How to use the EuroHeart registry demo

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About this document

This document gives a quick overview of the EuroHeart demo registries and detailed instructions on how to test using it.

About the EuroHeart demo registries

Use the demo registry to get a better understanding of how the EuroHeart Quality Registry platform works.

There are currently two registries available in the EuroHeart demo environment; the ACS-PCI registry and the HF registry.

Sample graphics and registration process in this document are from the ACS-PCI registry but the functionality and processes described are mainly the same for all EuroHeart registries.
Two pages are slightly different though, the *registration overview page* and the *patient page*. The structure of these pages depends on if it is a follow-up registry (for example HF registry) or a chain registry (for example as for ACS-PCI). Follow-up registries' structure fits registries that register continuously without any given endpoint, while the chain structure suits registries that have registrations with a fixed number of steps and a clear endpoint. You can read more about this at [Registration overview page](#) and [Patient page](#).

The demo registries are preset with registration data entered by the EuroHeart Data Science Group.

Every night (at about 2 am CET), the registries' databases are emptied and reset. That means that everything you enter will be deleted during the night. Only the preset data will still be in the registries the next day.

Also, note that a demo registry can be used by several people at the same time, and you could see data entered by other people using the same demo user as you.

Login

1. In web browser Google Chrome or Microsoft Edge, go to:

   ACS-PCI registry: https://utbildning.ucr.uu.se/euroheart/
   HF registry: https://utbildning.ucr.uu.se/eurohearthf/

2. Login with
   username: doctorisin
   password: doctorisin

Welcome page – choose healthcare unit

The user doctorisin (Registry User) has access to 3 wards in 2 different hospitals.

1. Click on Ward 1.

   Result: The registrations overview page for Ward 1 is shown.

Registrations overview page

This page shows a list of the healthcare unit's current registration work. Completed registration chains do not show on the registrations overview page.

Click on a patient name to open the Patient page

or

click on a registration step to open that registration form

or

start a new registration.

Start a new registration like this:

Search for a patient

1. Go to the field **Personal ID no** in the upper right corner.
2. Enter one of the personal ID numbers listed in Appendix A: Patients below (for example 191212121212) and then press enter, or click on the magnifying glass icon.

   Result: The patient page is shown.

Patient page

Ongoing

If your patient has an ongoing registration process, you can click any process step to open it.

Start a new registration process

Start a completely new registration chain by clicking on any of the steps.

Completed

If your patient has a completed registration process, you can click any process step to open it.

Status symbols in a registration process

Registrations may have the following statuses:

1. signed by another unit,
2. signed,
3. started,
4. not started, possible to start,
5. not possible to start.

i-symbols

Click on an i-symbol to see more information.

Registration forms

- The name, personal ID and age of the patient are shown at the top left of the form. This is also a link to the patient page.
- Top right there are buttons to **Save** and **Sign** the form. For a signed form a button to unlock the form is displayed instead.
- The form content begins with a heading and information about when the form was last changed and the possibility to print the form. For a saved form, there is also the option to delete the form. A signed form first needs to be unlocked before the form can be deleted.
- Fields with an asterisk (*) are mandatory and must be filled in before the form can be signed.
- When a form is signed, it is shown in "read mode". In read mode, the layout is adjusted to make the content easy to read and print.
- All the steps in the registration chain are visible at the top of the form, after the patient information. This makes it easy to navigate between the different registration forms and quickly see what is ready and what remains to be registered.

Complete a process chain in EuroHeart ACS-PCI

On the patient page, you can complete a registration process when any of the following conditions are met:

- The forms **Demographics and Comorbidities** and **PCI** are signed
- The forms **Demographics and Comorbidities**, **Admission**, **In-hospital care** and **Discharge** are signed

If all forms (Demographics and Comorbidities, Admission, In-hospital care, PCI and Discharge) are signed the chain is automatically moved to **Completed**.

To complete a process

Click on the collapsed menu button to the far right and choose **Move to completed**. If the option is greyed out, the conditions listed above are not met.
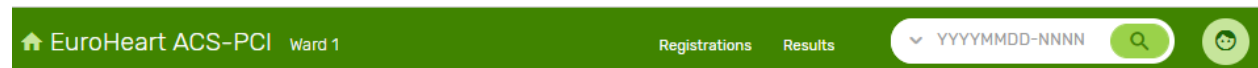
To continue to work on a signed registration process

Click on the collapsed menu button to the far right and choose **Make ongoing**.

or

Click the registration form you wish to change and unlock it when it opens.

Results

1. Go to the top menu and click **Results**.
2. Go to Quality: Trends and comparisons or Export to Excel and click **To the report**.

General about the results section

This demo registry comes with the two standard report sections included in the EuroHeart registry IT-platform; Quality: Trends and comparisons and Export to Excel.

During and after the implementation of the EuroHeart registry IT-platform national/regional integrations to other systems can be done for additional features and setting up additional reports per national/regional plans and strategies.

Quality: Trends and comparisons

The EuroHeart quality report shows the quality indicators specified by the EuroHeart Data science group for your healthcare unit (Ward 1).

The report is set to automatically display the current year, choose 2021 to see more a report based on more data.

A weighted index is shown in the Index Circle.

The target levels for the quality indicators (green and yellow areas in the graphs) are to be defined and set nationally/regionally according to locally established target levels.

Overview chart

Purpose: to provide a quick overview of the unit's performance for all indicators.

For each indicator/overview chart, two target levels are displayed – "fully achieved goal" and "partially achieved goal".

Clicking on an overview chart takes you to more detailed information about that indicator.

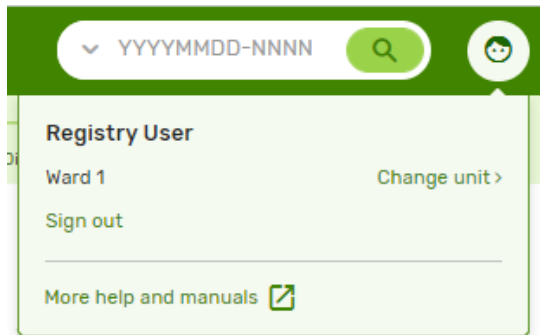#### *General features of the detail panels*

Each chart can be enlarged by pressing "view and save". A dialog with the chart in a larger format opens in a dialog box. In the dialog opened by magnifying the image, the image can also be downloaded.

Export to Excel

The Excel export is an Excel file that contains the registrations from a specific healthcare unit for a certain time period. The export can be generated for all healthcare units that a user has authorization for, and the user can choose the time period. The file can be downloaded, and users can continue to work on the data in the way that suits them.

Change healthcare unit

You can change the healthcare unit via the user menu in the top right part of the registry window.

Appendices

Appendix A: Patients

Fictive patients entered by the EuroHeart Data Science Group (ID numbers and names are not real):

Personal ID no.	Sex	Date of birth	First name	Last name	npr
191212121212	Male	12/12/1912	Tolvan	Tolvsson	npr123456789059
192001050455	Male	05/01/1920	Karl	Persson	npr123456789046
192101069249	Female	06/01/1921	Ada	Persson	npr123456789045
193001016595	Female	01/01/1930	Kajsa	Svensson	npr123456789063
193501277697	Male	27/01/1935	Bengt	Johansson	npr123456789057
193801049267	Male	04/01/1938	Örjan	Larsson	npr123456789015
194001079120	Male	07/01/1940	Yngve	Frej	npr123456789064
194501103297	Female	10/01/1945	Hilda	Münchenhauser	npr123456789021
195001182046	Female	18/01/1950	Agda	Andersson	npr123456789012
195701292897	Male	29/01/1957	Jens	Friedmann	npr123456789022
196411283499	Male	28/11/1964	Test	Testsson	npr123456789060
196501133372	Male	13/01/1965	Mårten	Skogwall	npr123456789014
196512123339	Male	12/12/1965	Anders	Nilsson	npr123456789048
197503259280	Male	25/03/1975	Martin	Bengs	npr123456789026
197906189282	Male	18/06/1979	Calle	Larsson	npr123456789054
198101199282	Male	19/01/1981	Bertil	Modig	npr123456789030
198201179283	Male	17/01/1982	Gustav	Nilsson	npr123456789052

Appendix B: Technical info

Screen resolution

The design is currently adapted to a screen resolution width of 1280 pixels. We have chosen this because it is the most common screen resolution and it is important that the registry work on most common screens. This does not mean that in the future we will not develop the platform for more screen sizes.

Supported browsers

The registry is designed and tested for the following browsers:

- Latest version of Google Chrome
- Latest version of Microsoft Chromium Edge