



**SIEMENS**

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## How PET/CT Can Help Standardize Care and Improve Efficiencies across Your Network

Solutions that promote consistency and satisfaction in oncology

## Driving consistency in oncology

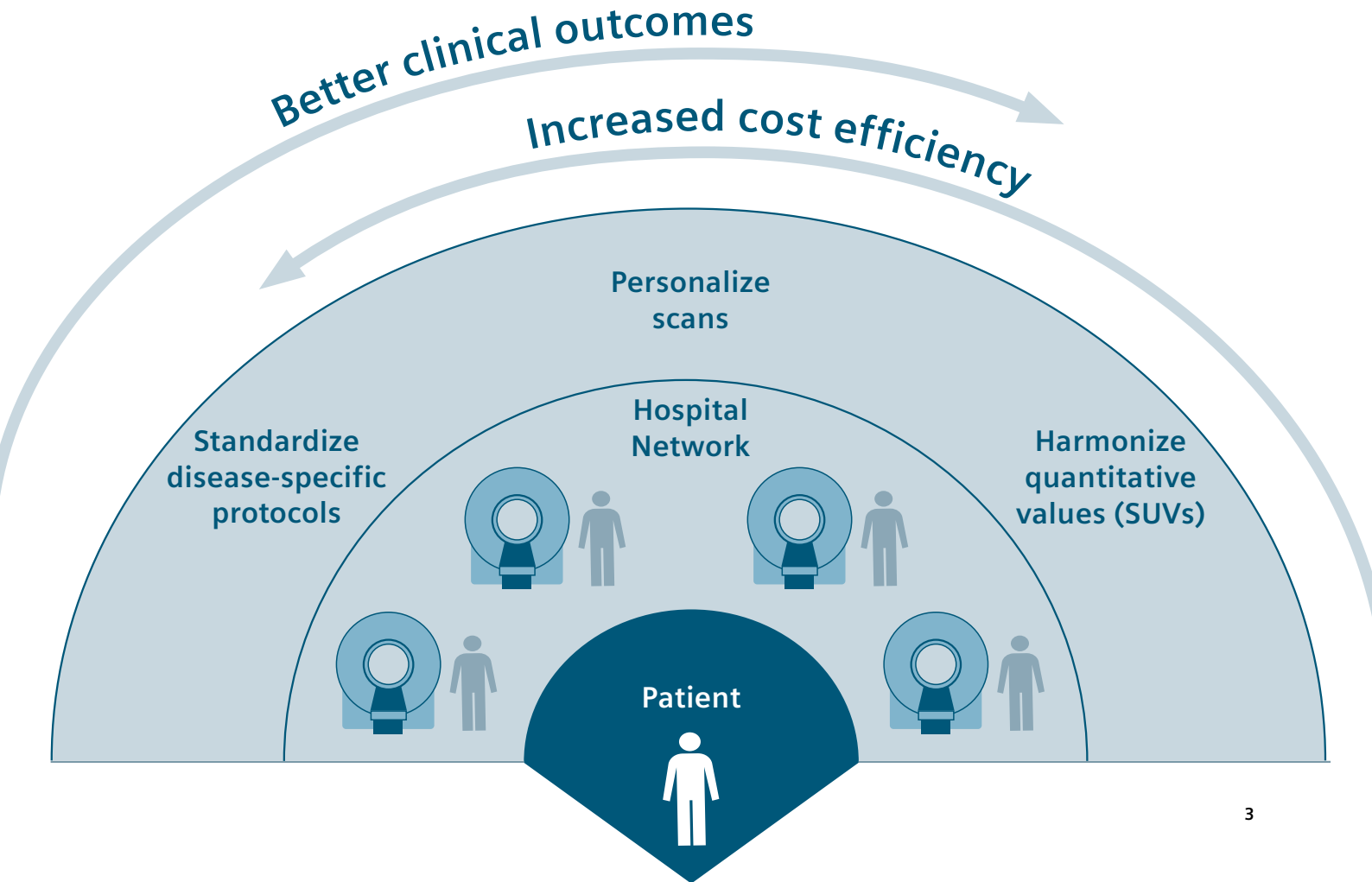
at a known cost across your integrated delivery network (IDN) is fundamental to the well-being of your patients and your organization. At Siemens, we recognize this can be challenging for IDNs, which are faced with consolidating various healthcare delivery facilities to achieve better integration and standardization.

In oncology in particular, standardization can be challenging due to the:

- Variability of disease type and stage.
- Need to assess ongoing treatment efficacy and follow-up studies.
- Volume of imaging exams required to attain clinical information.
- Differences among equipment and staff within various IDN facilities.
- Number of access points to your network of care.

To help, Siemens is pioneering significant technological advances that can cost-effectively enable:

- ▶ Standardization of disease-specific protocols based on clinical indications for better efficiency.
- ▶ A more personalized radiation therapy plan based on patients' individual anatomies and physiology of disease.
- ▶ The harmonization of reading oncology studies across your institutions to assess treatment efficacy.

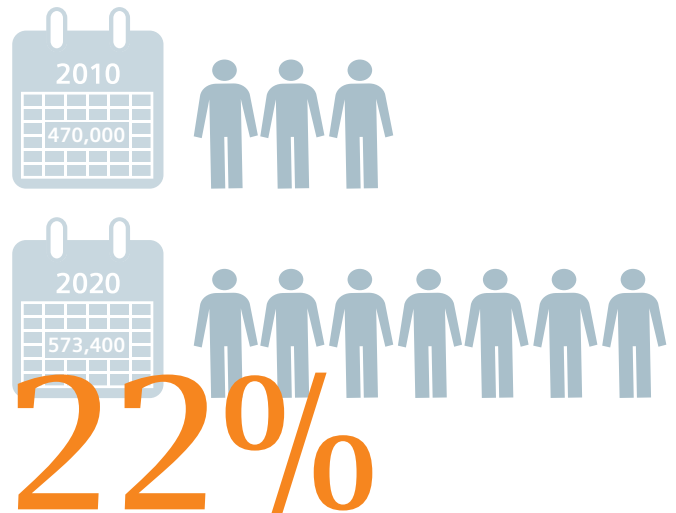


## Expand Your Services, Maximize Utilization & Efficiency with RTP

The number of cancer patients requiring radiation therapy is expected to increase by 22 percent between 2010 and 2020.<sup>1</sup>

To meet this increase, IDNs will need high-quality, efficient radiation therapy planning (RTP). Many are choosing PET/CT for its inherent imaging advantages in head and neck, lung, liver, breast, and prostate cases.

The Biograph® RT Pro edition is a comprehensive solution designed specifically for RTP to help individualize therapy planning and dose escalation for more cost-effective cancer treatment.



increase in radiation therapy patients

<sup>1</sup>MD Anderson. Demand for Radiation Therapy Projected to Outpace Supply of Radiation Oncologists; 2010 Oct 10 [cited 2015 Jul 30]. Available from: <http://www.mdanderson.org/newsroom/news-releases/2010/demand-for-radiation-therapy-projected-to-outpace-supply-of-radiation-oncologists.html>

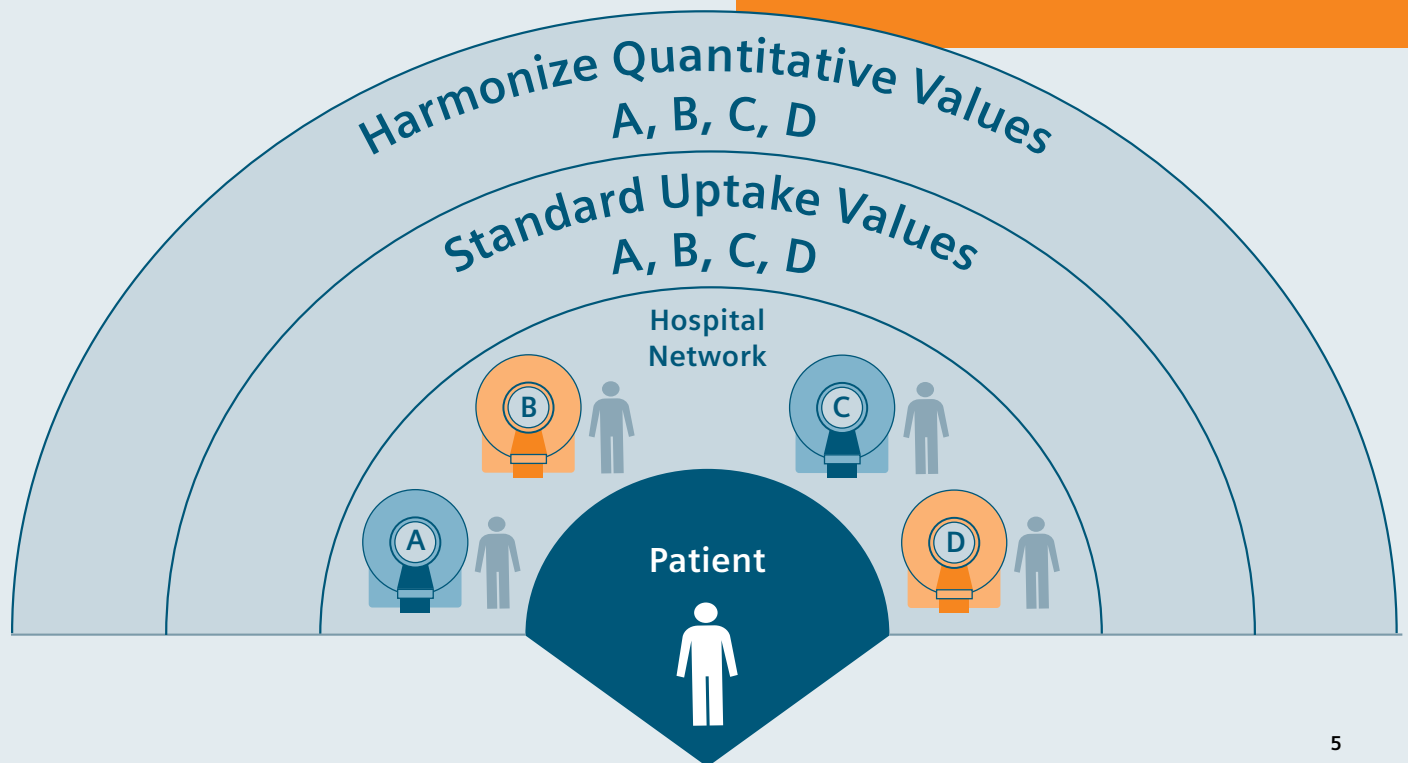
## Bridging Systems, Platforms, and Protocols in Oncology with EQ·PET

A reference-based quantification technology within *syngo*®.via, EQ·PET provides harmonized SUVs across patient scans, even if the images are acquired on different systems or reconstructed with different protocols.

With EQ·PET, radiologists can read from the original patient image, reconstructed with their preferred protocol, to maximize image quality and detectability. The EQ·PET technology does the work: SUV is harmonized by a parameter that aligns systems and reconstructions.



Greater Clinical Confidence



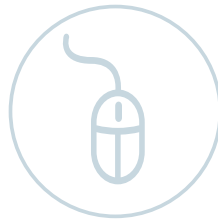
## The Challenge: Faster Planning and Simplified Protocols

The variability of skills and experience across technologists and their ability to manage complex therapy protocols can lead to inconsistencies. Simplifying PET/CT imaging could enable better consistency and a higher level of efficiency across the service line.

### How you can overcome it:

With its one-click fast planning—or CT-like planning, which supports more efficient cross-training—the Biograph mCT Flow™ enables a more personalized, standardized image acquisition in daily clinical workflow. This reduced complexity supports a higher level of protocol standardization across staff members and can increase efficiency in exam set-up across the network.

The Biograph mCT Flow also enables diagnostic PET/CT and radiation therapy planning studies during the same exam, eliminating the need for additional imaging, which is often scheduled at a later time. This improves operational efficiency and increases scheduling flexibility and patient satisfaction since a follow-up appointment is not necessary.



## The Challenge: More Accurate and Reproducible Quantification

The variability of quantitative measurement with standard stop-and-go PET/CT can diminish clinical confidence. Faster, more accurate information about treatment efficacy can support better patient outcomes and reduced costs associated with ineffective therapies.

### How you can overcome it:

Powered by FlowMotion™ technology, the Biograph mCT Flow is the world's first PET/CT system to enable planning and scanning based on one single continuous motion of the patient table. With it, your staff can:

- Obtain more accurate quantification by using the finest detail for every organ. Protocols are based on the needs of each organ to personalize the exam.



- Achieve better image quality and limit repeat exams by reducing patient movement with continuous bed motion.
- Improve patient experience and satisfaction with a large bore and continuous bed motion, which can reduce anxiety.

## The Challenge: Standardizing Postprocessing and Reporting

Variations in postprocessing and reporting, due to larger staff size and varying experiences can make it difficult to gauge the effectiveness and efficiency of the department's workflow.

### How you can overcome it:

- Make reading and reporting more intuitive with a clear, concise user interface and access to multimodality images from anywhere, even on the go with access on your PC or mobile device.



- Support reliable and reproducible diagnostic results with task presets/views and simplified anatomy identification.
- Accelerate radiological workflows and save valuable time with *syngo*<sup>®</sup>.via, a software solution for 3D reading and advanced visualization. It can help your staff read cases quickly and easily (thanks to automated pre-processing and pre-fetching of prior exams) and deliver relevant findings in one single report.

## The Challenge: Improving Reliability and Consistency of SUVs

In networks with different PET scanners, accurately comparing quantitative data (SUVs) during cancer therapy can be difficult and unreliable. Without normalization, conclusions about therapy progress or tumor size changes may lead to ineffective therapies.

### How you can overcome it:

EQ-PET harmonizes SUVs across patient scans regardless of scanner make or model. This standardizes reading to accurately compare SUV values in therapy decisions so your clinicians can make more informed care decisions. EQ-PET eliminates the need for patients to be imaged on the same system each time, which provides scheduling flexibility for follow-up exams and subsequently can lead to higher patient satisfaction.

To learn more about how Siemens PET/CT solutions can help improve consistency of clinical outcomes and improve overall efficiency in your organization, visit [usa.siemens.com/mi](http://usa.siemens.com/mi).

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