

same institution, radiation dose management involves different approaches to implementation and safety. Much of the disparity stems from years of varying beliefs and practices, and even misconceptions about the application of impact on the safety of radiation imaging.

X-rays. This variation can have a significant A uniform program of radiation safety — assessment,

— is the solution. Placing the focus on continuous quality improvement will not only assure that patients receive efficient, quality care, but alleviate concerns regarding radiation exposure. Here are what we believe the four

pillars of creating a culture of radiation safety. Pillar one

# Understanding Increase understanding through personalized program assessment.

**Components:** 

## Dose monitoring evaluation, which



includes equipment review, policy and procedure reviews, and image archiving systems. Dose planning, including the

establishment of dose process best

practices for staff and patients.



Implementation of education and training, KPI checks, and creation of an end-to-end process.

## Integration Promote integration through customized tools and solutions. **Components:**

Pillar two

Tool implementation, including

## dose-tracking software, lead



vests/shielding and image quality (IQ) tools. **Solution implementation**, including strategic administration of policy and procedures, governance models, KPI



metrics, and ACR Dose Index Registry comparisons. Pillar three Education

### **Components:** - A Learning Center, featuring specialized DoseWise

environment.



Enhance education through creation of collaborative learning



and Philips whitepapers Public and patient education on the real risks and benefits of

imaging using radiation

Webinars, both live and recorded.

Peer-reviewed journal articles



Pillar Four

Enable improvement through professional consulting that assists with technical and administrative issues. **Components:** 

and metric comparisons and

reviews, shielding designs, and

Professional services that address

protocol optimization, benchmark

#### image quality and associated quality assurance reviews.



Consultation on workflow and equipment utilization, ACR accreditation, evaluation of low-dose technology and program auditing (JC, XR-29, Agreement State, Notified Body).

#### crucial for bringing all departments together under the objective of

Management

The support of senior management is

creating a culture of radiation safety.

They are responsible for emphasizing the hospital's vision and goals. **Key Committees** Committees are necessary to assess the specific needs of patients and hospital staff

with regards to radiation safety.

# **Metrics**

- **-** X



changes when necessary.

Metrics are the key to measuring

progress and making improvements and

well-being of its staff. Providing them with the



tools and support needed to perform their duties in a safe environment elevates morale and the commitment to improving patient care.

