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EUROPEAN
SOCIETY OF
**CARDIOVASCULAR
RADIOLOGY**

MR/CT REGISTRY 2.0

User Manual

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USER MANUAL

<https://www.mrct-registry.org/>

I. Log In



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RADIOLOGY

WELCOME TO THE EUROPEAN MR/CT REGISTRY

*Document and certify your
cardiovascular examinations!*

[MR/CT SUBMISSION LOGIN](#) [REGISTER](#)

TOP THREE CONTRIBUTORS TO THE MR/CT REGISTRY

CT submissions MR submissions

1. University Hospital Erlangen, Erlangen	31770
2. Paracelsus Medizinische Privatuniversität Nürnberg, Nürnberg	25310
3. Klinikum rechts der Isar, München, München	21609

NUMBERS

MR/CT overall numbers per 29. Jul 2024

- 265676 MR submissions
- 265092 CT submissions
- 7 contributing users
- 380 participating institutes from 28 countries



USER MANUAL
Please refer to the user manual linked
below for detailed guidance on
navigating the MR/CT Registry and
entering cases.

[DOWNLOAD USER MANUAL](#)

BOOKLET
To get an overview of the newest
updates, statistics and numbers on the
MR/CT Registry download the MR/CT
Booklet.

[DOWNLOAD BOOKLET](#)

CONTACT SUPPORT / PRIVACY STATEMENT

THE EUROPEAN MR/CT REGISTRY IS A PROJECT OF THE EUROPEAN SOCIETY OF CARDIOVASCULAR RADIOLOGY
MR/CT REGISTRY | Am Gutenberg 1 | 1020 Vienna | Austria | Phone: +43 1 52804489 | Email: office@esr.org

To complete the personal user registration your institute has to be registered beforehand.

Whether your institute is already registered in the database or not can be identified in the user registration area under the section *Institution*.

If your institute is already registered, you may continue with the personal User Registration.

Institution

Institution *

Type at least 2 characters of institution, city, or country...

Search by name, city, or country (e.g. "Med Uni Vienna"). If your institution is not listed, please ask your institution to register first.

Personal Information

Title

e.g. Dr., Prof.

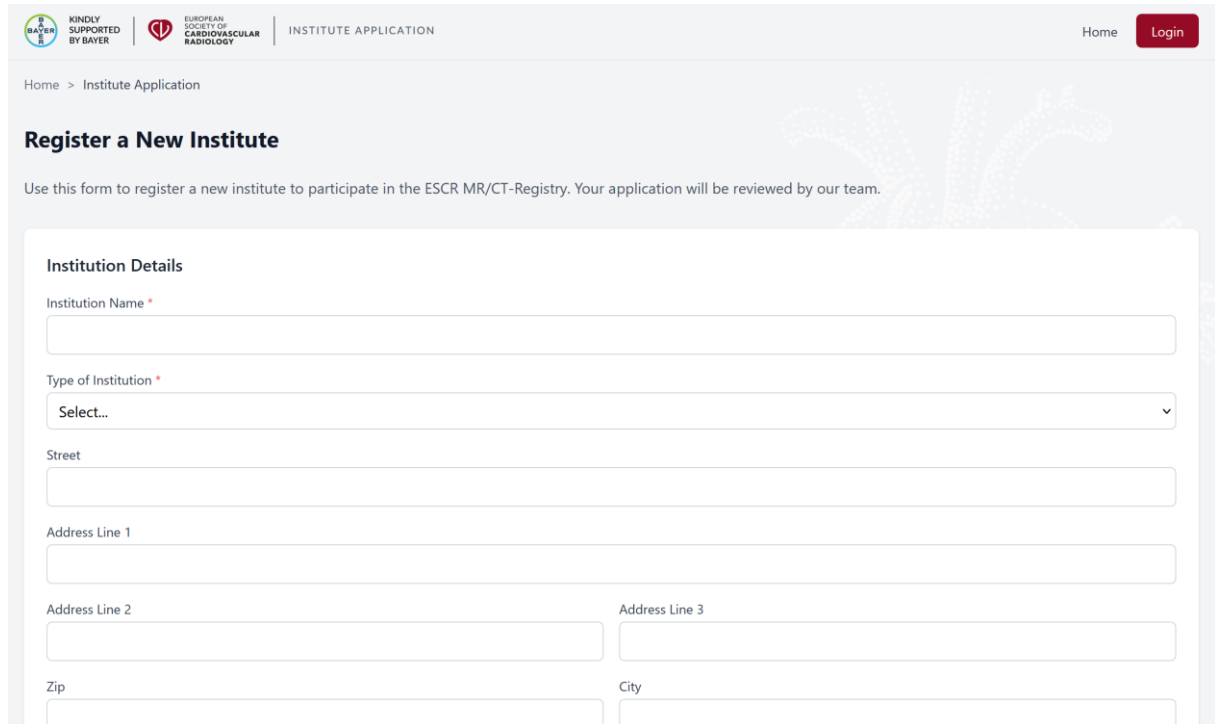
First name *

Surname *

Email *

Phone *

II. Institute Registration Form



Home > Institute Application

Register a New Institute

Use this form to register a new institute to participate in the ESCR MR/CT-Registry. Your application will be reviewed by our team.

Institution Details

Institution Name *

Type of Institution *

Select...

Street

Address Line 1

Address Line 2

Address Line 3

Zip

City

Login

If your institute is not yet registered, this has to be done one-time.

Information concerning the hospital/institute, the person responsible for maintenance of the account as well as the equipment used has to be provided.

- All fields marked with a red star (*) are mandatory and have to be filled in
- Blank mandatory fields prevent the saving process and hence generating an institute
- By clicking the button “*submit*” your data will be forwarded

The “local registry master” can update devices and injectors and approve new users for the corresponding institute.

!! Important change to the previous registry version: The local registry master should define right at the beginning all CT/MR scanners and the corresponding contrast media injectors you use for cardiovascular imaging at the institution. This will facilitate case submissions later on. The local registry master can add or correct institutional scanners and injectors at any time.

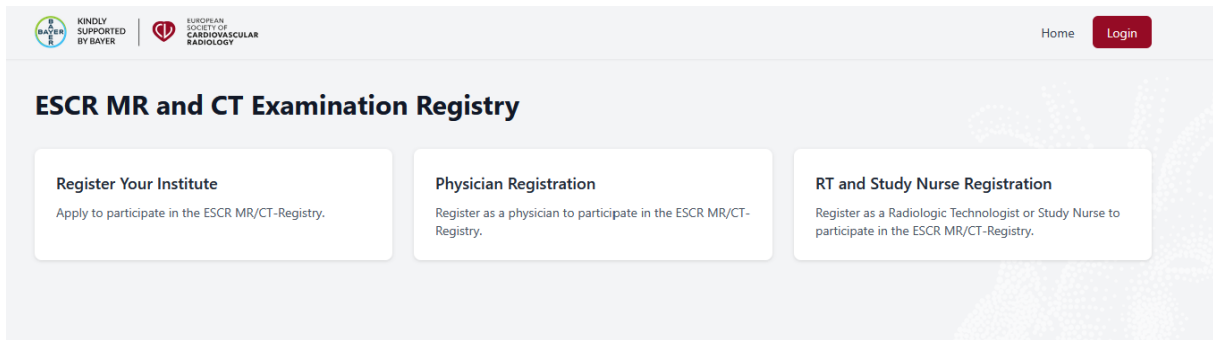
Upon receipt and approval of your application your institutional access is being created and an email to create a password will be sent to you.

As soon as your institute is authorised, you can continue with your User Registration

III. User Registration Form

As soon as you have received your username, you may log in to the Registry and create further user accounts.

- Continue with the user registration as physician or as RT/Study Nurse



The screenshot shows the ESCR MR and CT Examination Registry registration page. At the top, there are logos for 'KINDLY SUPPORTED BY BAYER' and 'EUROPEAN SOCIETY OF CARDIOVASCULAR RADIOLOGY'. On the right, there are links for 'Home' and 'Login'. The main heading is 'ESCR MR and CT Examination Registry'. Below this, there are three registration options in white boxes: 'Register Your Institute' (Apply to participate in the ESCR MR/CT-Registry), 'Physician Registration' (Register as a physician to participate in the ESCR MR/CT-Registry), and 'RT and Study Nurse Registration' (Register as a Radiologic Technologist or Study Nurse to participate in the ESCR MR/CT-Registry).

In this form as well, all fields marked with a red star (*) are mandatory, hence have to be filled in, in order for the user data being saved and the registration process being continued. Only then, your examinations can be allocated to you personally.

After saving, your application will be reviewed and approved by the local registry master of your institute.

IV. Log In Page



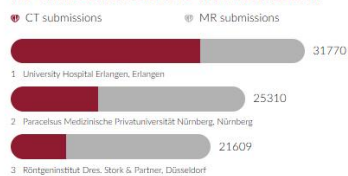
WELCOME TO THE EUROPEAN MR/CT REGISTRY

*Document and certify your
cardiovascular examinations!*

MR/CT SUBMISSION LOGIN

REGISTER

TOP THREE CONTRIBUTORS TO THE MR/CT REGISTRY



NUMBERS

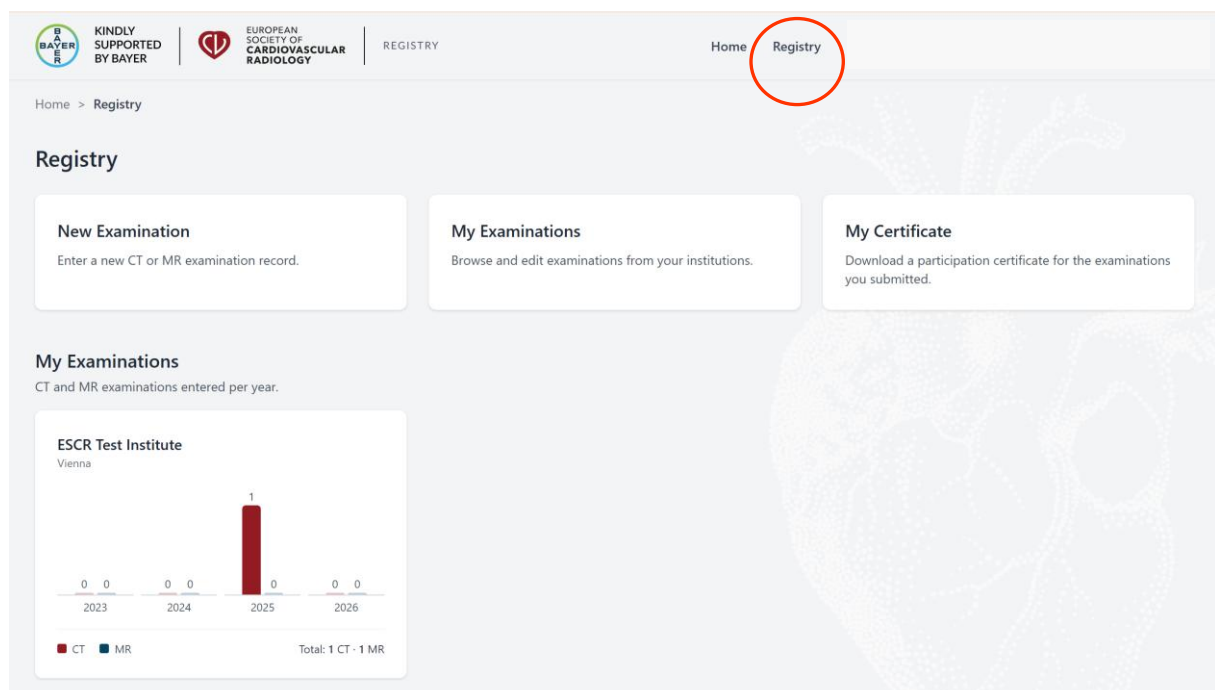
MR/CT overall numbers per 29. Jul 2026

- 260676 MR submissions
- 265092 CT submissions
- 7 contributing users
- 380 participating institutes from 28 countries

After you successfully logged in you may continue registering your MR- and/or CT-examinations.

V. Registry Data

To view your submissions or enter new data to the registry please go to “Registry”



The screenshot shows the 'Registry' page of the MR/CT Registry. The page has a navigation bar with 'Home' and 'Registry' (circled in red). Below the navigation bar, there are three main sections: 'New Examination', 'My Examinations', and 'My Certificate'. The 'My Examinations' section is expanded, showing a bar chart titled 'ESCR Test Institute Vienna' with data for the years 2023, 2024, 2025, and 2026. The chart shows 1 CT submission in 2025 and 0 MR submissions. The total is 1 CT - 1 MR.

Home > Registry

Registry

New Examination
Enter a new CT or MR examination record.

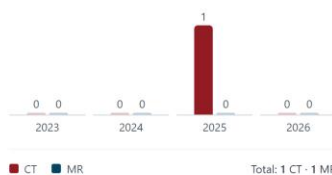
My Examinations
Browse and edit examinations from your institutions.

My Certificate
Download a participation certificate for the examinations you submitted.

My Examinations

CT and MR examinations entered per year.

ESCR Test Institute
Vienna

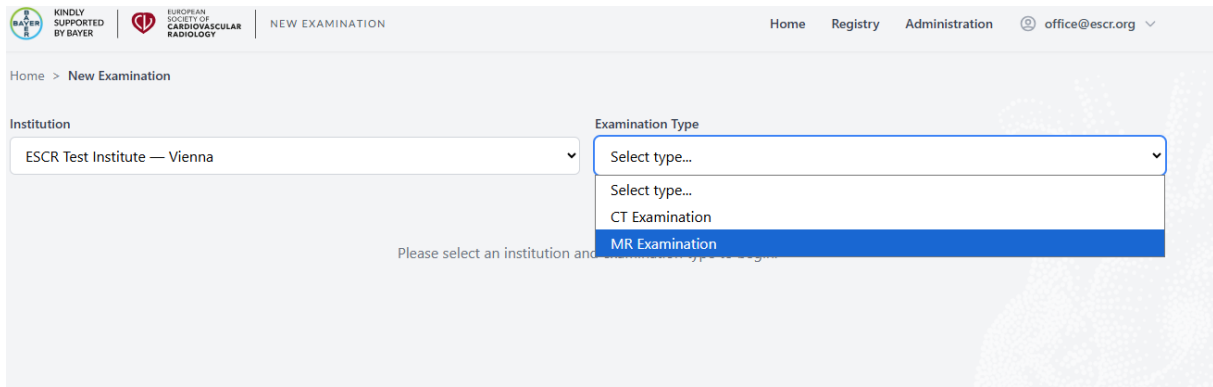


Year	CT	MR
2023	0	0
2024	0	0
2025	1	0
2026	0	0

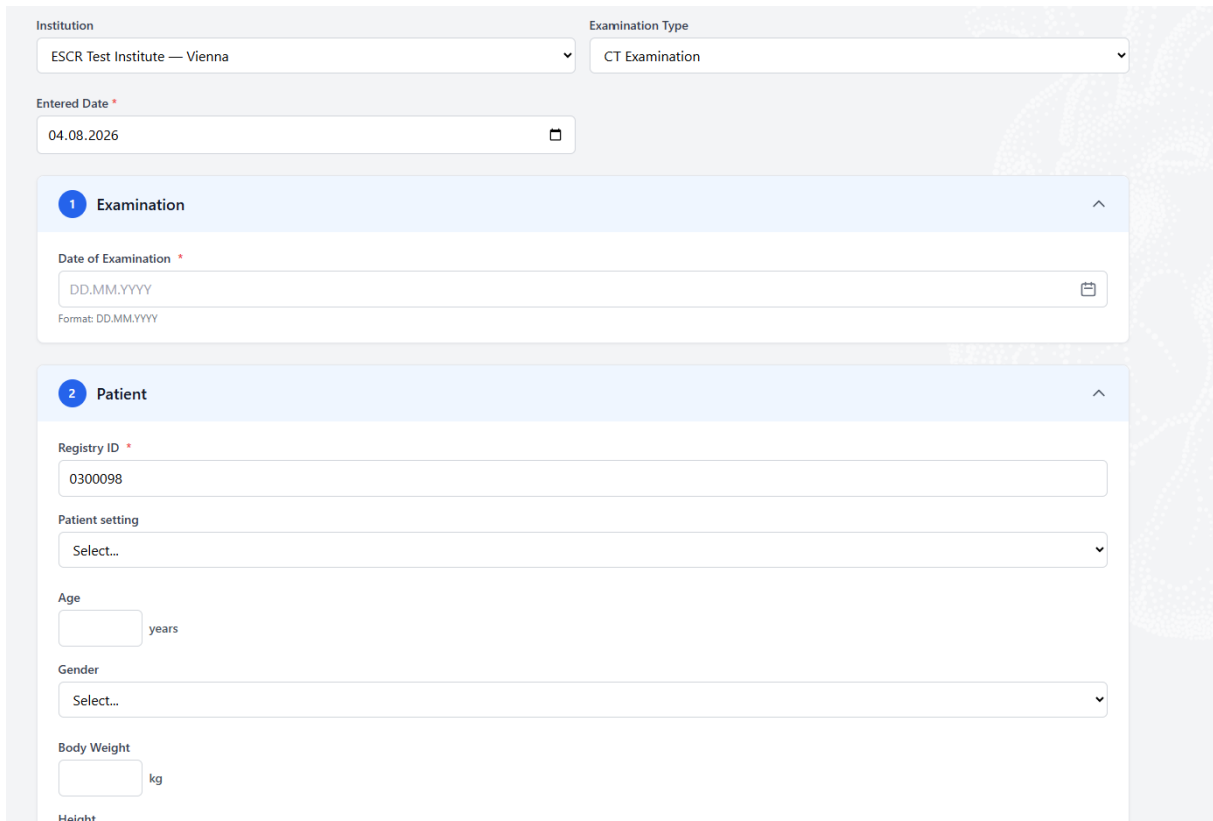
Total: 1 CT - 1 MR

VI. Data Entry

To enter a new examination go to “New Examination” and select the correct form here:



Once the right form has been selected, the corresponding form opens:



Fields marked with a red star * are mandatory fields that have to be filled out.
As soon as all mandatory fields are filled in, the data can be saved.

VII. Specification of Indication / Suspected CAD

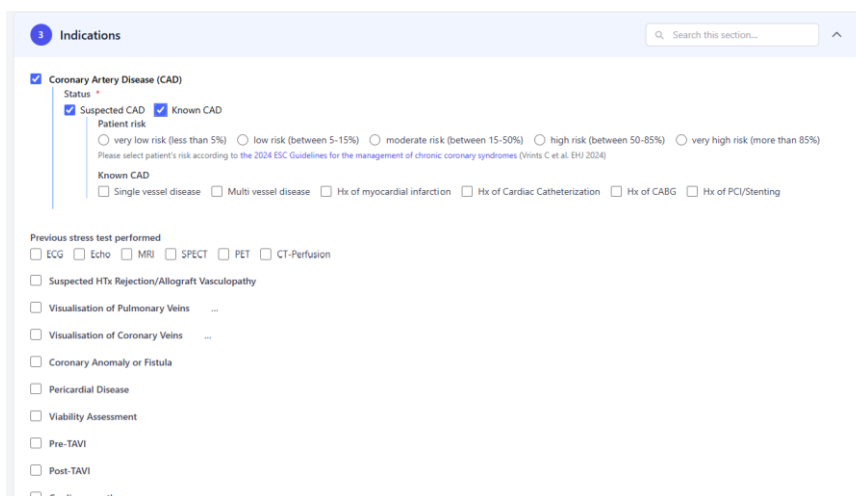
For some of the indications further information can be provided when selecting the corresponding indication:



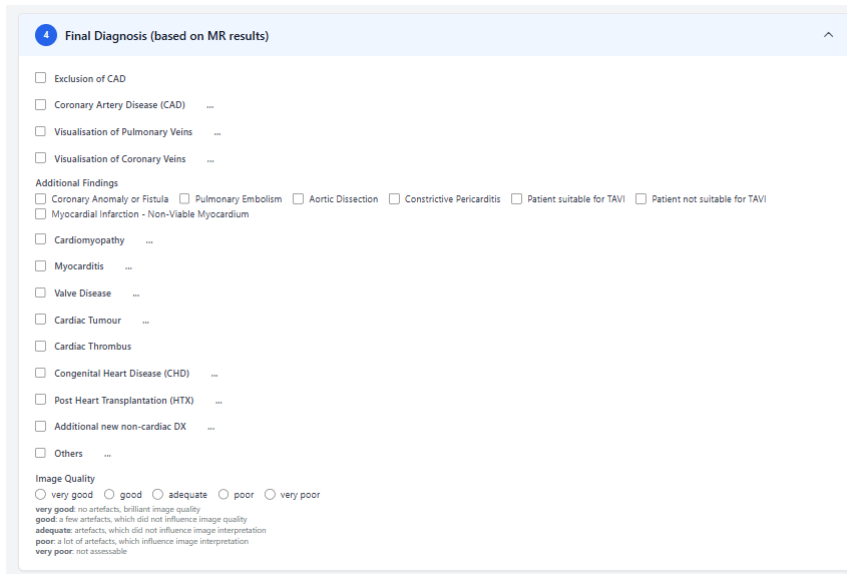
At least one indication/question has to be specified by ticking the check box ☐

If there is clinical suspicion of coronary artery disease (CAD), the individual risk for the patient should be determined based on the current guidelines of the ESC on chronic coronary syndromes (Vrints C et al. Eur Heart J 2024, 45, 3415–3537):

- very low risk: less than 5%
- low risk: between 5-15%
- moderate risk: between 15-50%
- high risk: between 50-85%
- very high risk: more than 85%



VIII. Final Diagnosis



4 Final Diagnosis (based on MR results)

☐ Exclusion of CAD

☐ Coronary Artery Disease (CAD) ...

☐ Visualisation of Pulmonary Veins ...

☐ Visualisation of Coronary Veins ...

Additional Findings

☐ Coronary Anomaly or Fistula ☐ Pulmonary Embolism ☐ Aortic Dissection ☐ Constrictive Pericarditis ☐ Patient suitable for TAVI ☐ Patient not suitable for TAVI

☐ Myocardial Infarction - Non-Viable Myocardium

☐ Cardiomyopathy ...

☐ Myocarditis ...

☐ Valve Disease ...

☐ Cardiac Tumour ...

☐ Cardiac Thrombus

☐ Congenital Heart Disease (CHD) ...

☐ Post Heart Transplantation (HTX) ...

☐ Additional new non-cardiac DX ...

☐ Others ...

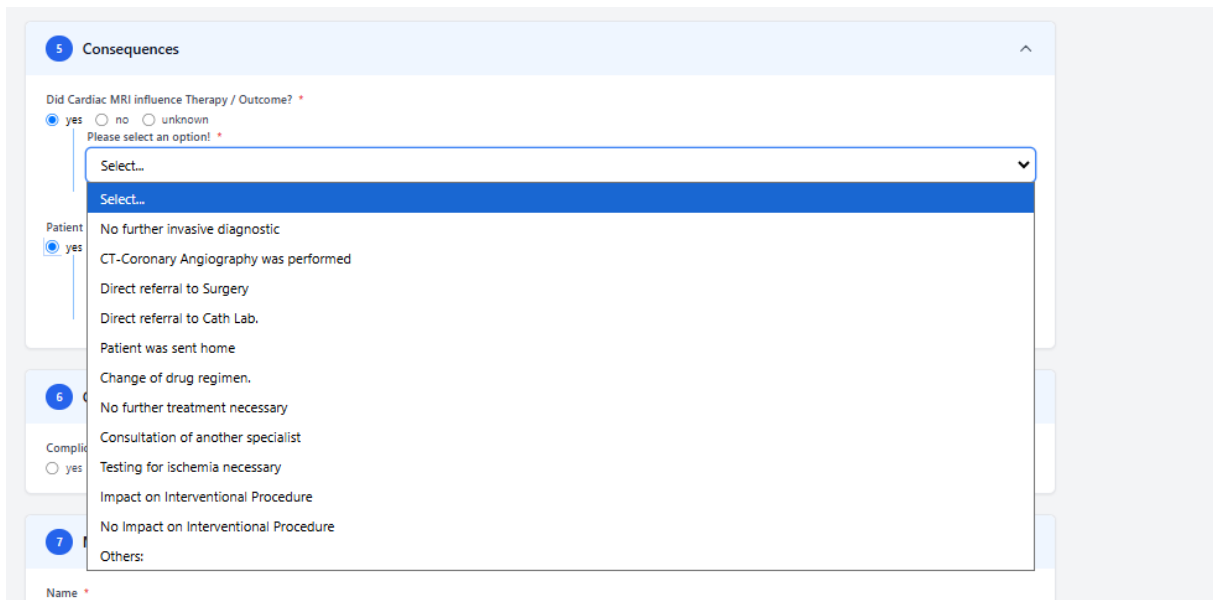
Image Quality

☐ very good ☐ good ☐ adequate ☐ poor ☐ very poor

very good: no artefacts, brilliant image quality
good: a few artefacts, which did not influence image quality
adequate: artefacts, which did not influence image interpretation
poor: a lot of artefacts, which influence image interpretation
very poor: not assessable

The next step is to make a diagnosis on the basis of the MR/CT.
Please note that at least one check box ☐ has to be ticked for the diagnosis

IX. Consequences



5 Consequences

Did Cardiac MRI influence Therapy / Outcome? *

☒ yes ☐ no ☐ unknown

Please select an option! *

Select...

Select...

No further invasive diagnostic

CT-Coronary Angiography was performed

Direct referral to Surgery

Direct referral to Cath Lab.

Patient was sent home

Change of drug regimen.

No further treatment necessary

Consultation of another specialist

Testing for ischemia necessary

Impact on Interventional Procedure

No Impact on Interventional Procedure

Others:

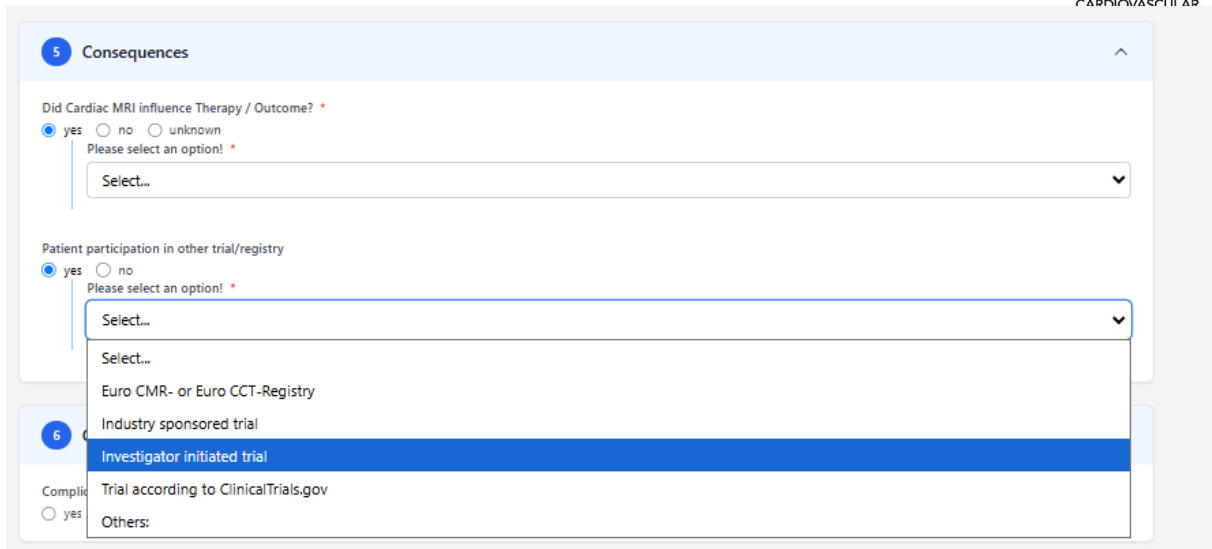
6

Patient ☒ yes

7

Compliance ☐ yes

Name *



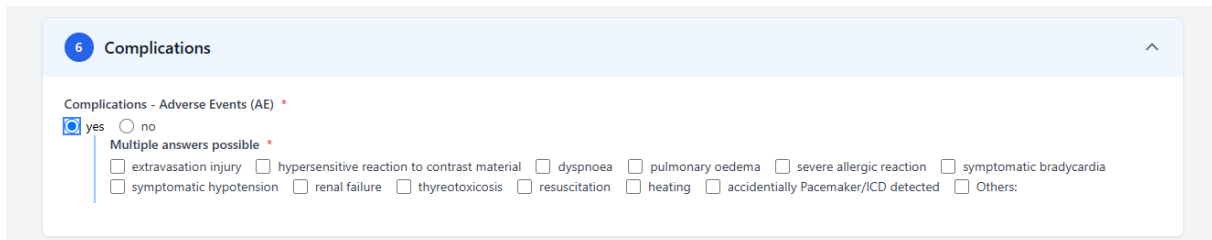
Under the section “Consequences” the various effects of the findings on the following treatment of the patient have to be stated and whether the patient participates in any other trial or registry.

In case the findings have no further consequences, or the patient is in no other study or register, select “no”.

By selecting “yes” a drop-down menu with various pre-formulated answers opens.

X. Complications

This section is to state possible complications that appeared during the examination.



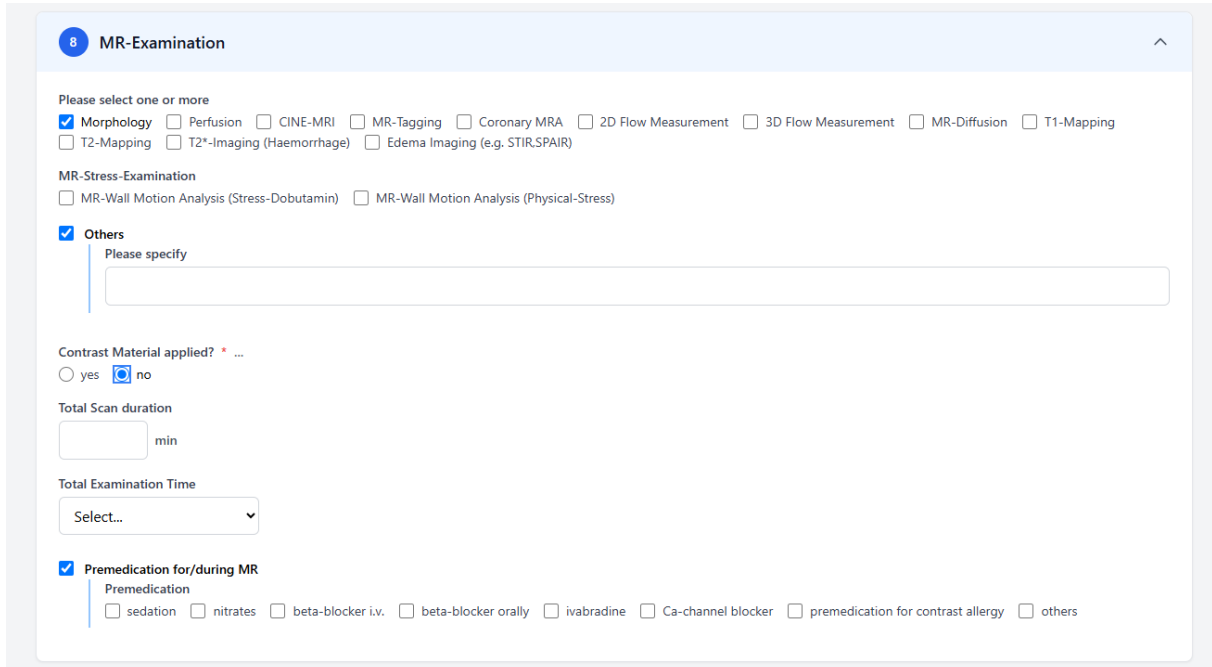
XI. Scanners and Injectors

In the next step please select the scanner/injector combinations from your institution used for this examination. This scanner/injector information was entered at the beginning (see comments above) by your local registry master. In case the scanner is missing in the list or is not correct, the information can be changed/adapted by the local registry master.

XII. MR-Examination / Contrast Material

The section “MR – Examination” is for general information concerning the examination

➔ which sequences, contrast medium, flow rate, etc



8 MR-Examination

Please select one or more

☒ Morphology ☐ Perfusion ☐ CINE-MRI ☐ MR-Tagging ☐ Coronary MRA ☐ 2D Flow Measurement ☐ 3D Flow Measurement ☐ MR-Diffusion ☐ T1-Mapping
☐ T2-Mapping ☐ T2*-Imaging (Haemorrhage) ☐ Edema Imaging (e.g. STIR, SPAIR)

MR-Stress-Examination

☐ MR-Wall Motion Analysis (Stress-Dobutamin) ☐ MR-Wall Motion Analysis (Physical-Stress)

☒ Others

Please specify

Contrast Material applied? * ...

☐ yes ☒ no

Total Scan duration

min

Total Examination Time

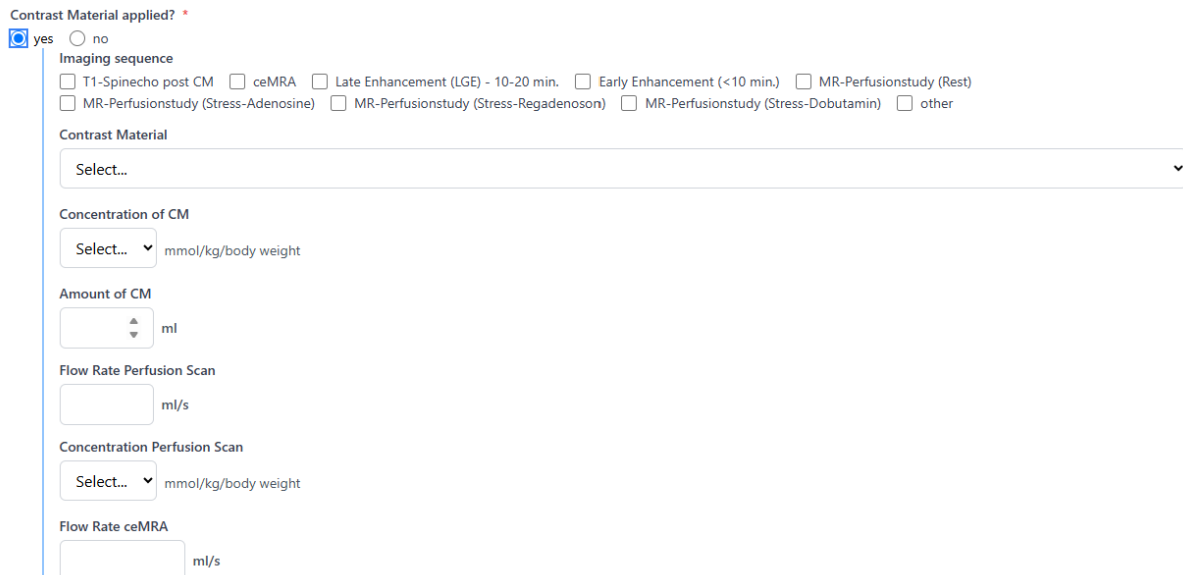
Select...

☒ Premedication for/during MR

Premedication

☐ sedation ☐ nitrates ☐ beta-blocker i.v. ☐ beta-blocker orally ☐ ivabradine ☐ Ca-channel blocker ☐ premedication for contrast allergy ☐ others

By clicking on “yes” for contrast material, additional information will be shown to indicate more details:



Contrast Material applied? *

☒ yes ☐ no

Imaging sequence

☐ T1-Spincho post CM ☐ ceMRA ☐ Late Enhancement (LGE) - 10-20 min. ☐ Early Enhancement (<10 min.) ☐ MR-Perfusionstudy (Rest)
☐ MR-Perfusionstudy (Stress-Adenosine) ☐ MR-Perfusionstudy (Stress-Regadenoson) ☐ MR-Perfusionstudy (Stress-Dobutamin) ☐ other

Contrast Material

Select...

Concentration of CM

Select... mmol/kg/body weight

Amount of CM

ml

Flow Rate Perfusion Scan

ml/s

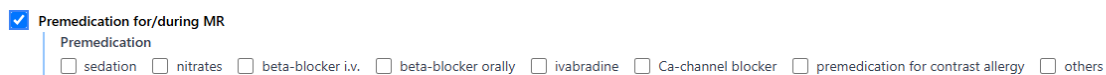
Concentration Perfusion Scan

Select... mmol/kg/body weight

Flow Rate ceMRA

ml/s

For the premedication multiple answers are possible:

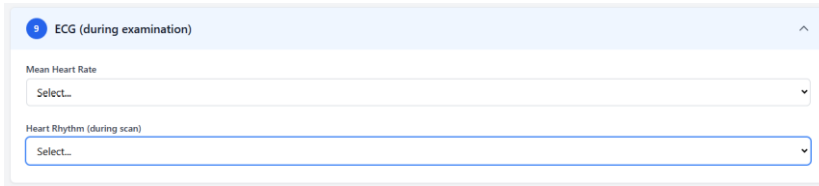


☒ Premedication for/during MR

Premedication

☐ sedation ☐ nitrates ☐ beta-blocker i.v. ☐ beta-blocker orally ☐ ivabradine ☐ Ca-channel blocker ☐ premedication for contrast allergy ☐ others

XIII. MR-ECG / Postprocessing



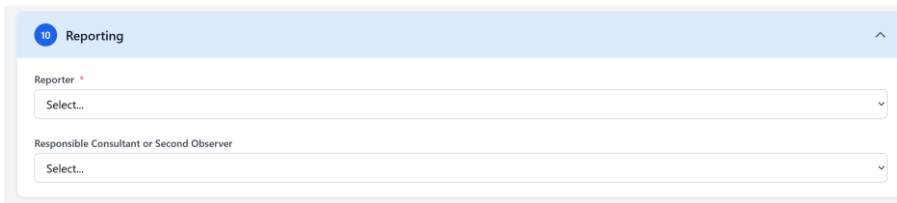
9 ECG (during examination)

Mean Heart Rate
Select...

Heart Rhythm (during scan)
Select...

Please specify mean heart rate and heart rhythm of the patient during the examination in the section “ECG”.

XIV. Reporting



10 Reporting

Reporter *
Select...

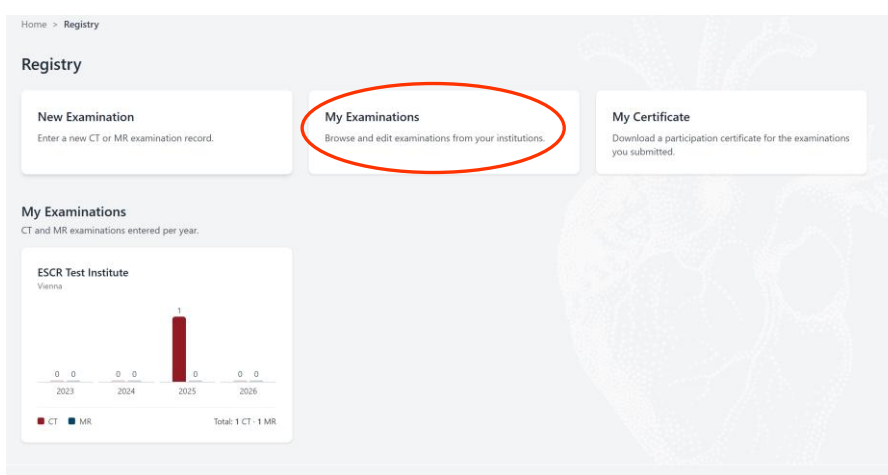
Responsible Consultant or Second Observer
Select...

Before saving, please specify who wrote the examination report.

After having filled in all mandatory fields, you may now save your entries.

Before saving, please ensure you filled in all mandatory fields (marked with a red star *). Only if all mandatory fields are filled in, you may continue.

XV. Editing / Data Search



Already existing examination data can be found under “My Examinations” as marked above.

Home > Examinations

Examinations [+ New Examination](#)

Form: Record #: Registry ID: Exam Date From:

Exam Date To:

RECORD #	FORM	EXAM DATE	REGISTRY ID	
1002274	MR	2012-12-05	0002806	View / Edit
237554	CT	2007-02-01	0265863	View / Edit

Showing 1-2 of 2

25 per page Page 1 of 1

Existing examinations can be filtered by date and ID.

If you leave all fields blank, all your examinations will be listed.