PHILIPS

Healthcare

Philips DoseWise Portal

Radiation exposure management software

The first step in building an **effective radiation dose management strategy** is collecting complete and accurate data so you can analyze and measure your current performance.

The DoseWise Portal functionality is at the core of Philips' comprehensive dose management program. The web-based software solution automatically collects, measures, analyzes and reports radiation exposure data on an individual and group basis and allows for integration with real-time staff exposure measurements using DoseAware. It provides a streamlined, efficient way to review and manage data on radiation exposure to both patients and staff.
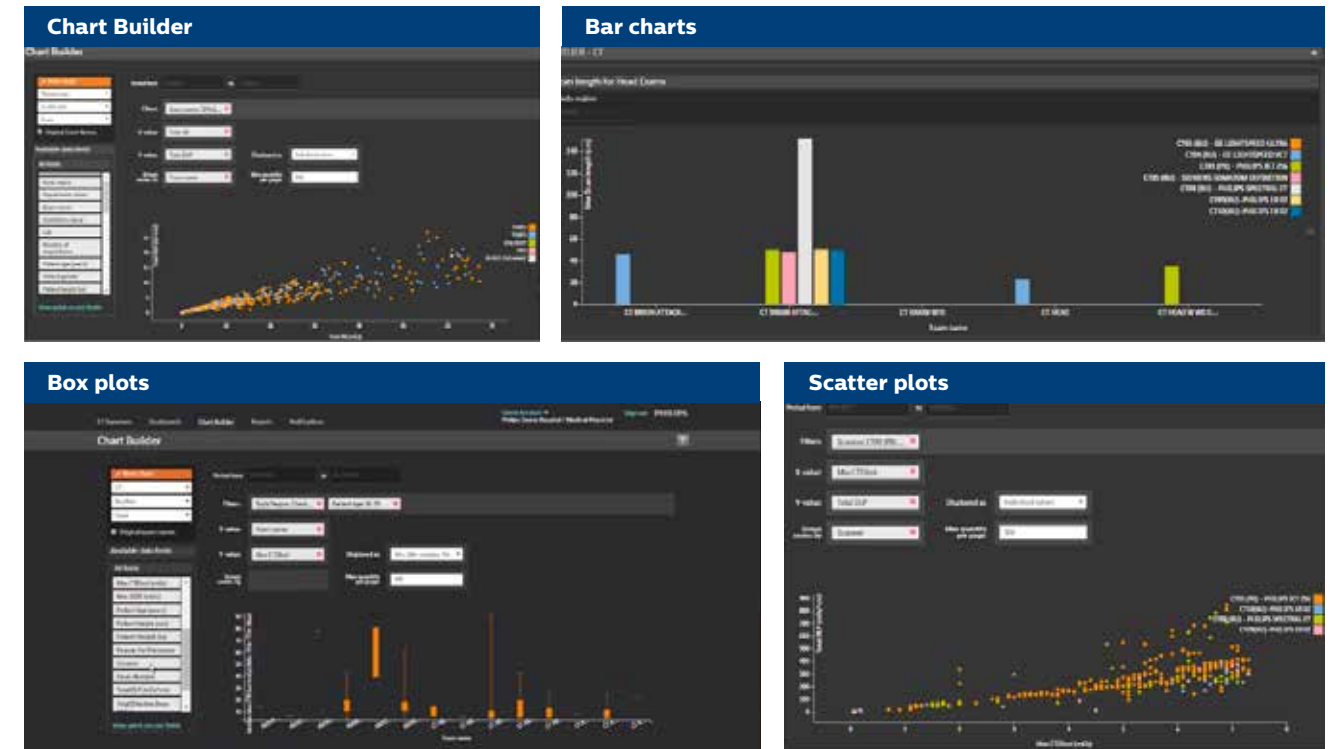
By collecting and analyzing the right data you can:

✓ Gain actionable insights

✓ Benchmark your facility

✓ Set dose management goals

✓ Identify variations in practices, such as among technologists and scanners

✓ Standardize protocols using exposure data

✓ Facilitate compliance with local dose management standards and regulations

Key capabilities

Tools

The DoseWise Portal provides advanced analytic tools, such as customizable dashboards and drill-downs for multi-vendor/multi-modality imaging systems. Chart Builder analytics creates bar charts, scatter plots, box plots and tables by simply dragging and dropping the DICOM field into a graph.

Chart Builder

Bar charts
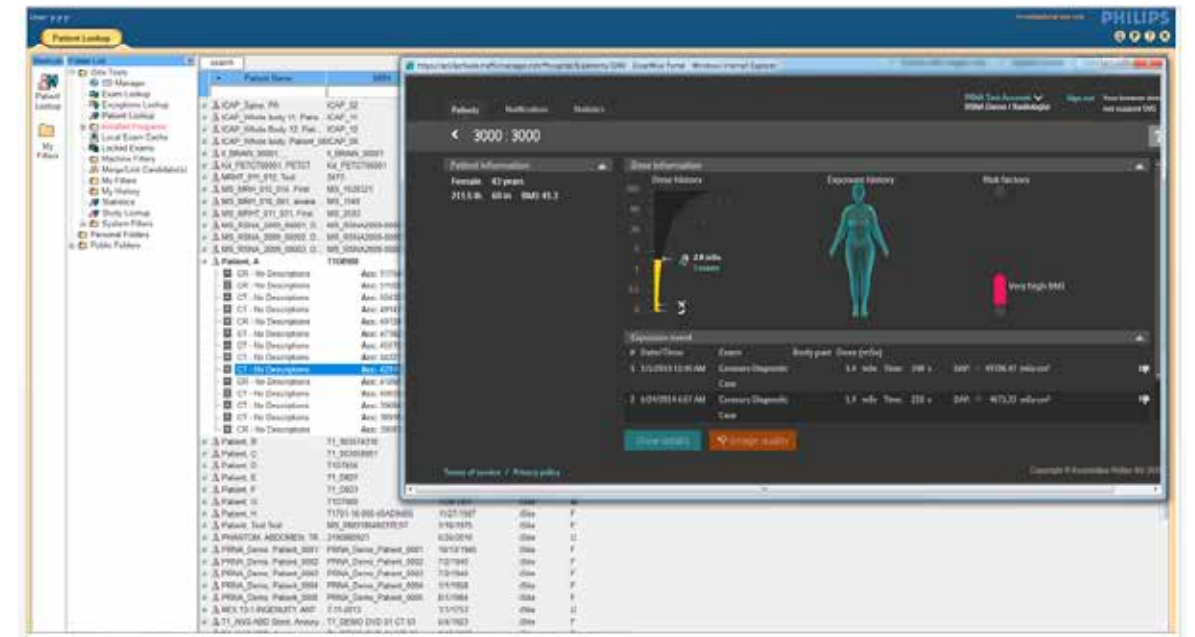

Box plots

Scatter plots

Data

The DoseWise Portal captures all patient radiation events, not just those sent to PACS, and retrieves data directly from the imaging equipment. This prevents you from missing data that is discarded by a Technologist due to poor image quality. The radiation from these exams are factored toward a patient's exposure history.
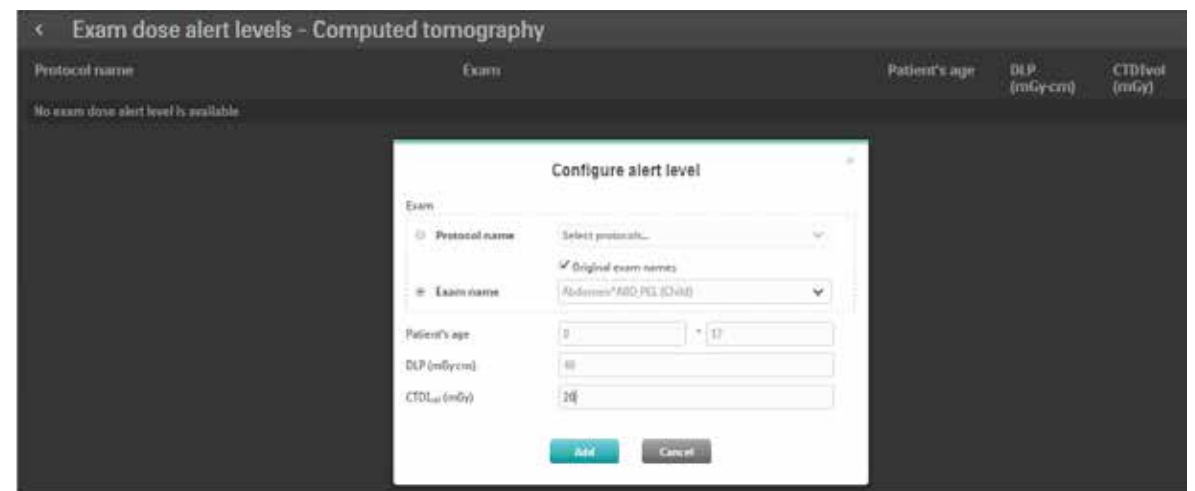
DoseWise Portal can map your CT exam naming convention to the RadLex® Playbook to standardize your exam names for external benchmarking.

Alerts

The DoseWise Portal can create custom alerts based on your preference. Regardless of exam type, you can select your protocol or exam name and add alert triggers, such as:

- Patients age
- DLP
- CTDIvol
- DAP

- ESD
- SSDE
- Compressed Breast Thickness
- mAs

- AGD/exam
- Staff dose level

Reports

In addition to offering a platform to create custom reports using Chart Builder, DoseWise Portal contains several standard reports:

- CT exams sorted by CTDIvol
- CT exams sorted by DLP
- CT volume by exam name
- CT volume by Reference Exam Name

- High utilization patients sorted by number of exams
- High utilization patients sorted by total effective dose
- Evaluate staff dose by procedure and lab

Benchmarking

Meeting the new radiation dose requirements for benchmarking requires standardizing your exam nomenclature and comparing your data against national registries or diagnostic reference levels.

The DoseWise Portal takes your CT exam names from your RIS and automatically maps them to the RadLex Playbook naming convention. This allows you to compare your exam data to industry benchmarks, such as the American College of Radiology's Dose Index Registry™.[1]

1 The ACR® DIR™ is an independent program. Participation and access to DIR data is not provided with DoseWise Portal. Healthcare facilities must register with ACR directly.

The DoseWise Portal will map your current CT exam names from your RIS to the RadLex Playbook®

This allows you to benchmark yourself against peers and dose registries effectively.

Benefits

Technical

- Connect X-ray imaging equipment (regardless of vendor or equipment type) for monitoring radiation dose data
- A simple, compact and secure IT footprint behind your firewall
- Scalable; start with one modality (such as CT) and add more later
- Compatible with ACR Dose Index Registry
- Compatible with Nuance PowerScribe 360 dictation system
- Compatible with Philips IntelliBridge Enterprise HL7 engine
- Integrated with Philips IntelliSpace PACS
- Integrated with real-time dosimetry systems
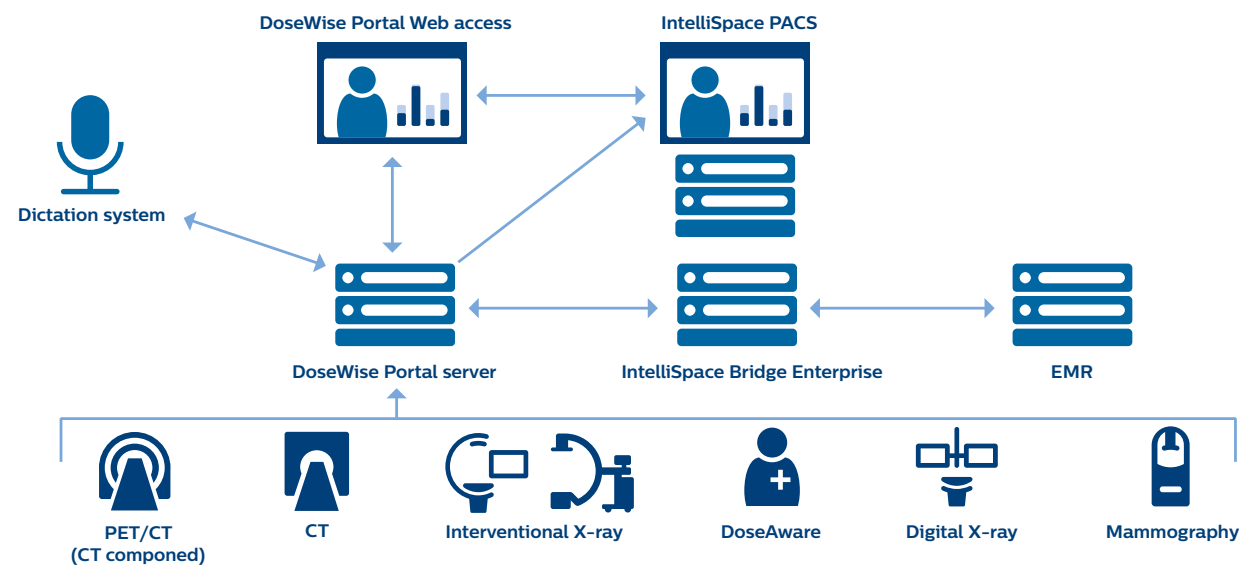
Operational

- Users can quickly access data most relevant to their function
- Detect previously-unseen trends in imaging equipment performance
- Set custom patient dose alert levels and receive scheduled notifications
- Custom graphs and dashboards facilitate compliance with regulatory requirements or quality projects

Clinical

- Monitor staff exposure in the interventional suite in real-time
- Standardize CT exam names
- Set custom patient dose alert levels and receive scheduled notifications
- Custom graphs and dashboards facilitate compliance with regulatory requirements or quality improvement projects
- Compare exams to custom diagnostic reference levels
- Evaluate and manage variations in imaging exam ordering

DoseWise and IntelliBridge Enterprise Integration (HL7)

DoseWise Portal Web access   **IntelliSpace PACS**

Dictation system

DoseWise Portal server   **IntelliSpace Bridge Enterprise**   **EMR**

PET/CT (CT componed)   **CT**   **Interventional X-ray**   **DoseAware**   **Digital X-ray**   **Mammography**

Compatibility with real-time dosimetry systems[2]

The entire family of DoseAware products and I2 (RaySafe® product) are compatible with DoseWise Portal. Combining patient and staff dose into one display allows for specific optimization of radiation protection in the interventional radiology suite.

2 Compatibility with DoseWise Portal V2.2 and higher versions

Compatibility with IntelliSpace PACS[3]

The DoseWise Portal is compatible with the Philips PACS system.

Clicking on a clinical image or the patient's name in the worklist launches the DoseWise Portal corresponding dosimetry page.

Clicking on a particular CT image and selecting "dose history" allows you to see the exposure data for that exam, or their exposure history by clicking on their name.

3 IntelliSpace PACS V4.4.551 and DoseWise Portal V2.2 and higher versions

CT dose management services

Philips works closely with West Physics® consultants to offer comprehensive, turn-key CT radiation dose optimization programs to facilitate compliance with dose management requirements and to support your patient safety initiatives.

West Physics uses data from your DoseWise Portal* to optimize radiation dose based on deep expertise and experience in patient dosimetry.

Tailored offerings
We offer three tiers of professional Medical Physicist support to help any size facility achieve their CT dose management goals. Service programs are designed to suit your unique needs and flexible to meet your staffing situation and budget.

Premium
Dose Management Program

A completely turn-key Joint Commission-compliant Dose Management Program, including equipment testing, dose tracking and analysis and oversight of all functions of the dose management program.

Full
Dose Management Program

An efficient Joint Commission-compliant CT equipment testing and patient dose management solution, including management of your dose tracking software, with some elements of the dose management program managed yourself.

Basic
Dose Management Program

For facilities that already have a medical physicist performing annual equipment testing services and need help properly setting up and managing your dose tracking software.

Included in all programs:

- Protocol reviews and optimization
- Current performance evaluation against industry benchmarks
- Tests of CT scanners for accuracy against the stated dose output
- Establishing and set up of dose alert levels
- Training for staff

Services that consistently prove their value
The Philips/West Physics offering helps your organization establish a compliant and effective dose management program. We assist with interventions that optimize radiation protection for patients in the long-term. And we conduct annual onsite assessments to help you stay on track.

Program details

Three tiers of service	Premium	Full	Basic
CT dose testing for 4 commonly used CT protocols	✓	✓	✓
Set up individual dose tracking analysis & report system	✓	✓	✓
Join annual CT Protocol Review Committee Meeting	✓	✓	✓
Ongoing remote consultation (up to 8 hours annually per facility) by phone, email or video conference to answer questions, respond to dose alerts or help refine protocols	✓	✓	✓
Comparisons with national indexes, industry averages and benchmarks	✓	✓	
Performance evaluation to meet local/JC standards	✓	✓	
Review facility policies & procedures for compliance with accreditation standards; assist with changes	✓	✓	
On-site CT tech training for dose management; adjustments during the year with certificate	✓	✓	
Certification that facility exercises dose reduction mechanisms, meets standards and has been reviewed by experts	✓	✓	
Use patient data to set dose index ranges for 10 commonly used protocols and set up dose alert levels for the 10	✓		
Patient dose management education materials you can use/modify	✓		
JC and ACR-compliant CT protocol books with best practices examples	✓		
6-month on-site: review records and alert histories, refine dose action levels and, if possible, lower doses; conduct Q&A; training check-up	✓		
Annual dose management review to assess protocols and re-measure dose and image quality to compare to baseline	✓		
Protocol optimization for abnormal doses for 1 protocol in addition to the 4 commonly used CT protocols; set up dose alert levels for a total of 5 protocols		✓	
Set up dose alert levels for the 4 commonly used CT protocols			✓

*services are also compatible with third-party, non-DoseWise software

How to reach us
Please visit www.philips.com
healthcare@philips.com