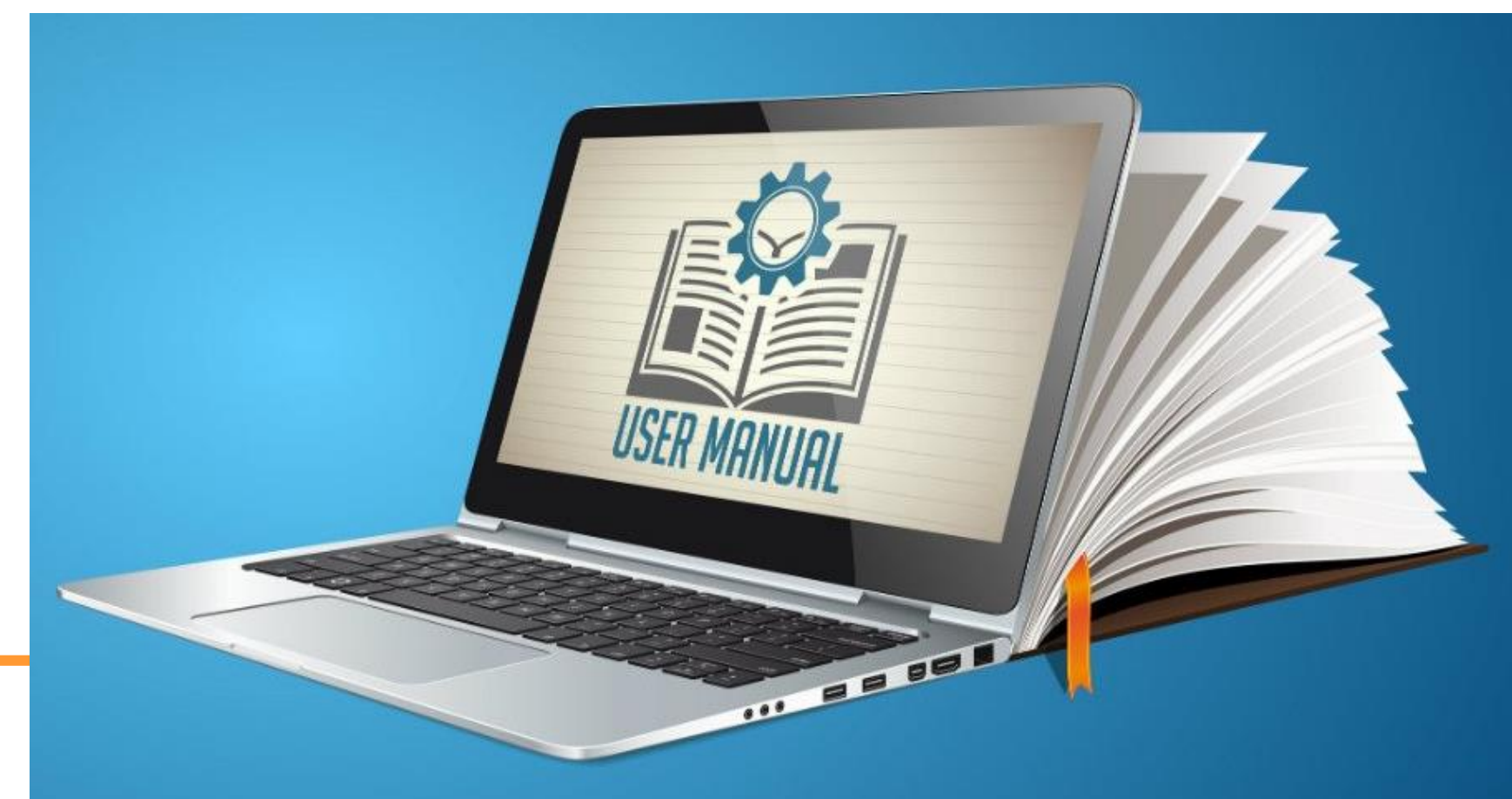




Functional versus Culprit-only Revascularization in Elderly Patients with Myocardial Infarction and Multivessel Disease: the **FIRE Trial**

**Electronic Case Report Form
-Guidelines-**



GENERAL INFORMATION

This is the HomePage of our eCRF !!!

To access the list of patients and to randomize a new patient, please click «Patients grid»

The screenshot displays the Home Page of the eCRF system. The top header is dark blue with the 'ICE' logo on the left and 'Test PI' with a dropdown arrow on the right. A sidebar on the left contains navigation links: Home Page, Clinical Studies, eQuery, Audit, and Documentation. The main content area features a 'SHORTCUT' box with a 'Patients Grid' button, highlighted by a yellow arrow. Below this are three large colored cards (teal, grey, and red) showing enrollment statistics: 'N° of patients enrolled in last 30 days', 'Total of patients enrolled', and 'Total patients enrolled for the entire study'. All three cards display a large '0'. At the bottom, a section titled 'GENERAL STUDY INFORMATION' shows the name 'www.thefiretrial.com @theFIRE_trial'.

ICE

Test PI

Home Page

Clinical Studies

eQuery

Audit

Documentation

SHORTCUT

Patients Grid

0

N° of patients enrolled in last 30 days

0

Total of patients enrolled

0

Total patients enrolled for the entire study

GENERAL STUDY INFORMATION

Name: **www.thefiretrial.com @theFIRE_trial**

During the activities, you can quickly achieve the list of randomized patients with this shortcut

I

E

E

Home Page

Clinical Studies

Home Page Patient

eQuery

Audit

Documentation

Patients

+ New Patient

	Code Patient
<div><div><div><div></div><div></div><div></div></div></div></div>	2001000001
<div><div><div><div></div><div></div><div></div></div></div></div>	2001000002

Showing 1 to 2 of 2 entries

Sign Patient

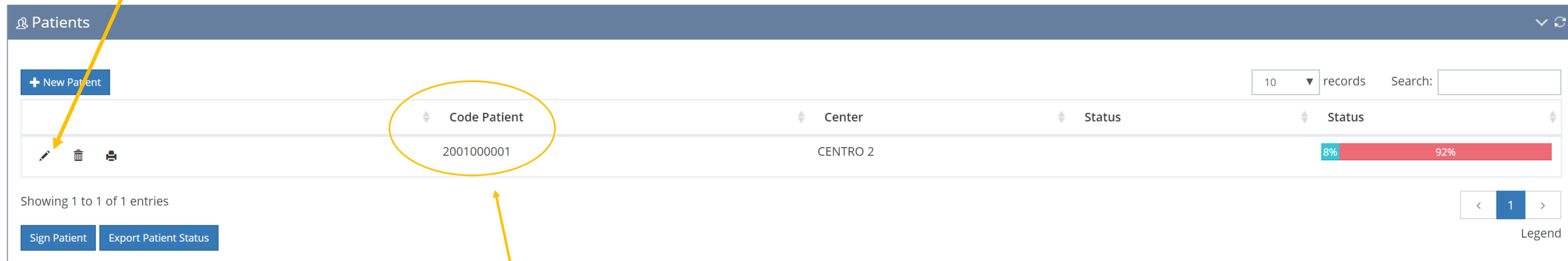
Export Patient Status






In this page you will find the list of randomized patients !!!

To select a patient, please click the symbol with the pencil

You will be immediately directed in the eCRF of the patient



Patients			
+ New Patient			
	Code Patient	Center	Status
  	2001000001	CENTRO 2	<div><div>8%</div><div>92%</div></div>

Showing 1 to 1 of 1 entries

Sign Patient Export Patient Status

10 records Search:

< 1 >

Legend

Here, you can find the automatically generated ID for the patient

Please, this code must be linked, in a separate file with the name and surname of the patient

This is crucial for the follow-up

To randomize a new patient, please click «New Patient»

Patients

+ New Patient

10 records

Search:

Code Patient	Center	Status	Status
No data available in table			

Showing 0 to 0 of 0 entries

Sign Patient

Export Patient Status

Legend



To change data in eCRF

Click eQuery

Click the item that needs the correction

Please note that you have to click on the question (e.g. height) and not on the the answer (e.g. 169)

[Audit Trail](#) [eQuery](#)

Code Patient: 1001000001Center: CENTRO 1Random. Code: CULPRIT-ONLY (#2804)

*Age (years)84

*Height (cm)169

*Weight (kg)78

Medical history

- ☒ arterial hypertension
- ☒ dyslipidemia
- ☐ current smoker
- ☐ former smoker
- ☐ diabetes non insulin dependent
- ☐ diabetes insulin dependent
- ☐ history of ischemic heart disease
- ☒ prior MI
- ☐ prior PCI
- ☐ history of atrial fibrillation or atrial flutter
- ☐ COPD
- ☐ peripheral vascular disease
- ☒ prior stroke or TIA
- ☐ prior bleeding

[Audit Trail](#) [eQuery](#)

Code Patient: 1001000001Center: CENTRO 1Random. Code: CULPRIT-ONLY (#2804)


*Age (years)84

*Height (cm)169

*Weight (kg)78

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- ☐ prior PCI
- ☐ history of atrial fibrillation or atrial flutter
- ☐ COPD
- ☐ peripheral vascular disease
- ☒ prior stroke or TIA
- ☐ prior bleeding

IRIAL

To change data in eCRF

The screenshot shows an 'eQuery' window with the following fields and annotations:

- Action:** A dropdown menu with 'Approve' selected.
- *Old value: Height (cm):** A text input field containing '169'. A yellow arrow points to this field with the text 'Here, you find the wrong value'.
- *New value: Height (cm):** An empty text input field. A yellow arrow points to this field with the text 'Below the field where you have to add the correct value'.
- description:** A large text area. A yellow arrow points to this field with the text 'Here, you must detail the reason for change'.
- Buttons:** 'Cancel' and 'Apply' buttons at the bottom right. A yellow arrow points to the 'Apply' button with the text 'Finally, click on «apply»'.

Here, you find the wrong value

Below the field where you have to add the correct value

Here, you must detail the reason for change

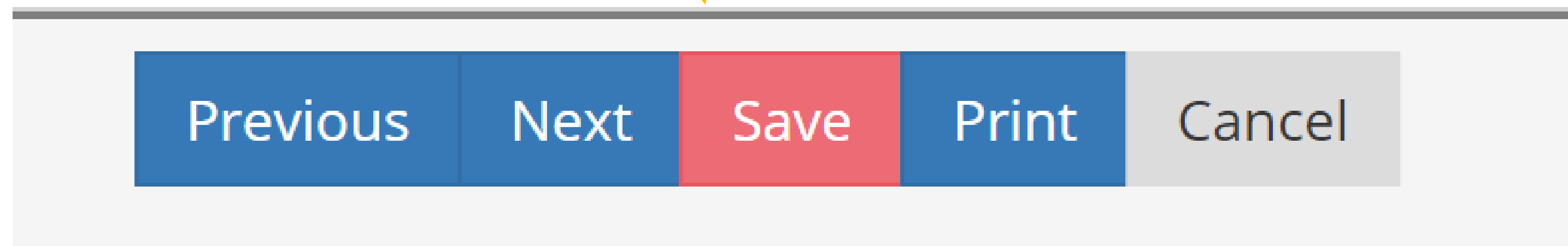
Finally, click on «apply»

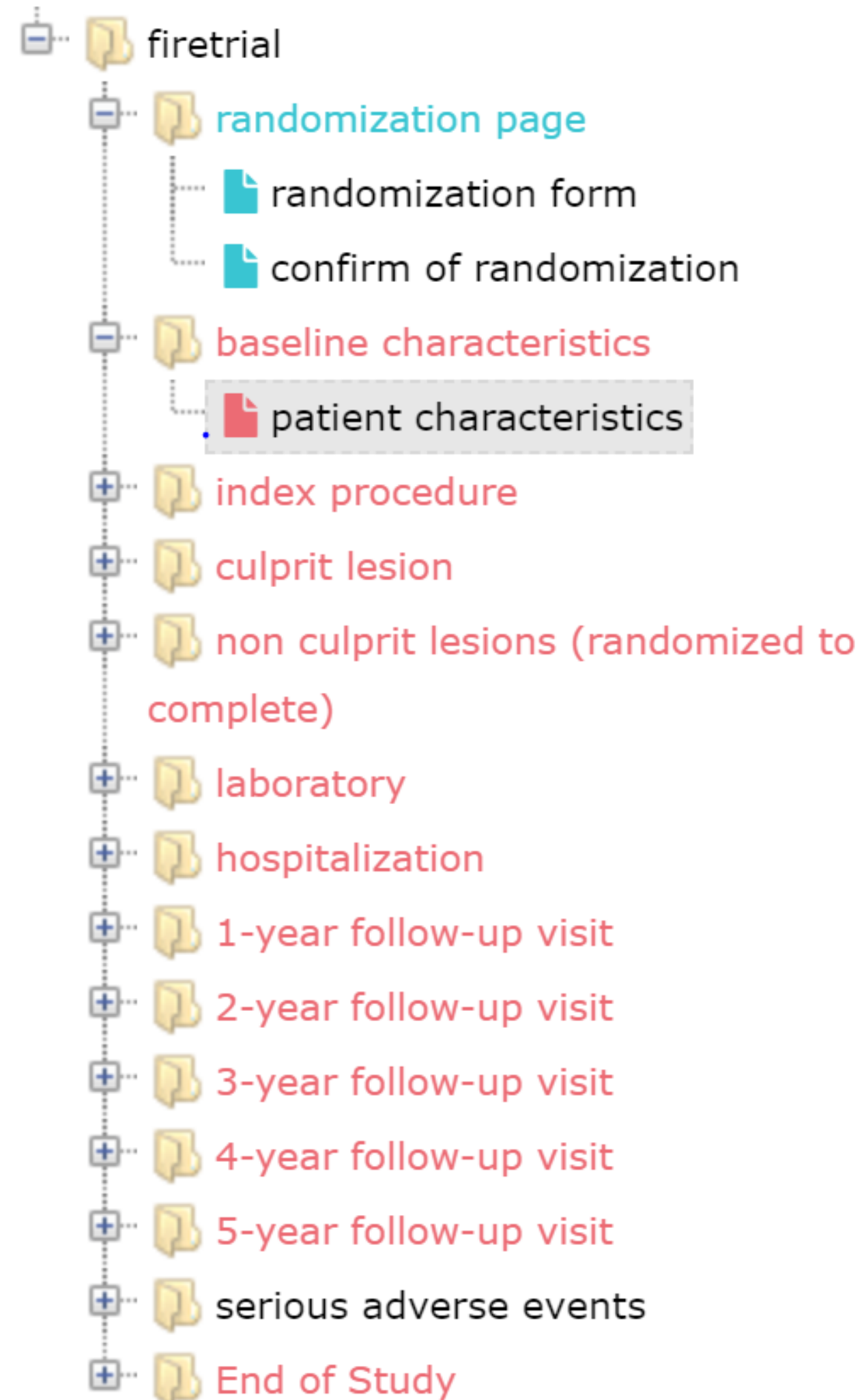
GENERAL CONSIDERATION

At the end of each page, you will find the menu below

Before to leave the page, you must click «SAVE»

To go to the next page, please click «NEXT»





GENERAL CONSIDERATION

On the right, you find the navigation menu of the eCRF

Some pages are equal in all patients (e.g. randomization form, laboratory, discharge, follow-up, etc...)

On the contrary, other pages are different because of the randomization arm (e.g. index procedure, staged procedure, non culprit lesions, etc...)

Use this menu to move inside the eCRF

PAGES OF THE eCRF

Inclusion criteria

*Age ≥ 75 years

☐ no
☒ yes

*Patient hospitalized for STEMI or NSTEMI

☐ no
☒ yes

*Multi-vessel disease at CAA

☐ no
☒ yes

*Successfull treatment of culprit lesion

☐ no
☒ yes

Exclusion criteria

*Absence of clear culprit lesion

☒ no
☐ yes

*Planned surgical revascularization

☒ no
☐ yes

*Non-cardiovascular co-morbidity reducing life expectancy to < 1 year

☒ no
☐ yes

*Any factor precluding 1-year follow-up

☒ no
☐ yes

*Prior CABG

☒ no
☐ yes

*Non culprit in the LM

☒ no
☐ yes

Randomization

*Hospital admission date

16-07-2019

*Randomization date

16-07-2019

*ST-segment elevation MI

☐ no
☒ yes

*Male sex


☒ no
☐ yes

If the criteria are respected, the randomization arm will appear on the top right corner of the form

Then, please click «SAVE»

Previous Next Save Print Cancel

The randomization button will appear

 [Click here to randomize](#)

Please, click to randomize

The randomization arm will appear at the top right
And then push «NEXT» to continue.



Code Patient: 2001000001

Center: CENTRO 2

Random. :
COMPLETE (#7005)

Please, select the correct randomization arm according to what is reported on the right top corner of the eCRF

*Randomization arm:

- ☐ CULPRIT-ONLY
☐ COMPLETE

After saving the form, the correct pages of the eCRF will be opened

This page requires that you confirm the randomization arm.

Please, click the correct arm.

Note that you can fill this page also in a different moment.

At the time of the randomization only the first page is mandatory.

BASELINE DATA AND CARDIOVASCULAR RISK FACTORS

*Age (years)

*Height (cm)

*Weight (kg)

Medical history

☐ arterial hypertension

☐ dyslipidemia

☐ current smoker

☐ former smoker

☐ diabetes non insulin dependent

☐ diabetes insulin dependent

☐ history of ischemic heart disease

☐ prior MI

☐ prior PCI

☐ history of atrial fibrillation or atrial flutter

☐ COPD

☐ peripheral vascular disease

☐ prior stroke or TIA

☐ prior bleeding

*Physical activity at home:

☐ none

☐ light

☐ moderate

☐ intensive

CLINICAL PRESENTATION AND ASSESSMENT

*Systolic blood pressure (mmHg)

*Heart rate (bpm)

*Killip class

☐ I

☐ II

☐ III

☐ IV

*Cardiac arrest at presentation

☐ yes

☐ no

*ST segment deviation (both elevation and depression)

☐ yes

☐ no

White Blood Cell (first value) (u/μl)

Creatinine (first value) (mg/dl)

Haemoglobin (first value) (g/dl)

This page is focused on general data.

We have to calculate the following scores:

- PRECISE DAPT
- SYNTAX II
- GRACE risk score
- PARIS

The computation is automatic !!! You have only to fill the variables.

This value is crucial to calculate the occurrence of contrast induced acute kidney injury (in the next pages we ask the peak value of creatinine after the procedure).



This is the **INDEX PROCEDURE PAGE** for patients randomized to **ONLY CULPRIT REVASCULARIZATION**

These variables are optional, but they might be important for substudies. Try to fill as much as you can !!!

This field is important!!! The eCRF will generate a number of NON CULPRIT LESION PAGE equal to the number that you sign HERE.

Note that you can randomize a patient up to 48 hours after the end of the index procedure.

This is convenient for STEMI patients, but if feasible, try to randomize NSTEMI patients during the index procedure.



Code Patient: 2001000002

Center: CENTRO 2

Random. Code:

GENERAL DATA

CULPRIT-ONLY (#7006)

*Date of index procedure

*Access site

☐ radial ☐ femoral ☐ other

Procedure duration (minutes)

Dose of contrast medium (ml)

Type (brand) of contrast

Dose Area Product (mGy * cm2)

*Did any complication occur?

☐ yes ☐ no

*If yes, please clarify

Did you use any of the following devices?

- ☐ temporary pace-maker implantation
- ☐ IABP
- ☐ other left ventricular assistance
- ☐ orotracheal intubation
- ☐ IVUS
- ☐ OCT
- ☐ Rotablator

*How many non-culprit lesions were identifiable?

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

*Randomization was performed

- ☐ at the index procedure
- ☐ after the end of the index procedure but within 48 hours

Code Patient: 2001000001 Center: CENTRO 2 Random. Code: COMPLETE (#7005)

GENERAL DATA

*Date of index procedure 17-07-2019

*Access site ☒ radial ☐ femoral ☐ other

Procedure duration (minutes) 60

Dose of contrast medium (ml) 250

Type (brand) of contrast omnipaque

Dose Area Product (mGy*cm2) 2500

Did any complication occur? ☐ yes ☒ no

*If yes, please clarify

Did you use any of the following devices?

☐ temporary pace-maker implantation ☐ IABP ☐ other left ventricular assistance
☐ orotracheal intubation ☒ IVUS ☐ OCT ☐ Rotablator

*How many non-culprit lesions were identifiable? ☐ 1 ☒ 2 ☐ 3 ☐ 4 ☐ 5

*When did you perform the randomization? ☒ at the index procedure
☐ after the end of the index procedure but within 48 hours

*When did you perform the functional assessment? ☐ at index procedure
☒ at staged procedure

*Did the functional assessment identify at least one positive non-culprit lesion? ☒ yes ☐ no

*When did you perform the revascularization of the non-culprit lesions? ☐ at index procedure
☒ at staged procedure

This is the INDEX PROCEDURE PAGE for patients randomized to COMPLETE REVASCULARIZATION

These variables are optional, but they might be important for substudies. Try to fill as much as you can !!!

This field is important!!! The eCRF will generate a number of NON CULPRIT LESION PAGE equal to the number that you sign HERE.

These variables describe how was performed randomization, the time of functional assessment and of revascularization.



Code Patient: 2001000001

Center: CENTRO 2

Random. Code:

COMPLETE (#7005)

GENERAL DATA OF THE STAGED PROCEDURE

*Date of the staged procedure

*Access site

☐ radial ☐ femoral ☐ other

Procedure duration (minutes)

Dose of contrast medium (ml)

Type of contrast

Dose Area Product (mGy * cm2)

*Did any complication occur?

☐ yes ☐ no

*If yes, please clarify

Did you use any of the following devices?

- ☐ temporary pace-maker implantation
- ☐ IABP
- ☐ other left ventricular assistance
- ☐ orotracheal intubation
- ☐ IVUS
- ☐ OCT
- ☐ Rotablator

This page will appear only for patients randomized to COMPLETE REVASCULARIZATION and only if you sign that the functional evaluation or the revascularization or both have been performed in a staged procedure.



Code Patient: 2001000001

Center: CENTRO 2

Random. Code:

*Segment

6

(in agreement with syntax score map)

*Type of lesion

COMPLETE (#7005)

☒ de novo

☐ instent restenosis

☐ stent thrombosis

☐ other

*If you selected other, please specify

*Percent of stenosis (visual estimation, from 0% to 100%)

90

*Lesion length (mm)

20

*RVD (mm)

3

Please select any of the following characteristics (if present)

☐ ostial

☐ bifurcation

☒ severe calcifications

☐ severe tortuosity

*ACC/AHA classification

☐ A

☐ B1

☒ B2

☐ C

☐ not applicable

*Number of guidewires

2

*Predilatation

☒ yes

☐ no

Number of balloons for predilatation:

2

*How many stent did you implant in the main culprit lesion?

☐ 1

☒ 2

☐ 3

☐ 4

☐ 5

*Did you implant Supraflex in the culprit lesion?

☐ no

☒ yes

Go to Syntax Score Map

<https://encrypted-tbn0.gstatic.com/images?q=tbn:AND9GcTtrChy7mVwtWRpM0kPFp3KnKy-ILz3rNb-Noev8-W6XBajeUHC>

This is the CULPRIT LESION PAGE

If you do not remember the number of the segment, you can check the Syntax Score Map at the link reported at the end of the page.

These values are based on the visual estimation of the operator. The corelab will perform the QCA in a separate CRF.

Here, we ask some details about the procedure. These information are important for substudies.

The logo for the FIRE TRIAL study. It features a stylized flame icon in orange and red to the left of the text "FIRE TRIAL". The word "FIRE" is in a bold, orange, sans-serif font, and "TRIAL" is in a bold, black, sans-serif font. Below the text, there are three horizontal bars in green, red, and orange.

STENT CHARACTERISTICS PAGE

STENT CHARACTERISTICS

#	Stent number	Stent type	Diameter (mm)	Length (mm)	Postdilation
1	1st stent	<div></div>			<div></div>
2	2nd stent	<div></div>			<div></div>
3	3rd stent	<div></div>			<div></div>
4	4th stent	<div></div>			<div></div>
5	5th stent	<div></div>			<div></div>

Number of balloons for
postdilatation:

This page appers when you report that one lesion (both culprit and non culprit) has been treated with at least one stent.

Please, remember that our protocol strongly suggest the use of **sirolimus eluting biodegradable polymer stent (Supraflex Cruz)** in all lesions.

If you implant in the same lesion more than 5 stents, please report only the first five.



This is the NON CULPRIT LESION PAGE for patients randomized to COMPLETE REVASCULARIZATION

Code Patient: 2001000001

Center: CENTRO 2

Random. Code:

*Segment

(in agreement with syntax score map)

*Type of lesion

☐ de novo

☐ instent restenosis

☐ stent thrombosis

☐ other

*Percent of stenosis (visual estimation, from 40% to 100%)

*Lesion length (mm)

*RVD (mm)

Please select any of the following characteristics (if present)

☐ ostial

☐ bifurcation

☐ severe calcifications

☐ severe tortuosity

*ACC/AHA classification

☐ A

☐ B1

☐ B2

☐ C

☐ not applicable

COMPLETE (#7005)

#	Tools	Value	Outcome
1	FFR		
2	QFR		
3	iFR		
4	DFR		
5	RFR		
6	cFFR		
7	other		

*Did you perform PCI?

☐ no

☐ yes

If revascularization strategy does not agree with randomization or functional assessment please clarify the reason

null

*Number of guidewires

*Predilatation

☐ yes

☐ no

*How many stent did you implant in this non-culprit lesion?

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☐ 0

*Did you implant Supraflex in the non culprit lesion?

☐ no

☐ yes

If you do not respect the randomization (e.g. treatment of non culprit lesion without functional evaluation) or functional result (e.g. treatment of non culprit lesion with negative functional result), you must clarify the reason.

Per protocol, you can use the tool for functional evaluation that you prefer. In addition, you are totally free to collect data with more than one tool.

THIS IS HIGHLY SUPPORTED !!!

If you collect angiographic projections, the corelab will calculate QFR values.



This is the NON CULPRIT LESION PAGE for patients randomized to ONLY CULPRIT REVASCULARIZATION

Code Patient: 2001000002

Center: CENTRO 2

Random. Code:

*Segment

(in agreement with syntax score map)

*Type of lesion

CULPRIT-ONLY (#7006)

☐ de novo

☐ instent restenosis

☐ stent thrombosis

☐ other

*Percent of stenosis (visual estimation, from 40% to 100%)

*Lesion length (mm)

*RVD (mm)

Please select any of the following characteristics (if present)

☐ ostial

☐ bifurcation

☐ severe calcifications

☐ severe tortuosity

*ACC/AHA classification

☐ A

☐ B1

☐ B2

☐ C

☐ not applicable

*Did you perform PCI?

☐ no

☐ yes

It is quite similar to the previous one.

Being the only culprit revascularization arm, the functional assessment MUST NOT BE PERFORMED.

If you treat this lesion, it is a protocol deviation. You must clarify the reason.

Code Patient: 2001000002

Center: CENTRO 2

*Creatinine (highest value) (mg/dl)

*Select the troponin type:

☐ I ☐ T

*Troponin I (peak) (ng/dl)

*Troponin T (peak) (ng/dl)

White blood cell (peak) (u/μL)

Neutrophil (first value) (u/μL)

Lymphocyte (first value) (u/μL)

Haemoglobin (lowest value) (g/dl)

Platelet (first value) (u/μL)

CK-MB (peak) (ng/dl)

Uric acid (mg/dl)

Cholesterol LDL (mg/dl)

Glycemia (value at discharge)

Protein (g/dl)

Albumin (g/dl)

This is the LABORATORY DATA PAGE

We ask only two mandatory values:

- Creatinine at peak: for contrast induced acute kidney injury
- Troponin at peak: for estimation of MI size

However, if you fill also other fields many substudies and analyses can be carried out, increasing the possibility to share with all investigators publications and papers!!



*Date of discharge

*How many nights in intensive care unit?

*How many nights in cardiology ward?

Please select the correct items:

- ☐ Discharged at home
- ☐ Transferred to other non-cardiology department
- ☐ Transferred to spoke hospital
- ☐ Transferred to cardiac rehabilitation unit
- ☐ Other

*Did you observe any major adverse events?

☐ no ☐ yes

*Left Ventricular Ejection Fraction (%)

*Was the SAQ completed?

☐ no ☐ yes

*Was the EQ-5D completed?

☐ no ☐ yes

*Was the SPPB performed?

☐ no ☐ yes

*Was the CFS performed?

☐ no ☐ yes

This page is the last one of the eCRF about INDEX HOSPITALIZATION

Per protocol, all procedures must be completed within the index hospitalization.

To perform the evaluation of frailty, quality of life and improvement overtime, we kindly ask to perform these 4 scales.

NOT MANDATORY, but highly appreciated!

The eCRF will automatically generate the page of the scale if you click «YES»

You will find them in the navigation menu !!!



Medication in use

- ☐ aspirin
- ☐ clopidogrel
- ☐ prasugrel
- ☐ ticagrelor
- ☐ vitamin k antagonist
- ☐ novel oral anticoagulant
- ☐ ACE-inhibitor or ARB
- ☐ beta-blocker
- ☐ calcium channel blocker
- ☐ diuretic
- ☐ statin
- ☐ ranolazine
- ☐ ivabradine
- ☐ nitrates
- ☐ oral antidiabetics
- ☐ insulin
- ☐ other

MEDICAL THERAPY at discharge

Please note that the protocol, in agreement with current evidences and consensus document, suggests a relatively short DAPT regimen!

We enroll older MI patients aged ≥ 75 years.

Age ≥ 75 years is one of the criteria for HBR (minor) according to recent consensus document.

If the patient show additional HBR criteria, please try to suggest one-month DAPT regimen.

It will be helpful to assess the safety of Supraflex Cruz with very short DAPT regimen.

*DAPT length suggested (months)

*Triple therapy suggested?

☐ no ☐ yes

*if yes, please specify the length (months)



FOLLOW-UP PAGE

This is the page for all follow-up visits (from 1 to 5 years)

*date of follow-up

*CCS:

☐ No angina

☐ I

☐ II

☐ III

☐ IV

☐ NA

*NYHA:

☐ No dyspnea

☐ I

☐ II

☐ III

☐ IV

☐ NA

*did the patient have any type of non-invasive ischemia testing?

☐ no

☐ yes

*Was the SAQ completed?

☐ no

☐ yes

*Was the EQ-5D completed?

☐ no

☐ yes

*Was the SPPB performed?

☐ no

☐ yes

*Was the CFS performed?

☐ no

☐ yes

*Cholesterol LDL was at target?

☐ no

☐ yes

*Blood pressure was well controlled?

☐ no

☐ yes

*Physical activity at home:

☐ none

☐ light

☐ moderate

☐ intensive

*Did you observe any major adverse event?

☒ no

☐ yes

Page without adverse event !!!

*date of follow-up

*CCS:

☐ No angina

☐ I

☐ II

☐ III

☐ IV

☐ NA

*NYHA:

☐ No dyspnea

☐ I

☐ II

☐ III

☐ IV

☐ NA

*did the patient have any type of non-invasive ischemia testing?

☐ no

☐ yes

*Was the SAQ completed?

☐ no

☐ yes

*Was the EQ-5D completed?

☐ no

☐ yes

*Was the SPPB performed?

☐ no

☐ yes

*Was the CFS performed?

☐ no

☐ yes

*Cholesterol LDL was at target?

☐ no

☐ yes

*Blood pressure was well controlled?

☐ no

☐ yes

*Physical activity at home:

☐ none

☐ light

☐ moderate

☐ intensive

*Did you observe any major adverse event?

☐ no

☒ yes

PLEASE IMMEDIATELY FILL THE ADVERSE EVENTS FORM FOR EACH SINGLE ADVERSE EVENT THAT YOU OBSERVED!

PLEASE COLLECT ANY INFORMATION AND SEND IT FOR CEC ADJUDICATION!

Page with adverse event !!!
Please, remember to collect source docs for
CEC adjudication of the adverse event.



*Is the patient still on aspirin? ☐ no ☐ yes

*Date of stop

*Reason of stop

*Is the patient still on P2Y12-receptor inhibitor? ☐ no ☐ yes

*Specify the P2Y12-receptor inhibitor

*Date of stop

*Reason of stop

Other medication in use

- ☐ vitamin k antagonist
- ☐ novel oral anticoagulant
- ☐ ACE-inhibitor or ARB
- ☐ beta-blocker
- ☐ calcium channel blocker
- ☐ diuretic
- ☐ statin
- ☐ ranolazine
- ☐ ivabradine
- ☐ nitrates
- ☐ oral antidiabetics
- ☐ insulin
- ☐ other

MEDICAL THERAPY at follow-up

**Please collect detailed information about DAPT regimen.
One of the most important substudy will be about stent
performance in this high bleeding and high ischemic risks
population.**

SERIOUS ADVERSE EVENT PAGE

*Did you observe any major adverse events? ☐ no ☐ yes

*Date

Please select type of major events

- ☐ death
- ☐ new myocardial infarction
- ☐ revascularization
- ☐ stent thrombosis
- ☐ stroke
- ☐ heart failure
- ☐ non fatal cardiac arrest
- ☐ new onset atrial fibrillation
- ☐ new coronary angiography
- ☐ bleeding complication
- ☐ rehospitalization for cardiac cause
- ☐ rehospitalization for non-cardiac cause
- ☐ other

If you choose other, please specify

FOR ANY OF THE ABOVE-MENTIONED ADVERSE EVENT, PLEASE COLLECT ANY INFORMATION AND SEND IT FOR CEC ADJUDICATION!

You must fill this page if one adverse event occurs during the follow-up.

We ask to collect source documentation about adverse event for CEC adjudication.

Send all source documentation to:
thefirestudy@gmail.com



If you are filling this page, the patient completed the study.

Please clarify:

*Date of last contact:

*The patient:

- ☐ Completed the 5-year follow-up
- ☐ Died
- ☐ Withdraw the consent
- ☐ Lost to follow-up
- ☐ Other

*If Died, date of death:

*If Other, please specify:

Please specify

This is the page that you must fill if the patient completed the study !!!

