



**REMOTE HEALTHCARE MADE SIMPLE**

# Clinician Portal - Clinician Manual

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*Date: August 24, 2022*



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# Introduction

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This user manual of OTH Clinician Portal has been written for clinicians. The user manual has been written in a way so that it is thorough and understandable for all clinicians, and no prior teaching or workshop participation is necessary to understand it. All clinicians must read this entire user manual before using the OTH Clinician Portal.

## Intended use of OTH software

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### **Intended use:**

OpenTele version 2 is a software platform consisting of two integrated parts, a web application and a mobile device application. The software platform is intended to provide patient information from the patient to a remote healthcare team through relevant network technology.

OpenTele version 2 is intended for booking and management of appointments, patient interaction through video consultation and text messaging, capture of electronic questionnaires, aggregation, storage and management of clinical data, as well as information management of independent external physiological measurement devices connected either directly to the mobile device application or through digital communication technologies such as USB, Bluetooth or Bluetooth Low Energy (LE).

### **Product claims:**

The OpenTele software platform allows HCPs to remotely monitor patients' vital signs (**blood pressure, pulse, body weight, and SpO2**) through questionnaires and/or forms requesting the patient to report on their health status and/or perform measurements. This combination of objective data and subjective responses enables HCPs to make informed, timely decisions for patients diagnosed with COPD, CHF or HTN.

OpenTele enables the healthcare professional to design and distribute individualized or generic electronic questionnaires and/or forms. The healthcare professional may add threshold values for reference when reviewing reported information in the web application.

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### **Indication for Use:**

OpenTele version 2 is indicated for use by patients and by healthcare professionals for collection and reviewing of data from patients who are capable and willing to engage in the use of OpenTele.

# OTH software installation and update

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There are no installation or updates required for the client, since the software is accessed through a browser.

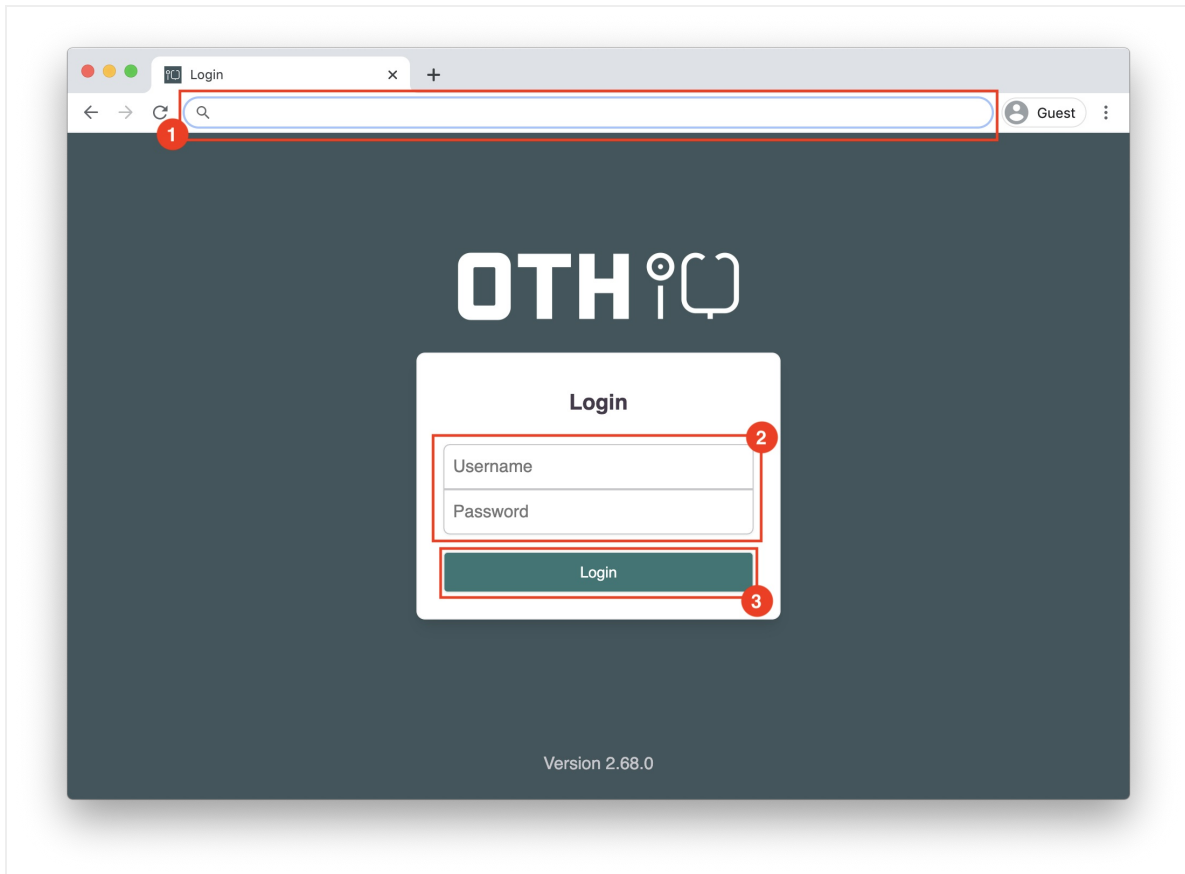
A up-to-date version of Google Chrome, Mozilla Firefox or Microsoft Edge is recommended when using the OTH platform to ensure proper operation.

An internet connection that provide access to the relevant server installation, is required.

# General Navigation

## Logging into the system

1. **Visit** the OTH clinician portal web site in your internet browser. URL is provided upon installation. The OTH clinician portal is a web based application and can be used anywhere as long as you have access to a web browser. The website functions best with Google Chrome, Mozilla Firefox or Microsoft Edge.
2. **Type** your username and password. Your username and initial temporary password will be provided by the administrator. Upon initial login, you will be asked to change your password. Passwords must be at least 8 alpha numeric characters in length and must contain 1 number.
3. **Click** "Login".

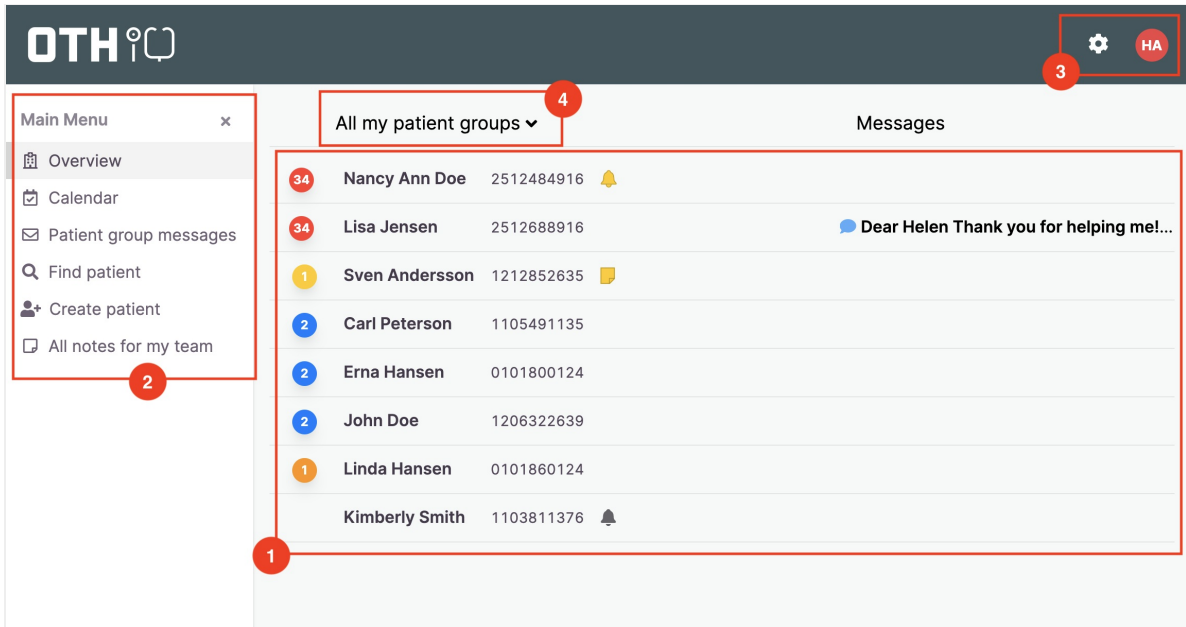


## Menus and page layout

Upon login, the Overview page displays patients assigned to you that have pending alerts/alarms.

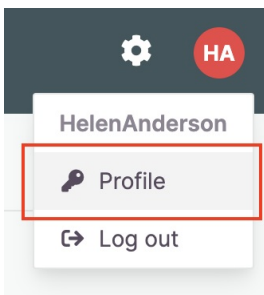
Menu and general navigation features are described below:


1. Overview page; this is the default page that is displayed upon login. It shows the patients with pending alarms for your organization.
2. Main Menu panel allows access to the submenus: Overview, Calendar (optional), Patient group messages (optional), Find Patient, Create Patient and All Notes for My Team pages.
3. Top menu bar displaying the username you are logged in with; Administrator Menu button to access the Administrator Menu; Profile to change your login password and; Logout button to logout of system when desired.
4. In the drop down it is possible to choose a patient group and then press the button "Filter".



## Changing my password

1. **Click** the round button in the top right corner and select "Profile".




2. **Type** in current password.
3. **Type** in your new password and repeat the password. Passwords must be at least 8 alphanumeric characters in length and must contain 1 number.
4. **Click**  Update

### Change password

**Current password\***

**New password\***

**Repeat password \***

 Update

5. The following message will display when your password is successfully changed.

## Password changed

 Password changed for user: HelenAnderson

## Logging out

1. When ready to log out of the system **click** on “Log out” at the top right dropdown menu.



# Patient Enrollment

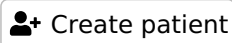
## Evaluate patient suitability

Before enrolling a patient in OTH, the patient's suitability must be evaluated.

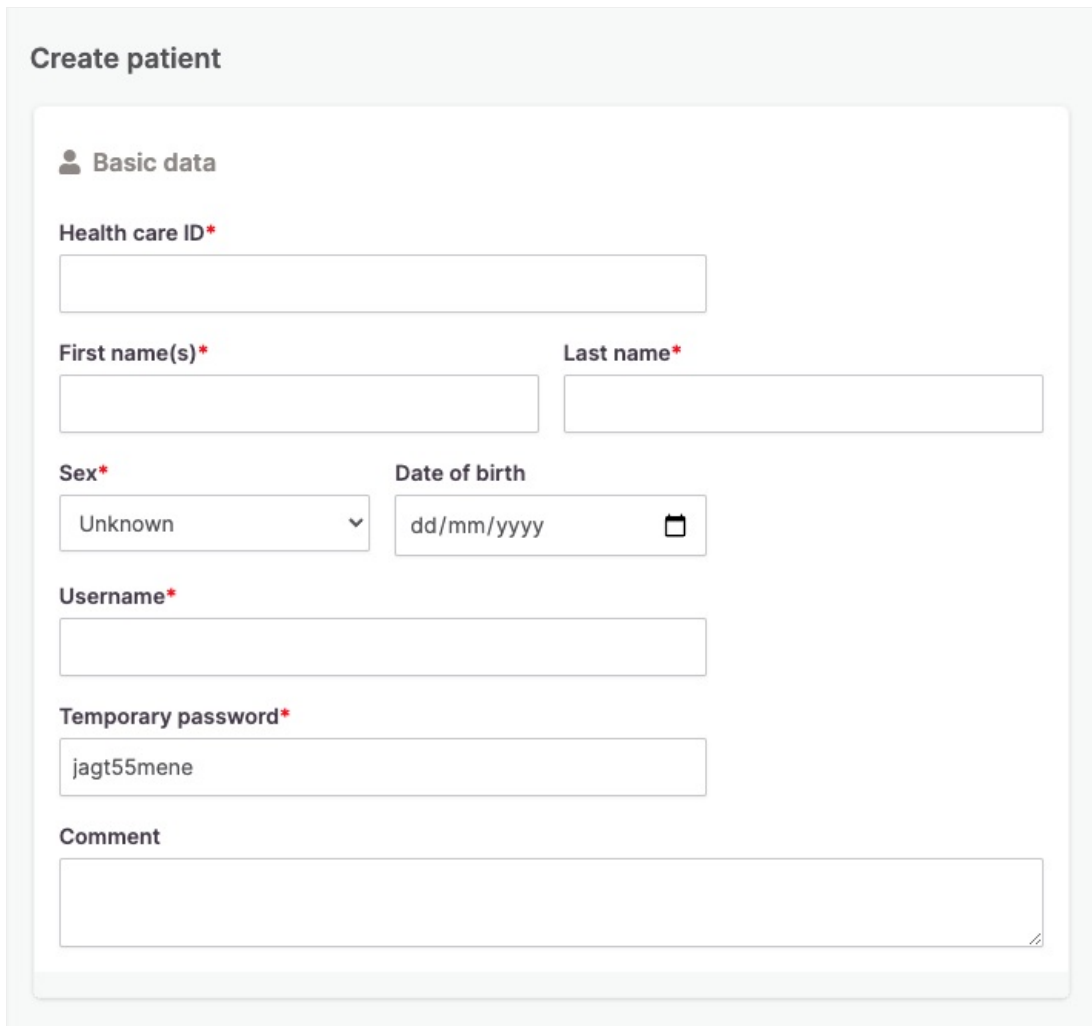
A patient should:

- Have a diagnosis for one or more chronic diseases, **non-acute condition**.
- Or have a **non-acute** clinical condition/state of temporary character (i.e. pregnancy, post-op etc.)
- Or be unencumbered by any known condition of disease.
- Be able to read.
- Have the cognitive abilities required to operate a simple app and the required medical devices.


## Creating a new patient

1. **Click** on the  button in the main menu.
2. **Enter** the new patient information in the *Basic data* form.

A red asterisk\* indicates that a field is mandatory and must be filled out. The patient *Health care ID* is the unique patient identifier. Likewise, the *Username* must also be unique. You can either use the automatically generated temporary password or enter one manually; passwords must be at least eight characters in length and contain at least one number.



3. Once all fields have been filled out, the form will indicate whether the data is valid by either coloring the border teal as, seen below, or red if some data is missing or invalid.

 **Basic data**

**Health care ID\***

**First name(s)\*** **Last name\***

**Sex\*** **Date of birth**


**Username\***

**Temporary password\***

**Comment**

✓

5. Once the *Basic data* form has been filled out, continue by **filling out** the *Contact information* form in a similar fashion.

 **Contact information**

**Address\***

**Postal code\*** **City\***


 

**Province**

**Phone** **Mobile phone**

**Email**

6. Next, **add** any relatives or contact persons to the patient's *Circle of care* by filling out the form below and **click** the .

Circle of care

First name(s)	Last name	Relation	Phone	Address	City	Note	Actions
No one added to circle of care yet							

First name(s)\*

Last name\*

Relation\*

Phone\*

Address

City

Note

7. **Verify** that all relevant persons have been added to the *Circle of care*.

Circle of care

First name(s)	Last name	Relation	Phone	Address	City	Note	Actions
John	Doe	Brother	555-444	-	-	-	

First name(s)\*

Last name\*

Relation\*

Phone\*

Address

City

Note

8. Next, **choose** the desired patient group(s) the patient should be assigned. Optionally **select** which of the chosen patient groups should be marked as *data-responsible*.

Patient groups

**Patient groups \***

**Data-responsible**

10. After choosing the relevant patient groups, **fill out** any relevant patient metadata that may be associated with the organizations the patient will be enrolled within. Note that all metadata is optional by nature.

### 👤 Patient groups

**Patient groups \***

× Hypertension

**Data-responsible**

-- Select Data-responsible --

✓

### 📁 Metadata

Department of Cardiology

**Comorbidity**

Diabetes

11. Finally, **adjust** any loaded thresholds associated with the chosen patient groups values.

🔒 Thresholds

Measurement type	Threshold type	Unit	Red alarm (high)	Yellow alarm (high)	Yellow alarm (low)	Red alarm (low)	Aggregation
Blood pressure, systolic	Absolute	mmHg	130	120			60% of last 5
Blood pressure, diastolic	Absolute	mmHg	110	100			60% of last 5
Blood pressure, systolic	Absolute	mmHg	131	110			-
Blood pressure, diastolic	Absolute	mmHg	120	100			-
Weight	Relative lowest within 5 days	kg	2	1,5			-

9. Click  Save.

10. After saving, you will be redirected to the patient's *Basic data* page and the main menu will change to a *patient context*. When in a patient context, the patient menu will display the patient's information at a quick glance (e.g. patient name, health care ID, date of first enrollment, comments, contact information and their relative's contact information).

**Main Menu** x

Overview

Find patient

**Patient Menu**

**Nancy Ann Berggren**  
Health Care ID: 1234567890  
Enrolled: Jan 17, 2022

Telephone:  
Mobile phone:

Patient groups:  
Heart Patient  
Hypertension

Metadata:  
Comorbidity: Diabetes

1st in Circle of Care:  
John Doe (Brother) (Tlf. 555-444)

Compl. questionnaires

Add measurements

**Basic data**

Messages

Notes

Passive intervals

Graphs

Measurements

Monitoring plan

Video call

Work log

Some 3rd Party System

**Basic data for Nancy Ann Berggren**

**Username** nancyann

**Temporary password** load45fald

**Health care ID** 12345678

**First name(s)** Nancy Ann

**Last name** Berggren

**Sex** Female

**Status** Active

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**Address** Some street 42

**Postal code** 4200

**City** Some city

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**Circle of care**

Name	Relation	Phone	Address	City	Note
John Doe	Brother	555-444			

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**Patient groups**

- Hypertension

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**Metadata**

- Comorbidity: Diabetes

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**Thresholds**

Measurement type	Threshold type	Unit	Red alarm (high)	Yellow alarm (high)	Yellow alarm (low)	Red alarm (low)	Aggregation
Blood pressure, systolic	Absolute	mmHg	131	110	-	-	-
Blood pressure, diastolic	Absolute	mmHg	120	100	-	-	-
Blood pressure, systolic	Absolute	mmHg	130	120	-	-	60% of last 5
Blood pressure, diastolic	Absolute	mmHg	110	100	-	-	60% of last 5
Weight	Relative lowest within 5 days	kg	2	1.5	-	-	-

[Edit](#)
[Print](#)

## Setting a patient's monitoring plan and schedule

1. Click "Monitoring plan" on the left patient menu.

**Patient Menu**

**Nancy Ann Doe**  
Health Care ID: 55663322787  
Enrolled: Apr 20, 2021

Telephone:  
Mobile phone: 40769901

Patient groups:  
Heart Patient

Compl. questionnaires

Add measurements

Basic data

Messages

Text messages

Notes

Passive intervals

Graphs

Measurements

**Monitoring plan** 1

2. The monitoring plan page for the patient will display.
3. Start date will default to the date the patient profile was created.
4. Click "Edit" to change the date as required.

**Monitoring Plan for Else Nielsen** 2

Only show on answering  day

Start date 4/27/21 3

✎ Edit 4

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**Questionnaires**

Scheduling	Questionnaire	Questionnaire Status	Assigned via	Action
<span style="border: 1px solid red; padding: 2px;">+ Assign questionnaire</span>	<span style="border: 1px solid red; padding: 2px;">✎ Assign/remove questionnaire groups</span>			

5. **Click** the calendar icon. The calendar will pop up. **Select** the date you would like the plan to begin.
6. **Click** "Update".

**Edit Monitoring Plan for Else Nielsen**

Start date \* 4/27/2021 📅 5

**April 2021**

Mo	Tu	We	Th	Fr	Sa	Su
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

7. **Click** "Assign Questionnaire".

**Monitoring Plan for Else Nielsen**

🔔 Monitoring Schedule updated

Only show on answering  day

Start date 4/30/21

✎ Edit

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**Questionnaires**

Scheduling	Questionnaire	Questionnaire Status	Assigned via	Action
<span style="border: 1px solid red; padding: 2px;">+ Assign questionnaire</span>	<span style="border: 1px solid red; padding: 2px;">✎ Assign/remove questionnaire groups</span>			

8. **Select** the questionnaire for the patient by **clicking** on the drop down menu.
9. **Select/Click** the frequency/schedule for completing the questionnaire. See more information about schedule setup chapter "Edit monitoring plan/schedule".

- Once frequency is selected, additional options will appear on the screen below. See more information about schedule setup chapter “Edit monitoring plan/schedule”. **Complete** the information in the field as shown.
- Click** “Assign”.

### Assign Questionnaire Schedule

Questionnaire \* 8

Blood pressure and pulse ▼

Scheduling:

Unscheduled

Weekdays - several daily measurements

Weekdays - one daily measurement 9

Date(s) of the Month

Every nth day

Specific date

Weekdays - one daily measurement 10

Deadline at: 11 : 59 PM ▼

Reminder at: 10 : 00 AM ▼

Schedule window: 23 hours

Length of 1st period: 4 weeks ▼

1st period	2nd period
<input type="checkbox"/> All/no days	<input type="checkbox"/> All/no days
<input checked="" type="checkbox"/> Monday	<input checked="" type="checkbox"/> Monday
<input checked="" type="checkbox"/> Tuesday	<input checked="" type="checkbox"/> Tuesday
<input checked="" type="checkbox"/> Wednesday	<input checked="" type="checkbox"/> Wednesday
<input checked="" type="checkbox"/> Thursday	<input checked="" type="checkbox"/> Thursday
<input checked="" type="checkbox"/> Friday	<input checked="" type="checkbox"/> Friday
<input checked="" type="checkbox"/> Saturday	<input type="checkbox"/> Saturday
<input type="checkbox"/> Sunday	<input type="checkbox"/> Sunday

Weekdays

11

- The monitoring plan page will display with the inputted monitoring plan and schedule.

## Assigning questionnaire groups

It is also possible to link a questionnaire group to the patient. Thus automatically assigning each questionnaire, using the questionnaire’s standard schedule, in that questionnaire group to the patient.

Any changes made to the list of questionnaires in the questionnaire group is then reflected in the patient’s monitoring plan.

- Click**  from the Monitoring plan page.

**Monitoring Plan for Lisa Jensen**

Only show on answering day

Start date 4/27/21

[Edit](#)

**Questionnaires**

Scheduling	Questionnaire	Questionnaire Status	Assigned via	Action
1:00 PM mon, wed, fri	Blood pressure and pulse	<span style="color: green;">■</span>	Monitoring plan	<a href="#">✎</a> <a href="#">🗑</a>
12:00 PM mon, tue, wed, thu, fri, sat, sun	Blood sugar levels	<span style="color: green;">■</span>	Monitoring plan	<a href="#">✎</a> <a href="#">🗑</a>
Unscheduled	COPD questionnaire	<span style="color: green;">■</span>	Monitoring plan	<a href="#">✎</a> <a href="#">🗑</a>
Unscheduled	Lung function	<span style="color: green;">■</span>	Monitoring plan	<a href="#">✎</a> <a href="#">🗑</a>
7:00 AM mon, tue, wed, thu, fri, sat, sun	Weight	<span style="color: green;">■</span>	Monitoring plan	<a href="#">✎</a> <a href="#">🗑</a>

[+ Assign questionnaire](#) [✎ Assign/remove questionnaire groups](#)

- The 'Assign/remove questionnaire groups' page will display showing the questionnaire groups the patient is already assigned.

**Assign/remove questionnaire groups for Lisa Jensen**

Add questionnaire group

Lung group

Assigned questionnaire groups

Questionnaire group	Time	Questionnaire	Status	Action
Hypertension group	Unscheduled	Blood pressure and pulse	<span style="color: green;">■</span>	<a href="#">🗑</a>

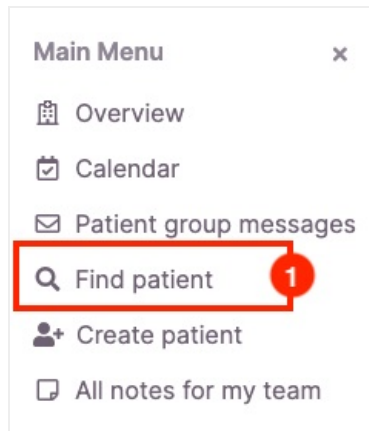
- Select** a "Questionnaire group" in the drop down menu, which will shown the questionnaires of the group in the table below. **Click** the  button to add the questionnaire group to the monitoring plan.
- Added questionnaire groups are shown here along with the names of the questionnaires in each group.
- Click** "Update".
- The Monitoring plan will be updated with the new list of assigned questionnaire groups.

# Ongoing Patient Care

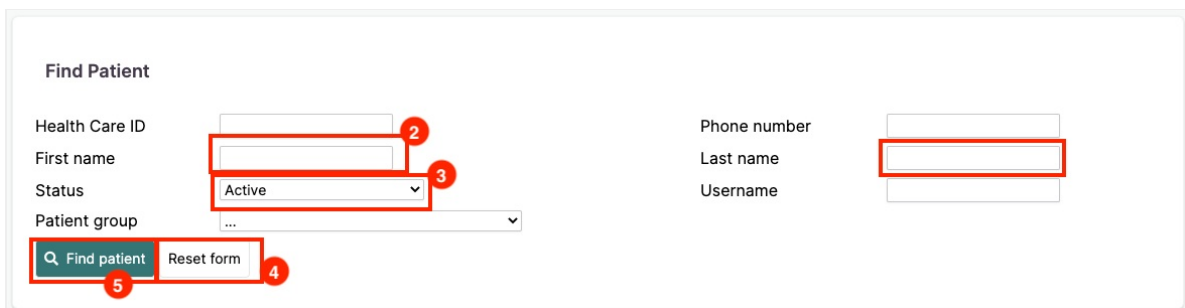
## Finding a patient

### Searching by patient name

1. **Click** “Find Patient” from the main menu panel.

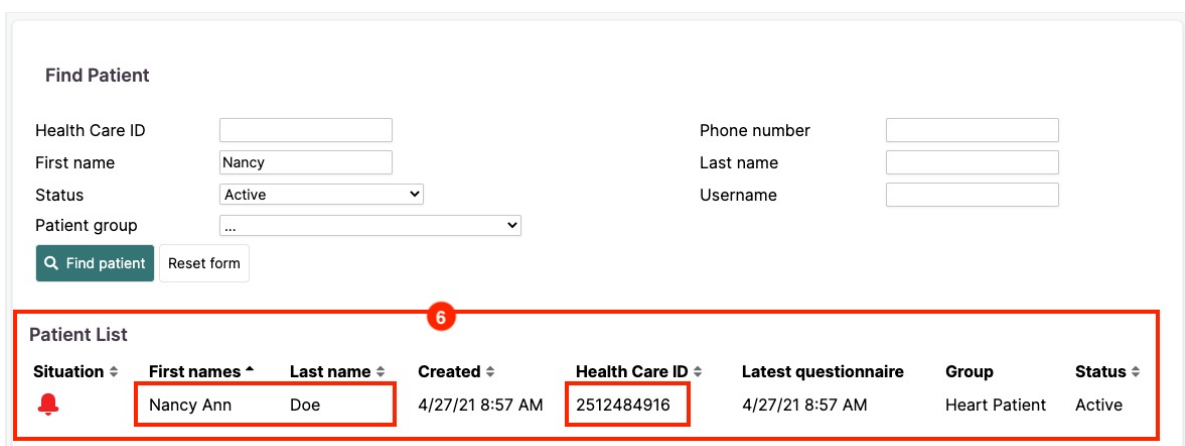


2. **Type** in patient’s first name and last name.
3. **Ensure** status is set to “Active” in the drop down menu.
4. If you want to blank out the form: Click “Reset form” and type new information as required.
5. **Click** “Find Patient”.



A screenshot of the 'Find Patient' form. The form has the following fields: Health Care ID, First name, Status (dropdown menu set to 'Active'), Patient group, Phone number, Last name, and Username. There are two buttons at the bottom: 'Find patient' (highlighted with a red box and a red circle with the number 5) and 'Reset form' (highlighted with a red box and a red circle with the number 4). Red boxes and circles with numbers 2, 3, and 4 highlight the First name, Status, and Reset form fields respectively.

6. Patient search results will display. **Click** on the patient's name to pull up the patient chart.



A screenshot of the 'Find Patient' form showing search results. The form fields are filled with: Health Care ID, First name: Nancy, Status: Active, Patient group, Phone number, Last name, and Username. Below the form is a 'Patient List' table with a red box and a red circle with the number 6 highlighting the entire table. The table has the following columns: Situation, First names, Last name, Created, Health Care ID, Latest questionnaire, Group, and Status. The first row of data is: Situation (with a red notification icon), First names: Nancy Ann, Last name: Doe, Created: 4/27/21 8:57 AM, Health Care ID: 2512484916, Latest questionnaire: 4/27/21 8:57 AM, Group: Heart Patient, Status: Active.

### Other search options

You can also search for a patient by:

1. Health Care ID
2. Phone number
3. Username and/or
4. Patient group

Simply click on the field on the find patient page, type in the information and click "Find Patient". Patient search results will display.

## Reviewing all notes for my team

1. **Click** "All notes for my team" from the main menu panel.
2. All notes for your team/patients will display. Each row displays the patient name, note documented, type (e.g. normal or important), reminder date, whether it's been seen by you and whether it's been seen by another member of the team. Notes can be sorted by each column simply by clicking on the title (e.g. image below is sorted by patient name A-Z, by clicking reminder date, notes will be sorted by date). You can move up and down the list by clicking on the up and down arrows.
3. **Click** on the patient's name to view the patient chart.
4. **Click** directly on the note to view additional details of the note.

All notes for my team

Click on the note to view additional details and mark note as read

Click on the column heading to sort by the column

Patient	Note	Type	Created Date	Reminder Date	Seen by me?	Seen by any user?
Kimberly Smith	Please add extra BP measurement to schedule.	Normal	4/27/21 8:57 AM	4/26/21 8:57 AM	No	No
Nancy Ann Doe	Please check if BP values are withing range	Important	4/27/21 8:57 AM	4/26/21 8:57 AM	No	No
Sven Andersson	Please remember to add extra BP measurement to plan.	Important	4/27/21 8:57 AM		No	No

Click on patient name to view patient details

Details of the note will display.

5. **Click**  Mark As Read to indicate you have read the message. Once the note has been acknowledged by a user it cannot be edited.

**Note for Sven Andersson**

**Note** Please remember to add extra BP measurement to plan.

**Type** Important

**Created Date** 4/27/21 8:57 AM

**Last edited** 4/27/21 8:57 AM

**Created by** Unknown

Edit  Delete  Mark as read

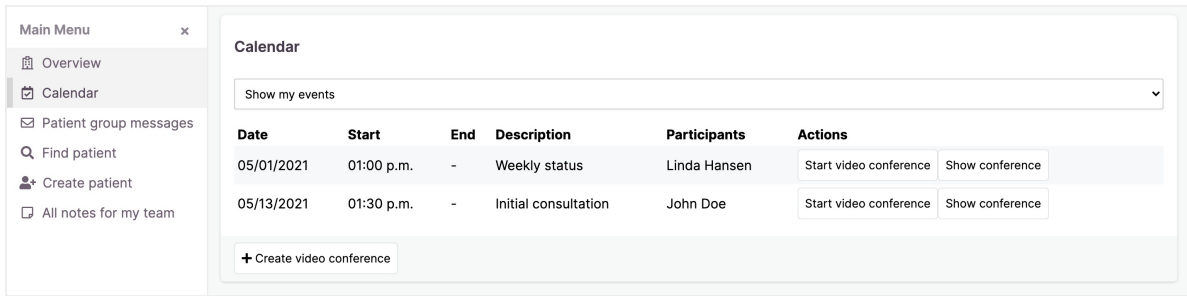
6. Return to the note page, you will now see that the note has been seen by you.

All notes for my team

Patient	Note	Type	Created Date	Reminder Date	Seen by me?	Seen by any user?
Kimberly Smith	Please add extra BP measurement to schedule.	Normal	4/27/21 8:57 AM	4/26/21 8:57 AM	No	No
Nancy Ann Doe	Please check if BP values are withing range	Important	4/27/21 8:57 AM	4/26/21 8:57 AM	Yes	Yes
Sven Andersson	Please remember to add extra BP measurement to plan.	Important	4/27/21 8:57 AM		Yes	Yes

# See and schedule upcoming video conferences with patients

The **Calendar** menu gives you an overview of any upcoming video conferences.



The drop-down menu at the top of the screen provides the option to filter these meeting based on patient groups.

- **Click** the “Create video conference” button to schedule a video conference,
- **Click** the “Start video conference” button to start an already scheduled video conference (see [Conducting a video conference](#)), or
- **Click** the “Show conference” to edit an existing scheduled video conference.

## Overview screen

The overview screen is the default page displayed when the user logs into the system. This screen shows patients who have either:

1. Responded to the questionnaire,
2. has not carried out the questionnaire on time,
3. have an unread message, or
4. have a reminder note.


This is not the complete list of all your patients.


Patients' are listed by severity of the alarm color. Red alarms are shown at the top, then yellow, blue, orange, green and gray. The alarm descriptions are shown based on data retrieved from the questionnaire and the colours signal the following:





1. **Red:** alarm exceeded by one or more values (which fall outside of the normal range).
2. **Yellow:** one or more values to be observed (which fall outside of the normal range).
3. **Blue:** data not received before expected deadline.
4. **Orange:** clinical attention to review data within questionnaire.
5. **Green:** no alarm limits are exceeded (however, important to note that a patient's condition may gradually worsen before an alarm is triggered).
6. **Gray:** No new measurements, but an unread message either to or from patient.

You can view the overview screen by patient groups by using the filter feature. Additional actions include acknowledging alarms and responding to the various icons and alerts mentioned below:

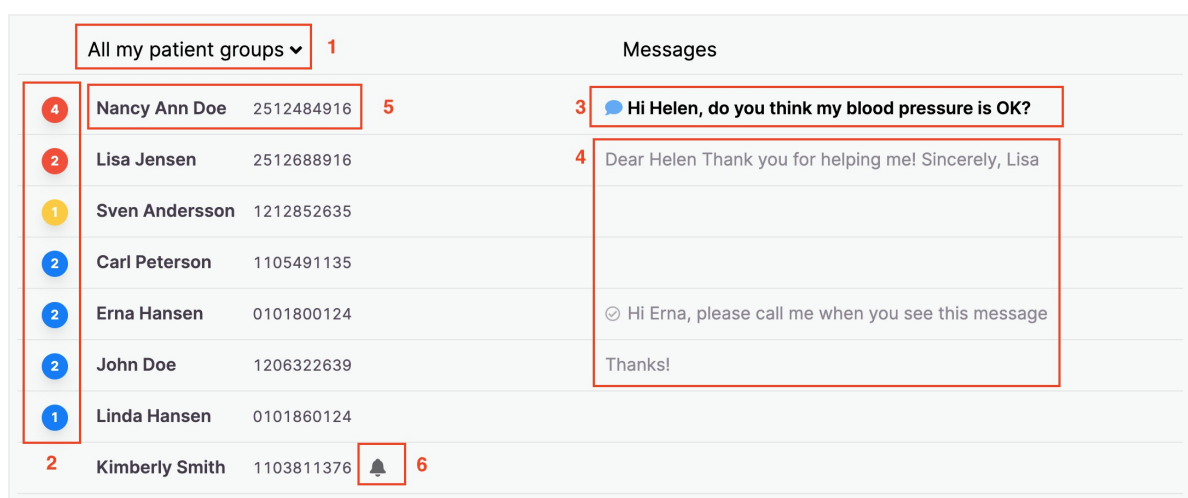
### 1. Filter screen view



- **Click** on the drop down menu and select the patient group you would like to view. Depending on your access you may have one or more patient groups.
2. **Alarm icon** shows the alarm triggered based on measured values and/or responses to the patient's questionnaire. Alarms may appear in red, yellow, blue, orange, green or gray.
    - Hover over the icon to see which questionnaire may have triggered the alarm.
  3. **Unread messages from patient** will be previewed in bold next to a  icon.
    - Hover over the message to see the number of unread messages and the date/time of the last unread message.

4. **Unread messages to patient** will be previewed in grey text next to a  icon. Read messages will be previewed in grey text without any icon
5. **Patient name and ID.** Click on the patient's name or health care ID to view patient chart and profile. You will be brought to the completed questionnaire page for the patient.
6. **Notes and Reminders.** A note or bell icon indicates whether there are any notes with or without reminders for the patient:

-  Note
-  Unread important note
-  Unread note with reminder, after reminder time
-  Unread important note with reminder, after reminder time

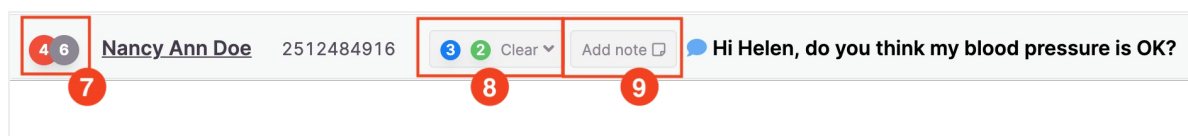
- Hover over the icon to see the status on unread notes and/or reminders.
- Click the icon to view unread notes/reminders and respond to them accordingly.




All my patient groups <span style="border: 1px solid red; padding: 2px;">1</span>		Messages
4	Nancy Ann Doe 2512484916 <span style="border: 1px solid red; padding: 2px;">5</span>	3  Hi Helen, do you think my blood pressure is OK?
2	Lisa Jensen 2512688916	4 Dear Helen Thank you for helping me! Sincerely, Lisa
1	Sven Andersson 1212852635	
2	Carl Peterson 1105491135	
2	Erna Hansen 0101800124	☑ Hi Erna, please call me when you see this message
2	John Doe 1206322639	Thanks!
1	Linda Hansen 0101860124	
2	Kimberly Smith 1103811376  <span style="border: 1px solid red; padding: 2px;">6</span>	

When hovering the mouse cursor over a specific patient, more information and actions are available.

7. **Unacknowledged questionnaires.** Next to the alarm counter, the total number of unacknowledged questionnaire replies is displayed.
8. **Clear alarms.** A dropdown menu for acknowledging all green (or blue) alarms for the patient.
9. **Add note.** Click to add a new note for the patient



4 6	Nancy Ann Doe 2512484916	3 2 Clear ▾	Add note 	Hi Helen, do you think my blood pressure is OK?
7		8	9	

When clicking anywhere else on the patient row, an overview of any unacknowledged questionnaire replies is shown. See “Reviewing completed questionnaires” below for more information.

4 Nancy Ann Doe 2512484916 Hi Helen, do you think my blood pressure is OK?

**Nancy Ann Doe**

- All questionnaires - 4/27 8:57 AM 4/27 8:57 AM 4/19 12:00 AM 4/18 2:00 AM

Blood sugar (mmol/L) See result

Duration (hours) (hours) 7.8

Height (cm) 180

Peak expiratory flow (L/min) 623

Respiratory rate (RR) 15

Saturation (%) 98

Tidal volume, 95th percentile (mL) 325

Blood pressure / Pulse (mmHG, BPM) 130/81, 59

## Navigating the patient menu

### Reviewing completed questionnaires

1. **Click** on a patient name in the overview.
2. The “Completed questionnaires” page displays. This page is the default page when navigating to the patient menu context. Alternatively, **click** “Completed questionnaires” from the patient menu to access the page.

**Patient Menu**

**Sven Andersson**  
Health Care ID: 1212852635  
Enrolled: Mar 20, 2020

Telephone:  
Mobile phone:

Patient groups:  
Heart Patient

Compl. questionnaires **2**

Add measurements

Basic data

Messages (1)

Notes

Passive intervals

Graphs

Measurements

Monitoring plan

Video call

Work log

Period: All · **1 week** · 1 month · 3 months · 1 year · Choose period

From: 4/29/2021 To: 4/29/2021 Adjust

**Nancy Ann Doe** Acknowledge

- All questionnaires - 4/29 2:10 PM 4/29 2:09 PM 4/29 2:09 PM 4/29 2:08 PM

Blood pressure (mmHG, BPM) 119/84, 72

Weight (kg) 87.0

Saturation (%/BPM) 92/81 95/67

3. You will notice the following on the completed questionnaire page (see sections below for additional details):
  - a. **Period selection** to display the timeframe of completed questionnaires preferred.
  - b. **Drop down labeled ‘All questionnaires’** to select a measurement/question to view at the top row.
  - c. **Column header** indicating the date and time the questionnaire was completed. When hovering a column various options to respond to results are shown in a drop down box above the column. Each column displays the patient’s responses to each question (one question per row) within the questionnaire.

- Review patient questionnaire responses by using the scroll bar to the right. You will notice responses are flagged yellow or red based on thresholds set per question. Respond to questionnaire accordingly.

Period: All · 1 week · **1 month** · 3 months · 1 year · Choose period

Nancy Ann Doe

Acknowledge

- All questionnaires -

4/29 2:10 PM 4/29 2:09 PM 4/29 2:09 PM 4/29 2:08 PM

Blood pressure (mmHG, BPM) 119/84, 72

Weight (kg) 87.0

Saturation (%/BPM) 92/81 95/67

### Period selection

- Click on the period/timeframe of choice to view completed questionnaires from the top menu.

Period: All · **1 week** · 1 month · 3 months · 1 year · Choose period

- The completed questionnaire results will display.
- Click "Choose period" to specify the period you would like to see.

- Click icon and select the preferred from and to date on the calendar.

Period: All · 1 week · 1 month · 3 months · 1 year · Choose period

From: 4/29/2021 To: 4/29/2021 Adjust

April 2021

Mo	Tu	We	Th	Fr	Sa	Su
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Nancy Ann Doe

- All questionnaires -

Blood pressure (mmHG, BPM)

Weight (kg) 87.0

- Click "Adjust".
- The questionnaires will display for your specified timeframe.

### Drop-down labeled 'All questionnaires'

- Click on the drop down menu.

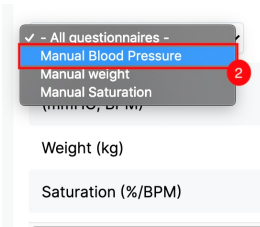
- All questionnaires -

Blood pressure (mmHG, BPM)

Weight (kg)

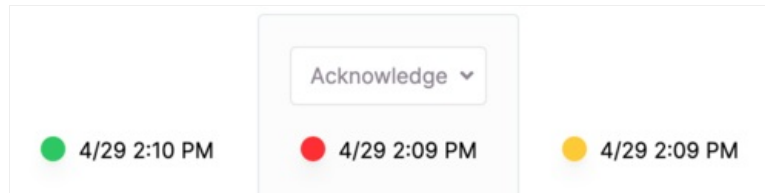
Saturation (%/BPM)

2. **Select** the questionnaire you would to see results from.



3. The table will now hide all completed questionnaire results that are not from that questionnaire.
4. Selecting the **'All questionnaires'** option from the drop-down will show all completed questionnaires as before.

### Column header

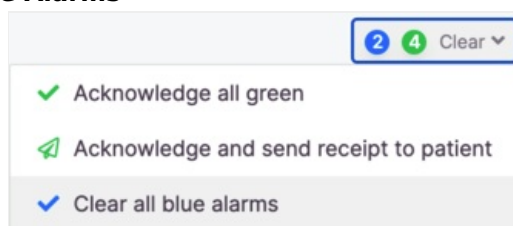


Each column displays the patient's responses to each question within the questionnaire. The column header displays the date and time the patient completed the questionnaire along with the:

1. **Alarm** icon displaying the color triggered. Hovering over the icon reveals a summary of what threshold(s) has triggered the alarm(s) in the questionnaire.
2. 4/29 2:09 PM Hover the date and click link to **View questionnaire result**.
3. **Acknowledge** **Acknowledge** icon. When hovering the column header for a questionnaire reply, click the **'Acknowledge'** drop-down and select this icon to acknowledge the questionnaire.
4. **Acknowledge and send receipt to patient** **Acknowledge and send receipt to patient** icon. When hovering the column header for a questionnaire reply, click the **'Acknowledge'** drop-down and select this icon to acknowledge the questionnaire and send receipt to the patient.

### Blue alarms

If you want to remove all blue for the actual patient, hover the **'Clear'** button in the top right corner and select the option: **Clear all Blue Alarms**



### View questionnaire result

1. **Click** the date link 4/29 2:09 PM to view questionnaire/ignore questionnaire/add comment.
2. The patient's questionnaire will display.
3. **Review** the questionnaire and **add** acknowledgement note as needed.
4. **Type** Acknowledgement note
5. **Click** "Ignore" if you would like to skip the measurement and exclude it from graphs/tables.
6. **Click** "Acknowledge" to acknowledge the questionnaire.

Answered questionnaire : COPD questionnaire - 2.0. ( 5/3/21 1:52 PM )

Acknowledged by: Not acknowledged

Acknowledged at:  
Acknowledge note:  
Closure notes:

Questions	Answer	Comment	Severity	Status
Saturation	97/68 %			<input type="radio"/> Ignore
Bloodpressure	130/99, 71 mmHG			<input type="radio"/> Ignore
Breathshortness	Yes		5	<input type="radio"/> Ignore
More coughing	Yes			<input type="radio"/> Ignore
More mucus	Yes			<input type="radio"/> Ignore

Acknowledgement note:

4

Acknowledge 6

## Acknowledging questionnaires with closure notes

**Please note:** The closure notes functionality is an optional add-on to the OTH system. If you cannot find the functionality on your OTH installation, and believe it should be present, please contact your local administrator or [tech-support@opentelehealth.com](mailto:tech-support@opentelehealth.com).

### Acknowledge a completed questionnaire in the completed questionnaires overview

When closure notes are enabled and you click the Acknowledge **Acknowledge** icon, as described in the previous section, you are now met with a popup asking you to select any relevant closure notes and write an acknowledgement note for the completed questionnaire to be acknowledged:

Period: All · 1 week · **1 month** · 3 months · 1 year · Choose period

**Nancy Ann Doe**

- All questionnaires -

5/3 1:52 PM 4/29 2:10 PM 4/29 2:09 PM 4/29 2:09 PM

Blood pressure (mmHG, BPM) 119/84, 72

Weight (kg) 87.0

Saturation (%/BPM) 92/81

Saturation (%/BPM) 97/68

Bloodpressure (mmHG, BPM) 130/99, 71

Breathshortness Yes

More coughing Yes

More mucus Yes

**Acknowledge questionnaire**

Closure notes

Hospital admission avoidance

Emergency antibiotics administered, emergency steroids

Visited by clinician

Hospital admission

Visit by clinician avoided

Acknowledgement note

Acknowledge  Cancel

As before, the questionnaire is acknowledged when clicking on the 'Acknowledge' button.

### Acknowledge a completed questionnaire when reviewing a single completed questionnaire

When closure notes are enabled and you are reviewing a single completed questionnaire then the 'view completed questionnaire' menu contains an extra 'closure notes' menu, where you have to select any relevant closure notes for the completed questionnaire to be acknowledged:

Answered questionnaire : COPD questionnaire - 2.0. ( 5/3/21 1:52 PM )

Acknowledged by: Not acknowledged

Acknowledged at:

Acknowledge note:

Closure notes:

Questions	Answer	Comment	Severity	Status
Saturation	97/68 %			<input type="button" value="Ignore"/>
Bloodpressure	130/99, 71 mmHG			<input type="button" value="Ignore"/>
Breathshortness	Yes			<input type="button" value="Ignore"/>
More coughing	Yes			<input type="button" value="Ignore"/>
More mucus	Yes			<input type="button" value="Ignore"/>

Closure notes

Hospital admission avoidance  
Emergency antibiotics administered, emergency steroids  
Visited by clinician  
Hospital admission  
Visit by clinician avoided

Acknowledgement note:

When clicking the 'acknowledge' button, the completed questionnaire is then acknowledged and the 'acknowledge note' and 'closure notes' values have been filled out in the 'view completed questionnaire' menu.

Answered questionnaire : COPD questionnaire - 2.0. ( 5/3/21 1:52 PM )

Acknowledged by: Helen Anderson

Acknowledged at: 5/3/21 2:10 PM

Acknowledge note: Acknowledgement note

Closure notes: Hospital admission avoidance  
Visited by clinician

Questions	Answer	Comment	Severity	Status
Saturation	97/68 %			<input type="button" value="Ignore"/>
Bloodpressure	130/99, 71 mmHG			<input type="button" value="Ignore"/>
Breathshortness	Yes			<input type="button" value="Ignore"/>
More coughing	Yes			<input type="button" value="Ignore"/>
More mucus	Yes			<input type="button" value="Ignore"/>

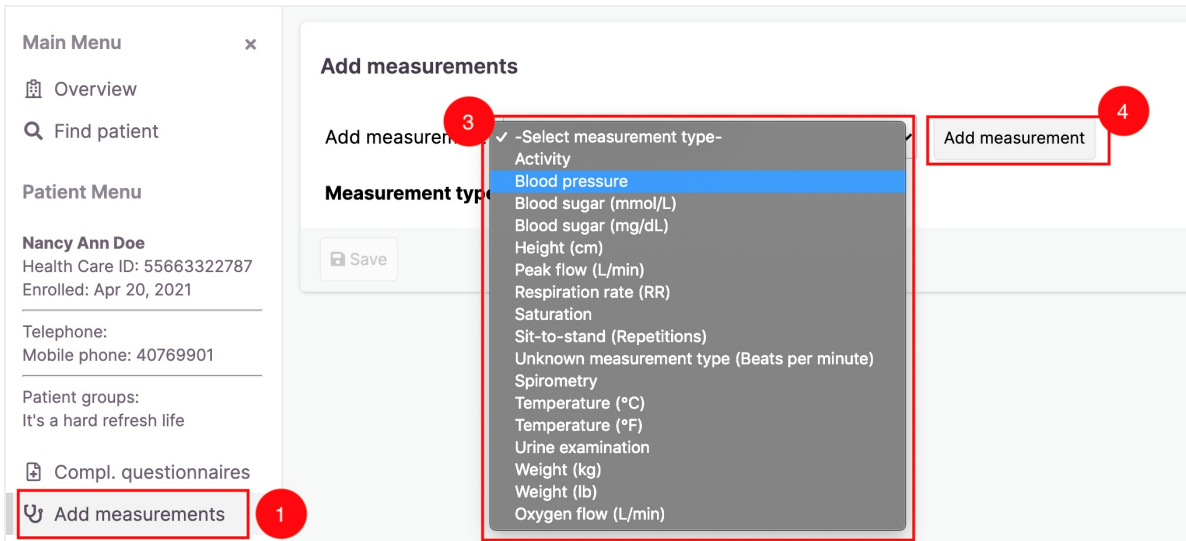
### Adding measurements


Adding measurements is used when the hospital staff are adding measurements for the patient, e.g. in a video conference or a personal meeting in the hospital.

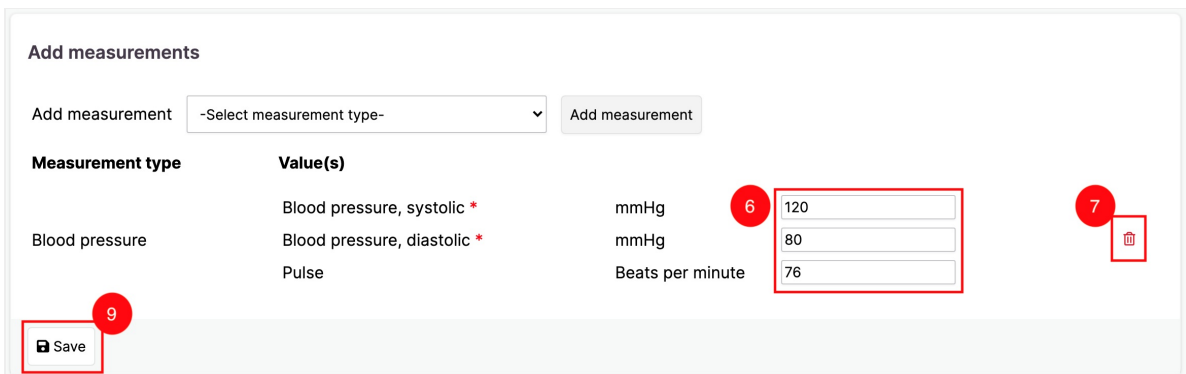
#### Warning

Note that alarms are not generated for manually entered measurements. Please make sure that the values are reviewed by a qualified clinician.

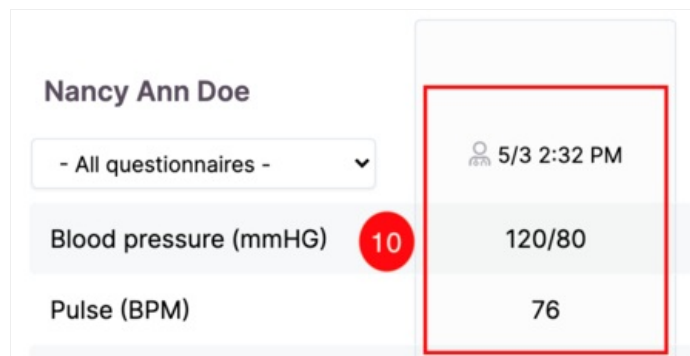
1. **Click** “Add measurements” from the patient menu.
2. The “Add measurement” page will be displayed.
3. **Select** the measurement you would like to add from the drop down menu.
4. **Click** “Add measurement”.



5. The measurement field will be displayed.
6. **Type** the values manually based on information provided to you from the patient.
7. **Click**  to delete the measurement if required.
8. **Repeat** steps 2-6 to add a measurement as needed.
9. **Click** “Save” when complete.



10. The measurement will now appear in the completed questionnaires section. **Click** on “Completed questionnaires” to view the added measurement(s).

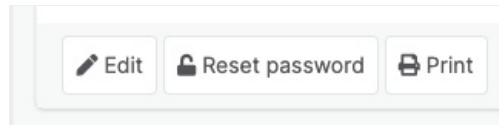


## Viewing and changing patient basic data

1. **Click**  Basic data in the patient menu.

- Compl. questionnaires
- Add measurements
- Basic data**
- Messages (61)

- The patient information will be display.
- Scroll to the bottom of the page.
- Click** "Edit".



- Enter** any new patient information as needed.

### Basic data for Nancy Ann Doe

**Basic data**

**Health care ID\***

**First name(s)\*** **Last name\***

**Sex\*** **Date of birth**


 

**Username\***

**Password\***

**Status\***

**Comment**

 **Contact information**

**Address\***

150 Tremont St

**Postal code\*** **City\***

MA 02111 Boston, Downtown

**Province**


**Phone** **Mobile phone**

60225721 +4560225721

**Email**

nancyann@mailme.dk

6. **Choose** the patient group(s) you would like to add.
7. **Enter** any relevant patient metadata.


 **Patient groups**

**Patient groups \***

× Hypertension

**Data-responsible**

-- Select Data-responsible --

 **Metadata**

Department of Cardiology

**Comorbidity**

Diabetes

8. **Update** any of the assigned contact persons in the *Circle of care* by adding new ones or changing existing ones.

Circle of care

First name(s)	Last name	Relation	Phone	Address	City	Note	Actions
John	Doe	Spouse	12345678	Street 1	Some city	A person	

Form fields:

First name(s)\*  Last name\*  Relation\*

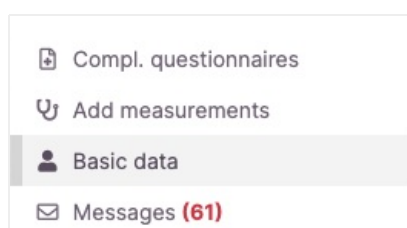
Phone\*  Address  City

Note

9. Click Save. The patient information will be update and you will be brought back to the basic data page.

## Edit/add patient thresholds

1. Click "Basic data" from the patient menu.



2. The patient information will be displayed.
3. **Scroll** to the bottom of the page.
4. Click "Edit".

Patient Thresholds

Measurement type	Threshold type	Unit	Red alarm (high)	Yellow alarm (high)	Yellow alarm (low)	Red alarm (low)	Aggregation
Blood sugar, after meal	Absolute	mmol/L	12	10	6	4	-
Temperature	Absolute	°C	38.5	37.5	-	-	-
Weight	Absolute	kg	90	85	70	65	-

Edit Reset password Print

5. **Scroll** to the bottom of the page and **click** "Add threshold" to create/add a threshold measurement.

Patient Thresholds

Measurement type	Threshold type	Unit	Red alarm (high)	Yellow alarm (high)	Yellow alarm (low)	Red alarm (low)	Aggregation	Actions
Blood sugar, after meal	Absolute	mmol/L	12	10	6	4	-	
Temperature	Absolute	°C	38.5	37.5	-	-	-	
Weight	Absolute	kg	90	85	70	65	-	

## Add threshold

1. **Select** the "Measurement type" for the new threshold.

**Add threshold for patient group: Hypertension**

**Measurement type\***

-Select measurement type-

No threshold selected

Create

2. **Select** the “Threshold type” for the new threshold. Depending on the selected measurement type there are up to four possibilities:

- Absolute
- Relative latest
- Relative period
- Lag

each of these will be described below.

**Add threshold for patient group: Hypertension**

**Measurement type\***

Blood pressure (mmHg)

**Threshold type\***

-Select threshold type-

Aggregation

Measurement type	Threshold type	Unit	Red alarm (high)	Yellow alarm (high)	Yellow alarm (low)	Red alarm (low)	Aggregation
Blood pressure, systolic	-						-
Blood pressure, diastolic	-						-

Create

### Absolute thresholds

An **absolute** threshold compares a new measurement value with a fixed set of value limits when determining its severity.

3. **Enter** the relevant limits of the thresholds:

- a. Red alarm (high): values greater than this trigger a red alarm.
- b. Yellow alarm (high): values greater than this trigger a yellow alarm.
- c. Yellow alarm (low): values lower than this trigger a yellow alarm.
- d. Red alarm (low): values lower than this trigger a red alarm.

**Add threshold for patient group: Hypertension**

**Measurement type\***  
 Blood pressure (mmHg) ▼

**Threshold type\***  
 Absolute ▼

Aggregation

Measurement type	Threshold type	Unit	Red alarm (high)	Yellow alarm (high)	Yellow alarm (low)	Red alarm (low)	Aggregation
Blood pressure, systolic	Absolute	mmHg	130 <b>a</b>	110 <b>b</b>	<b>c</b>	<b>d</b>	-
Blood pressure, diastolic	Absolute	mmHg					-

**Create**

In the above example, the threshold should be read as: if a patient submits a blood pressure measurement where the systolic value greater than 130 mmHg then trigger a red alarm, if it is less than 130 mmHg but greater than 110 mmHg then trigger a yellow alarm, and finally if it is lower than 110 mmHg then don't trigger any alarm.

4. **Press** "Create" to create the threshold for the patient.

### Relative latest threshold

A **relative latest** threshold compares a new measurement with the latest measurement received by looking at the change in value between the two measurements when determining its severity.

3. **Select** whether to define the threshold limits for the measurement value change as a percentage or an absolute value.
4. **Enter** the relevant limits of the threshold.
5. **Press** "Create" to create the threshold for the patient.

**Add threshold for patient group: Hypertension**

**Measurement type\***  
 Weight (kg) ▼

**Threshold type\***  
 Relative latest ▼

**Change in\***  
 Absolute value ▼

**i** The chosen threshold type is relative to the latest measurement value submitted by the patient. The threshold is expressed as the change in absolute value needed in order for the new measurement value to trigger a yellow or red alarm when compared to the previous measurement.

Aggregation

Measurement type	Threshold type	Unit	Red alarm (high)	Yellow alarm (high)	Yellow alarm (low)	Red alarm (low)	Aggregation
Weight	Relative latest	kg	2.5 <b>a</b>	1.5 <b>b</b>	<b>c</b>	<b>d</b>	-

**Create**

In the above example, the threshold should be read as: if a patient submits a weight measurement where the change in value compared to the previous measurement is greater than 2.5 kg then trigger a red

alarm, if it is less than 2.5 kg but greater than 1.5 kg then trigger a yellow alarm, and finally if it is lower than 1.5 kg don't trigger any alarm.

**Note:** Because the relative latest threshold calculates the severity based on a previously submitted measurement, the very first measurement submitted by the patient will always trigger an orange alarm, because the patient will have no prior measurements to compare it to. If an orange alarm is shown, the clinician will need to assess the patient measurement manually.

### Relative period thresholds

A **relative period** threshold compares a new measurement to the measurement received previously within a given time period that has the highest or lowest value, and then looks at the change in value between the two measurements when determining its severity.

3. **Select** whether to define the threshold limits for the measurement value change as a percentage or an absolute value.
4. **Select** whether to compare the measurement with the highest or lowest value received within the time period.
5. **Select** whether the time period should be the whole time the patient has been enrolled or a period of the last number of days. If the latter, then **enter** the number of days to look back in time.
6. **Enter** the relevant limits of the threshold.
7. **Press** "Create" to create the threshold for the patient.

**Add threshold for patient group: Hypertension**

Measurement type\*  
Weight (kg)

Threshold type\*  
Relative period

Change in\*  
Absolute value

Compared to\*  
Lowest measurement value

Received over a period of\*  
The last number of days

Days (between 1-365)  
5

*The chosen threshold type is relative to the lowest measurement value submitted by the patient within the last 5 days. The threshold is expressed as the change in absolute value needed in order for the new measurement value to trigger a yellow or red alarm when compared to the previous measurement.*

Aggregation

Measurement type	Threshold type	Unit	Red alarm (high)	Yellow alarm (high)	Yellow alarm (low)	Red alarm (low)	Aggregation
Weight	Relative lowest within 5 days	kg	2.5	1.5			-

Create

In the above example, the threshold should be read as: if a patient submits a weight measurement where the change in value compared to the lowest measurement received within the last 5 days is greater than 2.5 kg then trigger a red alarm, if it is less than 2.5 kg but greater than 1.5 kg then trigger a yellow alarm, and finally if it is lower than 1.5kg don't trigger any alarm.

**Note:** Because the relative period threshold calculates the severity based on a previously submitted measurement, the very first measurement submitted by the patient will always trigger an orange alarm,

because the patient will have no prior measurements to compare it to. If an orange alarm is shown, the clinician will need to assess the patient measurement manually.

### Aggregate thresholds

When adding a new patient threshold, of one of the above types, it is possible to make it *aggregate*. This means that a measurement value has to exceed the threshold for at least a certain percentage of the latest received measurements. For example, if an aggregate threshold is set to 40% of the last 5 measurements, it means that at least 2 of the latest 5 measurements, including the latest one, must exceed the threshold (be it absolute or relative).

If there are not enough previous measurements to evaluate an aggregate measurement, the measurement will trigger an orange alarm.

### Example

If we have an **absolute** weight threshold with a **Red alarm (high)** set to 100 kg with aggregation set to 40% of the latest 5 measurements we get the following set of severities:

Measurement sequence (kg)					Severity
95	95	98	99	101	OK
95	98	99	101	99	OK
98	99	101	99	102	RED ALARM
99	101	99	102	98	OK

### Adding aggregate thresholds

On the **Add threshold** page:

1. **Select** the “Measurement type” for the new threshold.
2. **Select** the “Threshold type” for the new threshold.
3. **Check** the “Aggregation” checkbox to enable aggregation.
4. **Enter** the percentage of the looked at measurements that need to exceed a limit, and the **enter** the number of measurements to look at.
5. **Enter** the relevant limits of the threshold.
6. **Press** “Create” to create the threshold for the patient.

**Add threshold for patient group: Hypertension**

**1** Measurement type\*  
Blood pressure (mmHg)

**2** Threshold type\*  
Absolute

**3** Aggregation

**4** 60 % of last 5 measurements

**5** With aggregation enabled, a warning or alarm is not triggered until at least a certain percentage of the last N measurements exceed the threshold, with these settings at least 3 measurements. This means that a very severe measurement may go unnoticed for days. To avoid this, it is recommended to use it along with an absolute threshold for safety.

Measurement type	Threshold type	Unit	Red alarm (high)	Yellow alarm (high)	Yellow alarm (low)	Red alarm (low)	Aggregation
Blood pressure, systolic	Absolute	mmHg	130	110			60% of last 5
Blood pressure, diastolic	Absolute	mmHg	120	100			60% of last 5

**6** Create

In the above example, the threshold should be read as a normal absolute threshold except that it now requires 3 (60%) of the 5 latest received measurements to exceed a limit before the measurement triggers a yellow or red alarm.

## Lag

In contrast to the previous threshold types that are used for calculating the severity of a measurement attached to a questionnaire or an external measurement. The **lag** threshold is used for calculating the severity of a stream of measurements being continuously submitted by a patient, e.g. in a *virtual ward* scenario where a patient has a measurement device attached to them that continuously monitor and submits their vitals. The **lag** threshold works by looking at all measurements received within the last number of minutes and then calculates whether the trend of the patient's severity is changing, thus minimizing any false alarms in the case where a patient has a very brief spike.

3. **Enter** the number of minutes back in time the threshold should compare measurements.
4. **Enter** the relevant limits of the thresholds:
  - a. Red alarm (high): values greater than this trigger a red alarm.
  - b. Yellow alarm (high): values greater than this trigger a yellow alarm.
  - c. Yellow alarm (low): values lower than this trigger a yellow alarm.
  - d. Red alarm (low): values lower than this trigger a red alarm.

**Add threshold for patient group: PPRM**

Measurement type\*  
Pulse (BPM) ▼

Threshold type\*  
Lag ▼

Minutes  
5

**3**

**i** The chosen threshold type only works for measurement data that is being continuously streamed from a device to the system. A lag between incoming measurements and the calculated severity is added such that the severity does not change immediately when a single measurement is submitted that is above/below a certain limit, but instead waits until all measurements within the last 5 minutes are above/below the limit

Measurement type	Threshold type	Unit	Red alarm (high)	Yellow alarm (high)	Yellow alarm (low)	Red alarm (low)	Aggregation
Pulse	Lag of 5 minutes	Beats per minute	100	90			-

**4**

**5**

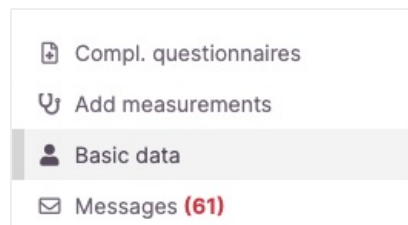
Create

In the above example, the threshold should be read as: if all pulse measurements submitted by the patient within the last 5 minutes have a value greater than 100 BPM then trigger a red alarm, if all pulse measurements submitted by the patient within the last 5 minutes have a value greater than 90 BPM then trigger a yellow alarm, etc.

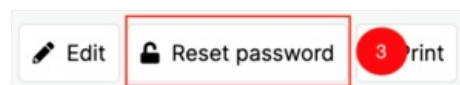
5. **Press** "Create" to create the threshold for the patient.

## Resetting a patient's password

1. **Click** "Basic data" from the patient menu.

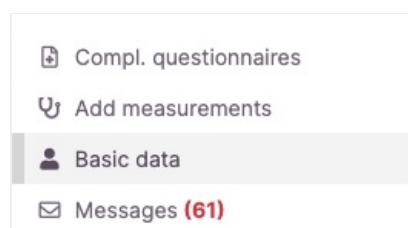


2. **Scroll** to the bottom of the page.
3. **Click** "Reset Code".

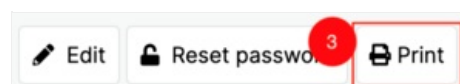


## Printing patient basic information

1. **Click** "Basic data" from the patient menu.



2. **Scroll** to the bottom of the page.
3. **Click** "Print".

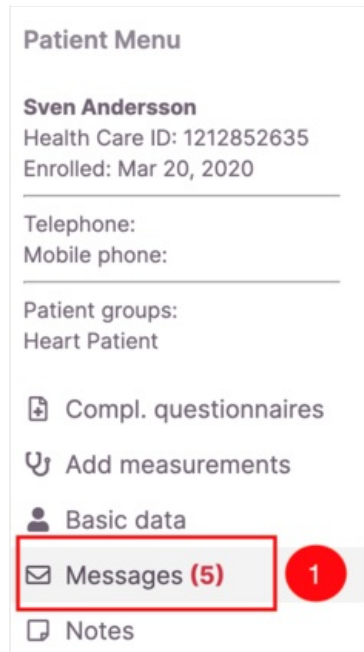


4. Click "OK" when the printer pop-up displays.

## Patient messages

To access patient messages, **click** "Messages" from the patient menu. If there are any unread messages *from* the patient, the number of unread messages will be shown in the menu item.

Alternatively, the messages feature can be accessed by clicking a message from the patient overview.



## Choosing an organization

Patient messages are grouped into conversations by organizations. If the selected patient and the current clinician are both in a multiple patient groups, belonging to two or more organizations, you have to choose which organization to talk to the patient on behalf of.

This is done either by choosing one when accessing the messaging page:

**There are multiple conversations with this patient, choose one**



Department Y

Department of Pulmonary Medicine

or by using the organization drop down at the top right corner of the messaging interface:

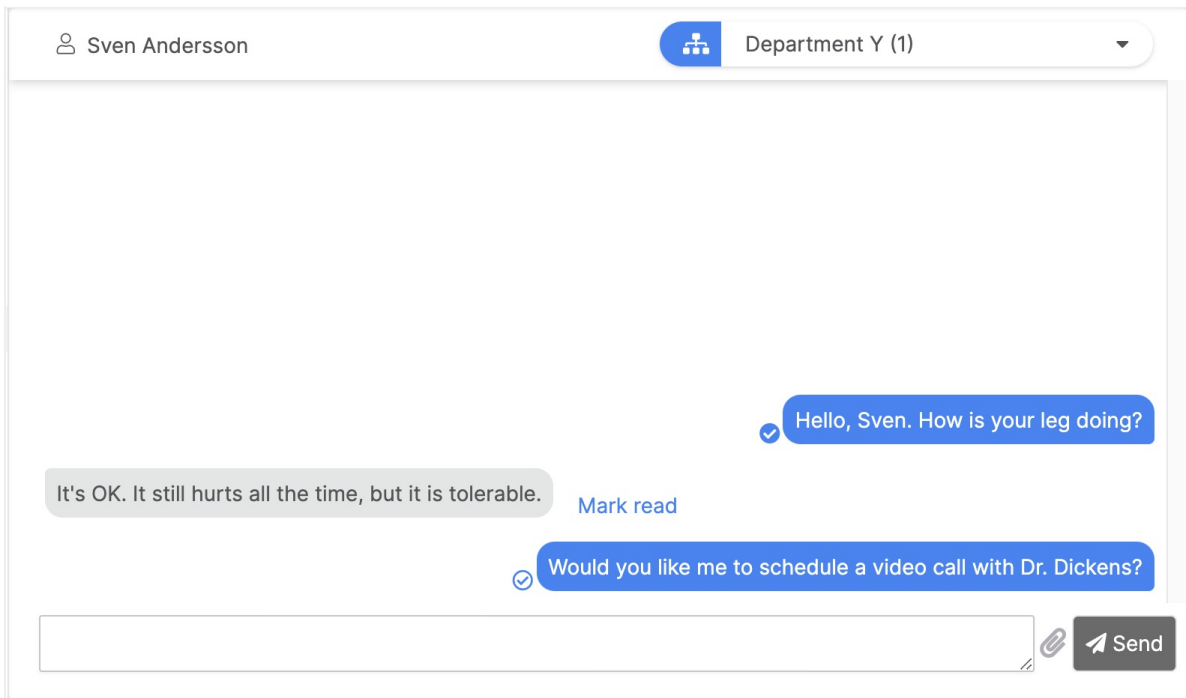


## The messages interface


The messages page for your patient contains:

- Most recent messages are displayed at the bottom of the page. **Scroll** up to view previous messages/history.
- Clinician messages are displayed on the right. Patient messages on the left.
- When hovering over a message bubble, the date/time and sender of the message will be shown.

- d. Unread messages from patients will have a “mark read” button next to them. **Click** “Mark read” to mark them as read.
- e. The small check mark icon next to sent messages indicates whether they have been seen by the patient. A thin, circled check mark indicates an unread message. A solid check mark indicates a read message.



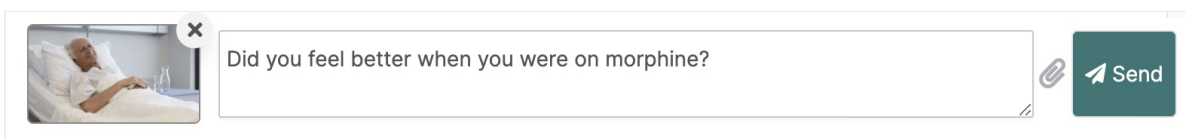
### Creating/sending a new message

Use the text field at the bottom of the screen to type a new message. Press **Enter** or click  to send the message.

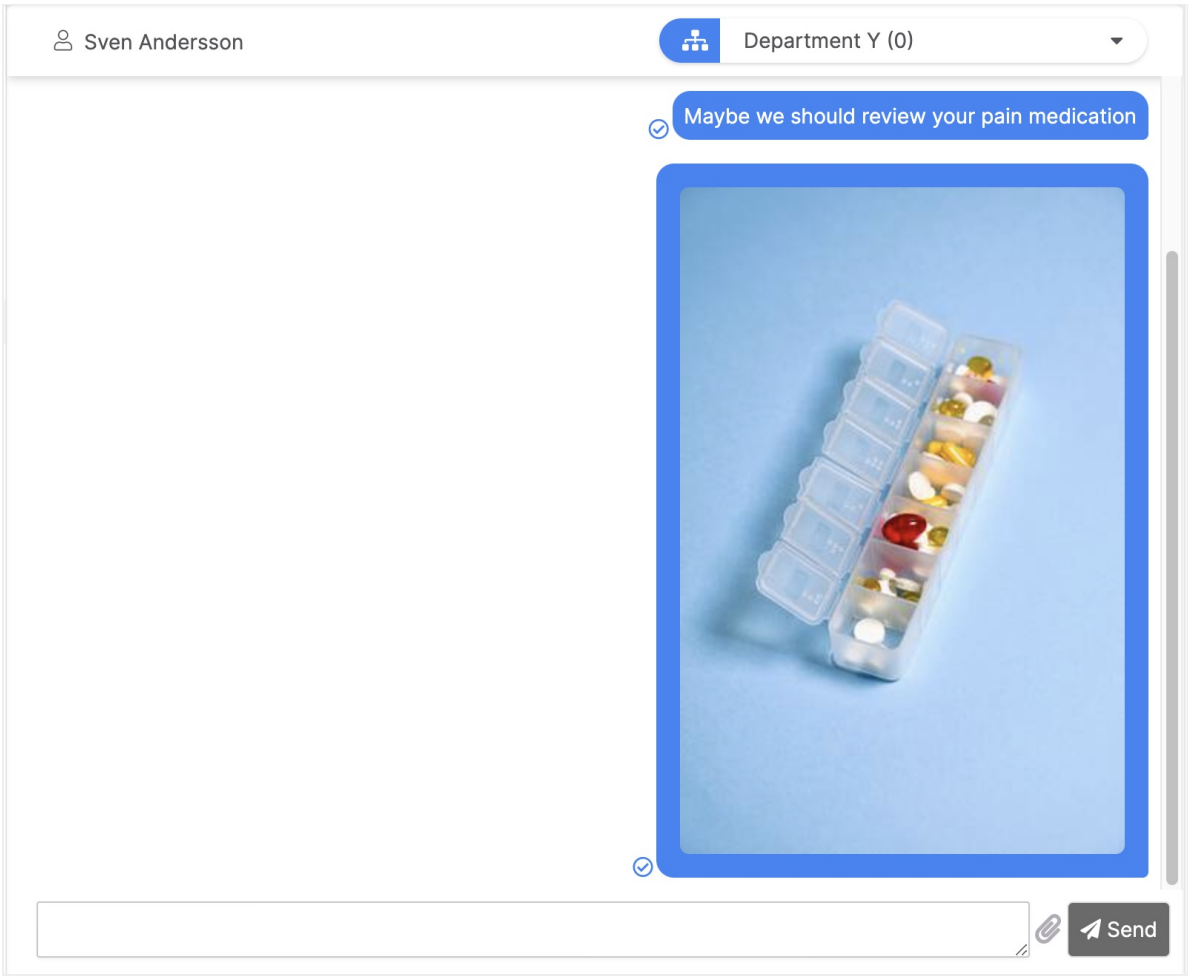
To enter a line break, press **Shift + Enter**.



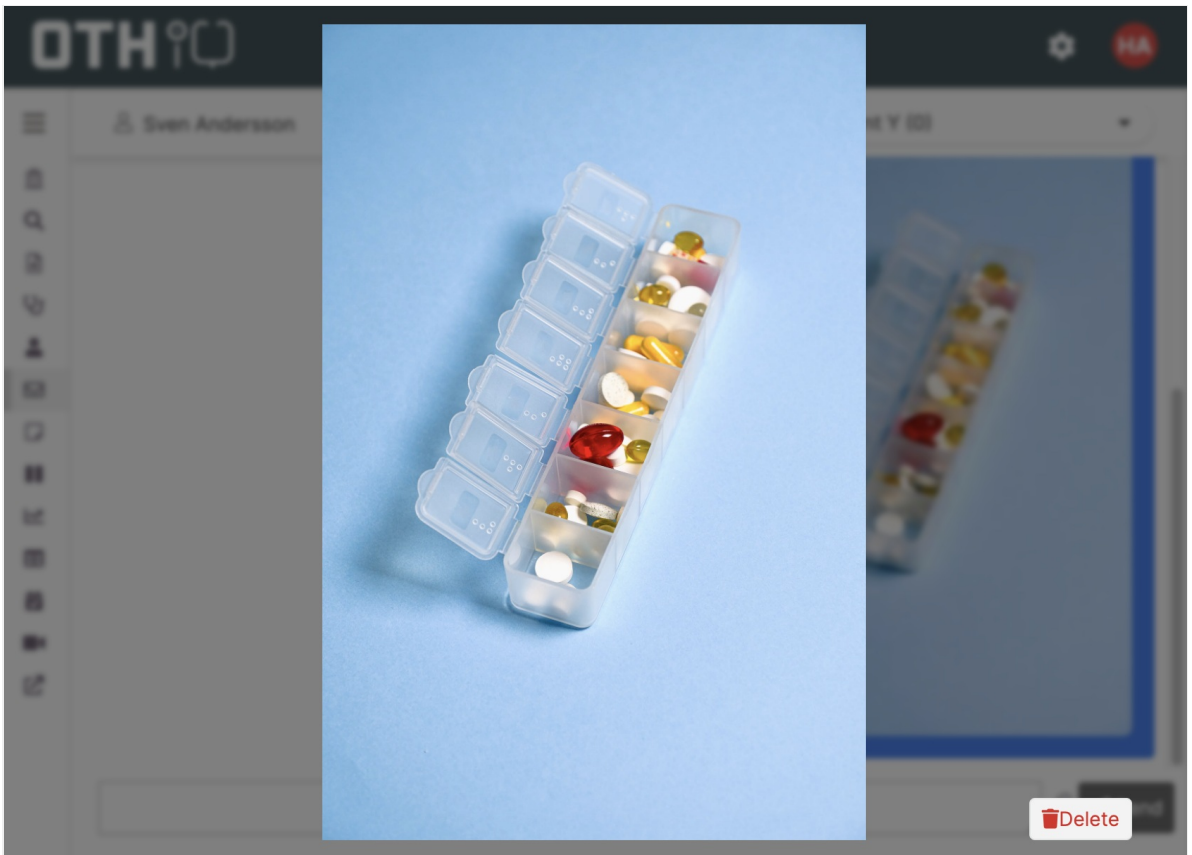
By clicking the paper clip icon, it is possible to attach images to a message. A preview of the image will be shown. Note that the image file will be attached as-is, so make sure that the resolution and/or file size is appropriate. The maximum file size is 8 MB.



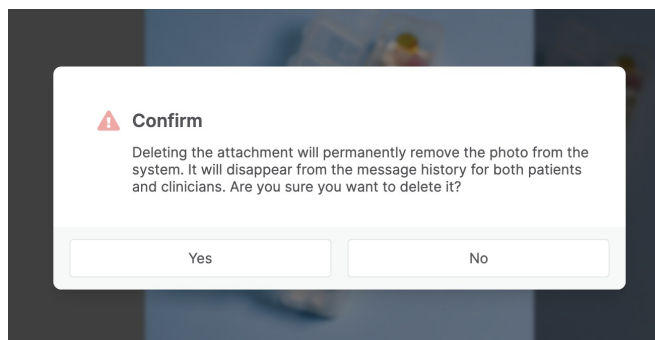
Images in sent messages will be shown as thumbnails in the conversation. Click to enlarge.



When enlarged, an option to delete the attachment appears.



Click "Yes" to confirm the deletion of the attachment. This will cause the image to be deleted entirely from the server.



Patients can delete their own attachments. Clinicians can delete attachments belonging to both patients and clinicians.

## Using the standard SMS message functionality

It is possible to define a set of standard SMS messages under the Administration menu: "Standard Text Messages".

The predefined messages can then be sent to individual patients using the patient menu: "Text messages" and "Patient group messages".

A light gray panel titled "Send standard text message". It contains a "Message" dropdown menu with "Questionnaire" selected. Below the dropdown, the text "Message Text We are missing questionnaire replies. Please check OTH app." is displayed. At the bottom left, there is a "Send" button with a paper plane icon.

**Notice:** There is no guarantee that SMS text messages will be received by the patient and the confidentiality of SMS messages is also not to be guaranteed. Therefore critical or sensitive information must not be sent via the SMS message functionality.

## Viewing, creating and marking notes as read

### General notes

1. **Click** "Notes" from the patient menu.

A vertical "Patient Menu" for Nancy Ann Doe. It displays her name, Health Care ID (17079421073), and enrollment date (Mar 20, 2020). Below this, it lists her telephone and mobile phone numbers. It also shows her patient group as "Heart Patient" and her 1st in Circle of Care as "John Doe (Spouse) (Tlf. 12345678)". At the bottom, there are several menu items: "Compl. questionnaires", "Add measurements", "Basic data", "Messages (49)", "Text messages", and "Notes". The "Notes" item is highlighted with a red box and has a red circle with the number "1" next to it.

2. The notes for your patient will display. Each row displays:
  - a. **Patient Note.** This displays the note documented for patient.
  - b. **Type.** This will be displayed as normal or important.
  - c. **Reminder date.** A date will display if a reminder has been set to perform an item requested in the note.
  - d. **Seen by me?** This will be displayed as yes or no.
  - e. **Seen by another user?** This will be displayed as yes or no.
3. The notes in your display view can be sorted by each column title based on your preference. Simply click the title you would like to sort by. Text fields will be sorted by A-Z, dates by most recent. You can also sort/move rows by clicking the arrows up/down.

Note	Type	Reminder Date	Seen by me?	Seen by any user?
Keep this note in mind	Important	9/30/20 1:01 AM		
An important note	Important	9/25/20 11:30 AM		
A note about Nancy	Important		yes	yes

+ Create

### Viewing notes and marking notes as read

1. **Click** the note you would like to view from the notes page.
2. The note will display along with type, the date of when the note was created, last edited and who it was created by. Notes cannot be edited once they have been acknowledged by a user.
3. **Click** “Mark As Read” to mark the note read.

**Note for Nancy Ann Doe**

Notes once acknowledged by a user cannot be edited

Note: Keep this note in mind

Type: Important

Created Date: 9/25/20 1:08 PM

Last edited: 9/25/20 1:08 PM

Created by: HelenAnderson

Reminder Date: 9/30/20 1:01 AM

Edit Delete Mark as read

4. The last edited time will be updated to the date/time “Mark As Read” was clicked.

## Note for Nancy Ann Doe

 Notes once acknowledged by a user cannot be edited

**Note** Keep this note in mind  
**Type** Important  
**Created Date** 9/25/20 1:08 PM  
**Last edited** 9/25/20 1:08 PM **4**  
**Created by** HelenAnderson  
**Reminder Date** 9/30/20 1:01 AM

 Edit  Delete  Mark as read


5. Click on Notes from the patient menu to return to the notes page. You will notice “Seen by me?” now displays “yes”.

Note	Type	Reminder Date	Seen by me?	Seen by any user?
Keep this note in mind	Important	9/30/20 1:01 AM	Yes	Yes
An important note	Important	9/25/20 11:30 AM	Yes	Yes

## Creating a new note

1. Click “Create” from the notes page.

Note	Type	Reminder Date	Seen by me?	Seen by any user?
Keep this note in mind	Important	9/30/20 1:01 AM	Yes	Yes
An important note	Important	9/25/20 11:30 AM	Yes	Yes
A note about Nancy	Important		Yes	Yes

 Create **1**

2. The “Create Patient Note” page will display.
3. **Enter** your patient note.
4. **Select** the type (normal or important) from the drop down menu.
5. **Set** the reminder date and time as needed.
6. **Click** “Create”.

### Create Patient Note

Note \*

Note text goes here...

Type \*

Normal

Reminder Date

5/14/2021 at 11 : 00 AM

Create

- The new patient note will display. Click "Edit" to edit note, "Delete" to delete note, and/or "Mark As Read" to mark your note as read.

### Note for Nancy Ann Doe

ⓘ Patient note created

Note	Note text goes here...
Type	Normal
Created Date	5/4/21 3:22 PM
Last edited	5/4/21 3:22 PM
Created by	HelenAnderson
Reminder Date	5/14/21 11:00 AM

Edit Delete Mark as read

## Documenting patient vacations/placing a hold on their monitoring schedule

To mark patient vacations or when a patient is away, use the passive interval page in the patient menu. Though patient is marked on vacation in the system, they can still perform scheduled questionnaires as needed. The nurse will advise on the patient monitoring plan which questionnaire to perform on vacation.

- Click "Passive intervals" from the patient menu.

**Patient Menu**

**Nancy Ann Doe**  
 Health Care ID: 17079421073  
 Enrolled: Mar 20, 2020








---

Telephone:  
 Mobile phone: (456)-022-5721

---

Patient groups:  
 Heart Patient

1st in Circle of Care:  
 John Doe (Spouse) (Tlf. 12345678)

-  Compl. questionnaires
-  Add measurements
-  Basic data
-  Messages **(49)**
-  Text messages
-  Notes
-  **Passive intervals** 1



2. The Passive intervals pages will display with all past vacations and/or absence periods documented.
3. **Click** “Create”.

**Passive Intervals for Nancy Ann Doe**


First passive day ^	First day after pause ⇅	Comment ⇅
4/21/20	4/23/20	Comment goes here...
5/5/21	5/12/21	Vacation for a week and unable to complete questionnaires.


2

3 + Create


4. **Click**  icon and select the “First passive date” from the calendar. The “First passive date” is the date the patient will be away on vacation and/or unable to complete the questionnaire.
5. **Click**  icon and select the “First day after pause” from the calendar. The “First day after pause” is the date the patient will be able available to complete the questionnaire again.
6. **Enter** comment as required.
7. **Click** “Create”.

### Create passive interval for patient

First passive day \*   **4**


First day after pause \*   **5**

Comment  **6**



 Create **7**

- The following page will display. **Click** "Edit" if you need to edit the interval or **Click** "Delete" to delete.

### Passive Interval

 Passive Interval created

First passive day	5/5/21
First day after pause	5/12/21
Comment	Vacation for a week and unable to complete questionnaires.

 Edit  Delete **8**

## Viewing graphs

- Click** "Graphs" from the patient menu.

**Patient Menu**

**Lisa Jensen**  
 Health Care ID: 2512688916  
 Enrolled: Mar 20, 2020

---

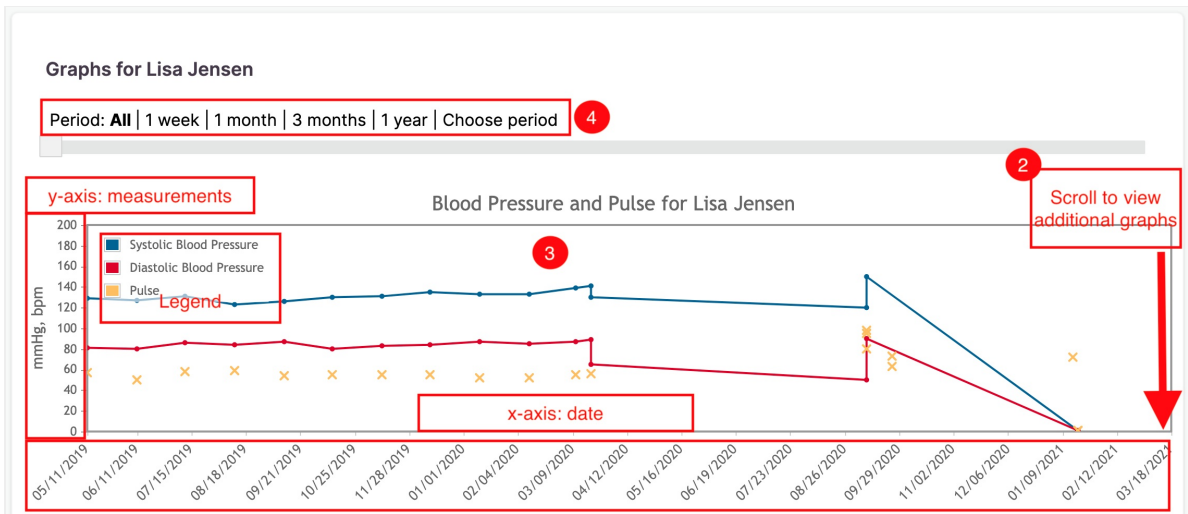
Telephone:  
 Mobile phone: (453)-070-1155

---

Patient groups:  
 Obstructive Lung Disease Clinic

- Compl. questionnaires
- Add measurements
- Basic data
- Messages (1)
- Text messages
- Notes
- Passive intervals
- Graphs** 1

2. The graphs for each patient measurement will display. **Scroll** to view each graph.
3. Each graph will display the date on the x-axis, the measurement on the y-axis, graph title, legend and data.
4. To change the date selection and amount of data on the graph, **Click** the preferred period you would like to view on the top navigation menu or **Click** “Choose period” to select your own.



## Viewing patient results

1. **Click** “Measurements” from the patient menu.

**Patient Menu**










**Nancy Ann Doe**  
 Health Care ID: 2512484916 3456  
 Enrolled: Jun 10, 2020

---

Telephone:  
 Mobile phone: (453)-070-1155

---

Patient groups:  
 Heart Patient

-  Compl. questionnaires
-  Add measurements
-  Basic data
-  Messages
-  Text messages
-  Notes
-  Passive intervals
-  Graphs
-  **Measurements** 1


2. The patient measurements will display. **Scroll** down to view all measurements.
3. Each row will indicate the date/time the measurement was taken, the value, and unit of measure. You will notice the values will also be flagged yellow or red based on the set of thresholds for the measurement type.
4. To change the date selection and amount of measurement data displayed, **Click** the preferred period you would like to view on the top navigation menu or **Click** “Choose period” to select your own.
5. Thresholds colors will be displayed if measurement values have exceeded their thresholds.

**All Measurements for Nancy Ann Doe**

Period: **All** · 1 week · 1 month · 3 months · 1 year · Choose period 4

**Measurement Overview for Nancy Ann Doe**

**Blood Pressure**

Time	Value	Unit	Comment
6/10/20 9:43 AM 	130/65	mmHG	
6/2/20 12:00 AM	133/88	mmHG	
5/2/20 12:00 AM	130/89	mmHG	
4/2/20 12:00 AM	134/87	mmHG	Measurement comment goes here...
3/2/20 12:00 AM	134/81	mmHG	
2/2/20 12:00 AM	126/82	mmHG	
1/2/20 12:00 AM	131/86	mmHG	
12/2/19 12:00 AM	128/82	mmHG	
11/2/19 12:00 AM	123/82	mmHG	
10/2/19 12:00 AM	123/88	mmHG	
9/2/19 12:00 AM	127/84	mmHG	
8/2/19 12:00 AM	121/83	mmHG	

**Editing a patient’s monitoring plan and adding/removing a questionnaire**

1. **Click** “Monitoring plan” from the patient menu.

**Patient Menu**











**Nancy Ann Doe**  
 Health Care ID: 55663322787  
 Enrolled: Apr 20, 2021

---

Telephone:  
 Mobile phone: 40769901

---

Patient groups:  
 Heart Patient


-  Compl. questionnaires
-  Add measurements
-  Basic data
-  Messages
-  Text messages
-  Notes
-  Passive intervals
-  Graphs
-  Measurements
-  **Monitoring plan** 1






2. The monitoring plan for your patient will display.
3. From the page you can complete the following (see instructions by referring the highlighted sections found below):
  - a. **Edit the start date for the patient to complete questionnaires.**
  - b. **View, edit, and delete assigned questionnaires.**
  - c. **Assign questionnaire.**
  - d. **Edit assigned questionnaire groups.**


**Monitoring Plan for Nancy Ann Doe**


Only show on answering day

Start date 4/20/21

 A

<b>Questionnaires</b> <span style="border: 1px solid red; border-radius: 50%; padding: 2px 5px; color: white; font-weight: bold;">B</span>				
Scheduling	Questionnaire	Questionnaire Status	Assigned via	Action
Unscheduled	Activity tracker	■	Patient group	
Unscheduled	Blood pressure and pulse	■	Monitoring plan	<div style="border: 1px solid red; padding: 2px;"> </div>
4:35 PM Jun 24, 2020	Oxygen saturation	■	Patient group	
4:35 PM Jun 24, 2020	Pain	■	Questionnaire group	

 **Assign questionnaire** C

 **Assign/remove questionnaire groups** D

**Edit/Delete**


**Edit start date for patient to complete questionnaires**


1. **Click** “Edit” from the Monitoring plan page.

**Monitoring Plan for Nancy Ann Doe**


Only show on answering day

Start date 4/20/21


 Edit 1

2. Click  and **select** the new date from the calendar.
3. Click "Update".

**Edit Monitoring Plan for Nancy Ann Doe**

Start date \*  
  2

Only show on answering day \*

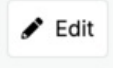
 Update 3

4. If you want the patient to only be able to answer this questionnaire on the day of the scheduled deadline, mark this field.
5. You will be brought back to the monitoring plan page. Notice the monitoring plan start date has been updated.

**Monitoring Plan for Nancy Ann Doe**

Only show on answering day  4

Start date 4/20/21 5

 Edit


### Edit monitoring plan/schedule

1. Click .

**Monitoring Plan for Nancy Ann Doe**






Only show on answering day



Start date 4/20/21

 Edit

"Assigned via" indicates how a questionnaire has been assigned to the patient:

- Patient group: Patient group linked to a questionnaire group containing the questionnaire
- Monitoring plan: Directly assigned via the "Assign questionnaire" button
- Questionnaire group: Assigned via the "Assign/remove questionnaire groups" button


Scheduling	Questionnaire	Questionnaire Status	Assigned via	Action
Unscheduled	Activity tracker	■	Patient group	
Unscheduled	Blood pressure and pulse	■	Monitoring plan	<span style="border: 1px solid red; border-radius: 50%; padding: 2px 5px;">1</span>  
4:35 PM Jun 24, 2020	Oxygen saturation	■	Patient group	
4:35 PM Jun 24, 2020	Pain	■	Questionnaire group	

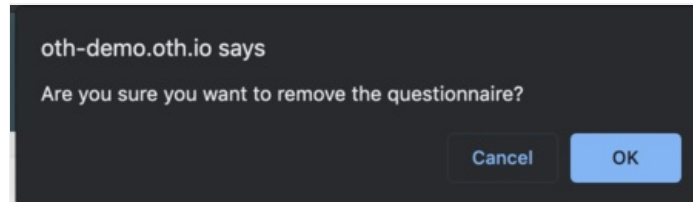
 Assign questionnaire  Assign/remove questionnaire groups

2. The patient's monitoring plan/schedule will display.

3. **Update** the information you would like to update on the monitoring plan.
4. **Click** "Update".
5. You will be brought back to the Monitoring plan page and the information will be updated.

## Delete monitoring plan/schedule

1. **Click**  to delete the monitoring plan.
2. The following pop-up will display.
3. **Click** "OK" to delete.
4. **Click** "Cancel" to exit the page if you have decided not to delete the monitoring plan.



## Assigning questionnaire

1. **Click** "Assign Questionnaire" from the Monitoring plan page.

Scheduling	Questionnaire	Questionnaire Status	Assigned via	Action
Unscheduled	Activity tracker	■	Patient group	
Unscheduled	Blood pressure and pulse	■	Monitoring plan	
4:35 PM Jun 24, 2020	Oxygen saturation	■	Patient group	
4:35 PM Jun 24, 2020	Pain	■	Questionnaire group	

2. **Select** the questionnaire for the patient by **clicking** on the drop down menu.
3. **Select** the frequency/schedule for completing the questionnaire.
4. Once frequency is selected, additional options will appear on the screen below.
5. **Complete** the information in the field as shown.

## 6. Click "Assign"

### Assign Questionnaire Schedule

Questionnaire \* 2

COPD questionnaire

Scheduling:

Unscheduled

Weekdays - several daily measurements

Weekdays - one daily measurement 3

Date(s) of the Month

Every nth day

Specific date

Weekdays - one daily measurement 4 5

Deadline at 11 : 59 PM

Reminder at 10 : 00 AM

Schedule window 20 hours

Length of 1st period 4 weeks

1st period	2nd period
<input type="checkbox"/> All/no days	<input type="checkbox"/> All/no days
<input checked="" type="checkbox"/> Monday	<input type="checkbox"/> Monday
<input type="checkbox"/> Tuesday	<input type="checkbox"/> Tuesday
<input checked="" type="checkbox"/> Wednesday	<input checked="" type="checkbox"/> Wednesday
<input type="checkbox"/> Thursday	<input type="checkbox"/> Thursday
<input checked="" type="checkbox"/> Friday	<input type="checkbox"/> Friday
<input type="checkbox"/> Saturday	<input type="checkbox"/> Saturday
<input type="checkbox"/> Sunday	<input type="checkbox"/> Sunday

Weekdays

6

### Explanation of the different schedule above:

- **Unscheduled:** The questionnaire can be completed at any time and as many times as you wish.
- **Weekdays - several daily measurements:** The questionnaire can be completed on specific days of the week and it is possible to make several measurements per day.
- **Weekdays - one daily measurement:** The questionnaire can be completed on specific days of the week with a single measurement per day.
- **Date(s) of the Mouth:** The questionnaire can be completed on specific dates of the month, e.g. the 1st and 15th of the month.
- **Every nth day:** The questionnaire can be completed on every nth day, e.g. a measurement every 3 days.
- **Specific date:** The questionnaire can be completed on a specific date.
- **Deadline at:** Questionnaire should be completed at the specified time of day. If a measurement frequency is selected with several measurements per day, multiple measurement times can be specified by clicking on the '+' button.
- **Reminder at:** Reminder sent a specified number of minutes before the deadline for the questionnaire.
- **Schedule window:** Used to indicate how long before a deadline a sent in questionnaire result is registered as being the result of a questionnaire. This is used to indicate a period in which a delayed questionnaire result is not counted as an in-time result for the next questionnaire deadline.
- **Weekdays:** First, select which weeks the first measurement frequency should be, e.g. 2 weeks. Next, choose which days of the week the patient should answer the questionnaire in the first period e.g. Monday, Wednesday and Friday. Then, which weekdays in the second period, e.g. Monday and

Friday, for which the patient should answer the questionnaire. The second measurement period is valid as long as this questionnaire is valid for this patient.

## Edit assigned questionnaire groups

1. **Click** “Edit Questionnaire Groups” from the Monitoring plan page.

Monitoring Plan for Lisa Jensen

Only show on answering

day

Start date 4/27/21

[Edit](#)

### Questionnaires

Scheduling	Questionnaire	Questionnaire Status	Assigned via	Action
1:00 PM mon, wed, fri	Blood pressure and pulse	■	Monitoring plan	<a href="#">Edit</a> <a href="#">Delete</a>
12:00 PM mon, tue, wed, thu, fri, sat, sun	Blood sugar levels	■	Monitoring plan	<a href="#">Edit</a> <a href="#">Delete</a>
Unscheduled	COPD questionnaire	■	Monitoring plan	<a href="#">Edit</a> <a href="#">Delete</a>
Unscheduled	Lung function	■	Monitoring plan	<a href="#">Edit</a> <a href="#">Delete</a>
7:00 AM mon, tue, wed, thu, fri, sat, sun	Weight	■	Monitoring plan	<a href="#">Edit</a> <a href="#">Delete</a>

[+ Assign questionnaire](#) [Assign/remove questionnaire groups](#)

2. The ‘Assign/remove questionnaire groups’ page will display showing the questionnaire groups the patient is already assigned.

### Assign/remove questionnaire groups for Lisa Jensen

Add questionnaire group

Lung group

#### Assigned questionnaire groups

Questionnaire group	Time	Questionnaire	Status	Action
Hypertension group	Unscheduled	Blood pressure and pulse	■	<a href="#">Delete</a>

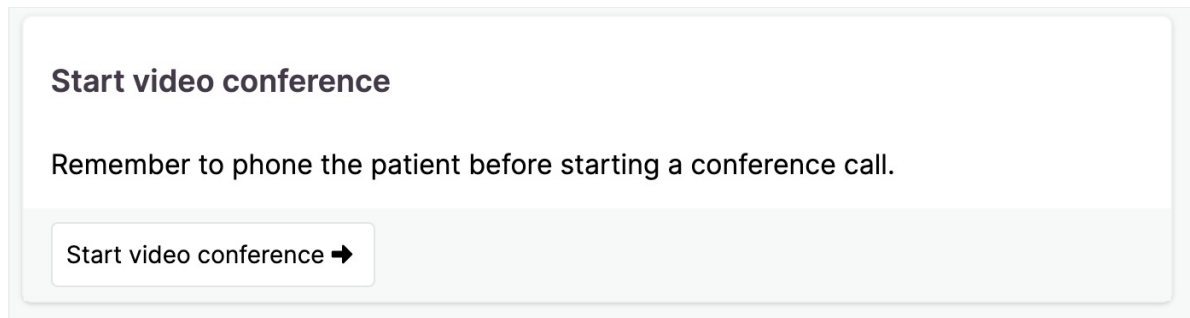
3. **Select** a “Questionnaire group” in the drop down menu, which will show the questionnaires of the group in the table below. **Click** the “+ Add” button to add the questionnaire group to the monitoring plan.
4. Added questionnaire groups are shown here along with the names of the questionnaires in each group.
5. **Click** “Update”.
6. The Monitoring plan will be updated with the new list of assigned questionnaire groups.

## Conducting a video conference

In order to conduct a video conference:


1. **Click** on the  button in the patient menu.
2. **Click** on the **Start Video Conference** button to start a video conference with the patient. **Note:** when starting the video conference, the browser will open the VidyoConnector desktop app on your

computer and pop up an incoming call on the patient's mobile or tablet.



3. Once the video conference is over you can click the **Leave video conference** to close the video conference on the patient's phone/tablet. **Note:** remember to also close the video conference in the VidyoConnector desktop app after clicking **Leave video conference**.

### **Downloading summary of recent patient data**

1. **Click** on the  Work log patient menu item
2. **Enter** a title of the work log summary
3. **Select** the date range from which to fetch measurements and messages
4. **Click** "Retrieve Work Log"
5. The text area now contains summary data of the most recent measurements and messages for the patient
6. **Click** "Select text" to copy the content of the text area to your clipboard so it can be entered into another system.

## Work log

Title \*

April report

From \*

5/5/2021

To \*

5/5/2021

Retrieve work log

=====  
Title: April report  
Patient: Nancy Ann Doe  
Start date: 4/1/21 12:00 AM  
End date: 5/5/21 11:59 PM  
=====

----- Measurements taken during video conversation -----

Blood pressure  
4/27/21 8:57 AM, 130/65 mmHG

----- Measurements entered by clinician -----

No measurements found in the chosen time interval.

----- Measurements taken during questionnaire -----

Blood pressure and pulse  
4/19/21 12:00 AM, Blood pressure / Pulse (Blood pressure), 59 BPM, 130/81 mmHG

Blood sugar levels  
4/18/21 2:00 AM, Blood sugar levels (Blood sugar), 7.2 mmol/L  
4/17/21 2:00 AM, Blood sugar levels (Blood sugar), 7.4 mmol/L

Copy to clipboard →

# Virtual Ward dashboard

The Virtual Ward dashboard provides a live overview of patient vitals, such as pulse, saturation, respiratory rate, blood pressure and temperature. For these measurement types, it is possible to submit measurements either continuously or as discrete measurements with relevant intervals (daily, hourly etc.), and the dashboard automatically updates with the newest value.

Measurement streams also supports having alarms generated based on thresholds, which show up and can be acknowledged in the Virtual Ward dashboard.


For continuously submitted measurements, the “lag” threshold type can be used to generate alarms from these measurements.

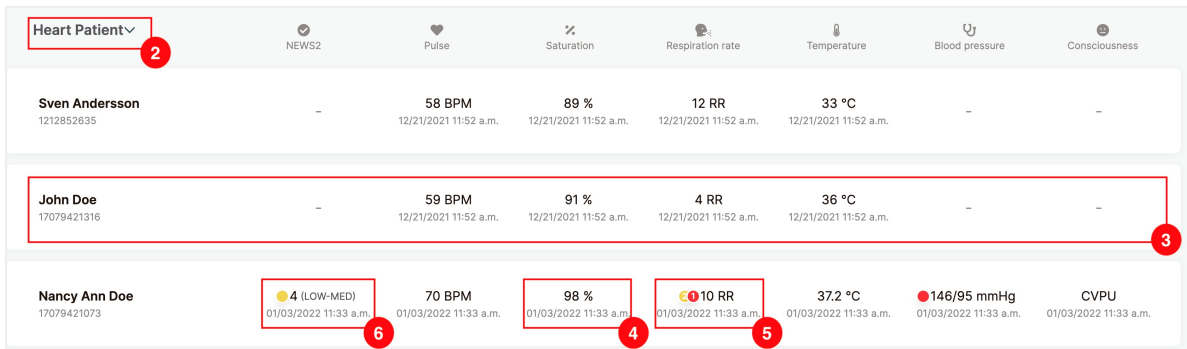
For discrete measurements, all normal threshold types for that measurement type can be used to generate alarms (absolute, relative etc.).

## Warning

This feature is not intended for use with critical illnesses. It shall not be used in situations where system availability and responsiveness may limit timely intervention, putting the patients in danger.

## Viewing patient vitals in the Virtual Ward Dashboard

1. **Click** on the  Virtual Ward patient menu item
2. **Click** on the patient group name to change patient group.
3. Each patient row contains the patient’s name and healthcare ID, as well as a number of readings
4. Each reading contains the latest value and unit and the time it was submitted
5. If there are any alarms for the given measurement type, circular badges are shown next to the value indicating the severity and number of alarms
6. The calculated NEWS2 value, if enabled. See below for a description on how NEWS2 is calculated.



Heart Patient	NEWS2	Pulse	Saturation	Respiration rate	Temperature	Blood pressure	Consciousness
<b>Sven Andersson</b> 1212852635	-	58 BPM 12/21/2021 11:52 a.m.	89 % 12/21/2021 11:52 a.m.	12 RR 12/21/2021 11:52 a.m.	33 °C 12/21/2021 11:52 a.m.	-	-
<b>John Doe</b> 17079421316	-	59 BPM 12/21/2021 11:52 a.m.	91 % 12/21/2021 11:52 a.m.	4 RR 12/21/2021 11:52 a.m.	36 °C 12/21/2021 11:52 a.m.	-	-
<b>Nancy Ann Doe</b> 17079421073	4 (LOW-MED) 01/03/2022 11:33 a.m.	70 BPM 01/03/2022 11:33 a.m.	98 % 01/03/2022 11:33 a.m.	10 RR 01/03/2022 11:33 a.m.	37.2 °C 01/03/2022 11:33 a.m.	146/95 mmHg 01/03/2022 11:33 a.m.	CVPU 01/03/2022 11:33 a.m.

## Calculating NEWS2

An updated NEWS2 is calculated based on the following criteria:

1. Within the last 15 minutes a new measurement value for all of the following types must have been received:
  - Respiratory rate
  - Saturation
  - Pulse
  - Blood pressure
  - Temperature
  - Consciousness indication

- If both continuous and discrete measurements of a certain type are received within the last 15 minutes, the newest received discrete measurement will be used for that type, else the newest received measurement will be used.
- In the patient basic data for all patients, where NEWS2 should be calculated, the following custom basic data must be configured and set:
  - Oxygen (  - does the patient receive supplementary oxygen)
  - SpO2 Scale 2 (  - does the patient suffer from hypercapnic respiratory failure, usually due to COPD)
- The NEWS2 calculation is triggered only when discrete measurements are submitted and thus not when continuous measurements are submitted. This is due to an expectation that continuous measurements will flow into the system on a regular basis and when the discrete measurements are submitted, the needed continuous measurements for the NEWS2 calculation will already exist within the 15 minute window.

Until the above criteria are met, the current NEWS2 value, if present, will remain the newest one.

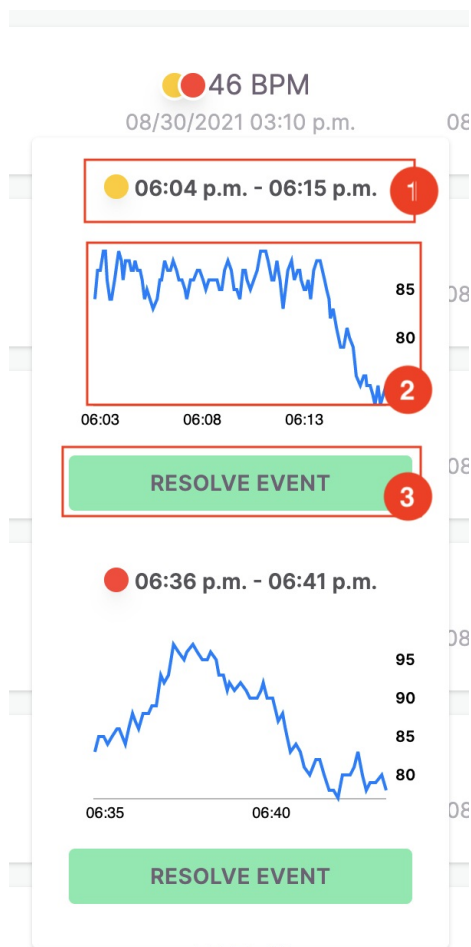
The NEWS2 value is calculated according to the specification found here:

[NEWS2 - The National Early Warning Score](#)

## Reviewing and acknowledging incidents

When hovering over a reading with alerts, a list of incidents is shown.

- For each incident, the start and possibly end time is indicated, as well as the severity
- A small graph is displayed, indicating the measurement value in the corresponding time span. Clicking the mini graph will navigate to the details page for that patient.
- Clicking the “Resolve event button” will show the acknowledgement form.



- In the acknowledgement form, one or more predefined closure notes can be added (Ctrl-click or Cmd-click to select more)
- An optional acknowledgement note can be added

6. The incident is acknowledged by clicking the “save” button.

Add note? ×

Hospital admission avoidance  
Emergency antibiotics administ  
Visited by clinician  
Hospital admission


Optional note

SAVE

*(Red circles with numbers 4, 5, and 6 highlight the list of notes, the optional note field, and the save button respectively.)*

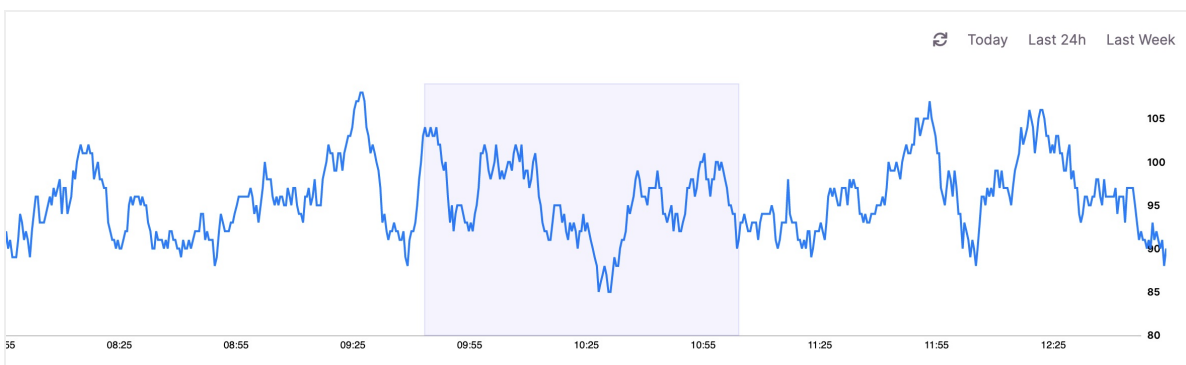
## Patient details

In the Virtual Ward details view for a patient, graphs are shown for each measurement type.

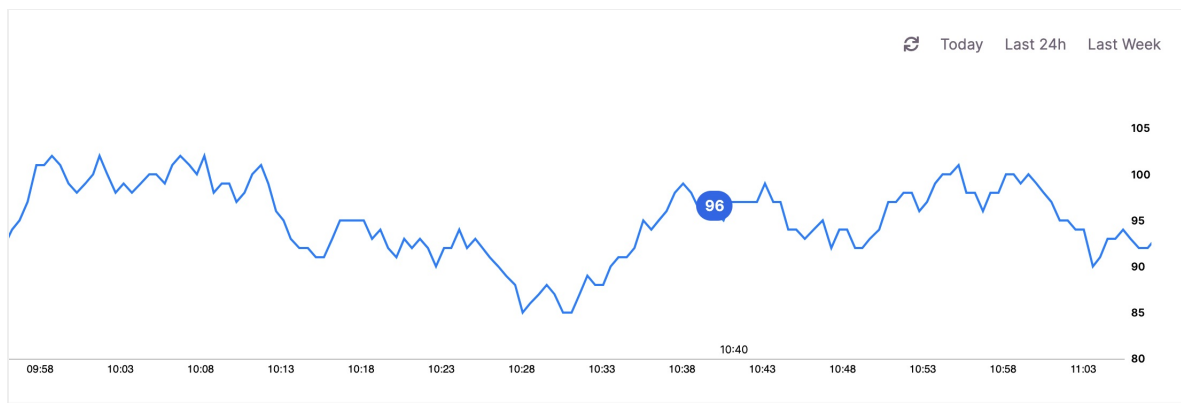
1. The header row contains the same information as on the dashboard (updated live)
2. For each measurement type, a graph of the latest values is shown
  - Discrete measurement series are shown as ‘x’ points (e.g. the blood pressure series in the screenshot)
  - Continuous measurement series are shown as a polyline (e.g. the temperature series in the screenshot)
3. When hovering over a graph, a row of buttons is shown. The  button refreshes the graph with the newest data.
4. The time filter buttons choose which data to plot. By default, today’s data are shown (from midnight to midnight). Other options include “Last 24 hours” and “Last week”.



5. By clicking and dragging in the graph area, it is possible to zoom in (affects all graphs so they stay aligned).



6. When hovering in the graph area, the corresponding measurement value and timestamp is shown.



## Reviewing past incidents

From the patient details view in the Virtual Ward, hovering over the **⋮** symbol and choosing **Incidents** will navigate to a list of all incidents for the given patient, acknowledged as well as unacknowledged.

Virtual Ward incidents for Nancy Ann Doe Last Week Refresh 6

- 1** Pulse 11:06 a.m. Ongoing 5 2 RESOLVE EVENT 4
- 3** Pulse 09:30 a.m. 2 hours Turned out he was working out Visited by clinician Resolved 11:45 a.m. Helen Anderson
- Pulse 08:14 a.m. 74 minutes RESOLVE EVENT
- Pulse Thursday 02:48 p.m. 17 hours RESOLVE EVENT

For each incident is shown:

1. The measurement type, start time and duration
2. The severities of the individual alerts (hover to see timestamp)
3. Acknowledgement and closure notes for acknowledged incidents
4. The “resolve event” button for acknowledging unacknowledged incidents

Additionally,

5. It is possible to filter incidents by time period
6. The list can be refreshed by clicking the Refresh button

When clicking the “Resolve event” button, an acknowledgement form pops up, similar to the one on the dashboard and details page.

Add note? ×

Hospital admission avoidance  
Emergency antibiotics administered, emergency steroids  
Visited by clinician  
Hospital admission

Optional note

**SAVE**

Select a number of closure notes and optionally enter an acknowledgement note. Acknowledge by clicking  .

# CTG measurements

**Please note:** The CTG functionality is an optional add-on to the OTH system. If you cannot find the functionality on your OTH installation please contact your local administrator or [tech-support@opentelehealth.com](mailto:tech-support@opentelehealth.com). Also be aware that OTH does not contain functionality for visualising CTG measurements but relies on an external system for that functionality.

CTG measurements can be captured in two ways: As continuous CTGs or as questionnaire-based CTGs. Continuous CTG works as a stream, the patient starts recording and the CTG data is shown in the external viewer after a slight delay. The measurement will keep going until the patient stops the measurement. Questionnaire based CTGs are discrete measurements. They are captured as part of a questionnaire result. The patient starts her questionnaire and records a CTG as she would any other measurement.

## Continuous CTG measurements

The option to record continuous CTGs is presented to the patient as a separate menu. That menu will only show up for patients that are in a patient group that has Continuous CTGs enabled.

**Edit patient group**

**Patient group name \***  
PPROM

**Department \***  
Department Y

**Questionnaire groups**  
Select one or more questionnaire groups

**Enable messaging to/from patients**

**Enable continuous CTG measurements**

**Show due date and gestational age**

**Update**

For continuous CTGs the patient chooses which uterine activity sensitivity setting to use on the Monica AN24 device (please refer to the user documentation for the AN24 device for the proper setting to use).

Once recording has been started by the patient, a “Continuous CTG” column will appear under the “Completed questionnaires” view under that patient. The “Continuous CTG” cell will show which sensitivity setting the patient has chosen.

Transfer in progress	Transfer stopped												
<table border="1"><tr><td>Linda Hansen</td><td></td></tr><tr><td>- All questionnaires -</td><td>5/14 4:38 PM</td></tr><tr><td>Continuous CTG</td><td>Started (Low sensitivity)</td></tr></table>	Linda Hansen		- All questionnaires -	5/14 4:38 PM	Continuous CTG	Started (Low sensitivity)	<table border="1"><tr><td>Linda Hansen</td><td></td></tr><tr><td>- All questionnaires -</td><td>5/14 4:37 PM</td></tr><tr><td>Continuous CTG</td><td>Stopped</td></tr></table>	Linda Hansen		- All questionnaires -	5/14 4:37 PM	Continuous CTG	Stopped
Linda Hansen													
- All questionnaires -	5/14 4:38 PM												
Continuous CTG	Started (Low sensitivity)												
Linda Hansen													
- All questionnaires -	5/14 4:37 PM												
Continuous CTG	Stopped												

Normally the measurement will continue to run until the patient stops it, but circumstances may arise where OTH actively stops the measurement.

This can occur in two circumstances:

1. Slow network connection (or no connection) between the patient tablet and the OTH server means that data delivery cannot keep up with measurement data.
2. Slow network connection (or no connection) between the OTH server and the external CTG viewer means that data delivery cannot keep up with measurement data.

In both circumstances there is some leeway to prevent intermittent network issues from preventing a measurement from being performed. In both instances the patient will be informed that the measurement has been stopped due to network issues.

## Questionnaire based CTG

Questionnaire based CTGs are collected in the same manner as all other measurements. A measurement node of the type CTG is added to a questionnaire and that questionnaire is assigned to the patient. The patient will then be instructed to perform a CTG measurement as part of that questionnaire.

### Add Measurement Node ✕

Short description (only shown to clinician)

Headline (shown to patient)

Measurement type

Uterine activity sensitivity


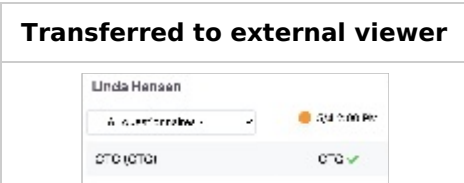

Measurement Form

Branch on patient threshold

Cancel Create




Once the patient has performed the questionnaire it will become visible in the “Completed questionnaires” view. The measurement will be transferred to an external viewer.









You can see the possible statuses of the transfer below:






Transfer in progress	Transferred to external viewer	Transfer failed
		

# List of supported medical devices

The patient app can connect to bluetooth devices in order to collect physical measurements. The integrated devices are shown below. Devices not on this list will not work.

Measurement type	Manufacturer	Model name	Sample picture
Activity tracker	Beurer	AS97	
Activity tracker	Beurer	AS98	
Blood pressure monitor	A&D	UA767PBT-Ci	
Blood pressure monitor	A&D	UA-651BLE	
Blood pressure monitor	Beurer	BM77	
Blood pressure monitor	Beurer	SR BM1	
			

CTG	Monica	AN24	
ECG	Bittium	Faros-180	
ECG	Savvy	Savvy	
Glucometer	Contour	Next One	
Oximeter	Nonin	Onyx 9560BT	
Oximeter	Nonin	Onyx 3230	
Spirometer	Vitalograph	4000	
			

Thermometer	FORA	IR-21b	
Thermometer	A&D	UT-201BLE-A	
Weight scale	A&D	UC-351PBT-CI	
Weight scale	A&D	UC-352BLE	
Weight scale	Marsden	M430	

# Addendum

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## Precautions

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The information in this document are subject to change without notice.

## Legal Notices

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OpenTeleHealth declares that OpenTele version 2 software application is placed on the market in compliance with Council directive 93/42/EEC concerning Medical Devices.

## Manufacturer

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OpenTeleHealth ApS,  
Toldbodgade 8, 1., 8000  
Aarhus C, Denmark



### Manufacturer responsibility

The manufacturer is only responsible for the software of OTH itself. No parts of this document may be reproduced or translated without the prior written permission of the manufacturer.