DIANE | ICU
A BOW MEDICAL brand
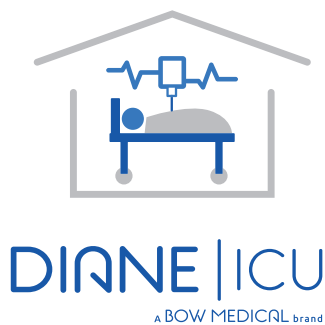
Manage with efficiency
your intensive care unit.

BOW MEDICAL
SOFTWARE

Patients in intensive care, critical or continuous care units are generating a considerable amount of data due to the complexity of their treatment.

Several parameters influence the nature of these data such as age, morphology, diseases contracted. For each patient, approximately 8000 data, are generated daily.

The implementation of a a dedicated Clinical Information System (CIS) within a critical care structure is the appropriate response to ensure the collect of the medical information, the traceability of the prescription, the confidentiality duties, the security of the medical record and the optimization of the patient care.

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DIANE ICU allows data to be shared by all the health care providers within the same intensive care unit through a collaborative space where everyone, depending on their level of accreditation, will identify or file useful information for the care of the patient.

To facilitate the responsiveness of the health careproviders.

DIANE ICU offers a comprehensive visualization of the intensive care unit. The patient's medical record is done with a simple click from the dashboard, at any time and from all the access points of the intensive care unit. The data resumption is done without any copy and is particularly useful when generating reports

Continuous care survey.

DIANE ICU is based on an unique database, common for anesthesia and critical care. The continuity of the data is ensured from the critical care to the anesthesia charting up to the care plan file and vice versa

In order to maximize security and to anticipate potential network disruption, DIANE ICU's architecture has been designed to operate in disconnected mode from its database, ensuring the reliability of the support. The continuity of care is ensured with Patient Record accessible from several workstations simultaneously as long as the local network is operational.

Improving the patient care.

DIANE ICU unloads the caregivers from time consuming administrative tasks helping them to focus on their care plan.

The software ensure the automatic management of the liquidian scale, of the dilution management, and billing. Towards a total dematerialization of the charting sheet.

Bow Medical has developed a large library of drivers to connect Medical Devices used in critical care units. All the Data coming from monitors, respirators, infusion pumps, analyzers blood gases, CECs, etc. are collected in real-time, then structured and displayed in different forms. At that time more than 410 equipments are supported.
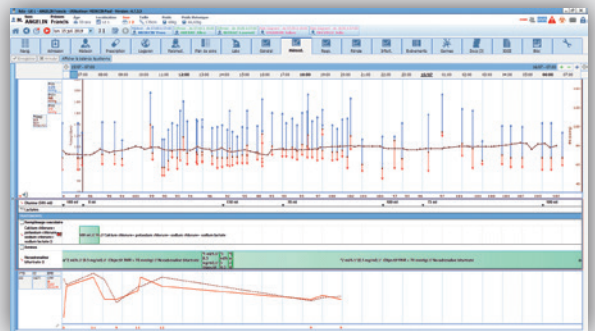

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Improve the patient monitoring efficiency.

All laboratory results are integrated automatically in DIANE ICU..

The overall results can be displayed graphically with curves and time scale modulation. The caregiver will analyze within the same sheet the data from different sources (laboratory, medical devices, drugs, ...) in order to evaluate the overall patient health conditions.
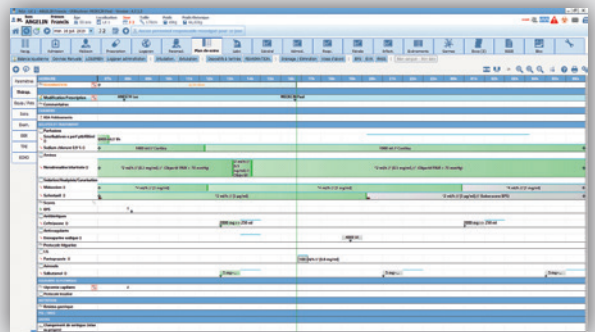

A customizable care plan.

Each specialty ward can model its workspace according to their specific needs allowing a quick start with the system.
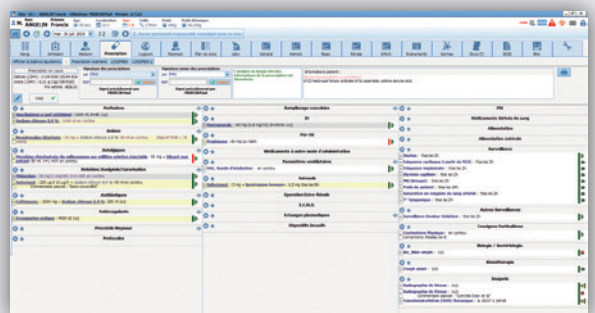
To further secure the care plan, especially when the actual occurrence requires to be modified, a dedicated rule's engine allows the caregiver to document caregiver. This documentation reflects the reality and offers reliable medical track record.

A complete prescription tool.

DIANE ICU prescription engine integrates that fits the the caregiver's need of reactivity and efficiency.

Based on the intensive care unit protocols, the electronic prescription reduces the risk of manual errors like (overdoses, contraindications, drug interactions, reading error...). On the other hand, the display on a single screen provides a global view regarding the patient care and will improve the prescriber's reactivity.

The body diagramis
one of the important evolutionsof the version of DIANE in 4.7.5

The body diagram gives a three-dimensional visualization of the patient. It allows the graphic representation of the treatments carried out on the different parts of the body. Applying a new care plan and associating it with a dedicated protocol, is accomplished in just a few clicks. Updates to the care plan are done automatically, and all the information entered in this module is systematically transferred to it.

Body Diagram in 3D

(A)

360° Manipulation of the Body Diagram

The right-hand windows symbolize a simplified view of the patient from the front or back. A click on an area where the care will be applied and it automatically generates a zoom on the body part concerned, highlighting the cares in progress in the zone.
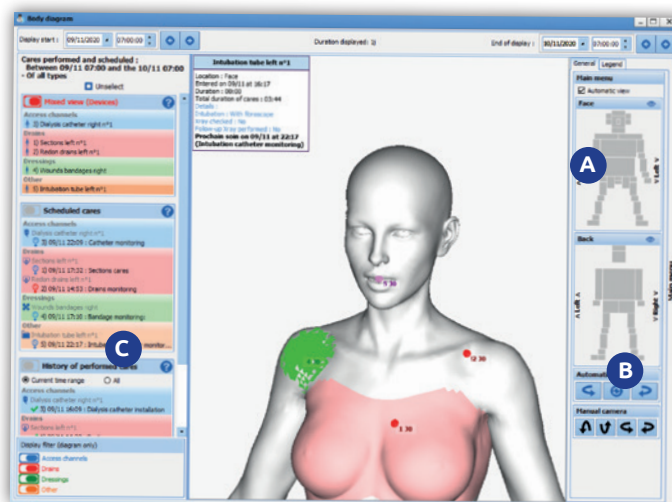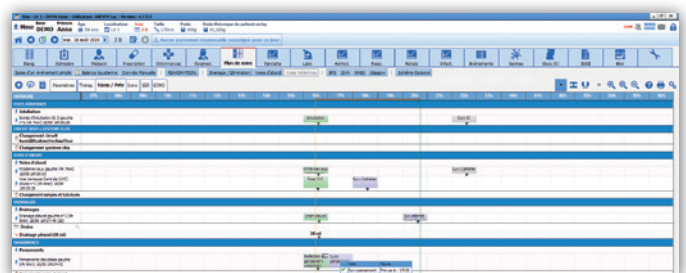
(C)

(B)

In addition to the ZOOM function, and to simplify the 3D manipulation of the body diagram, specific «type, camera roll» buttons have been added allowing the 3D rotation of the model.

On the left side of the screen you can select and display the care according to the following criteria:
• **Future scheduled care plan**
• **Overdue plan care**
• **History of the care provided**
• **History of planned care**

4 types of care are available:
• **Tract care in blue**
• **Drainage type care in red**
• **Dressing care in green**
• **Other types of care in orange**

To add new care to the body diagram, simply select the area with a simple mouse click, choose the care item with the possibility of designing the area where the treatment is to be applied. Once validated, the care entry window will allow you to define the protocol associated with this treatment.

Example of the application of a dressing:

The date of care (planning), the associated score if available, the type of dressing, and the associated monitoring protocol.

Once the protocol has been defined and validated, the care plan is automatically updated, making it possible to view the care performed and the planning of the next care.
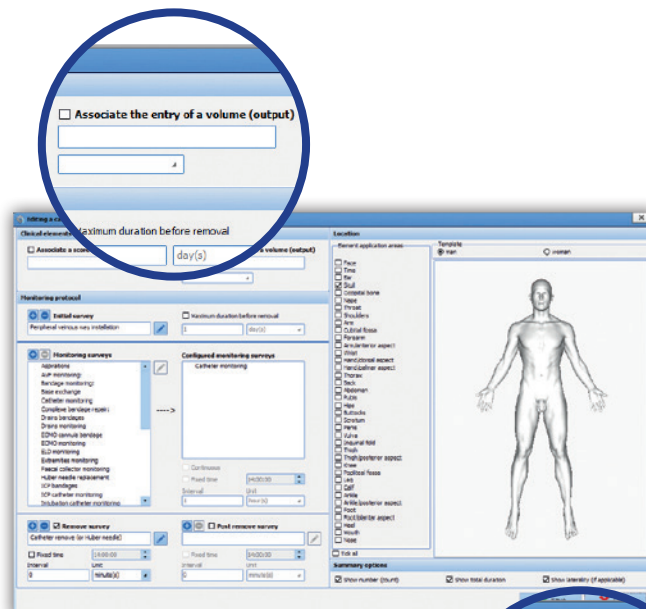
Addition of a new category in the DIANE configuration tool «elements of care»

This module allows the configuration of the care according to the four types of care that have been pre-established.

The four types of care available can be found in the body diagram (tract, dressing, drainage, and others).

The care element edition window will open and allow you to define the area where the care will be applied, these areas can be selected by clicking on the concerned part, it is also possible to define and consider the gender (woman/man) concerning the care applied.

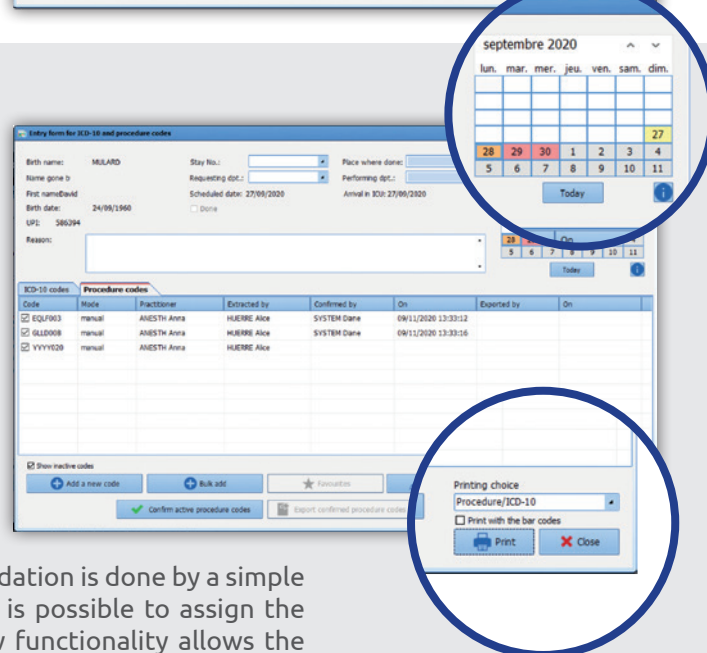In the left window, you can associate a score, associate a form if it exists, or create it...

Evolution of the quotation module for Procedure/ICD-10

The Procedure/ICD-10 module is enhanced with a graphical user interface for better readability and exploitation of codes

It is now possible to simply visualize whether the patient's file contains Procedure/ICD-10 codes.

Via calendar:
• **In red the days non-scanned or without code**
• **In orange the days scanned and the presence of non-exported codes**
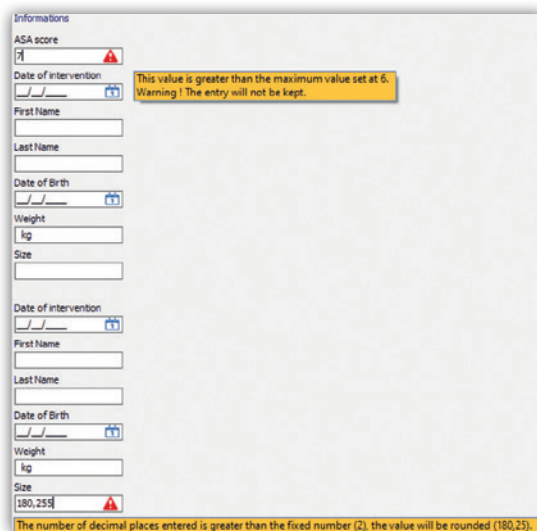• **In green all codes of the day that have been exported**

After the selection of the Procedure/ICD-10 codes, the validation is done by a simple click on the button (Validate Procedure/ICD-10 codes). It is possible to assign the practitioner associated with the act to the side. This new functionality allows the traceability of the export of quotations (Who? When?).

A configuration key has been added, to define which type of code should be displayed when the module is open.

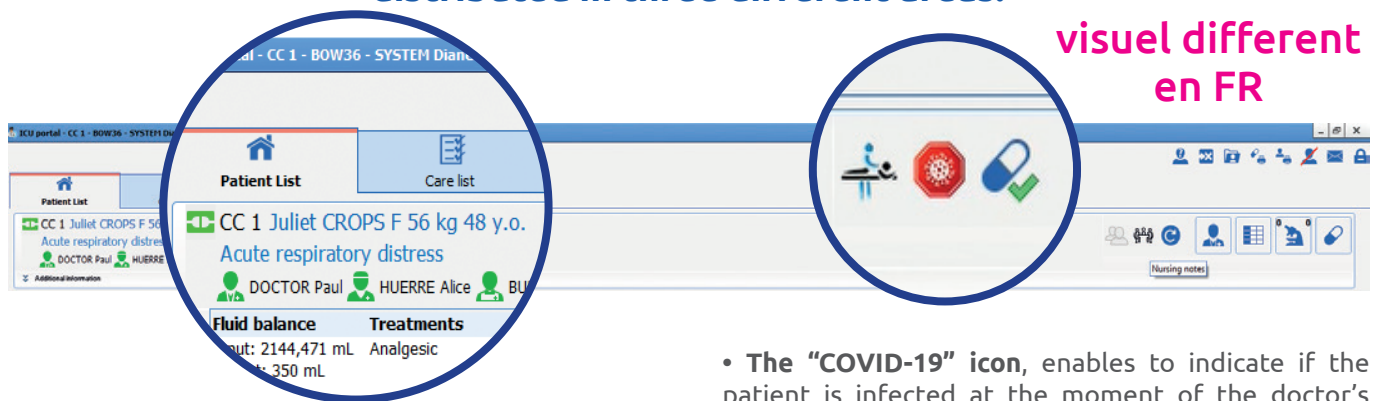## Consistency control in single input fields

To simplify and avoid input errors in the fields, it is now possible to define value ranges between a minimum and a maximum value. If the entered value is outside the predefined range, the value will be rejected and will not be retained.

This feature has been extended for the decimal type fields requiring precision with a configurable number of digits after and before the decimal point. This feature also applies to the control consistency check.

Patient Portal Evolution
The patient portal is enhanced with new functionalities distributed in three different areas.

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On the left side, you can find all the patient's information, the reason for hospitalization and the health care team in charge of the patient.
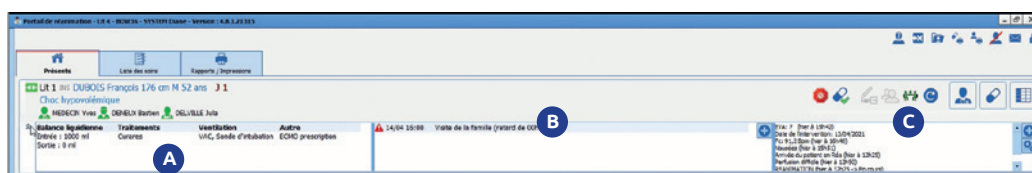
On the right, three new icons have been added:

• **The Physiotherapy icon**, to indicate if the patient is under physiotherapy treatment.

• **The "COVID-19" icon**, enables to indicate if the patient is infected at the moment of the doctor's consultation.
• **The transmission icon** indicating if a medical transmission is in progress (materialized by a green colour change).

Hovering the mouse over this icon, allows you to see the date and the name of the person who initiated the action (A) (B) (C).

Double-click on the "Additional Information" button unfolds a window giving you access to the three new information areas.

A On the left, we find the following information:
• **Fluid balance according to the last 24 hours of the current or previous day in ICU.**
• **Current treatments**
• **Ventilation**
• **Advanced entries**

B In the middle section, there is a free data entry zone that has the possibility of generating alerts.

C The right-hand side allows the visualisation of specific data to be monitored such as:
• **The care**
• **Parameters to be monitored**
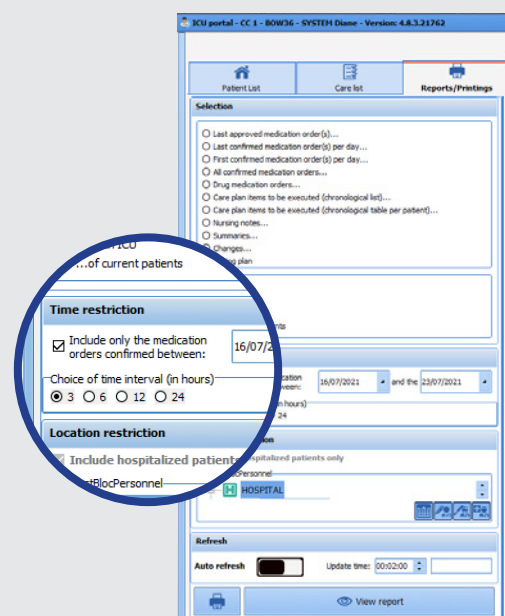• **Events**
• **Stopwatches**

Retrieval of Prescription

DIANE enables to print the retrieval of prescription from two different places:

Either from the prescription tab by clicking on the print button, or from the print report tab.

The user can choose a time range according to the following time slots: 3,6,9,12 or 24 hours.

The printing criteria can be done for a specific patient, a department, an intensive care unit, or all the patients managed by the caregiver.
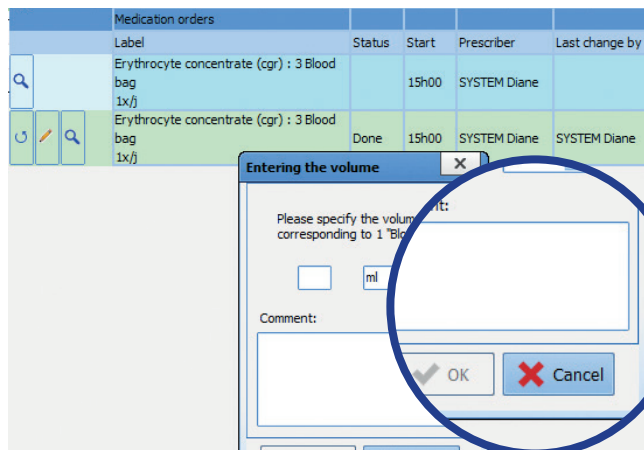
The Blood Bag

Version 4.8 allows a dosage volume to be associated with a prescribed blood bag. This option can be activated for each drug in the dosage configuration window.

The user will be able to enter the volume of the dosage associated with the base when making the prescription.

The information entered for each base is visible from the care plan.

The care list

The care list is accessible from the cockpit or directly from the patient's file.

This area ❶ allows you to filter the display of the care list, according to several selection criteria.

❶ The Patients
By default, the list of patients on the screen is the patients of the logged-in caregiver. However, it is possible to filter the care list by different criteria.

❷ The types of care
The caregiver can choose the best suitable option for the filter, by checking the boxes of the care and/or status.

❸ Options of care: Equipment/ Dressings, staff planning, prescriptions. Categories of status: All cares, late or urgent.
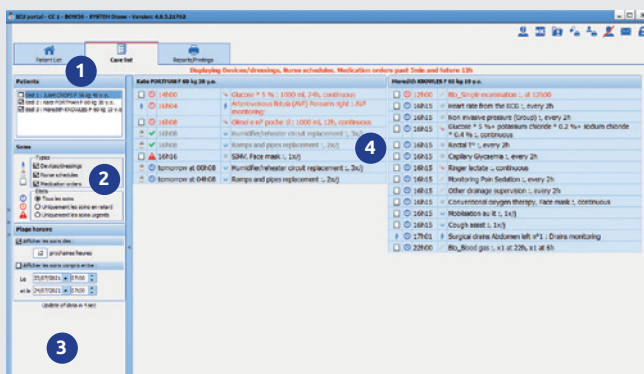
Time range
❹ Allows the display of care in two ways:
The specific duration of care or, between two dates, allowing the view of preview care, if this later took place.potentially on an earlier date.

In the case of ongoing recurrent care, the system will show the next immediate care of the day.
To facilitate the display of treatments, several iconographies have been developed for better visibility.

It is possible to validate a treatment directly from this window if it has been opened from the patient file.
A click on the care schedule will display the patient's record along with the treatment list. From this later, it is possible to validate and start the care. Once the care is validated, the system will update the colour of the icon.

Once a treatment has been started (e.g. infusion) it will no longer be possible to modify its flow rate from the treatment list. The validation of treatment leads to a change of colouring but does not erase it, because, in case of a mistake, we can modify it.
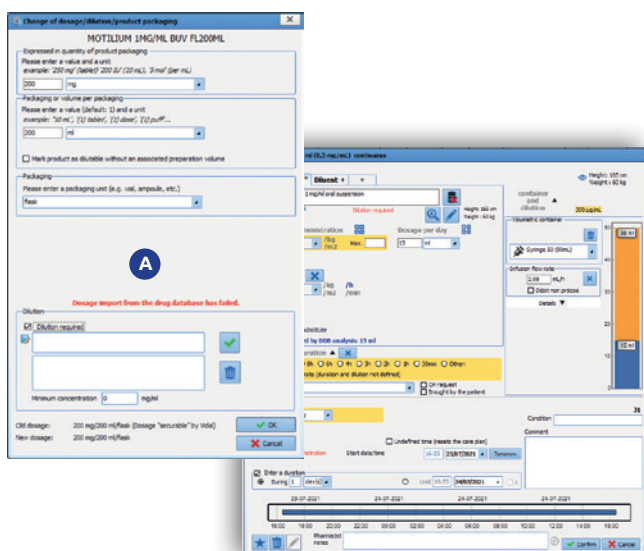
Dilution Required

In this version 4.8, it is possible to make the dilution required at the moment of the prescription.

This new option is configured from the the formulary. This Ⓐ section allows you to :

• **Determine if the product must be dilutable**
• **Configure the associated diluent(s) and the minimum**

If the product is automatically dilutable, but without a configured diluent, a warning message will be generated during prescription.

The diluent(s) will be automatically visible in the product tab when prescribing.

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