

Aidplex ScolioSense Online Platform Instructions for Use

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Online Platform Instructions for Use

This manual is about the **ScolioSense** online platform of AIDPLEX SCOLIOSIS, under the trade name **ScolioSense**, a product of Aidplex. The information content is owned by Aidplex and is provided only for the operation of Aidplex devices and software.

This manual is subject to change.

Last edition: <https://scoliosense.com/Home/SupportEN>.

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Introduction

Intended Use:

The AIDPLEX SCOLIOSIS is a system designed to ensure the good quality of use of scoliosis braces. It is intended to be used in combination with another medical device e.g. (Boston back brace, Cheneau brace, Rigo-Cheneau brace, custom-made braces). The system provides the ability to secure and assure the quality of the treatment of scoliosis with a brace and the ability to remind the patient about the appropriate fitting of the brace based on the instructions of the supervising clinician.

It consists of three subsystems:

- a wearable device with analog and/or digital sensors (e.g. pressure sensors) retrofitted on any type of scoliosis back brace,
- a mobile application for patients with scoliosis to track the wearing time of their brace and to remind them to continue wearing the brace as indicated by their clinician, and
- a web application for their supervising clinicians to assure the adherence to treatment of their patients, the quality of their wearing time based on the correct fitting of their patients' braces.

AIDPLEX SCOLIOSIS, under the trade name of **ScolioSense** consists of: the wearable device (**ScolioSense** device), the mobile application (**ScolioSense** app) and the web application (**ScolioSense** online platform).

To install the **ScolioSense** device, you need:

1. The **ScolioSense*** device.
2. One to three pressure sensors*.
3. A square and a round piece of velcro tape to install the device*.
4. **A special foam** cover for the sensor cables.

*included in the device packaging

The company

Aidplex operates in the health sector intending to improve the quality of life of patients.

More information: www.aidplex.com.

Important safety note

CONTRAINDICATIONS

The **ScolioSense** device is not intended for:

- Any other use besides a scoliosis brace.
- Direct contact with the body, open wounds, burned tissue, near the eyes, and near fractures.
- Different conditions beyond scoliosis and for patients who are not **ScolioSense** users.

The web application is not intended for:

- Any other use than the supervising clinician and authorized personnel.
- Use as a patient list for different conditions.

The mobile application is not intended for:

- Any other use than the scoliosis patient and user of the Aidplex system with the permission of the qualified clinician.
- Simultaneous use from multiple mobile devices.

INDICATIONS

ScolioSense is indicated for:

- Scoliosis patients undergoing treatment with the use of a brace and using the **ScolioSense** app and the **ScolioSense** device.
- Supervising clinicians with scoliosis patients undergoing treatment with the use of a brace using the **ScolioSense** online platform.
- Ensuring and assuring the course of scoliosis treatment with the use of a brace.
- Ensuring the fitting and use of the brace in accordance with the instructions of the supervising clinician.
- Reminding the patient about the appropriate fitting of the brace based on the instructions of the supervising clinician.

WARNINGS AND PRECAUTIONS

- Any use of the **ScolioSense** other than as indicated is prohibited.
- The **ScolioSense** online platform should only be used by supervising clinicians and authorized personnel.
- The **ScolioSense** app should only be used by scoliosis patients who are being treated with a brace.
- The **ScolioSense** device should only be installed on braces and only by authorized personnel who have followed an installation training program.
- The **ScolioSense** device must not be opened by unauthorized personnel.
- Patients should not interfere with connecting or disconnecting the sensors from the wearable device.
- The process of fitting the brace (calibration) inside the online platform should not be used to determine the fitting of the brace, but only to capture the appropriate fitting as defined by the supervising clinician.
- The calibration process in the **ScolioSense** online platform should not be used to determine the fitting of the brace, but only to capture the appropriate fitting as determined by the supervising clinician.

General Operating Conditions

Operating environment

To access the online platform, the user must have a web browser and an Internet connection. **ScolioSense** supports recent versions of Google Chrome, Mozilla Firefox, Apple Safari, Microsoft Edge, and on iOS and Android mobile devices.

ScolioSense Online Platform

User Qualifications

ScolioSense is intended for patients with scoliosis, who wear a brace, and their supervising clinicians. The **ScolioSense** app and the **ScolioSense** device are used by patients. The **ScolioSense** online platform is used by medical or authorized personnel.

Description

The online platform has 7 pages:

1. Login page: Login to the platform.
2. Registration page (Register): Registering on the platform.
3. Patient Page (Dashboard): The main page of the **ScolioSense** online platform. Contains a patient summary as well as summary charts with patient information.
4. Patient Details page: Contains detailed information about the patient and his treatment.
5. Patient Edit page: The user can edit the patient information.
6. Profile page: The user can change their information and password for the **ScolioSense** online platform.
7. Help page (Help): The user can read the updated instructions for using the online platform.

Getting started

To visit the **ScolioSense** online platform, visit www.scoliosense.com.

New User Registration

To register on the **ScolioSense** online platform, use this [link](#). You will need to fill in your email address, and a representative of **Aidplex** will contact you to set up the account.

Thank you for your interest!

The registration process for Doctors and Manufacturers is **currently closed**.

To stay updated please provide us with your email address, and we will notify you accordingly when you are eligible to apply.



Notify me

Already Have Account? [Login now](#)

User account login

After creating your account, you can log in to the **ScolioSense** online platform using this [link](#) by filling in your login details.

Login

Enter your email address and password to login on the ScolioSense platform for Doctors and Manufacturers.

demo@aidplex.com

.....



☐ Remember Me

[Forgot your password?](#)

Sign in

[New to ScolioSense? Join now](#)

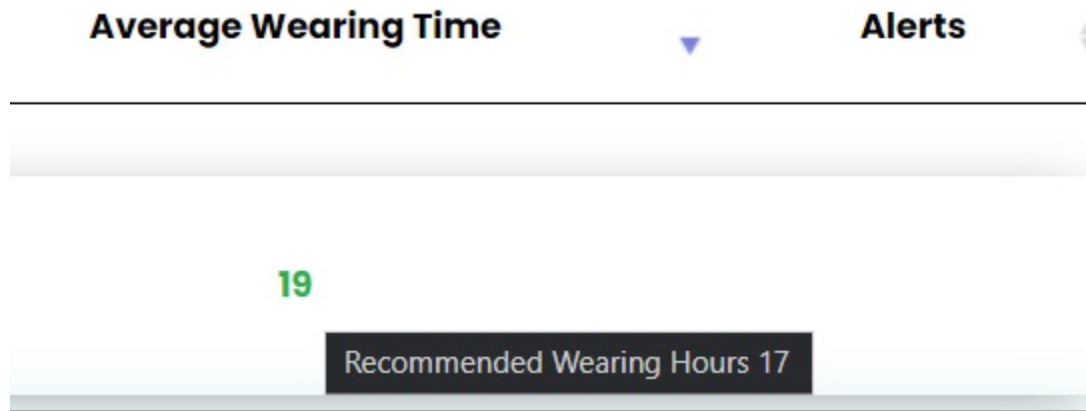
Patient Page

Patient page for clinicians

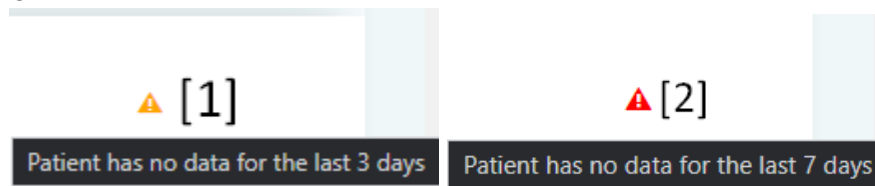
Under this section, you can see your list of patients. The list contains the First Name, Last Name, Scoliosis Type, Average Wear Time (of the brace), and Alerts.

Type of Scoliosis: The type of scoliosis is classified as S or C.

Average Wearing Time: The measurement appears Green when it meets the recommended time, otherwise it appears Red. Hovering the cursor over the measurement shows the number of recommended usage hours of the brace.



Alerts: Alerts indicate if the patient has had no data for the past 3 or 7 days. These alerts appear in orange in the first [1] case, while in red in the second [2] case.



My Patients					Search
First Name	Last Name	Scoliosis Type	Average Wearing Time	Alerts	
Dimitris	Moustakas	S	46	▲	
Argiris	Mouratidis	C	122	▲	
Dimitra	Natsidou	C	25	▲	
Aristotelis	Pallasidis	S	92		
Dimitris	Sakkoulas	C	34		

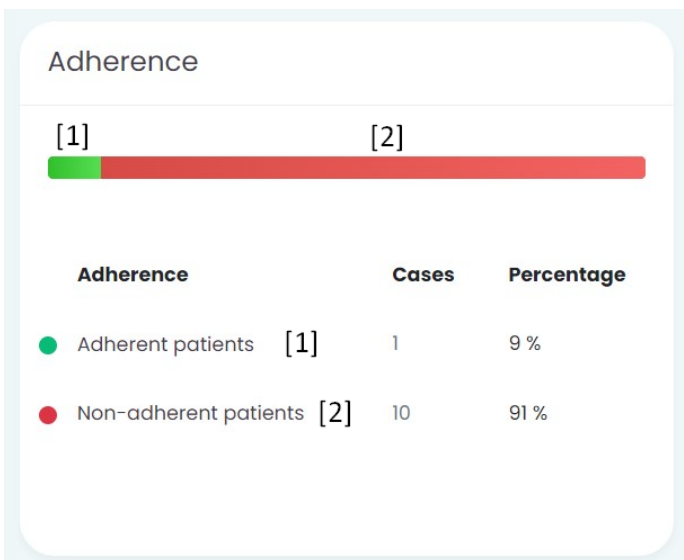
Previous 1 2 Next

Add patient

1. By pressing the “+ Add patient” button at the bottom of the patient list, you can create a [new patient account](#) on the platform.
2. Through the search bar, you can easily and quickly search for your patients.

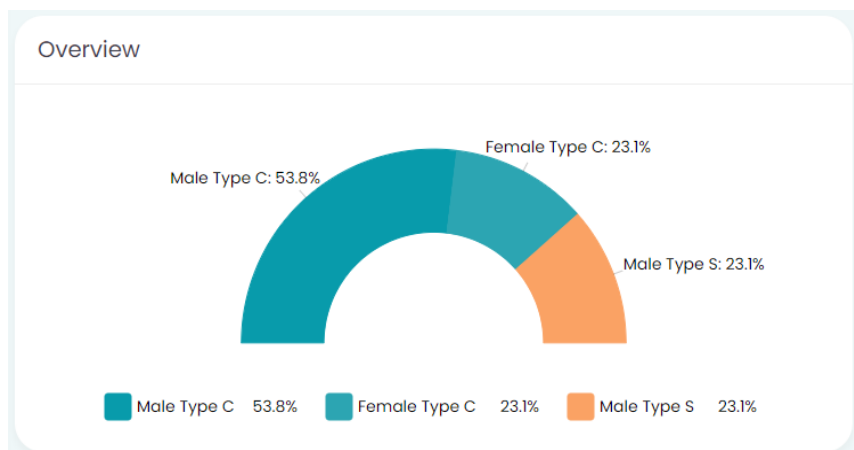
At the bottom of the Patient Page, there are 2 summary charts:

Adherence



1. Adherent
2. Non-adherent

Type of scoliosis by gender (Overview)



Add patients

In the Account information section for registering a patient, you should fill in the following information:

1. Name
2. Last name
3. Email (email will be used by the patient to log in to the **ScolioSense** app)
4. Mobile phone number of the parent or guardian
5. Language

The screenshot shows a web form titled "Register new patient" with a progress bar at the top containing four steps: "Account" (active), "Personal", "Treatment", and "Finish". The "Account Information:" section is titled "Step 1 - 4". A note states "Fields with asterisk (*) are required". The form includes the following fields:

- First Name:** Text input with "Jenny" entered.
- Last Name:** Text input with "Thomson" entered.
- Email*:** Text input with "sample@mail.com" entered, accompanied by an eye icon.
- Guardian's phone number*:** A dropdown menu showing "Greece (+30)" and a text input with "012 345 6789", both accompanied by an eye icon.
- Guardian's weekly SMS report language:** Radio buttons for "English" (selected) and "Ελληνικά".

A "Next" button is located at the bottom right of the form.

In the Personal Information section, you should fill in:

1. Date of birth
2. Sex
3. Weight
4. Time zone
5. Height
6. Location

Register new patient

Account

Personal

Treatment

Finish

Personal Information:

Date of birth*

Time Zone ⓘ

Sex

Height (cm)

Weight (kg)

Location

Back

Next

In the Treatment section, you should fill in:

1. The type of scoliosis
2. Cobb angles with and without the brace
If a patient has S-type scoliosis, fill in the details of the second Cobb angle as well.
3. The Riser or Sanders classification

4. The recommended wearing time of the brace

Register new patient

Account

Personal

Treatment

Finish

Treatment Information:

Step 3 - 4

Scoliosis Curve

☒ Type C ☐ Type S

Recommended Wearing Hours

18

Starting Cobb Angle 1

Cobb Angle 1 with brace

Risser Classification

Stage 0

Manufacturer ⓘ

Jim Moustakas

5. The manufacturer of the brace (internal or external partner). If the manufacturer is not listed in the drop-down menu, select Aidplex and contact us to register the manufacturer on the **ScolioSense** online platform.
6. The choice of using, or not, the upper limit of the sensors for the appropriate fitting of the scoliosis brace.

Risser Classification

Stage 0

Manufacturer ⓘ

Jim Moustakas

Include the upper limit of the sensors? ⓘ

☒ Yes ☐ No

By removing the upper limit, the patient's adjustment page will be restricted to display solely the lower limit

Arranging the position of the sensors

If you include the upper limit (Yes option), both the minimum and maximum limits of each sensor will be used for the calibration process, creating a range accordingly.

On the other hand, if you don't include the upper limit (No option), only the minimum value of each sensor will be used for the calibration process.

By choosing the first option, you can observe the fitting of the brace in relation to the range of the calibration process. With the second option, you can observe the fitting of the brace in relation to the minimum fitting value of the calibration process.

Below are the graphical representations for each case respectively:

Sensor calibration ⓘ

Right Pelvic	Left Thoracolumbar
	

Sensor calibration ⓘ

Right Pelvic	Left Thoracolumbar
	

7. The number of sensors (maximum 3) to be used with the **ScolioSense** device, with their names. As a name for the sensors, you can use the default names or create your own.

Arranging the position of the sensors

- The sensors should be placed at the peaks of the pressure areas without altering or hindering the structure of the brace. The system can support up to three sensors.
- The main module should be placed on the outer surface of the brace in a way that it would not hinder the patient's comfort.

Number of Sensors

Sensor Name 1 * ⓘ

Right Lumbar

Sensor Name 2 * ⓘ

Custom Sensor Name

Back

Next

Upon completion of the process, an automated email will be sent to your patient's email.

Patient page for brace manufacturers (authorized personnel)

Under this section, you can see the list of your patients. The list contains the patient's First Name, Last Name, and Type of Scoliosis.

Type of Scoliosis: The type of scoliosis is classified as S or C.

My Patients			Search...
First Name	Last Name	Type of Scoliosis	
Antonie	Aslanos	S	
arg	iris	C	
Argiris	Mouratidis	C	

Add patients

As a manufacturer, you may have to manage patients from different clinicians. You should follow the instructions below:

1. *For patients having a clinician, who is using ScolioSense*

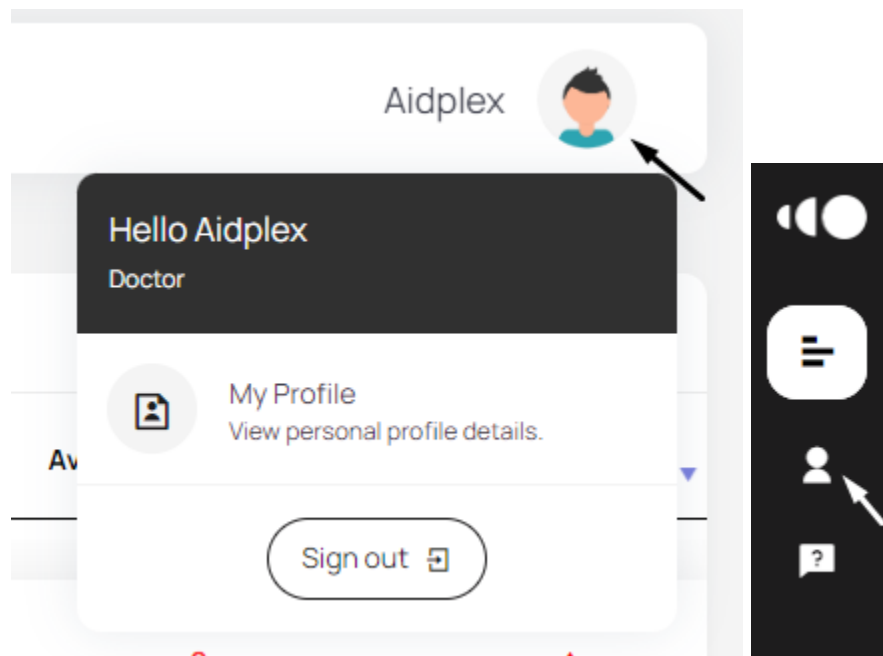
The moment a patient is assigned to you by the clinician, their record will also be linked to your patient list, without you having to perform any extra steps.

2. *For patients having a clinician, who is not using ScolioSense*

In this case, Aidplex should contact the clinician for registration and subsequent matching of the patient.

My account (My Profile)

To view your account, select either your name in the top right and then select My Profile option or the profile icon from the side menu.



Through the profile screen, you can change the following:

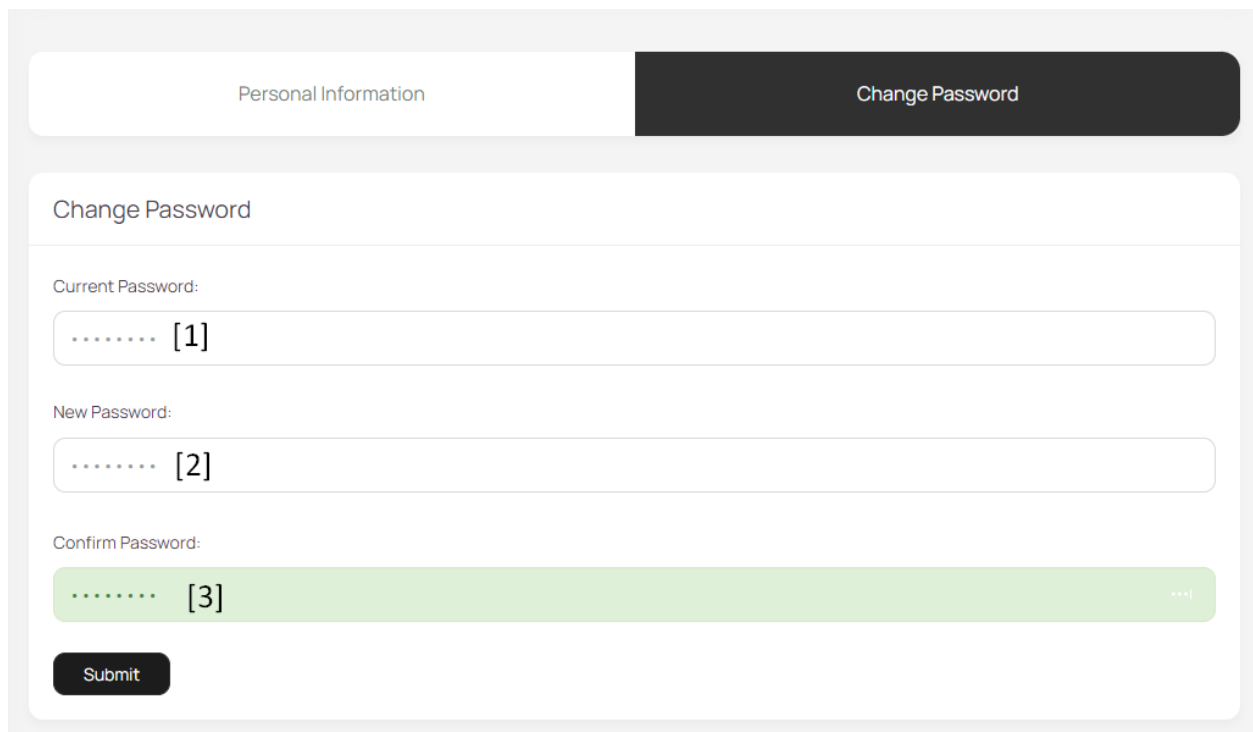
1. Name
2. Surname
3. Telephone Number

Important: The Email[3] address cannot be changed. In case you wish to change your email address, please contact the support department at support@aidplex.

To save your changes, you should select the “Save Changes” button[5].

A screenshot of the 'Personal Information' form in the Aidplex app. The form has a dark header bar with 'Personal Information' on the left and 'Change Password [6]' on the right. Below the header, the form is titled 'Personal Information'. It contains four input fields: 'First Name:' with the value 'Aidplex [1]' and a red eye icon; 'Last Name:' with the value '[2]'; 'Email:' with the value 'aidplex@gmail.com [3]'; and 'Phone Number:' with the value '6971554267 [4]'. At the bottom left of the form is a 'Save changes [5]' button.

If you wish to change your login password, you should select the “Change Password” tab[6]



The screenshot shows a user interface with two tabs at the top: "Personal Information" and "Change Password". The "Change Password" tab is selected and highlighted in dark grey. Below the tabs, the "Change Password" section contains three input fields. The first field is labeled "Current Password:" and contains a masked password (seven dots) followed by a label "[1]". The second field is labeled "New Password:" and contains a masked password (seven dots) followed by a label "[2]". The third field is labeled "Confirm Password:" and contains a masked password (seven dots) followed by a label "[3]". A "Submit" button is located at the bottom left of the form.

To change your password, you must enter your current password[1].

If the password is incorrect, a message will appear, as shown below.

You should then enter the new code in the section “New Password”[2] and confirm it in the field “Confirm Password”[3].

Current Password: Your password was incorrect.



The screenshot shows a single input field for the "Current Password". Above the field, the text "Current Password: Your password was incorrect." is displayed, with "Your password was incorrect." in red. The input field itself contains a masked password (seven dots).

To save the new password, you should select the “Submit” button.

Patient tab (Patient details)

Patient tab for clinicians

To see detailed information about a patient, you should select the patient from the list on the patient page.

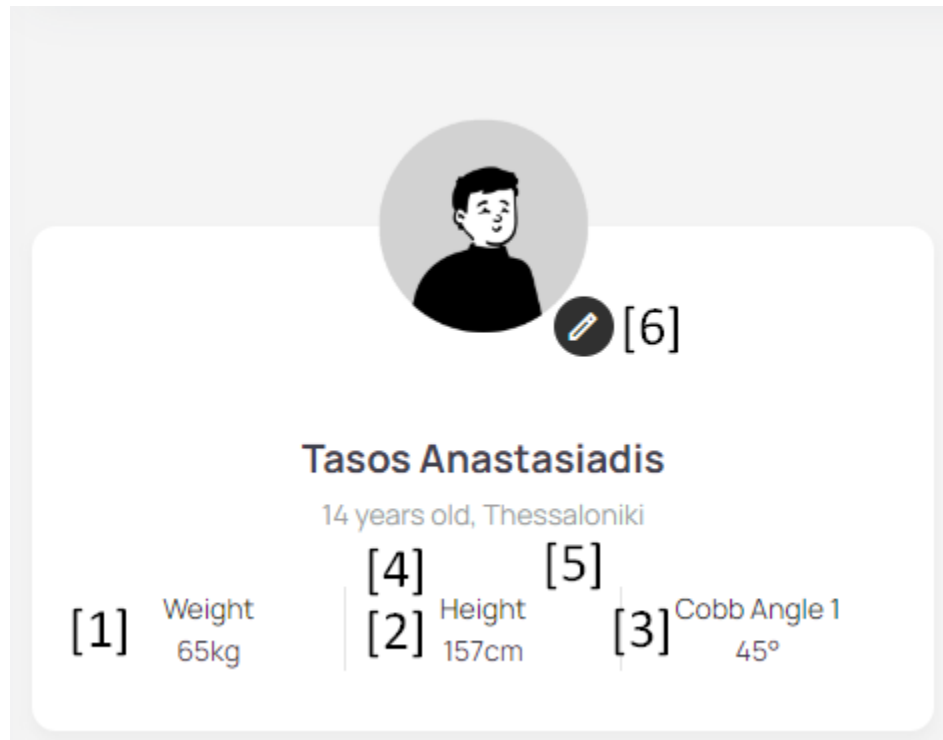
My Patients				
Tasos				
First Name	Last Name	Scoliosis Type	Average Wearing Time	Alerts
Tasos	Anastasiadis	S	14	

Previous 1 Next

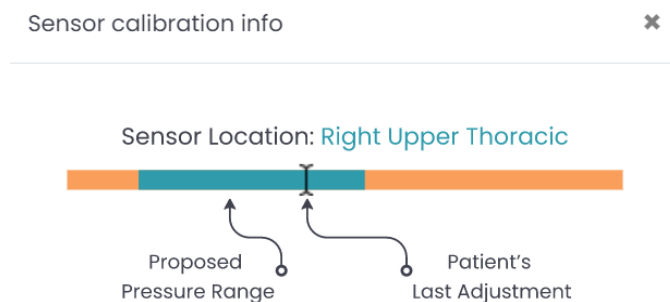
The first part of the screen shows personal information about your patient, such as:

1. Weight
2. Height
3. Current Cobb angle, (in case the patient has S-type scoliosis, then both Cobb angles are displayed),
4. Age
5. Location of the patient

You can edit your patient details by pressing the “Edit” button[6] as seen below through the [Patient details modification page](#).



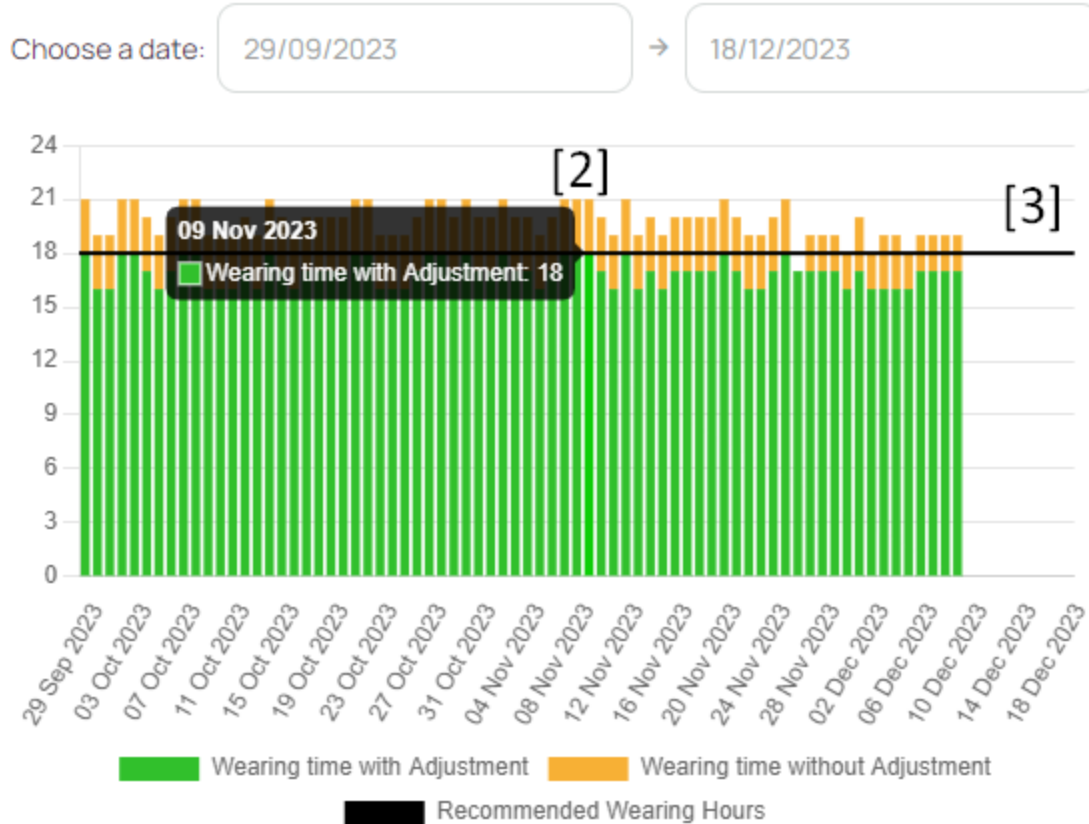
Below the patient's personal information, are the pressure graphs of the device's sensors. The range of the appropriate fitting of the brace is shown in light blue. The black line indicates the pressure recorded at the patient's last brace fitting.



Next to the patient information is the patient brace usage summary graph. Each bar represents one day. The hours of use with the appropriate fitting of the brace[2] are represented in light green and the hours without in orange. Hovering over a bar shows more information about that day. The black line[3] refers to the appropriate hours of use of the brace. At the top of the chart, you can set a custom range of days[1].

Wearing Time In Hours

[1]



Next, to the usage graph, information related to the treatment course is presented such as:

1. The date that the treatment has started (date of enrollment in the **ScolioSense platform**)
2. Risser or Sanders classification
3. The Cobb angle
4. The Cobb angle while using the brace (in the case that the patient has S-type scoliosis, then both Cobb angles appear).

Finally, to start the [Brace setting-Calibration](#) you should press the button **Start Calibration**[1].

Status

Started on

29 September 2023

Risser classification

Stage 4

Starting Cobb Angle 1

45

Cobb Angle 1 with brace

43

Starting Cobb Angle 2

27

Cobb Angle 2 with brace

23

Calibrated by:

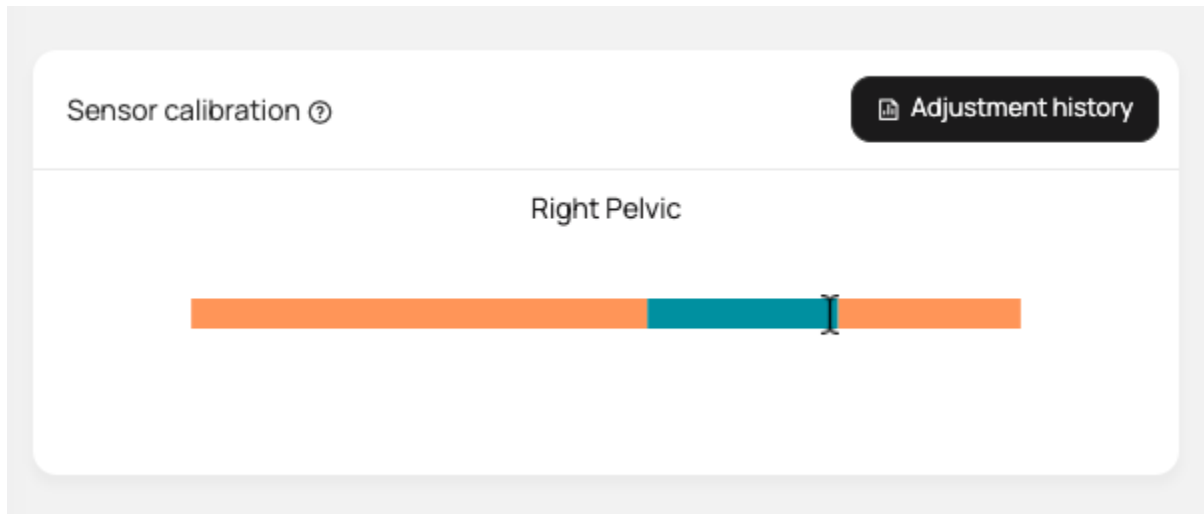
Demo Doctor

Start Calibration

[1]

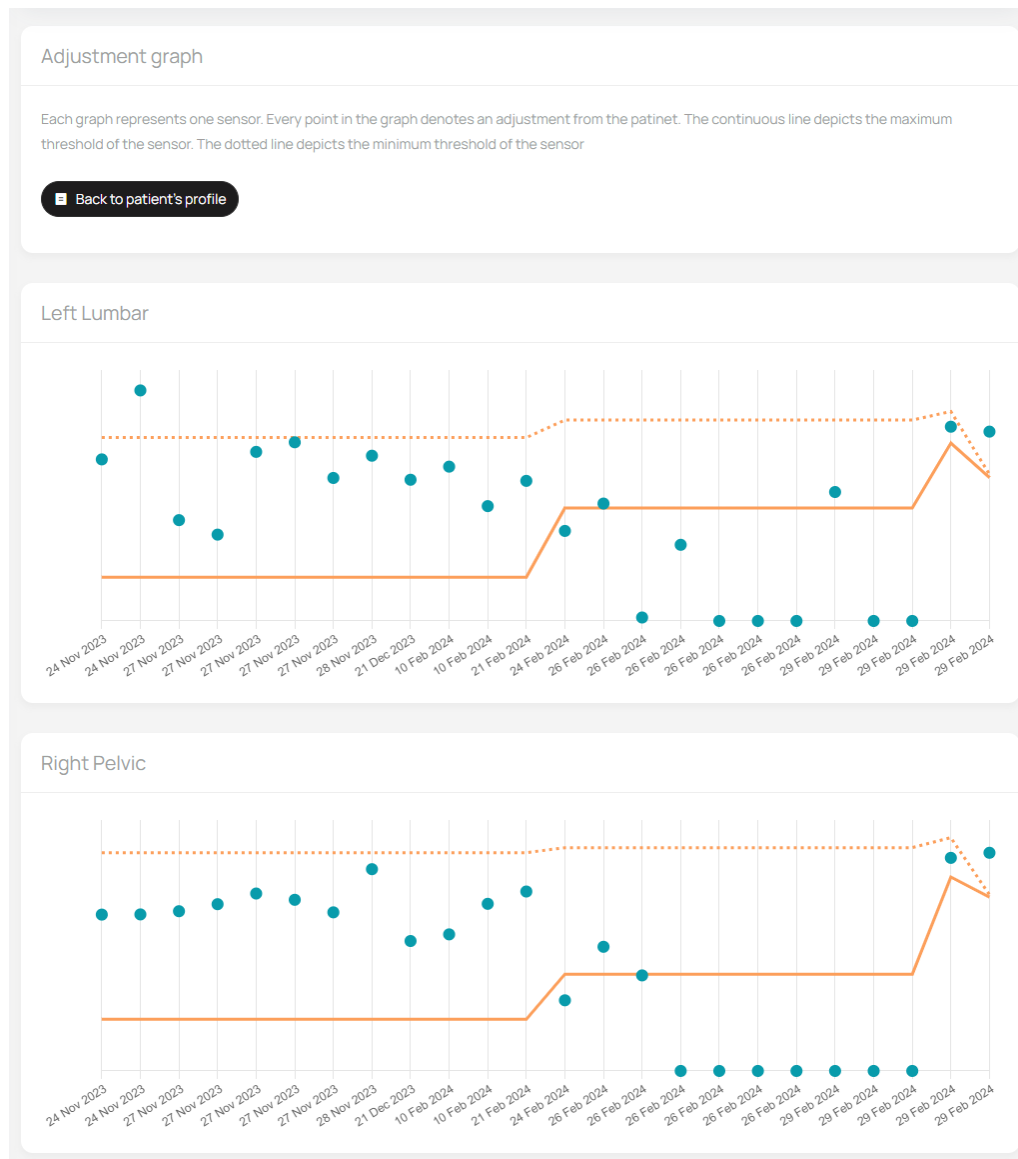
Pressure Chart Page (**Adjustment graph**)

Selecting the Adjustment history button on the patient tab takes you to the Adjustment graph page.



The graphs below show each sensor's upper (dotted line) and lower limit (continuous line) generated during the brace setting-Calibration.

The points within the chart indicate the fitting of the patient's brace.



Edit patient page

Through the “Edit patient page”, you can edit the patient’s information.

The patient can be deleted with the button “Remove Patient”[1].

CAUTION: The procedure of deleting a patient is **irreversible!**

To change a patient's **ScolioSense** device, you must select the **Change ScolioSense** device[2]. After changing the device, another calibration is required.

In case you change the number of sensors or the positions of the sensors, then another calibration is required[3].

To save the changes, you should select the button “Submit”[4].

In case you do not wish to save the changes, you can transfer to the patient's details without saving by pressing “Cancel Without Saving”.

1 Patient Information [1] Remove patient

Fields with asterisk (*) are required.

First Name* Last Name*
Tasos Anastasiadis

Email* Patient's Sex
tasosanastasiades@gmail.com ☒ Male ☐ Female

Location* Time Zone
Thessaloniki (GMT +2:00) Eastern European Time

Weight* Height*
45 155

Birthdate*
05/12/2003

2 Guardian Information

Guardian's weekly SMS report language
☒ English ☐ Ελληνικά

Guardian's phone number*
Greece (+30) 697554267

3 Treatment Information

Type Of Scoliosis
☒ Type C ☐ Type S

Recommended Wearing Hours*
18

Current Cobb Angle 1* Starting Cobb Angle 1*
45 50

Cobb Angle 1 with brace* Skeletal maturity scale
43 Risser

Level of maturity
Risser 2

Include the upper limit of the sensors
☒ Yes ☐ No

Number of Sensors [3]
2

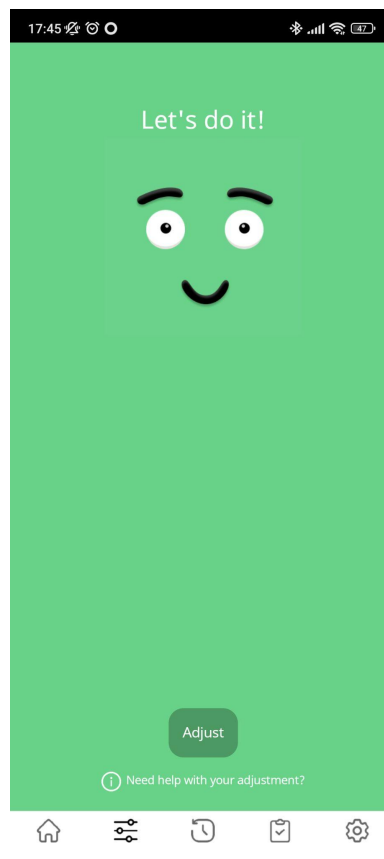
Sensor 1 Name*
Left Upper Thoracic

Sensor 2 Name*
Right Pelvic

[2] Change ScolioSense Cancel Without Saving [4] Save changes

Brace setting-Calibration

To adjust the sensors, the patient should wear the brace and be in an upright position. The correct fitting of the brace is defined by the user of the **ScolioSense** online platform. The patient must have the **ScolioSense** app installed on their mobile device, be logged into the app, and have an active Internet connection with Location and Bluetooth services enabled. The patient must also be on the adjustment page.



Once you have fitted the patient's brace in the desired position, you should press the button **Start calibration**.

Calibration process

Calibration is about to start, make sure that:

- The patient is connected with a ScolioSense
- Pressure is applied to the sensors
- The patient is currently on the adjustment (Green) page on the ScolioSense mobile application

Calibration sent

Calibration started

Calibration completed

Close

Start calibration

Then a notification is sent to the mobile device of the patient and the process of the calibration starts.

Calibration process

Calibration is about to start, make sure that:

- The patient is connected with a ScolioSense
- Pressure is applied to the sensors
- The patient is currently on the adjustment (Green) page on the ScolioSense mobile application

Calibration sent

Calibration started

Calibration completed

Close

Start calibration

During the calibration process, the patient should take two deep breaths and then breathe normally so that the pressure limits of the sensors are properly set.

Calibration process

×

Calibration is about to start, make sure that:

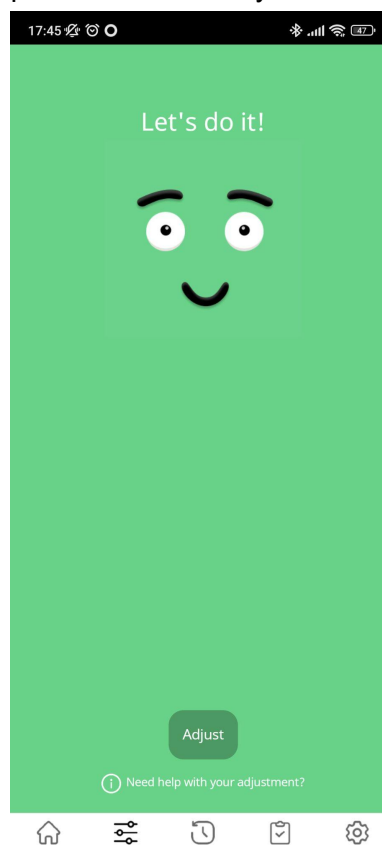
- The patient is connected with a ScolioSense
- Pressure is applied to the sensors
- The patient is currently on the adjustment (Green) page on the ScolioSense mobile application



Close

Start calibration

The process of setting up the brace is shown below through the **ScolioSense** app in an Android environment. The process is completed automatically.



After the calibration process is completed, the window will refresh and the limits of the previous and new calibration will be displayed.

Calibration Modal

Calibration is about to start, make sure that:

- The patient is connected with a ScolioSense
- Pressure is applied to the sensors
- The patient is currently on the adjustment (Green) page on the ScolioSense mobile application

Calibration sent

Calibration started

Calibration completed

Previous Calibration

New Calibration

Calibration completed successfully. You may now close this window or initiate another calibration by clicking Start Calibration.

Close

Start calibration

Help

Through the help page, you can learn more about all the functions of the **ScolioSense** online platform, as well as ways to deal with possible problems.

Dashboard

Patient

Account

DASHBOARD

Add Patient

My Patients

Adherence

Overview

PATIENT

Forgot password

In case you can't remember your password, you can retrieve your password by clicking at this [link](#).

Forgot Password

Please enter your email address and we'll send you an email with instructions to reset your password.

[Back](#)

In the next few minutes, an email is sent containing a link to the page to create a new password. After filling in the new password and selecting “Reset Password” you can enter the platform with your new password.

Reset Password

The password should be between 6 and 20 characters long. A strong password has a combination of letters and digits.

Email Address

New Password

Confirm password

SMS Report

ScolioSense supports sending a report via SMS to the patient's guardian. The report contains the patient's weekly average time of use of the brace and the time of appropriate fitting of the brace.

The report is sent every Sunday at 18:00. In the event that the guardian wants to stop the service, he should reply to the SMS with one of the words **STOP**, **STOPALL**, **UNSUBSCRIBE**, **CANCEL**, **END**, or **QUIT**. To reactivate the function it should send one of the words **START**, **YES**, **UNSTOP**

Tasos on 01/05 - 07/05 was wearing the backbrace for 6 hours on average per day, of which 6 were outside the proposed ranges. Please make sure that Tasos is using the adjustment feature

Troubleshooting

Problem	Coping
No connection is made to the platform	Contact Aidplex.
Brace calibration is not performed	1. Make sure the ScolioSense app has the Location and Bluetooth services enabled and an active Internet connection. 2. Make sure the ScolioSense app is open, and the patient is on the adjustment page. 3. In case the ScolioSense app responds to the platform's calibration request but the process terminates unexpectedly, then: a. Turn off the Location and Bluetooth services of the patient's device, and then turn the above services back on. b. Restart the ScolioSense app. Close the app from the background and try again. 4. In case the ScolioSense app does not respond to the calibration request of the platform then: a. Log the patient out of the ScolioSense app and then log the patient into the ScolioSense app. b. Uninstall the ScolioSense app and reinstall it

	on the patient device. If the problem persists, contact Aidplex.
The patient did not receive his registration email from the platform	1. Ensure that an email has been delivered to the address provided by the patient, both in the inbox and in the spam folder. 2. Make sure that the address given by the patient is entered correctly in the platform. 3. Delete the patient from the platform and create a new patient account. If the problem persists, contact Aidplex.

Legal information

Aidplex disclaims all liability for any loss of data, loss of profits, or any other loss or damage suffered by the end customer.

The **ScolioSense** device is warranted for 2 years from purchase when used in accordance with this manual.

Aidplex can proceed with the replacement of a **ScolioSense** device (if deemed necessary) free of charge, in the case of an active warranty.

Warning: The warranty is **not** applied if any part of the device is modified or replaced by personnel, that is not authorized by **Aidplex** or its authorized representative.

Aidplex does not guarantee any therapeutic results when using **ScolioSense**.

Service policy

Whenever the **ScolioSense** product is repaired, settings may change or data loss may occur on the device.

Warning

Before sending for repair, the data of the **ScolioSense** device should be synchronized through the **ScolioSense** app (if possible), to ensure the maintenance of its data.

Aidplex has a support team for **ScolioSense**, which you can contact every day during the hours 10.00 - 18.00 (Greek Time), except Saturdays, Sundays, and Holidays, via the telephone number +302316014433 or via email: support@aidplex.com for any questions or product related problem.

Warning

ScolioSense is a Class 1 Medical Device, an accessory of the scoliosis brace, which is a Class 1 Medical Device as well.

ScolioSense must be used in accordance with the instructions for use.

Failure to do so may result in injury.

Users are responsible for the way they are using **ScolioSense**.

Please check the **Aidplex** or **ScolioSense** website periodically for available information regarding contraindications, risks, or side effects related to **ScolioSense**.

ScolioSense does not offer treatment advice or any medical diagnosis.

Aidplex does not guarantee any therapeutic results when using **ScolioSense**.

Contact info

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