



# eCathLab

## Reporting form for Hemodynamics and Interventional Angiography

**eCathLab** is the information system for the complete management of the procedures of hemodynamics and interventional angiography, that combines ease of use and speed of execution of the various procedures, automating and streamlining the work of administrative personnel and technicians, and providing clinicians with an ergonomic reporting environment perfectly integrated with PACS solution by Exprivia.

**eCathLab** is a software component of **eCardio** suite, developed by Exprivia for the computerization of the Cardiology and Cardiac Surgery services with the aim of providing a single platform capable of meeting the requirements of all ambulatory, instrumental and departmental specialist activities, through the use of advanced technologies and solutions.

**eCathLab** is perfectly integrated with the multimodal reporting workstation **MedStation** and with the other components of **e4cure** suites by Exprivia, and offers to the physician a complete reporting experience. Thanks to its ergonomics and effectiveness, **eCathLab** allows time saving for the benefit of a greater attention to the diagnostic investigation or to the interventional procedure. **eCathLab** has been designed following the guidelines of GISE so that the collected data are compatible with its dataset.

## Features

**eCathLab** combines into a single reporting environment the needs of different specialties through the management of a single folder, in which the compilation of information in the various specialized fields and in various diagnostic and clinical steps (anamnesis, registration and execution of procedures, reporting) is performed by several professionals

(administrative staff, nurses, sanitary technicians and doctors) which refer to the cardiology unit. All patient information is shared among the operators in a single computerized management tool. The intervention phases are divided according to the normal flow of the intervention itself: pre-examination assessment, recording of the procedure and compilation of the report. Each phase is traced and is supported by structured documents, which allow the inclusion of free text notes, to provide maximum flexibility.

The screenshot shows a software application window titled "23/05/2016 - Cardio-EMO-Ref - Angiografia". The interface includes a toolbar with icons for file operations, a status bar showing "Bozza" (Draft), "NON FIRMATO" (Not Signed), and "Esam.: EXPRIVIAAL", and a date/time field "Data esame 23/05/2016". A right-click context menu is open over the status bar. Below the toolbar, there are tabs: "DATI GENERALI", "REGISTRAZIONE PROCEDURA", "REFERATO", and "STEMI". The "REGISTRAZIONE PROCEDURA" tab is active, displaying a table of event logs:

| Elemento         | Data       | Ora      | Descrizione                                                   | Operatori |
|------------------|------------|----------|---------------------------------------------------------------|-----------|
| Operatore        | 30/05/2016 | 10:05:58 | Medico 1° operatore                                           |           |
| Operatore        | 30/05/2016 | 10:06:18 | Infermiere di sala                                            |           |
| Operatore        | 30/05/2016 | 10:06:28 | Tecnico radiologa                                             |           |
| Evento           | 30/05/2016 | 10:06:38 | ingresso in sala                                              |           |
| Parametri Vitali | 30/05/2016 | 10:07:03 | FC:54 PA:120/60 SPO2:100                                      |           |
| Accesso          | 30/05/2016 | 10:08:10 | A. femorale dx                                                |           |
| Materiale        | 30/05/2016 | 10:08:53 | Introduttore radiale ENGAGE - 6 Fr x 12 cm + Kit - (ST.JUDE)  |           |
| Procedura        | 30/05/2016 | 10:09:09 | Angioplastica coronarica                                      |           |
| Lesione          | 30/05/2016 | 10:09:44 | De novo su ramo discendente posteriore della coronaria destra |           |
| Device           | 30/05/2016 | 10:08:53 | Introduttore radiale ENGAGE - 6 Fr x 12 cm + Kit - (ST.JUDE)  |           |

On the right side, there is a sidebar with links for "Operatori", "Eventi", "Accesso", "Procedura", "Materiale", "Lesione", "Par. vitali", "Complicanze", "Farmaco", and "Commento". Below the table, there is a detailed view of the lesion record:

|                       |                                                                         |                |                   |
|-----------------------|-------------------------------------------------------------------------|----------------|-------------------|
| Lesione               | De novo su ramo discendente posteriore della coronaria destra [DP(CDx)] | Numero lesione | 1                 |
| Data e ora            | 30/05/2016   10 : 09 : 44                                               | Procedura      | IVUS FFR OCT PTCA |
| Descrizione lesione   | Stenosi                                                                 |                |                   |
| Descrizione procedura |                                                                         |                |                   |
| Note                  |                                                                         |                |                   |
| DEVICE utilizzati     | + Introduttore radiale ENGAGE - 6 Fr x 12 cm + Kit - (ST.JUDE)          |                |                   |
| DETTAGLIO LESIONE     |                                                                         |                |                   |
| Ramo                  | vaso native                                                             |                |                   |
| Segmento              | ramo discendente posteriore della coronaria destra [DP(CDx)]            |                |                   |
| Tipo lesione          | De novo                                                                 |                |                   |
| Ostiale               | <input type="radio"/> no <input type="radio"/> sì                       |                |                   |
|                       | <input type="checkbox"/> Lesione biforcata                              |                |                   |

At the bottom, there is a section for "Materiali prestazioni".



### eCathLab has the following components:

- form for close medical history and pre-procedure evaluation;
- form for intervention diary;
- reporting form;
- specific module for tracking of post-procedure complications;
- form for stock management with devices traceability.

23/05/2016 - Cardio-EMO-Ref - Angiografia

Stato ... Bozza NON FIRMATO Esam.: EXPRIVIAAL Exprivia Amministratore | Data esame: 23/05/2016 | ✓ ✓

**DATI GENERALI REGISTRAZIONE PROCEDURA REFERTO STEMI**

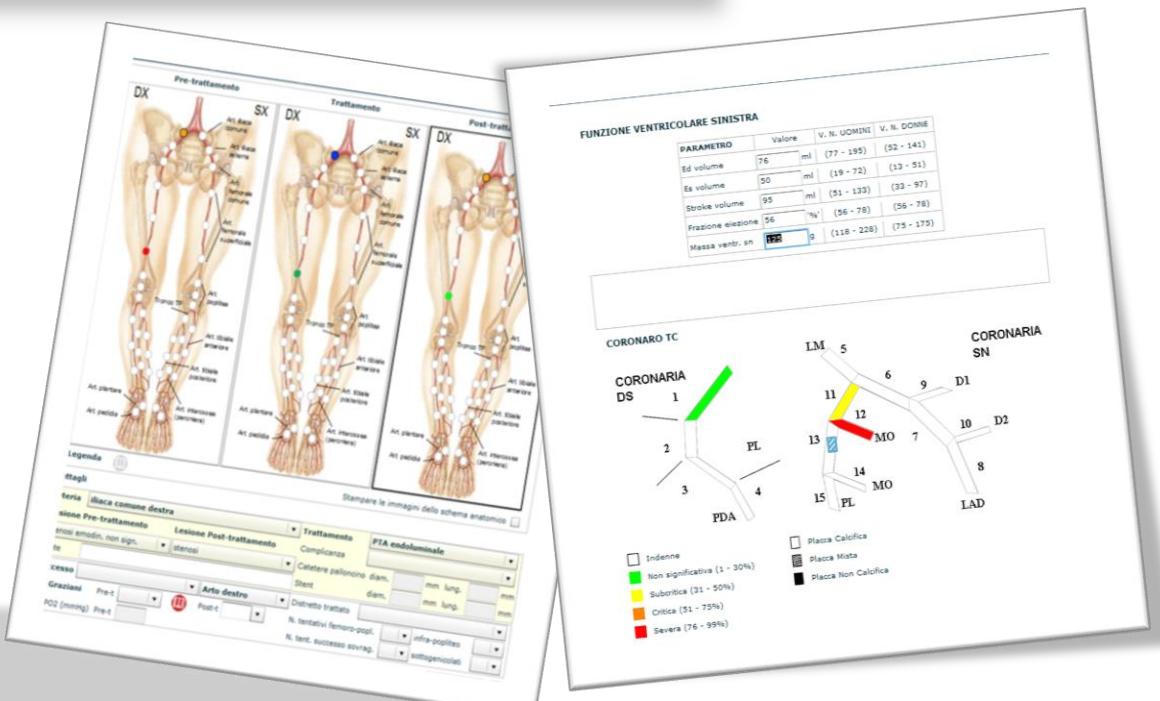
**Coronarografia** Altri Esami diagnostici Conclusioni

Studio bypass si | Malattia si | Descrizione AMIS: pervio e ben funzionante, non evidenza di restenosi a carico dello stent precedentemente impiantato.

|               |                                                                                                                          |
|---------------|--------------------------------------------------------------------------------------------------------------------------|
| Tronco comune | Corto e calcifico con stenosi critica e distale                                                                          |
| Iva           | Vaso calcifico con stenosi sud-occlusiva prossimale, rivascolarizzato da AMIS dopo                                       |
| Circonflessa  | Vaso con ottimo risultato di precedente POBA su Mo e indenne da stenosi critiche (assenza di flusso di lavaggio da AMID) |
| Coronaria Dx  | Vaso dominante con stenosi critica subocclusiva al tratto medio                                                          |

Esito della coronarografia: Lesioni intermedie 50-70%

The flexibility of the design tools provided by Exprivia, allows to increase the specificity of models oriented to a pathological form, providing an implementation detail that follows the clinical needs with maximum adherence. Graphical support coupled with representation of intervention phases (pre-, procedure and post-) allows an accurate tracking of operations, while preserving the needs of visual and compiling immediacy.



All the functionalities in support of the service, such as CUP and document repository integration, digital signature, HL7 and DICOM integration and warehouse integration are guaranteed. Thanks to the graphic pattern, it is easier to computerize and report vascular surgery.

The products: eArchive, eLifeCare, eRis/eVisit, eViewer, eWard, MedStation are CE 0476 (93/42 / EEC) certified Medical Devices of class IIA. The complete list of certified model versions can be obtained by contacting Exprivia.