RDM – Radiation Dose Monitor

RDM is your essential tool for reducing dose. For patient health and safety, it is imperative for facilities to track all diagnostic, interventional and image-guided surgical ionizing events for its patient population.

Meets Euratom/2013/59 Directive in the EU

**CONTROL: Real-Time Monitoring/Dose Alert System**
- Display all information relating to patients, examinations and acquisitions.
- Advanced alert systems based on (national and local) Diagnostic Reference Levels (DRL) allows for real-time monitoring of examinations. Automatic alert mail notifications based on your criteria.
- Dedicated screen for tracking alerts and finding their causes.
- Incidence map for intervention radiology.
- Instant access to patient dose history prior to the exam.
- Advanced pediatric dose management.
- Specific management of high-risk patients.
- Multi-criteria search by institution, protocol, procedure, equipment, date range, Physician, Technician, etc.
- Attach any file or image to the patients record or study.
- Creation of search filters by population type.
- Re-evaluation of the CTDI according to the patient’s SSDE.

**ANALYZE: Improve Your Practices**
- Display distribution of dose values according to exam type, identify examinations deviating from the reference values.
- Identify all procedures and protocols which help reveal anomalies and which ones could require improvement.
- Track the course of doses delivered to patients over time.
ANALYZE: Improve Your Practices (continued)

- Assess the level of compliance of your practices.
- Assess your professional practices.
- Keyword tag by medical indication (heart disease, oncology, etc.
- **Peak Skin Dose (PSD):** Full Automatic dose exposure calculation and mapping of the PSD with a 2D or 3D graphic presentation. Display of a certain point in time during exam using time scale.
- **Organ Dose:** Nuclear Medicine and CT Scanner: SST partnered with Virtual Phantoms for the integration of the organ dose module into the RDM solution.

Effective dose:
Nuclear Medicine and CT Scanner

OPTIMIZE: Assessment & Optimization of Practices

- Complete export of all screen data and dose analysis reports in PDF, Word or Excel format.
- **Pivot table:** Create custom tables to facilitate interpretation and relevance of dose data. Export results into Excel with one click.
- Automatic transfer of reports to HIS, RIS, PACS, etc.
- Custom call to RDM from your IT systems (HIS, RIS, PACS). - REST API and/or Web contextual call.
- **Comparison Module:** Advanced statistical tool enabling cross-data comparison. Comparison for up to four data sets.
- Real-time access to RDM web interface externally (internet/VPN) and internally (intranet).
- Collection of DRLs and automatic transmission to the national authorities.
- **Automatic Dose reporting:**
Customized reports can be sent directly to the person or persons responsible for the review of the dose cycle. Two Report types are available. Statistical report based on modalities and/or procedures.
Patient report based on Patient demographics.
- **Powerful alert rules & distribution:**
Implementation of specific alerts regarding a patient and/or studies, including ability to show alerts over a specified time period, automatic email alerts.

RDM Modules:
Worklist. - HL7/RDSR Sender. - HL7 IHE Integration.
RDM Modality. - Dose Reports Export. - PACS History.