

LANDAUER®

Introducing LANDAUER OPTIMIZE

A complete and innovative solution for dose optimization and compliance



LANDAUER®
OPTIMIZE

Achieve worry-free compliance with OPTIMIZE, a unique, automated Radiation Dose Management solution for CT and Fluoroscopy that combines software and service by fully integrating data collection, artificial intelligence (AI) algorithms and the unlimited direct support of LANDAUER medical physicists.

OPTIMIZE provides you with an easy compliance process that helps you focus on patient care and throughput

Painless setup

LANDAUER prepares everything according to your specifications for automated protocol mapping.

Professional monitoring

We analyze your data and review dose incidents. We notify you if there are any urgent incidents that require immediate attention.

Expert advise

You get a team of experts identifying opportunities to optimize dose and image quality to provide the best patient care.



OPTIMIZE Services

OPTIMIZE is LANDAUER's latest cloud-based dose management solution. This hosted platform harnesses secure and robust artificial intelligence technology developed by medical physicists at LANDAUER. OPTIMIZE includes:

Advanced patient dose insights

- Automated capture of CT and fluoroscopy dose metrics
- Patient dose calculations and regulatory guidance
- Peak skin dose estimates from fluoroscopy
- Notifications of changes in study volumes

Expert policy and procedure guidance

- Gap analysis of patient dose policy and procedures
- Expected dose index range guidance and documentation
- Advice to meet targets on the Leapfrog survey

CT and Fluoroscopy protocol management

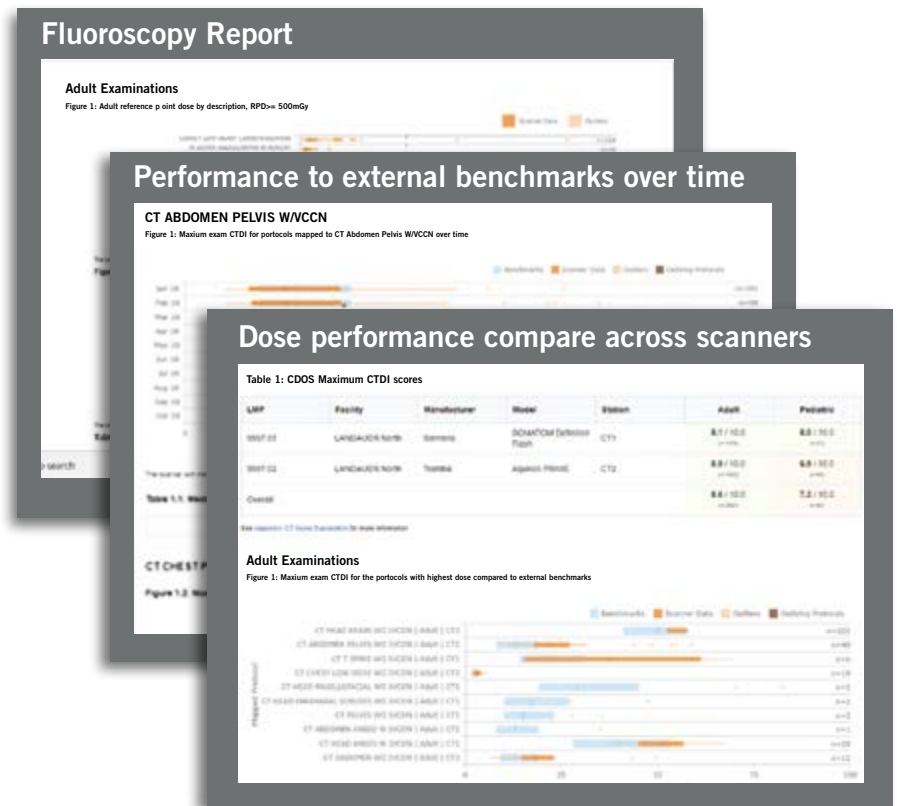
- LANDAUER Scoring Algorithm
- Automatic protocol prioritization
- CT protocol review from expert medical physicists
- CT protocol review documentation
- Recommendations to optimize CT protocols

Insights & Analytics

Easy to use reports and a unique centralized dose database provide actionable insights that help you manage radiation dose compliance and patient safety. LANDAUER OPTIMIZE helps you deliver the right radiation dose for every patient, every time.

Older equipment that cannot create electronic data is not a problem. We'll help you create a policy and methodology to capture data from non-RDSR-capable fluoroscopy equipment and review it for you to meet The Joint Commission requirements.

LANDAUER will work directly with your facility's IT department for proper set up and agreements to run OPTIMIZE smoothly.



Why LANDAUER?

LANDAUER has been a trusted dose optimization resource since 2015 for hundreds of hospitals regarding The Joint Commission Diagnostic Imaging Standards for Computed Tomography. Now we have a tool that includes fluoroscopic dose tracking.

People

165

Medical Physicists

LANDAUER employs a large number of medical physicists dedicated to safe and effective radiation safety

We provide personalized assistance to help small or large health systems standardize care and improve continuously. Our physicists provide actionable insights to maximize image quality per fluoroscopy protocol. You'll receive insights into your outliers and dose incidents. Additionally, you will have unlimited access to our medical physicists.

Technology

5+ Million

Scans monitored

Advanced artificial intelligence driven software delivers rapid and accurate findings

Our software scores your CT scanner and tracks it for improvement over time, prioritizes protocols according to our improvement algorithm and discovers your outliers per protocol. We compare your scans to national benchmarks and generate reports for each piece of RDSR-capable fluoroscopy equipment.

Results

100%

Compliance

Clients participating in our dose optimization services are compliant with standards relating to patient dose

Gain insight into the productivity level of your equipment by facility or at enterprise-level in order to make capital allocation decisions. You will be prepared for Patient Dose Reduction Committee meetings at anytime with access to data on web-based dashboards.

Hospital Case Study

Optimizing CT Image Quality and Radiation Dose

The Challenge

Maintain image quality across a diverse patient population while reducing patient radiation dose.

The Organization

A nationally recognized, 463-bed hospital, accredited by The Joint Commission. The hospital has been named one of the top regional hospitals by *U.S. News & World Report* for four years in a row. It has three CT scanners.

The Solution

Use proprietary LANDAUER metrics to identify priority protocols that are priority

The hospital's radiology manager met with LANDAUER qualified medical physicists to review all of the hospital's CT protocols and compare them to national benchmarks to find opportunities for improvement.

Gradually reduce radiation dose while ensuring diagnostic quality images

Our medical physicists worked alongside a team of the hospital's radiologists and technologists to reduce the radiation dose while ensuring diagnostic quality images. Protocols to improve were identified based on comparisons to national benchmarks and efficacy of dose modulation with patient size.

LANDAUER monitors image quality and provides actionable insights

LANDAUER medical physicists provided actionable insights that were then accepted and implemented by the hospital team. Image quality and radiation dose were continuously monitored in partnership until an optimal protocol was reached. The hospital's improvements were constantly monitored and concisely presented to the hospital radiation safety committee in meetings.

The Results

LANDAUER helped the hospital decrease the dose for 90 percent of the hospital's body protocols; in some cases, the hospital reduced the dose by 37 percent.

“LANDAUER’s team was very knowledgeable and easy to work with. **We were able to decrease the dose for 90 percent of our body protocols;** in some cases, we reduced the dose by 37 percent. Our team feels proud to have accomplished so much and we could not have done it without LANDAUER experts. Our partnership with LANDAUER has helped us achieve and maintain great image quality at the lowest radiation dose.”

Susan Irvine
Radiology Manager

LANDAUER also offers training

Your staff can easily access the mandatory training that fulfills safety and compliance requirements.

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