time to refresh the display according to the parameters entered
10	These are three diagrams in the software. AP view: corresponding to the AP X-ray of the limb ML view: representing the ML X-ray of the limb Axial view: representing the view looking either up or down the limb from the reference segment
11	Click on [Previous] button to return to the previous tab [Case Data] Click on [Next] button to move to the next tab [Frame Parameters]

[Log Out]

TL-HEX TRUELOK HEXAPOD SYSTEM

Welcome Dr. TestUser

ORTHOFIX

Home Page | Cases | Patients | Account

Case Data | Deformity Parameters | Frame Parameters | Postoperative | End of Correction | Schedule | Prescription | Report | Checkup

Case Number: 001
Case Name: Case 1

Patient ID: Patient A
Side Selection: Left

Select External Supports

Print Page

Proximal Support - Ring Type: Full Ring — Ring Size 180mm

Distal Support - Ring Type: Full Ring — Ring Size 180mm

Preoperative Mounting Parameters

Reference Ring Parameters

AP Translation (mm) 0 — Medial / Lateral

ML Translation (mm) 0 — Anterior / Posterior

Frame Rotation 0

Ring Position

Reference Ring (mm) 50 — Proximal / Distal

Second Ring (mm) 50

Position Relative To — Deformity Apex / Osteotomy/Fracture Level

Modify Horizontal Fragments Translation (mm)

Medial / Lateral 0

Anterior / Posterior 0

Update Views

AP view | ML view | Axial view

Total	Strut 1 (mm): 185	Strut 2 (mm): 146	Strut 3 (mm): 108	Strut 4 (mm): 103	Strut 5 (mm): 123	Strut 6 (mm): 170
Size	Long	Medium	Short	Short	Medium	Medium
Acute	0	0	15	10	8	22
Gradual	53	3	14	14	34	1

Previous | Next

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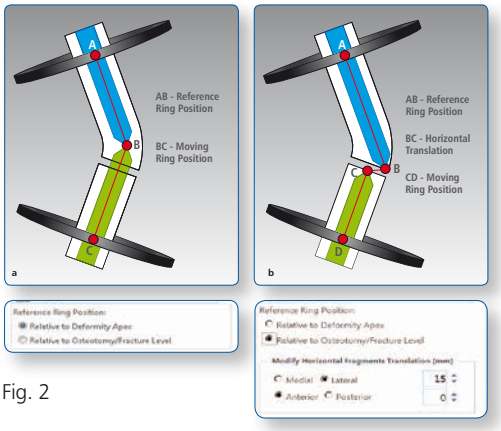
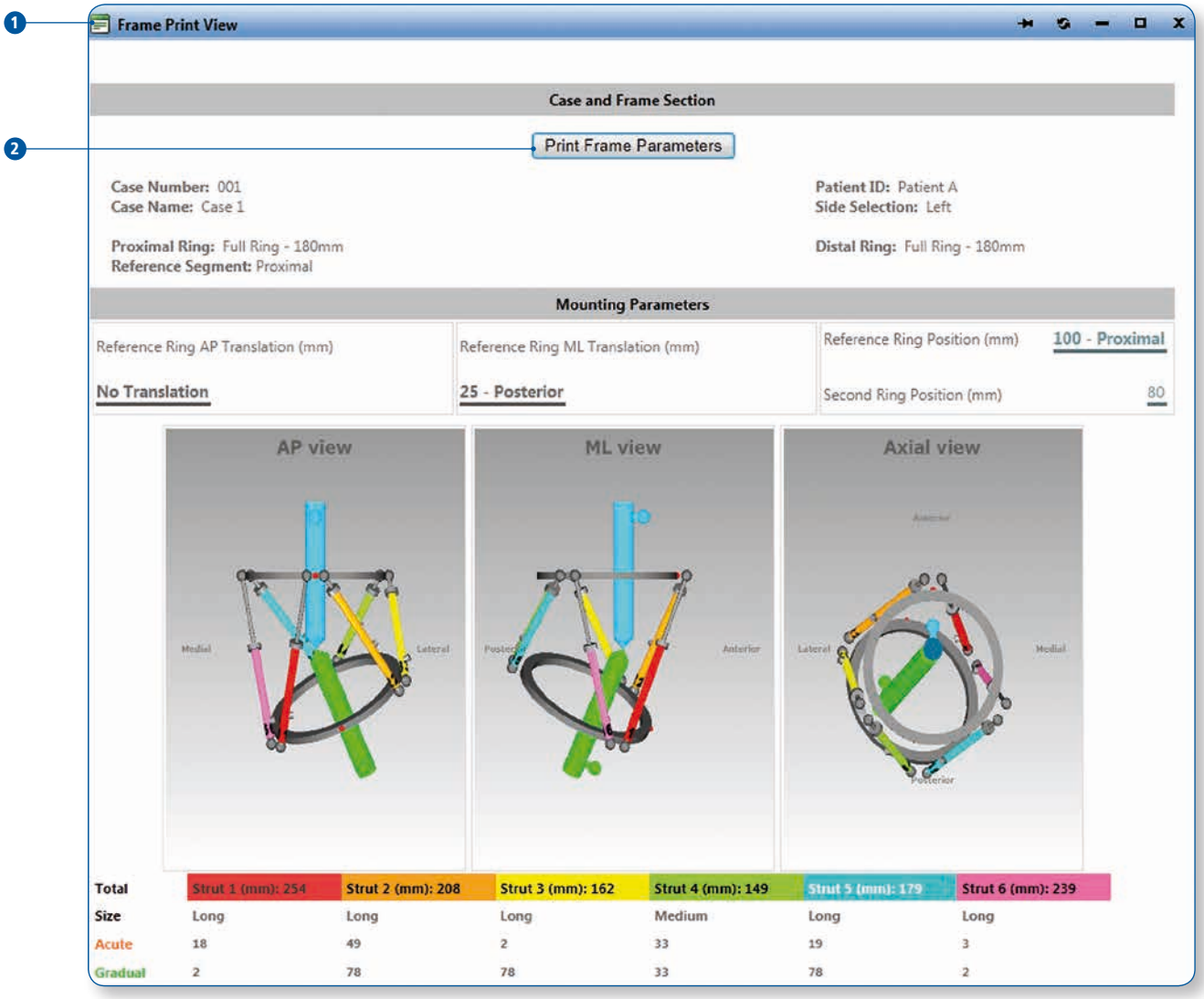
1 2 3 4 5 6 7 8 9 10 11 12 13

9. Frame Parameters		
	Description	
1	Summary of Case Data provided in the Case Data tab	
2	Click [Print Page] to print out the complete planning when it is completed	
External Supports specification		
	Ring Type available • Full Ring • 5/8 Open Posteriorly Ring • 5/8 Open Medially Ring • 5/8 Open Anteriorly Ring	Ring Size available • 140mm • 160mm • 180mm • 200mm • 220mm
3	Select proximal support ring type and size from the drop-down selectors	
4	Select distal support ring type and size from the drop-down selectors	
MOUNTING PARAMETERS SECTION - optional. The default assumption is that both proximal and distal external supports are perpendicular to the corresponding bone segment axis and located at 50mm distance from the point of interest.		
5	Adjust the position of the reference ring in the coronal plane (AP translation) in mm • Medial - or - • Lateral	
6	Adjust the position of the reference ring in the sagittal plane (ML translation) in mm • Anterior - or - • Posterior	
7	Adjust the reference ring position, in the axial direction in mm, described as • Proximal - or - • Distal Adjust the moving ring (second ring) position in mm	
8	Determine the point of interest for the reference ring position Relative to Deformity Apex - or - Relative to Osteotomy/Fracture Level Refer to Fig. 2 for the description of the reference ring position relative to deformity apex (a) or osteotomy/ fracture level (b)  Fig. 2 If the AP or ML view translation was entered into the deformity parameters section, the osteotomy/fracture level is automatically chosen as point of interest	
9	Frame Rotation field with the relevant read-only value. The software will automatically change the orientation offset of the 5/8 ring	
10	Click [Update Views] button, after entering the mounting parameters, will reveal the preassembled frame construct and render a set of strut lenghts that will result in the required frame	
11	These are the three diagrams in the software. AP view: corresponding to the AP X-ray of the limb ML view: representing the ML X-ray of the limb Axial view: representing the view looking either up or down the limb from the reference segment	
12	This area shows the strut mounting parameters for all six struts. Details for each strut are described in three fields: • [Size]: Strut size (short, medium, long) • [Acute]: Acute length for the strut in mm, which is read off the scale relative to the acute length orange mark • [Gradual]: Gradual length for the strut in mm, which is read off the scale relative to the gradual length green mark	
13	Click on [Previous] button to return to the previous tab [Deformity Parameters] Click on [Next] button to move to the next tab [Postoperative]	


1
2
Frame Print View
Case and Frame Section
Print Frame Parameters
Case Number: 001
Case Name: Case 1
Patient ID: Patient A
Side Selection: Left
Proximal Ring: Full Ring - 180mm
Reference Segment: Proximal
Distal Ring: Full Ring - 180mm
Mounting Parameters
Reference Ring AP Translation (mm)
No Translation
Reference Ring ML Translation (mm)
25 - Posterior
Reference Ring Position (mm)
100 - Proximal
Second Ring Position (mm)
80
AP view
ML view
Axial view
Medial
Lateral
Posterior
Anterior
Total
Strut 1 (mm): 254
Strut 2 (mm): 208
Strut 3 (mm): 162
Strut 4 (mm): 149
Strut 5 (mm): 179
Strut 6 (mm): 239
Size
Long
Long
Long
Medium
Long
Long
Acute
18
49
2
33
19
3
Gradual
2
78
78
33
78
2

9.1 Frame Parameters - Print Page	
	Description
1	Planning summary
2	Click [Print Frame Parameters] to print out the complete planning

[Log Out]

TL-HEX TRUELOK HEXAPOD SYSTEM

Welcome Dr. TestUser

ORTHOFIX

Home Page | Cases | Patients | Account

Case Data | Deformity Parameters | Frame Parameters | Postoperative | End of Correction | Schedule | Prescription | Report | Checkup

1 Case Number: 001
Case Name: Case 1
Patient ID: Patient A
Side Selection: Left

Reference Ring Parameters

2 AP Translation (mm) 0 Medial Lateral

5 AP Angle (deg) 0 Medial Side Down Medial Side Up

3 ML Translation (mm) 25 Anterior Posterior

6 ML Angle (deg) 0 Anterior Side Down Anterior Side Up

7 Frame Rotation 0 External Internal

Reference Ring Position

Reference Ring (mm) 100 Proximal Distal 4

Position Relative To Deformity Apex 8
Osteotomy/Fracture Level

Modify Horizontal Fragments Translation (mm)
Medial Lateral 0
Anterior Posterior 0

9 Update Views

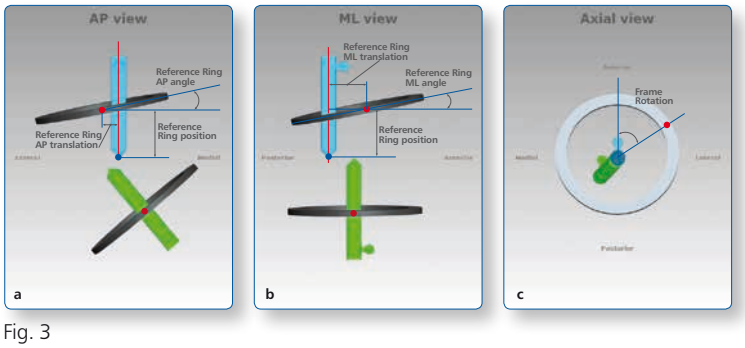
10 AP view | ML view | Axial view

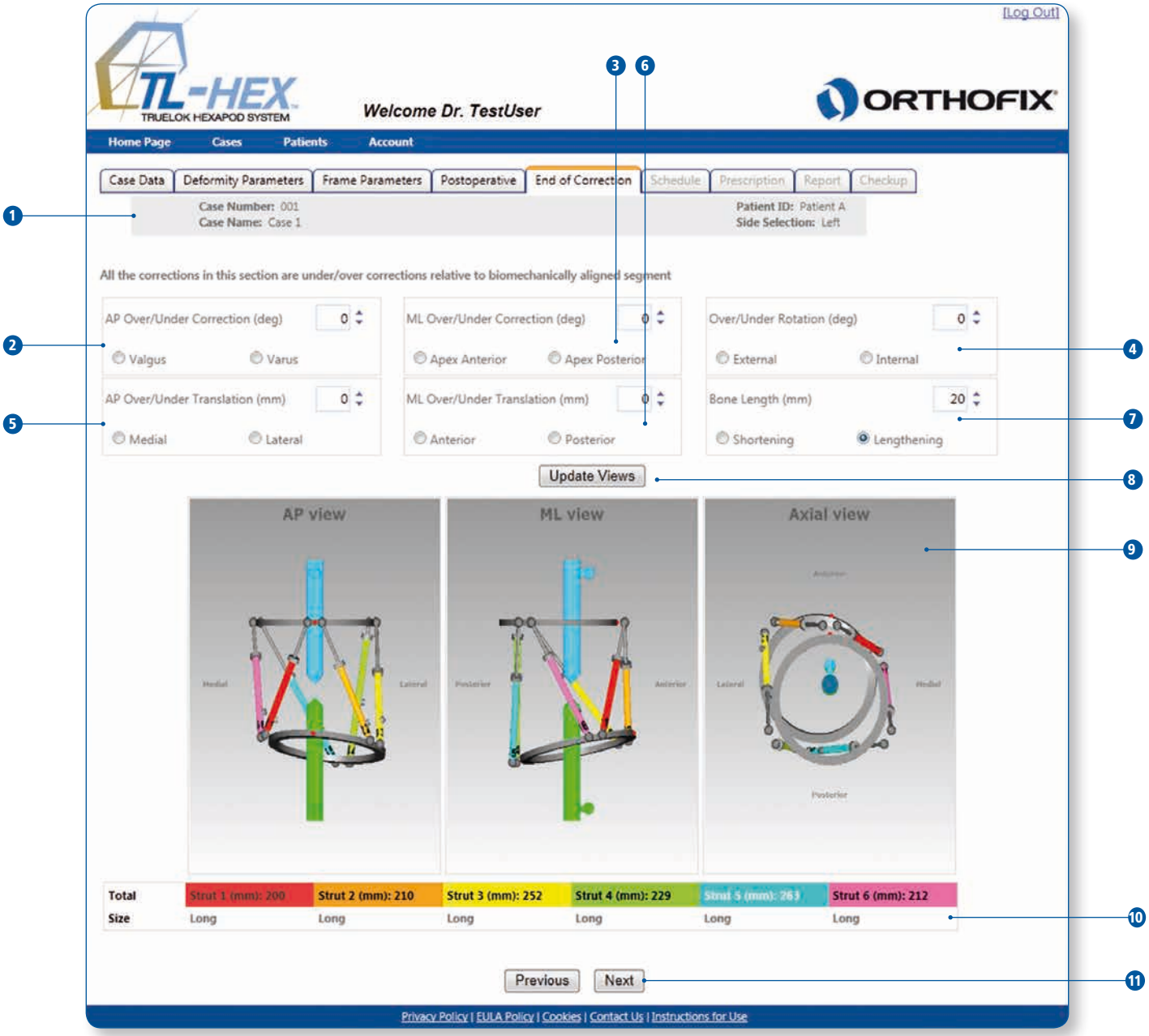
11

Total	Strut 1 (mm): 254	Strut 2 (mm): 209	Strut 3 (mm): 162	Strut 4 (mm): 149	Strut 5 (mm): 179	Strut 6 (mm): 239
Size	Long	Long	Long	Medium	Long	Long
Acute	18	49	2	33	19	3
Gradual	2	78	78	33	78	2

12 Previous Next

Privacy Policy | EULA Policy | Cookies | Contact Us | Instructions for Use

10. Postoperative Assessment	
	Description
1	Summary of Case Data provided in the Case Data tab
Reference Ring Position	Refer to Fig. 3 to determine the reference ring angulation, translation and rotation parameters in AP view (a), ML view (b) and axial view (c).  Fig. 3
2	Adjust/Enter the position of the reference ring in the coronal plane (AP translation) in mm as translation of the center of the reference ring in relation to the longitudinal axis of the reference bone segment • Medial - or - • Lateral
3	Adjust/Enter the position of the reference ring in the sagittal plane (ML translation) in mm as translation of the center of the reference ring in relation to the longitudinal axis of the reference bone segment • Anterior - or - • Posterior
4	Adjust/Enter the reference ring position, in the axial direction in mm, described as the translation of the reference ring proximal/distal along the longitudinal axis of the reference bone segment • Proximal - or - • Distal
5	Enter the reference ring angulation on the AP view in degrees as the angle between the projection of the ring and the axis of the bone segment with the medial side of the ring. • Medial side up - or - • Medial side down
6	Enter the reference ring angulation on the ML view in degrees as the angle between the projection of the ring and the axis of bone segment with the anterior side of the ring. • Anterior side up - or - • Anterior side down
7	Specify the frame rotation relative to the longitudinal axis of the reference bone segment in degrees on the axial view, described as • External rotation - or - • Internal rotation
8	Determine the point of interest for the reference ring position. See Screen 8 - Reference 8 for more details. • Relative to Deformity Apex - or - • Relative to Osteotomy/Fracture Level
9	Click [Update Views] button at any time to refresh the display according to the parameters entered. At this point, the software will generate diagrammatic models that reflect the bone deformity and frame position on the X-ray. In case of discrepancy, the surgeon should go back and the check all the variables before proceeding to the next steps.
10	These are the three diagrams in the software. AP view: corresponding to the AP X-ray of the limb ML view: representing the ML X-ray of the limb Axial view: representing the view looking either up or down the limb from the reference segment
11	This area shows the strut mounting parameters for all six struts. Details for each strut are described in three fields: • [Size]: Strut size (short, medium, long) • [Acute]: Acute length for the strut in mm, which is read off the scale relative to the acute length orange mark • [Gradual]: Gradual length for the strut in mm, which is read off the scale relative to the gradual length green mark Confirm or adjust the data if necessary. Correct any additional errors prior to proceeding with the next steps. An error is highlighted in red and the strut size and length should be corrected.
12	Click on [Previous] button to return to the previous tab [Frame Parameters] Click on [Next] button to move to the next tab [End of Correction]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Case Number: 001
Case Name: Case 1
Patient ID: Patient A
Side Selection: Left
All the corrections in this section are under/over corrections relative to biomechanically aligned segment
AP Over/Under Correction (deg)
Valgus
Varus
ML Over/Under Correction (deg)
Apex Anterior
Apex Posterior
Over/Under Rotation (deg)
External
Internal
AP Over/Under Translation (mm)
Medial
Lateral
ML Over/Under Translation (mm)
Anterior
Posterior
Bone Length (mm)
Shortening
Lengthening
Update Views
AP view
ML view
Axial view
Total
Size
Strut 1 (mm): 200
Strut 2 (mm): 210
Strut 3 (mm): 252
Strut 4 (mm): 229
Strut 5 (mm): 263
Strut 6 (mm): 212
Long
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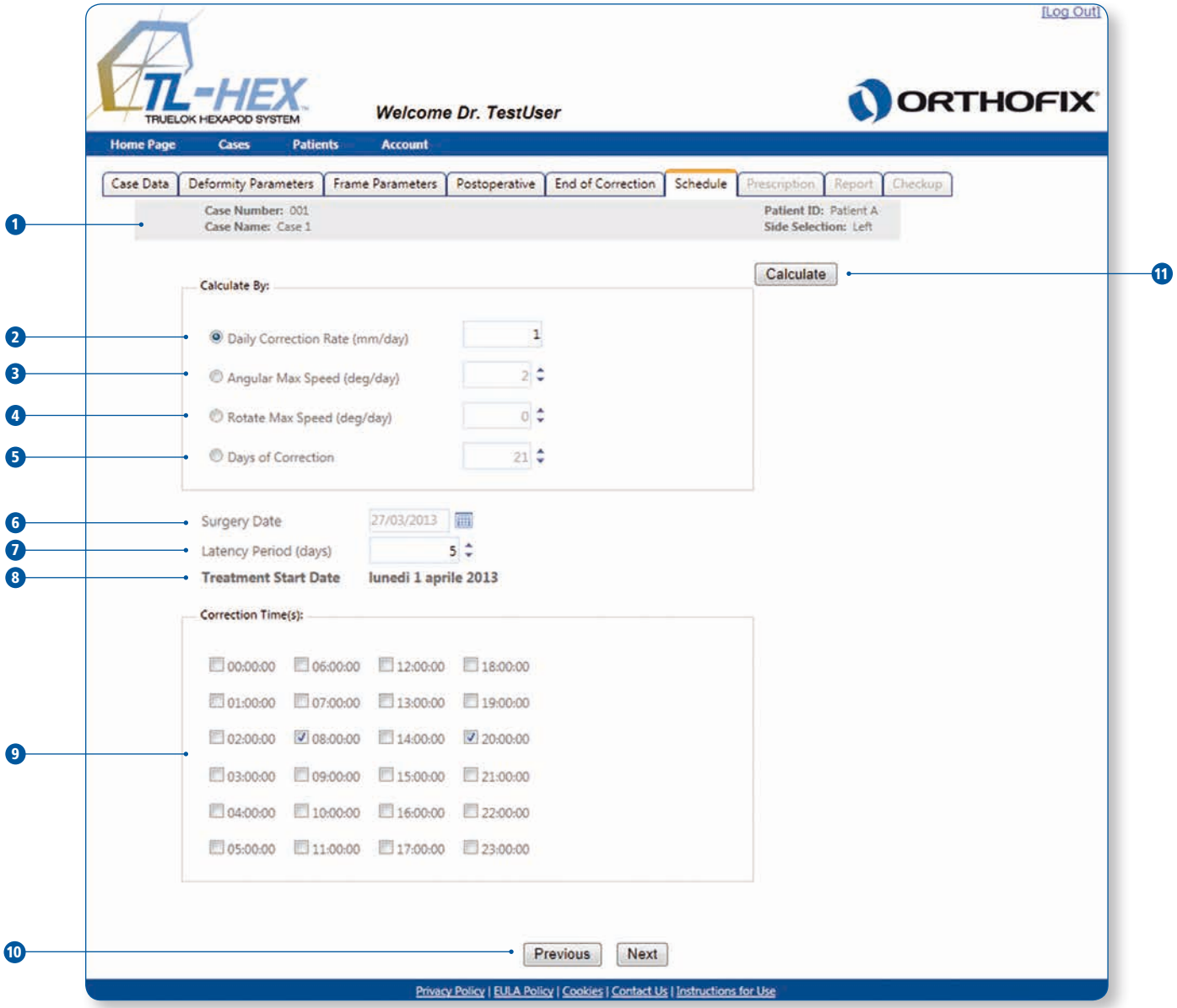
11. End of Correction	
	Description
1	Summary of Case Data provided in the Case Data tab
The software assumes that, at the end of the treatment, the bone segments should be in perfect alignment. However, surgeon could override the default position as desired	
ANGULATION	
2	Override (Over/Under) AP correction in degrees. This can be either • Valgus - or - • Varus
3	Override (Over/Under) ML correction in degrees. This can be either • Apex anterior - or - • Apex posterior
4	Override (Over/Under) rotation in degree . It is described as • External - or - • Internal
TRANSLATION	
5	Override (Over/Under) AP translation in mm. It is described as • Medial - or - • Lateral
6	Override (Over/Under) ML translation in mm. It is described as • Anterior - or - • Posterior
7	Select the bone length • Shortening - or - • Lengthening
8	Click [Update Views] button at any time to refresh the display according to the parameters entered and check the bottom of the screen for struts that are out of range.
9	These are the three diagrams in the software. AP view: corresponding to the AP X-ray of the limb ML view: representing the ML X-ray of the limb Axial view: representing the view looking either up or down the limb from the reference segment
10	This area shows the strut size for all six struts.
11	Click on [Previous] button to return to the previous tab [Postoperative] Click on [Next] button to move to the next tab [Schedule]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Checkup
Case Number: 001
Case Name: Case 1
Patient ID: Patient A
Side Selection: Left
Calculate
Calculate By:
Daily Correction Rate (mm/day)
1
Angular Max Speed (deg/day)
2
Rotate Max Speed (deg/day)
0
Days of Correction
21
Surgery Date
27/03/2013
Latency Period (days)
5
Treatment Start Date
lunedì 1 aprile 2013
Correction Time(s):
00:00:00
06:00:00
12:00:00
18:00:00
01:00:00
07:00:00
13:00:00
19:00:00
02:00:00
08:00:00
14:00:00
20:00:00
03:00:00
09:00:00
15:00:00
21:00:00
04:00:00
10:00:00
16:00:00
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12. Schedule	
	Description
1	Summary of Case Data provided in the Case Data tab
2	Specify the maximum rate of the bone segment translation (mm/day)
3	Specify the maximum rate of the bone segment rotation (degrees/day)
4	Specify the maximum rate of the bone segment angular correction (degrees/day)
5	Specified the desired days of correction
6	Indicate the surgery date
7	Indicate the latency period in days. By default this is 5 days
8	The software determines the treatment start date considering surgery date plus latency period
9	Indicate correction time/s to have the prescription calculated for one or more frame adjustments during each treatment day
10	Click on [Previous] button to return to the previous tab [End of Correction] Click on [Next] button to move to the next tab [Prescription]
11	Click on [Calculate] to calculate the speed if days of correction has been selected or the days of correction if at least one speed has been selected. (It is necessary to enter at least one value in the "Calculate By" box and "Correction Time(s)" box prior to clicking)

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Case Number: 001
Case Name: Case 1

Patient ID: Patient A
Side Selection: Left

Please review all information before completing and printing the prescription to ensure that it is accurate.

Print Prescription

Strut Adjustments in 'CLICKS'

Strut Reference Length (mm)

No	Date-Time	Red Strut1	Orange Strut2	Yellow Strut3	Green Strut4	Blue Strut5	Purple Strut6	Red Strut1	Orange Strut2	Yellow Strut3	Green Strut4	Blue Strut5	Purple Strut6	View Image	See In Rep
0	04/09/2012 00:00	0	0	0	0	0	0	14	40	35	35	35	33	View	In Report
1	04/09/2012 08:00	0	0	+1	+2	+1	0	14	40	34	34	34	33	View	In Report
2	04/09/2012 20:00	-1	+1	+2	+3	+2	0	14	40	34	32	34	33	View	In Report
3	05/09/2012 08:00	0	0	+1	+3	+1	0	15	39	33	31	33	33	View	In Report
4	05/09/2012 20:00	-1	+1	+2	+3	+2	0	15	39	32	29	32	33	View	In Report
5	06/09/2012 08:00	0	0	+1	+4	+1	0	15	39	31	28	31	33	View	In Report
6	06/09/2012 20:00	-1	+1	+2	+3	+2	0	15	39	31	26	31	33	View	In Report
7	07/09/2012 08:00	0	0	+1	+3	+1	0	16	38	30	25	30	33	View	In Report
8	07/09/2012 20:00	-1	+1	+2	+3	+2	0	16	38	29	23	29	33	View	In Report
9	08/09/2012 08:00	0	0	+1	+3	+1	0	16	38	28	21	28	33	View	In Report
10	08/09/2012 20:00	-1	+1	+2	+3	+2	0	16	38	28	20	28	33	View	In Report
11	09/09/2012 08:00	-1	0	+1	+3	+1	0	17	37	27	18	27	33	View	In Report
12	09/09/2012 20:00	0	+1	+2	+3	+2	0	17	37	26	17	26	33	View	In Report
13	10/09/2012 08:00	-1	0	+2	+3	+1	0	17	37	25	15	25	33	View	In Report

AP view | ML view | Axial view

AP Angle: 25 deg, Valgus
AP Translation: 0 mm

ML Angle: 25 deg, ApexAnterior
ML Translation: 0 mm

Rotation: 0 deg
Axial Translation: 0 mm

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13. Prescription	
	Description
1	Summary of Case Data provided in the Case Data tab
2	Click [Print Prescription] to generate a prescription in .pdf format. This document can be saved for the record and printed as hard copy to be issued to the patient
3	Represent the adjustment for each strut by number of clicks (1/2 rotation of the strut adjustment knob). It can be • positive (if strut length increases) - or - negative (if strut length decreases)
4	Represent the gradual adjustment scale value in millimeters as reference for each strut
5	Click [View] in the prescription table to have a look to the three views of the deformity and the frame for the corresponding day/time of the prescription
6	Click [In Report] to see the same adjustment row in the Report tab
7	These are the three diagrams in the software considering the deformity and the frame for the corresponding day/time of the prescription. AP view: corresponding to the AP X-ray of the limb ML view: representing the ML X-ray of the limb Axial view: representing the view looking either up or down the limb from the reference segment
8	Click on [Previous] button to return to the previous tab [Schedule] Click on [Next] button to move to the next tab [Report]
The prescription row will be highlighted when strut readjustments (shaded blue) or exchanges (shaded red) are required. The rows of lighter shading indicate the allowable range of days that is suitable for the readjustment/exchange; the heavier shaded row indicates the last possible day for the strut change	

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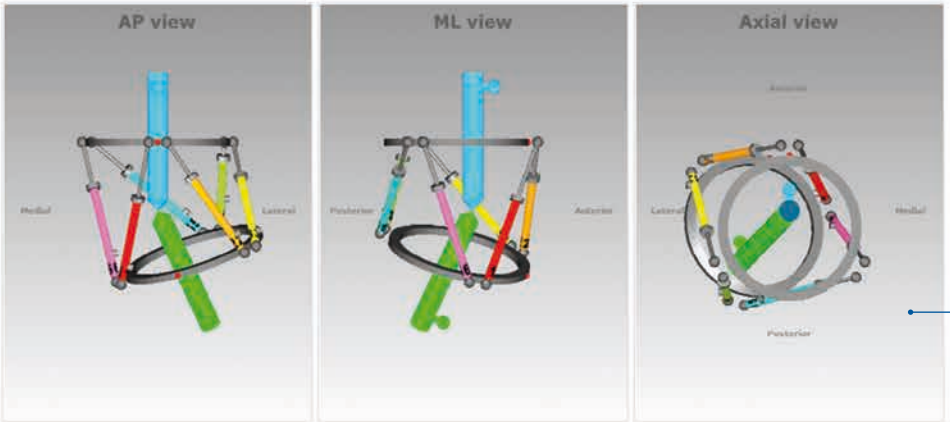
Case Number: 001
Case Name: Case 1

Patient ID: Patient A
Side Selection: Left

Print Report

Strut Length A-Acute / G-Gradual

No	Date-Time	Red 1:	A	G	Orange 2:	A	G	Yellow 3:	A	G	Green 4:	A	G	Blue 5:	A	G	Purple 6:	A	G	Images	View In
0	01/04/2013 06:00	long	0	14	long	0	40	long	0	35	med	16	35	long	11	35	long	15	33	View	Prescription Checkup
1	01/04/2013 08:00	long	0	14	long	0	40	long	0	34	med	16	34	long	11	34	long	15	33	View	Prescription Checkup
2	01/04/2013 20:00	long	0	14	long	0	40	long	0	33	med	16	30	long	11	33	long	15	33	View	Prescription Checkup
3	02/04/2013 08:00	long	0	15	long	0	39	long	0	32	med	16	28	long	11	32	long	15	33	View	Prescription Checkup
4	02/04/2013 20:00	long	0	16	long	0	38	long	0	30	med	16	26	long	11	30	long	15	33	View	Prescription Checkup
5	03/04/2013 08:00	long	0	16	long	0	38	long	0	29	med	16	23	long	11	29	long	15	33	View	Prescription Checkup
6	03/04/2013 20:00	long	0	16	long	0	38	long	0	28	med	16	20	long	11	28	long	15	33	View	Prescription Checkup
7	04/04/2013 08:00	long	0	17	long	0	38	long	0	26	med	16	18	long	11	26	long	15	33	View	Prescription Checkup
8	04/04/2013 20:00	long	0	18	long	0	37	long	0	25	med	16	15	long	11	25	long	15	33	View	Prescription Checkup
9	05/04/2013 08:00	long	0	18	long	0	36	long	0	24	med	16	12	long	11	24	long	15	33	View	Prescription Checkup
10	05/04/2013 20:00	long	0	18	long	0	36	long	0	22	med	16	10	long	11	22	long	15	33	View	Prescription Checkup
11	06/04/2013 08:00	long	0	19	long	0	36	long	0	22	med	16	8	long	11	22	long	15	34	View	Prescription Checkup
12	06/04/2013 20:00	long	0	20	long	0	36	long	0	20	med	16	5	long	11	20	long	15	34	View	Prescription Checkup
13	07/04/2013 08:00	long	0	20	long	0	35	long	0	18	med	16	2	long	11	19	long	15	34	View	Prescription Checkup
14	07/04/2013 20:00	long	0	20	long	0	35	long	0	18	long	6	79	long	11	18	long	15	34	View	Prescription Checkup
15	08/04/2013 08:00	long	0	21	long	0	34	long	0	16	long	6	77	long	11	16	long	15	34	View	Prescription Checkup
16	08/04/2013 20:00	long	0	22	long	0	34	long	0	15	long	6	74	long	11	15	long	15	34	View	Prescription Checkup
17	09/04/2013 08:00	long	0	22	long	0	34	long	0	14	long	6	72	long	11	14	long	15	34	View	Prescription Checkup



AP Angle: 25 deg, Valgus
AP Translation: 0 mm

ML Angle: 25 deg, ApexAnterior
ML Translation: 0 mm

Rotation: 0 deg
Axial Translation: 0 mm

Total	Strut 1 (mm): 224	Strut 2 (mm): 198	Strut 3 (mm): 203	Strut 4 (mm): 130	Strut 5 (mm): 214	Strut 6 (mm): 220
Size	Long	Long	Long	Medium	Long	Long
Acute	0	0	0	16	11	15
Gradual	14	40	35	35	35	33

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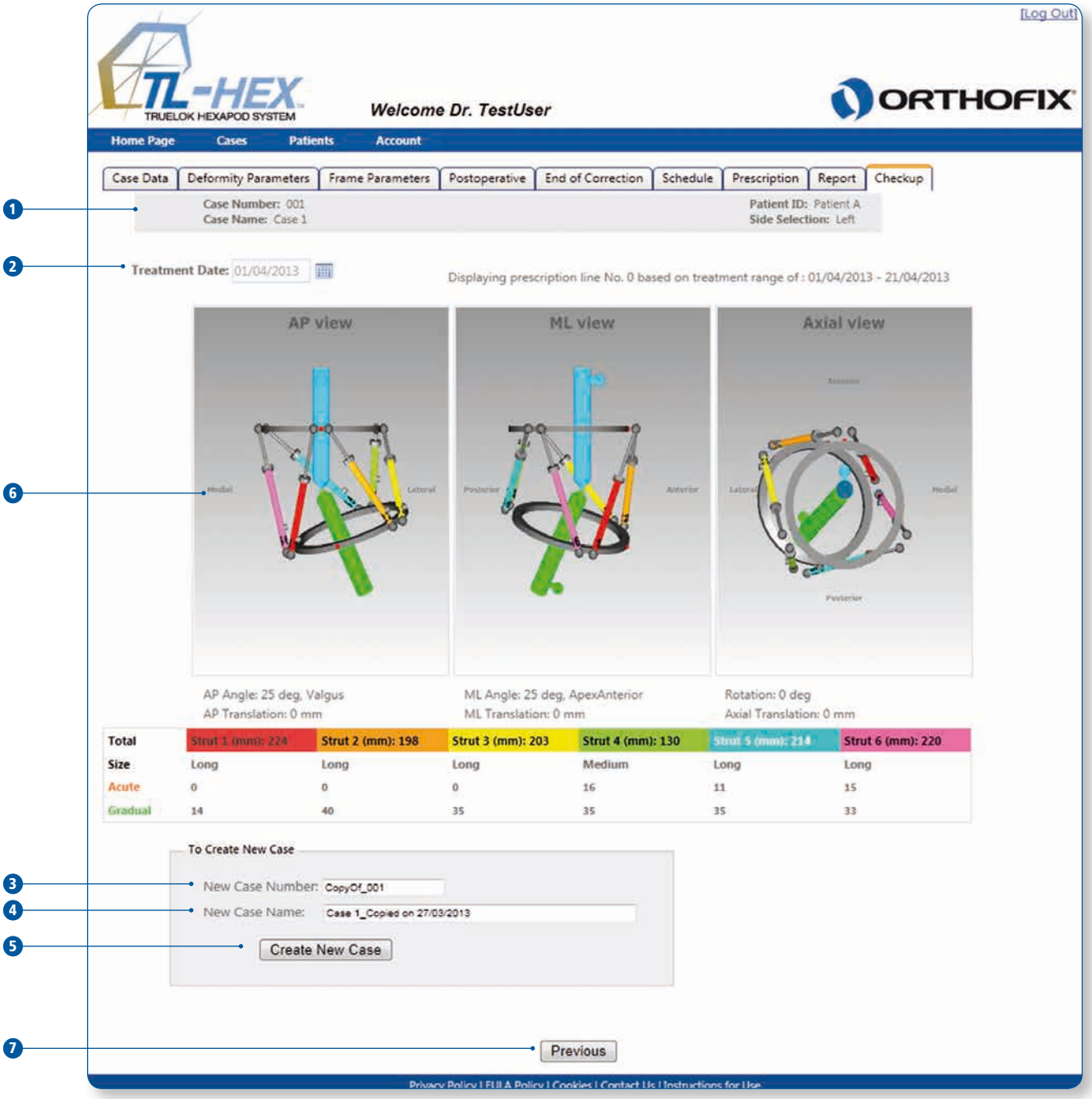
14. Report	
	Description
1	Summary of Case Data provided in the Case Data tab
2	Click [Print Report] generate the report in .pdf format. This document can be saved for the record or printed as hard copy
3	Provides a more detailed prescription. In addition to the patient prescription it includes • [St] Strut size • [A] Acute adjustment in millimeters • [G] Gradual adjustment in millimeters for each strut
4	Click [View] in the report table to have a look to the three views of the deformity and the frame for the corresponding day/time of the prescription and the struts parameters and length on the desired day
5	Click [Prescription] in the report table to see the same adjustment row in the Prescription tab
6	Click [Checkup] in the Report table to launch the Checkup for the selected day and time
7	These are the three diagrams in the software considering the deformity and the frame for the corresponding day/time of the prescription. AP view: corresponding to the AP X-ray of the limb ML view: representing the ML X-ray of the limb Axial view: representing the view looking either up or down the limb from the reference segment
8	Click on [Previous] button to return to the previous tab [Prescription] Click on [Next] button to move to the next tab [Checkup]
The prescription row will be highlighted when strut readjustments (shaded blue) or exchanges (shaded red) are required. The rows of lighter shading indicate the allowable range of days that is suitable for the readjustment/exchange; the heavier shaded row indicates the last possible day for the struct change	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Case Number: 001
Case Name: Case 1
Patient ID: Patient A
Side Selection: Left
2
Treatment Date: 01/04/2013
Displaying prescription line No. 0 based on treatment range of : 01/04/2013 - 21/04/2013
6
AP view
ML view
Axial view
AP Angle: 25 deg, Valgus
AP Translation: 0 mm
ML Angle: 25 deg, ApexAnterior
ML Translation: 0 mm
Rotation: 0 deg
Axial Translation: 0 mm
Total
Strut 1 (mm): 224
Strut 2 (mm): 198
Strut 3 (mm): 203
Strut 4 (mm): 130
Strut 5 (mm): 214
Strut 6 (mm): 220
Size
Long
Long
Long
Medium
Long
Long
Acute
0
0
0
16
11
15
Gradual
14
40
35
35
35
33
To Create New Case
3
New Case Number: CopyOf_001
4
New Case Name: Case 1_Copied on 27/03/2013
5
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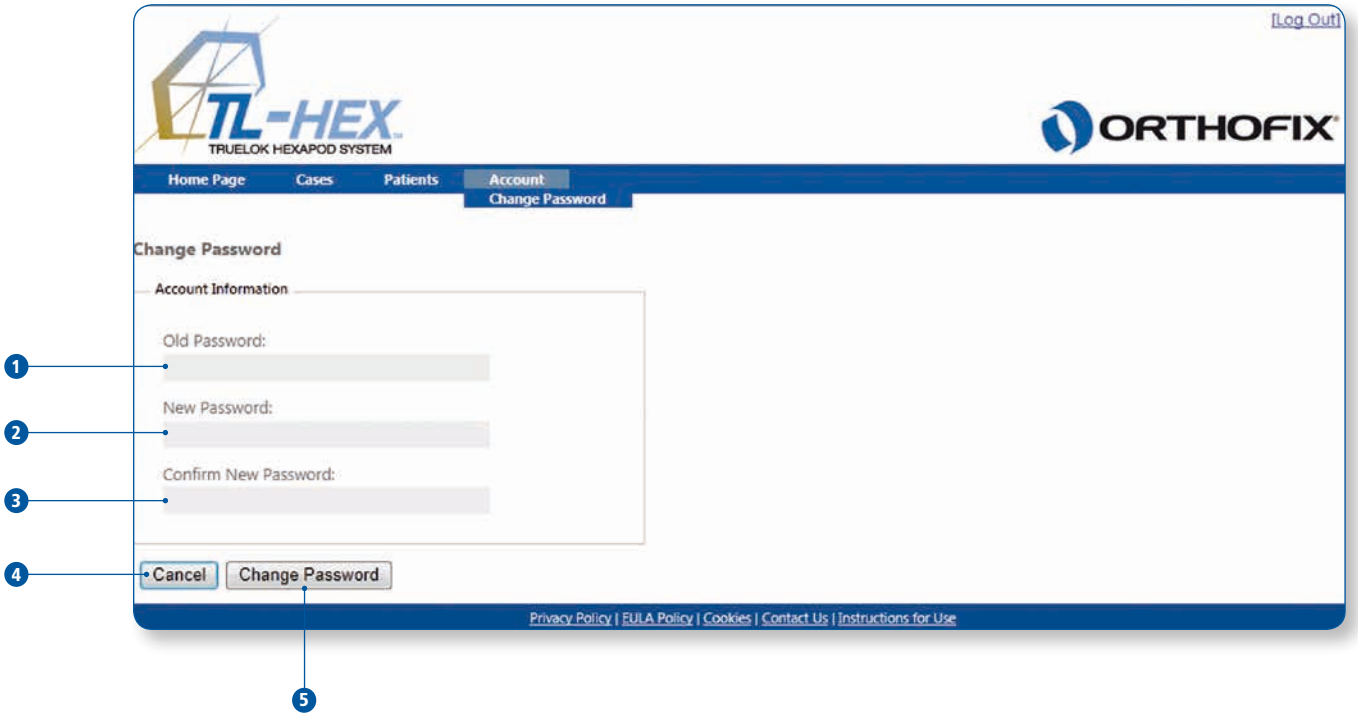
15. Checkup	
	Description
1	Summary of Case Data provided in the Case Data tab
Provides the position of the bone segments and the frame with corresponding strut adjustment values at any particular day of treatment (deformity correction)	
2	Select the treatment date. As default, the screen shows the data for the current day
3	Enter new case detail - Case Number
4	Enter new case detail - Case Name
5	Click [Create New Case] to open a new Case data screen for the newly generated case
6	These are the three diagrams in the software considering the deformity and the frame for the corresponding day/time of the prescription. AP view: corresponding to the AP X-ray of the limb ML view: representing the ML X-ray of the limb Axial view: representing the view looking either up or down the limb from the reference segment All the deformity and frame parameters are transferred from the previous case at the date of check-up
7	Click on [Previous] button to return to the previous tab [Report]
Select the treatment date. As a default, the screen shows the data for the current day. The patient, based on the starting point as chosen from the checkup screen	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Change Password
Account Information
Old Password:
New Password:
Confirm New Password:
Cancel
Change Password
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16. Change Password	
	Description
1	Type the old password
2	Chose and type the new password. It must be 6 or more characters
3	Confirm by typing the new password again. The software will validate that the two passwords match
4	Click [Cancel] to cancel the action and come back to the home page
5	Click [Change Password] to submit the password change

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