Sectra DoseTrack

Cloud-based solution for patient radiation dose monitoring and optimization, automatically collecting and analyzing data to ensure doses are As Low As Reasonably Achievable (ALARA).

https://example.com/1762583716454

Overview

Sectra DoseTrack is a cloud-based, FDA-cleared Class 1 software medical device designed to provide a complete solution for patient radiation dose monitoring and management across an enterprise imaging environment. Its primary function is to automatically collect, store, and monitor patient radiation dose data from all connected modalities, eliminating the need for manual data entry and reducing the risk of human error. The system ensures that radiation doses are kept As Low As Reasonably Achievable (ALARA) for increased patient safety.

Key Features and Capabilities

Automatic Data Collection: Collects dose information from all connected modalities using multiple data types, including DICOM Radiation Dose Structured Report (RDSR), DICOM MPPS, HL7, Optical Character Recognition (OCR), and manual entry, ensuring a complete, enterprise-wide dose monitoring solution.

Dose Reference Level (DRL) Monitoring: Allows departments to configure and monitor local and national DRLs, ensuring the organization is performing within expected thresholds.

Configurable Alerting: Features a sophisticated alerting system to provide automatic notifications when radiation levels exceed established thresholds, or for other criteria such as low dose or 'frequent fliers.'

Dose Tracking and Benchmarking: Enables tracking and comparison of radiation levels at the modality, examination, and individual patient level. It also allows for benchmarking to compare radiographer performance and identify training needs or protocol revisions.

Dose Calculation: Considers patient size and demographics to aid in effective organ dose calculations and patient risk assessment.

Contrast Agent Tracking: Includes functionality for systematically registering and tracking contrast agents, such as gadolinium, used during MRI exams to manage cumulative patient exposure.

Regulatory Compliance: Simplifies reporting to regulatory authorities and assists customers in compliance with guidelines such as ALARA principles, Euratom, and Joint Commission (JC) requirements.

ACR DIR Submission: Is a certified ACR software partner, approved to submit a hospital's dose data to the US Dose Index Registry (DIR).

Target Users and Use Cases

Sectra DoseTrack is primarily used by **Radiology Departments**, **Medical Physicists**, **Hospital Administrators**, and **Healthcare Professionals** responsible for patient safety and quality assurance. Its main use cases include:

Patient Safety and ALARA Compliance: Proactively monitoring and reducing patient radiation exposure.
Quality Assurance and Optimization: Identifying equipment failures, optimizing imaging protocols, and benchmarking modality performance.
Regulatory Reporting: Generating necessary reports for bodies like the FDA, ACR, and local regulatory authorities.
Clinical Training: Identifying staff training needs by comparing radiographer dose profiles for similar procedures.

Key Features

- Automatic Multi-modality Data Collection (RDSR, HL7, OCR)
- Dose Reference Level (DRL) Setting and Monitoring
- Configurable Automatic Alerting (High/Low Dose, Frequent Fliers)
- Patient, Exam, and Modality Level Dose Tracking
- Organ Dose Calculation and Patient Risk Assessment
- Gadolinium Contrast Agent Tracking
- ACR Dose Index Registry (DIR) Submission
- Regulatory Compliance Reporting (ALARA, Euratom, JC)

Pricing

Model: enterprise

Enterprise pricing is negotiated, often through Group Purchasing Organizations (GPOs) like Premier. The product is part of the Sectra One subscription-based enterprise imaging portfolio.

Target Company Size: medium, enterprise

Integrations

RIS, EMR, PACS, Powerscribe 360, DICOM, HL7

Compliance & Certifications

FDA-cleared (Class 1), ACR DIR Partner, Euratom Compliance, ISO 27001, ISO 13485

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