antari

WHAT IS antari?

antari is an e-Health software solution that blends conventional healthcare practices with remote medical practices. It also includes organizational aspects such as resource tracking and management, healthcare planning and appointment management.

In the telemedicine field *antari* enables remote diagnoses to be carried out by sharing and managing clinical information in a swift and intuitive way, retaining the principal working methods of conventional medicine.

In environments lacking healthcare ICT solutions *antari* offers a set of telemedicine and traditional-medicine tools.

antari also offers specialized telemedicine health services in environments with few specialists on hand. Using *antari* , a healthcare professional can plan appointments and carry them out with various specialists. This not only provides the local population with quality health services but also avoids unnecessary journeys and maximizes the professional's productivity. *antari* enables sessions of this type to be suitably planned by defining the relations between different centers, identifying beneficiaries and medical service providers and also the conditions under which these services are to be rendered, including the healthcare timetable.

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INTEGRATION CAPACITIES

In the e-Health market *antari* is an integral solution offering a complete set of tools for organizations lacking any healthcare ICT solutions. However it is also apt for organizations who have these needs partially covered, such as those that already have an electronic health record system or organizations who simply want to phase in telemedicine as one more arrow in their quiver. Here is where the system's ease of integration with third-party systems comes into its own. *antari's* integration capacity is based on its modular design and the use of international interoperability standards like HL7, the exchanging of medical images (DICOM v3.0) and standardized coding (e.g. codes CIE 9 MC/CIAP2).

As a teleconsultation option, *antari* can be integrated with all types of medical equipment and devices with a video output. Its groundbreaking digital-medical-image capture, processing and distribution system allows the medical image to be stored in a PACS or even appended to the teleconsultation patient's EHR. *antari* also integrates perfectly with any medical equipment using medical image display software for Windows in the radiology field *antari* integrates with all types of DICOM modalities.

CLINICAL PROCESSES SUPPORTED

- Planned real time Teleconsultations :
- Store & forward sessions
- Traditional consultations

HOW *antari* WORKS

Through the **Patient** module *antari* allows users to add, remove or change citizens' administrative data to facilitate access to advanced healthcare services. Everybody registered on the system will have an electronic health record containing his or her lifetime health information and events.

The **Healthcare Planning** module manages the network of centers. Based on a powerful user interface, this module seeks a two fold objective: firstly to manage the resources and secondly to manage the relations between healthcare centers. Working from a hierarchical information structure, *antari* offers the center's network administrators a powerful consultation and inventory management tool available at all levels (healthcare center, municipality, province, region or nation). This enables managers to pinpoint shortfalls and room for improvement in the healthcare service.

Based on the relations defined in the healthcare planning module, **appointments** management offers healthcare professionals the chance to plan traditional consultation appointments, teleconsultations or non-real-time diagnoses.

The **Consultation** component is based on a complete agenda of planned appointments, from which healthcare professionals can make consultations and teleconsultations in a swift and intuitive way. Through the consultation component the professionals gain online access to the patient's EHR from the agenda and also from the videoconference system itself. During a teleconsultation healthcare professionals and specialist doctors can make online diagnoses based on different types of tests, such as vital signs monitoring tests and in general any image-based technique. Specialists can also store the retransmitted medical image in DICOM format, in the PACS or even append it to the patients' EHR.

For the management of radiological processes *antari* also has a Radiology Information System (**RIS**) component. It integrates CR, DR, MR and CT modalities. *antari's* RIS is integrated with its own PACS or any third-party PACS compatible with DICOM v3.0, and also manages the agendas of the radiology modalities (Modality Worklist), sends on the worklist of each modality, manages the image received from the modality and distributes images among the radiology stations for their review or report writing.

Finally the security of the *antari* network is managed through an Administration Console. The administrator will be able to send control commands to the stations, carry out various configuration tasks and apply different security policies. The console also has a complete statistics system that pools the most important indices and indicators relating to the processes supported by the system.