

## Monitoring - Integrated Medical Devices

- Monitoring centers: GE MEDICAL DEVICE (CareScape), DRAEGER (Infinity), MINDRAY, NIHONKOHDEN (QP993PK), PHILIPS (IntelliVue), SPACELABS (UltraView)
- Infusion Docking Station: ALARIS (Asena), FRESenius (Agila), BRAUN (SpaceCom)
- Ventilators: ACUTRONIC (Fabian), CAREFUSION (BearCube750), DRAEGER (Evita, Babylog), HEINEN LOWENSTEIN (Leoni), MAQUET (Servol)
- Analyzers of the department: BUYER (RapidPoint400), RADIOMETER (ABL), GEPA (PathFast)
- Incubators: ATOM (V85, V2200), DRAEGER (Caleo, Isolette)
- Oximeters: CRITICARE, OXYPLETH (PulseOximeter)
- Therapy preparation robot: HEALT ROBOTICS – IVSTATION
- ECMO (ExtraCorporeal Membrane oxygenation): MAQUET - CARDIOHELP

## References:

- Maior General Hospital "Mangiagalli and Regina Elena" - IRCCS Public Foundation (Milan),
- Hospital Agency of Lecco - "A. Manzoni "(Lecco),
- Hospital Poliambulanza Brescia (Brescia),
- Health Agency ULSS 9 of the Veneto Region - "S. Maria Ca' Foncello" (Treviso),
- University Hospital "S. Anna" (Ferrara),
- Bari Health Agency - "Hospital di Venere"(Bari Carbonara),
- General Hospital Consortium of Bari (Bari),
- Ecclesiastical Regional General Hospital "F. Miulli" (Acquaviva delle Fonti - Bari),
- IRCCS "Casa Sollievo della Sofferenza" (San Giovanni Rotondo - FG),
- Hospital "La Madonnina" (Bari),
- Hospitals of Nyíregyháza, Szolnok, Fehérgyarmati (Hungary),
- Integration System of the Department of Neonatology and UOOO TIN with Health and Social I.S. of Lombardy Region.

# NeoCare



Assistance and care for Women, Mother and Child

Assistance et soin pour la Femme, la Maman et l'Enfant

Betreuung und Pflege für Frauen, Mütter und Kinder

Assistenza e cura per la Donna, la Mamma ed il Bambino

Asistencia y cuidados para la Mujer, La Mamá y el Bebe



**Integrated software system for I, II and III level neonatology divisions: Birth centres, Pathological Newborn Infant centres and Intensive Care centres**

NeoCare is a trademark



For further information contact our regional representative

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**NeoCare** is a software system classified as **Medical Device** (registered in the Directory of Medical Devices of Italian Ministry of Health with ID 1242318), developed for the automation of nursery unit and NICU (Neonatal Intensive Care Unit), characterized by the presence of medical and nursing expertise and equipment necessary to assist the care of newborn, sick, and premature babies.

It is an application solution that consists of an integrated suite of functional modules:

**Specialised EHR** handles the information of mother pregnancy, parent history, diagnostic and therapeutic interventions, type of admission and outpatient visits and newborn growth chart and percentiles. It provides automatic production of hospital discharge card, department documents, DRG encoding, informed consent, statistics on the activity of the department. It introduces a common department language thanks to a customizable classification of the most important clinical information. It allows recording user authorization profiles and the ownership of each information unit included in the medical record.

**Medical Clinic and Follow-up** allows you to manage appointments (also multi-agenda) for outpatient visits and follow-up both medical and nursing of those infants that require a service that goes beyond the hospital stay (it fixes appointments, records the data on the clinical examination performed during the visit and the results of the visits, displays graphs of curves and growth rate).

**Clinical Diary** implements a care model characterized by programming - preparation - implementation of clinical interventions. The physician schedules interventions; these are automatically recorded in the Nursing sheet. All the data of assistance are also recorded, including consulting, medical history, educational interventions, monitoring, examinations performed by the doctor.

**Therapy** records the details of the planning of therapies through the use of therapeutic protocols that verify the accuracy of data entered by the physician: minimum-maximum dose check, calculation of volumes, dilution and speed, control of administering type and check of patient-therapy-dose.

In the case of interfacing with the infusion pumps (see also Monitoring), Therapy is able to check that all the parameters set on the pump are in accordance with therapy prescriptions. Similarly, the module implements the flow of request, control, and administering of blood products.

**Nursing Sheet** allows you to record the information collected daily by the nursing staff, ie data about the medical procedures, therapy, the various nursing procedures performed, the parameters that are periodically measured by the electro-medical equipment placed at the bed of the baby, feeding, consultancy

and diagnostic interventions to be performed; automatically calculates synthesis on nursing of the day: total daily samples, total number of meals, breast milk quantity, total fluids administered, water ratio, etc..

**Monitoring** meets the complex needs of NICU and PICU related to the unified and integrated management with other EHR data and numerous and heterogeneous data collected by electro-medical placed beside the baby's bed. It acquires physiological parameters detected by ventilators, oximeters, incubators, multiparameter monitors, infusion pumps, and any other electro-medical device prepared to communicate with a PC with a communication protocol. The management of monitoring data on the client allows the display of the monitored parameters and the automatic registration in nursing EHR of physiologists parameters detected by monitors and other electro-medical instruments. These must be connected via the Connection at the bed (physical connection - wiring) with NeoCare in order to allow the management of the signals detected by the biomedical devices; the biomedical devices are grouped for each type of protocol (Driver for connecting NeoCare to biomedical devices), in order to allow the vital signal representation.

**HIS and HAIS Integration** allows you to integrate the steps of Admission, Discharge and Transfer of NeoCare with those of other Information Systems (Hospital I.S. or Health Agency I.S.). It realizes both native integration between applications, and HL7 standard type integration. Another important feature is the integration with LIS/RIS, Advices and Order Entry that allows the management of the planning, the request and the results related to the laboratory and the radiology tests.

**Additional modules:** Nutritional records all data collected by nutritional calculation systems related to the parenteral nutrition and the enteral feeding program, in order to assess the patient's growth compared to the administered nutrients (effectiveness of enteral and / or parenteral intake for patients). Neonatal jaundice Monitoring implements the protocol for evaluating the risk of jaundice according to international protocols, highlighting the risk at discharge, indications for phototherapy and for exchange transfusion. Statistics: technical assistance includes the configuration of new statistics based on user needs. Communication with parents enables communication between the physician and the parents: using login and password, parents can know, list of issues, latest therapies and examinations, trend of the child's growth and its curves, infant feeding of their child. In the doctor-parent interview section there are all information communicated to parents by health professionals, including educational interventions.