

RDM

A Dose Archiving and Communication System (DACS) for collecting, controlling, and analyzing patient radiation doses in medical imaging and nuclear medicine.

<https://example.com/1762583716454>

Overview

RDM (Radiation Dose Monitor) by Medsquare is a DACS (Dose Archiving and Communication System) solution designed to archive and centrally manage the ionizing radiation doses to which patients are exposed during medical imaging examinations, including radiology and nuclear medicine. The software was launched in 2012 and has since become a key tool in radiation protection and the dose reduction process.

Key Benefits and Capabilities:

Patient Safety & Dose Control: RDM enables healthcare facilities to improve the quality of patient care by monitoring examinations and patients in real-time. It features an advanced alert system based on national and local Diagnostic Reference Levels (DRLs) that sends automatic email or pop-up notifications when dose thresholds are exceeded.

Compliance & Traceability: The solution helps healthcare institutions comply with national and international requirements, such as the Euratom Directive 2013/59, by facilitating dose justification and providing tools for advanced statistical analysis and reporting. It also enables the collection and automatic transmission of DRLs to national authorities.

Advanced Dose Analysis: RDM offers features for calculating the Organ Dose and Effective Dose across all modalities. It includes advanced pediatric dose management, specific management for high-risk patients (e.g., pregnant women), and multi-criteria search tools for in-depth analysis of protocols, procedures, and equipment.

Integration and Architecture: The system is vendor-neutral and multi-manufacturer, compatible with all types of imaging modalities, even those over 15 years old. It interfaces seamlessly with existing hospital and radiology information systems (HIS/RIS) and PACS using DICOM (RDSR, MPPS) and HL7 standards. The web-based architecture allows multiple control screens to be used without multiplying costs and provides real-time access via intranet or VPN.

Target Users and Deployment: RDM is a collaborative tool developed for all professionals involved in the dose cycle, including Radiologists, Radiographers, Heads of Department, Radiation Safety Officers, and Medical Physicists. It is an integrated and packaged solution suitable for quick deployment across

multiple establishments on a regional or hospital group scale (enterprise market), with a version, RDM TOUCH, designed for smaller healthcare organizations.

Key Features

- Dose Archiving and Communication System (DACS)
- Multi-modality and Multi-manufacturer Compatibility
- Real-time Monitoring with DRL-based Alert System
- Organ Dose and Effective Dose Calculation
- Advanced Statistical Analysis and Reporting (Excel Export)
- Pediatric and High-Risk Patient Dose Management
- Regulatory Compliance Reporting (e.g., Euratom Directive 2013/59)
- Patient Dose History Portfolio
- Web-based Interface (Intranet/VPN Access)

Pricing

Model: enterprise

Pricing is available upon request and tailored for enterprise-level deployments in hospital groups and regional health systems.

Target Company Size: small, medium, enterprise

Integrations

HIS (Hospital Information System), RIS (Radiology Information System), PACS (Picture Archiving and Communication System), DICOM Modalities (All Manufacturers)

Compliance & Certifications

Euratom Directive 2013/59

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