

# 2Care - Software for complex team management dedicated to Vascular Access

**Target:** Complete management of the organization and team activities

**Benefits:** Quality and data security, quality of treatment services for patients undergoing vascular access

**Technology:** Microsoft NT, SQL Server, Visual Studio .NET

## NEEDS

The reality of a dedicated vascular access team involves multiple activities whose implementation, outside of a structured management model, makes the organization confused and with risk of errors. It is possible to have loss or failure to record data and information from the time of the implantation request until the removal of the device. Therefore, the risk is an imperfect use of resources and the impossibility of obtaining data related to clinical activity in order to improve the quality of the treatments provided.

## TARGETS

Simplified system registration and accessibility, optimized work control, scheduling of team operations. Communication and better interaction between team and users. Control of the operating framework, consistency between the plant request and the feasibility of the same. Storage and control of patient data even with access to corporate databases. Recording of events and their traceability, accessibility to statistical data sheets, functional control of complications and their prevention. Maintenance of contacts with the implanted patient by programmed follow-up.

Predisposition to the estimate of the total treatment cost considering all the materials used for the plant as well as its management.

The program directs the choice towards the economic enhancement of the chosen path.

Presentation of implementable theme dashboards that highlight the criticalities and management strengths.

## METHOD

Use of a management software designed according to the needs and peculiarities of the team that guarantees digitalization and traceability data, programming of the device to be implanted, quality indicators of the care activity expressed with specific statistical tools.

## RESULTS

Cohesive, organized, programmed and traceable activity. Fair and functional work planning and distribution in line with the needs of the team and users. Possibility of evaluating the results and performance of the team and single operators in order to improve organizational and/or technical gaps and to collect the training users needs. Recognition of quality indicators of the activity carried out.

# Features and detail

## PURPOSE

2Care is the WEB management software that guides the clinician in the 360-degree management of Vascular Access with the real-time collection of analytical data, useful for the VA Team activities and patient care.

2Care provides for the tabular management of information in order to allow the correlated data study.

The WEB interface is equipped with multiple links and allows the use of information in a fluid and dynamic way.

## OPERATING MODES

### *REQUEST*

1. Placement request with customizable check list aimed to collecting the clinical and necessary information for the device's choice
2. Integration with company management database for access to patient records, laboratory tests and/or other resources
3. Attachments management
4. Plant management carried out in other health facilities

### *IMPLANTATION PHASE*

1. Scheduling activities
2. Informed agreement
3. Entry of data relating to the implantation carried out
  - Plant site
  - Predictive, introduced and external measure record
  - Attempts and procedure execution time
  - Catheter data
  - Lot number
  - Catheter tip location
  - Vessel diameter and type
  - Length External Catheter
  - Implantation technique

- Position control techniques
  - ...
4. Registration of complications during the implantation
  5. Direct registration of the first dressing in the post-implantation end

#### *POST PLACEMENT PHASE*

1. Monitoring for complications post implantation

- Thrombotic
- Occlusive
- Device break
- Infectious
- Dislocations

2. Dressings

- Visual Exit Site Score
- Dressing materials management
- Acquisition and comparison of exit site images

3. Consulting

- Requests from the ward staff
- Reporting by the VA team staff

4. Scheduled check-ups

5. Specialist reports

6. Device Removal Registration

#### *OTHER CHARACTERISTICS*

1. Dynamic information dashboard customized according to the role

2. Clinical files with interactive links to the contents

3. Calendar

- Programming of activities with drag & drop system
- Status-based color-code activity view
- Management of customized notes for teams and department operators

4. Attachments management

5. Connection for the return of data in the company medical record or other study purposes

6. Possibility of inserting connection links with recognized company protocols and/or guidelines

7. Favorite programs management
8. Multilingual management
9. SMS/email/internal messaging management to users and operators

#### STATISTICS AND REPORTING

1. Statistical extraction with customizable filters for tabular representations and graphic
  - Implantation analysis
  - Dressings Analysis / consultations
  - Average catheter days
  - Number and types of catheters inserted
  - Number of occlusive, thrombotic, infectious complications, etc.
  - Number of implants by catheters type
  - Types of vessels
  - Implantation side
  - Tip position
  - Primary device malpositions
  - Multiple implantations
  - Current state (failed, not removed, removed)
  - Incidence of use in the various departments or services of the institution
  - Average days of device stay per department
  - Incidence of wrong implantations by operator
  - Incidence of removal reasons
  - Materials management
  - ...

#### STUDY CASES

2Care is in use by the following companies

- IEO - European Oncological Institute – Milan - ITALY
- IFO - National Cancer Institute Regina Elena – Rome - ITALY
- San Carlo Regional Hospital – Potenza - ITALY
- APSS-TN - Hospital S. Maria del Carmine – Rovereto - ITALY
- USL Umbria 1 - Città di Castello Hospital - ITALY
- AOSP – Perugia - ITALY
- ASST – Mantova - ITALY
- National Cancer Institute IRCCS G. Pascale Foundation - Naples - ITALY
- CRO – Aviano - ITALY

- ASST Pope John XXIII – Bergamo - ITALY
- AUO - University Hospital – Cagliari - ITALY

## INFRASTRUCTURE REQUIRED

### *SERVER SIDE*

Dedicated Windows server provided by the company Data Processing Center that manages the data base and web site as well

### *CLIENT SIDE*

Run via the latest generation web browser