

PHILIPS

Radiation Oncology



The **confident** path to treatment

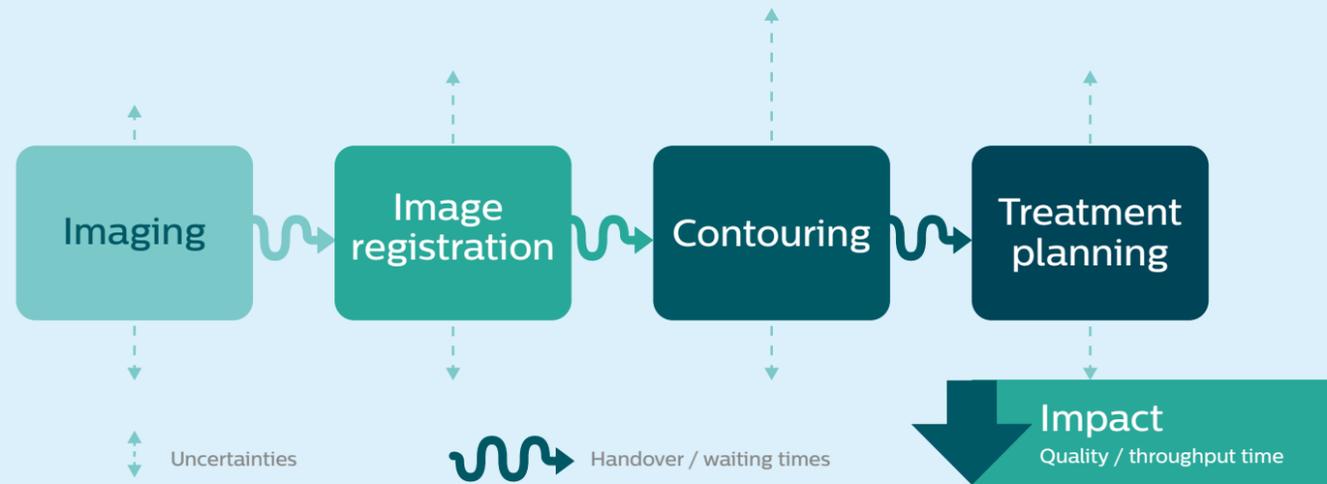
Philips Radiation Oncology Solutions

The **confident path** to treatment

Philips Radiation Oncology Solutions

Philips offers a proven portfolio of dedicated radiotherapy **solutions that span diagnostic imaging to treatment planning**. By integrating tools, systems, and software – we help you to improve patient care, accelerate time to treatment, and enhance patient satisfaction, while maximizing the value of your investment.

Together with Philips, you can make your workflow simple, fast, and precise from start to finish. And be certain you can deliver consistent treatment results.



Radiation therapy workflow challenges

While an effective treatment for cancer patients, radiation therapy processes can be fragmented and highly variable. This can result in uncertainties that impact quality and throughput time.

“Radiation oncologists are being pulled in a million different directions. If you can discover ways to streamline their workflows, bring tools to them as opposed to them having to go to tools, make it easy for them to complete their work and facilitate that workflow, that’s one of the major areas of frustration, that’s a major pain point, it’s a major reason for inefficiency.”

Indrin Chetty, PhD
Professor and Head of Medical Physics,
Henry Ford Health System, Detroit, MI USA



Solutions for **tomorrow's challenges**

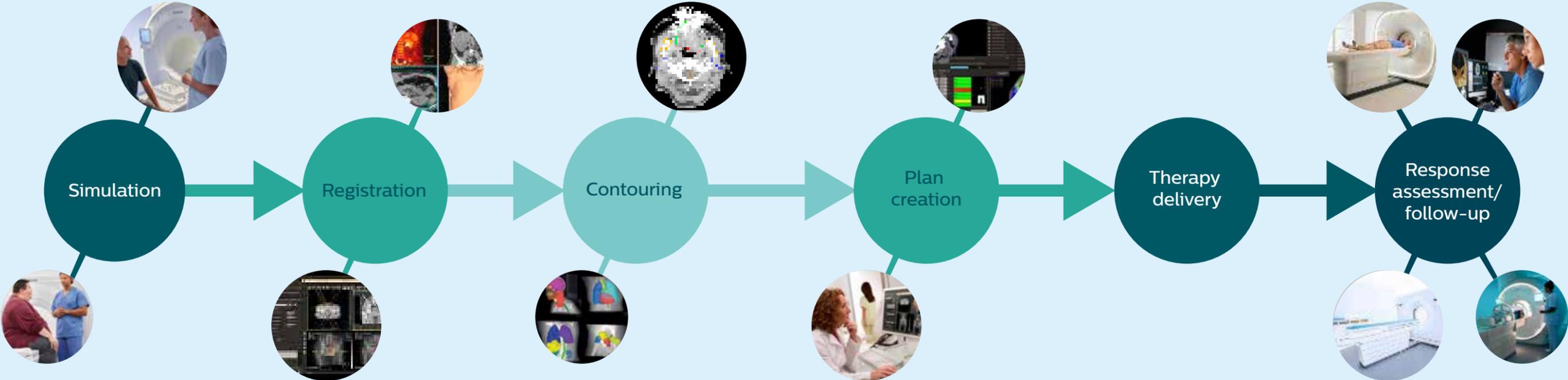
When you collaborate with Philips, you are partnering with a leading provider of dedicated radiation oncology offerings that span imaging to treatment planning. That puts us in a unique position to provide integrated tools, systems, and software to:

- **Increase accuracy** across imaging, planning, and treatment through high precision solutions that work smoothly together.
- **Accelerate** time to treatment with connected workflows and intelligent automation.
- **Maximize value** of your investment with a pipeline of innovations and support that help you continue to grow and evolve.
- **Improve** patient satisfaction by creating a positive, engaging environment to benefit the quality of care.

Proven portfolio of Philips Radiation Oncology Solutions

Philips is uniquely positioned to simplify radiation therapy workflows and enhance consistency from image to plan.

- Designed for Radiation Oncology, the **Big Bore RT** advances critical clinical decisions.
- **Pinnacle Evolution** is focused on the quality, consistency and efficiency of personalized therapy plans.
- Leading in dedicated MRI solutions for radiotherapy, including the next generation wide-bore digital MR-RT systems **Ingenia Elition** and **Ambition** and **MR-only simulation**.
- Collaboration and co-development partner of new integrated radiation therapy devices with industry partners.
- **Vereos Digital PET/CT** for screening and treatment response.
- **IQon Spectral CT** for oncology imaging – empowering you to improve your diagnostic certainty with spectral results 100% of the time, in a single, routine scan.
- **IntelliSpace Portal** for treatment follow-up and tumor tracking.



Increase accuracy across imaging, planning, and treatment.

Our solutions are designed to reduce uncertainties, improve accuracy, and enhance your ability to assess therapy response adapting the treatment plan if needed, helping you to confidently deliver consistent quality of care.

Big Bore RT is designed to provide precise treatment planning through enhanced accuracy in lesion identification, tissue density calculation, and segmentation. Exceptional image quality and the tools to manage and investigate are the foundation for confident decision-making.

Big Bore RT utilizes an 80kW generator and maintains image quality and Hounsfield Unit accuracy out to 60cm. The 70cm extended field of view boosts confidence in seeing the entire tumor. Through low-contrast resolution, lower dose/higher image quality, and virtually noise-free¹ images, iterative model reconstruction (IMR)¹ technology delivers visualization of fine detail and improved clinical accuracy in the detection and delineation of small, subtle structures.

4D CT with bellows and amplitude binning, include in the pulmonary tool kit for Oncology, helps improve accuracy in treatment planning and therapy delivery, even in irregular breathers.

To enhance accurate delineation of soft tissue, our **MR simulation platform** is designed for integration in the radiotherapy workflow. It acquires high-quality MR images in the treatment position with high geometric accuracy, helping you to better delineate soft tissue targets and organs at risk.

Pinnacle Evolution treatment planning system allows you to quickly perform re-planning and re-treatment planning with limited manual input. This empowers confident delivery of more accurate treatment plans and improves the consistency of the planning process.

¹ In clinical practice, the use of IMR may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task. Low-contrast detectability and noise were assessed using Reference Body Protocol comparing IMR to FBP; measured on 0.8 mm slices, tested on the MITA CT IQ Phantom (CCT183, The Phantom Laboratory), using human observers.



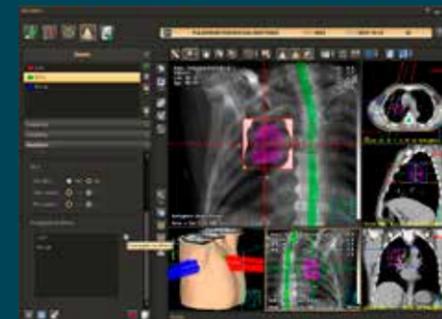
Solutions for diagnostic imaging, simulation, treatment response, and follow-up



Ingenia Ambition/Elition MR-RT is a comprehensive solution to smoothly integrate MR imaging in the RT workflow



IQon Spectral CT empowers you to improve your diagnostic certainty with spectral results 100% of the time, in a single, routine scan



Pinnacle with Tumor LOC integrates scanning and planning



Pinnacle Evolution Treatment Planning accelerates IMRT & VMAT planning

Accelerate time to treatment

Our solutions integrate workflows across imaging, planning, and treatment so you can standardize best practices and enhance patient care. Intelligent automation helps improve consistency and reduce time spent on labor-intensive tasks, accelerating time to treatment.

With **Big Bore RT** enjoy a personalized workflow for CT simulation imaging. iPatient, dedicated oncology ExamCards provide a standardized, patient centered approach to imaging simulation with consistency from scan-to scan.

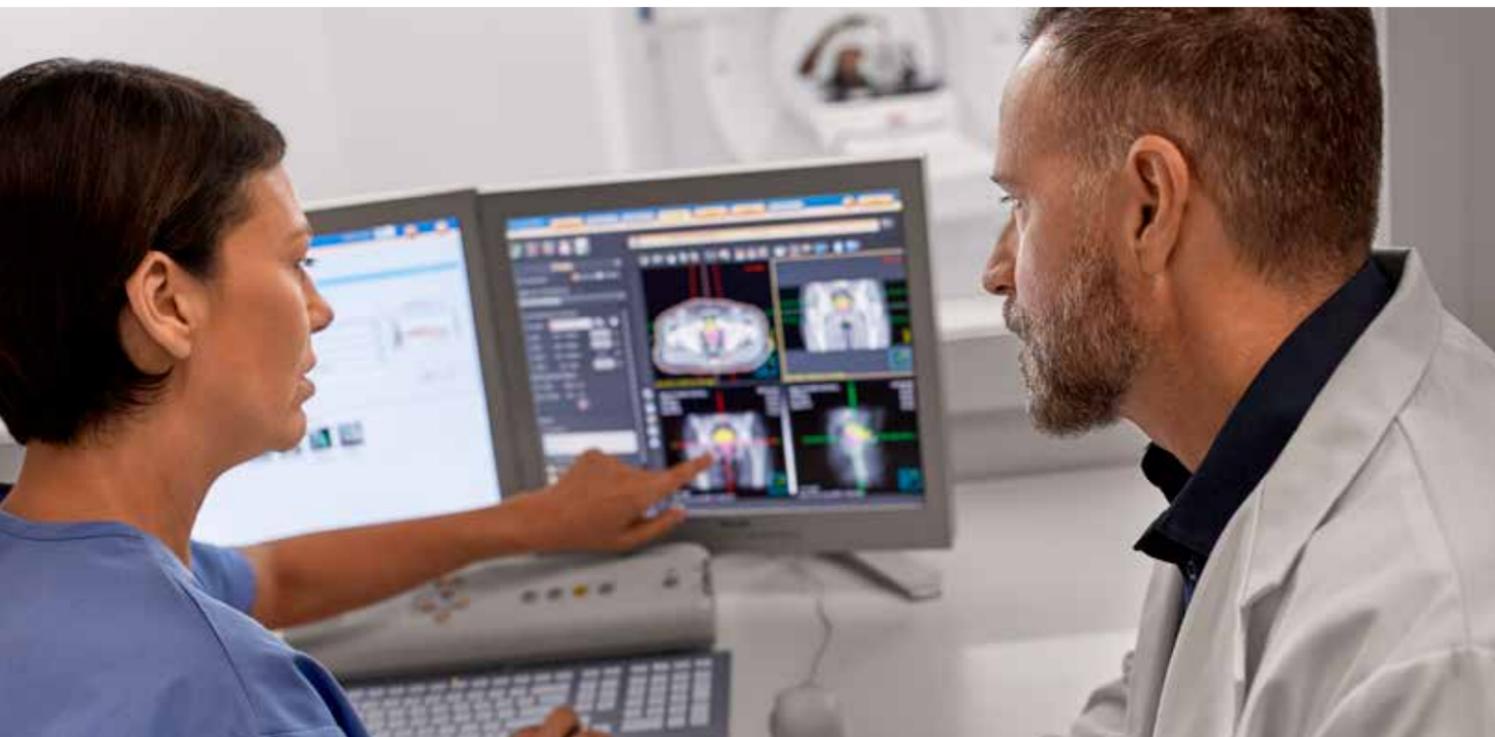
With reconstruction speeds of less than three minutes, for the majority of reference protocols, IMR improves image quality and advances 'autosegmentation'. Less manual intervention means fast contouring and short time to treatment.

For example, **RTdrive MR Prostate** automates many steps from imaging to plan, allowing you to create high quality plans on the same day¹ with minimal user input. With MR-only simulation you eliminate error-prone MR-CT

registration and start planning immediately after the MR-simulation scan.

Philips innovative MR-only simulation lets you plan radiation therapy using MRI as a single-modality solution. Within <15 minutes, it provides excellent soft-tissue contrast for target and OAR delineation, and density information for dose calculations.

Pinnacle Evolution provides fast personalized therapy plans by integrating patient specific clinical goals into innovative automated optimization technologies and streamlining the user experience.



¹ Tested in a non-clinical environment with single Pinnacle user and a 5-beam IMRT plan. Excluding time for optional manual adjustments. RTdrive MR prostate creates a treatment plan in 25 minutes.



Maximize value of your investment

As technology in radiotherapy evolves, investments must meet the demands of today, while giving you the ability to take advantage of new developments. Philips is dedicated to helping you master today's investment challenges and enables you to seize tomorrow's opportunities. As a committed partner, we provide flexible upgrade and service options, consulting services and continuous education programs to allow you to maximize the value of your investments over the entire life cycle.

Master today's challenges

Philips offers tailored financing solutions, award winning design services¹, and customized education support to help you establish a productive clinical practice quickly and efficiently. A broad range of upgrades and options allow you to evolve and grow your services to meet new developments and opportunities.

Seize tomorrow's opportunities

In the dynamic area of radiation therapy, you want to know you have a foundation for the future. Our products are designed with upgrades and options in mind and enables you to evolve and grow your clinical services. Our visionary partnerships have produced industry-leading innovations that are revolutionizing cancer treatment across the globe. In a our technology partnership with Elekta we are pioneering the use of MRI during treatment.

These and other strategic collaborations are fueling a pipeline of new breakthroughs that are set to redefine cancer care in the future.



Empower your teams to deliver

Specialists, dosimetrist and therapist, trained in your field lead courses and activities that support clinical excellence, instill confidence in the quality of exams, and enhance workflow and productivity.

New radiation oncology configurations can easily be added as an upgrade to already installed systems



¹ Philips (2016, September 22). IBA and Philips launch new patient-centric Ambient Experience solution for IBA's proton therapy system [Press Release]. Retrieved from: www.philips.com

Improve patient satisfaction

Radiotherapy treatment can be a burden for patients. The quality of the experience has been proven to correlate with outcomes, and patient satisfaction is becoming an increasingly important performance indicator.

Our solutions are designed to improve satisfaction for patients and their families by reducing time to treatment and enhancing comfort. And they help enhance clinical staff satisfaction by simplifying workflows allowing teams to spend more time focused on patient care.

Philips Healthcare Transformation Services provides a framework for long-term healthcare change. By collaborating with healthcare professionals, we deliver end-to-end, patient-centric services and solutions across the continuum of cancer care.

With an Ambient Experience designed CT room, 89% of parents found the experience better for their child at Noah's Ark Children's Hospital for Wales.



Accommodate complex setups easily
Patient setup on the Big Bore RT with access to the wide 85cm bore aperture is fast when compared to the more traditional 70cm bore.

More room to achieve optimal treatment position, helps facilitate complex procedures.



We create **meaningful innovations** for you

We realize that your needs are focused around:

- Coordinating multi-disciplinary care delivery
- Managing financial and quality assurances initiatives
- Improving patient satisfaction
- Adopting new technologies

Offering holistic cancer care begins with the patient. It looks beyond their disease to understand what matters to them and everyone connected along their journey. With so many different technologies, challenges for cost-effective, people-focused oncology care have never been greater.

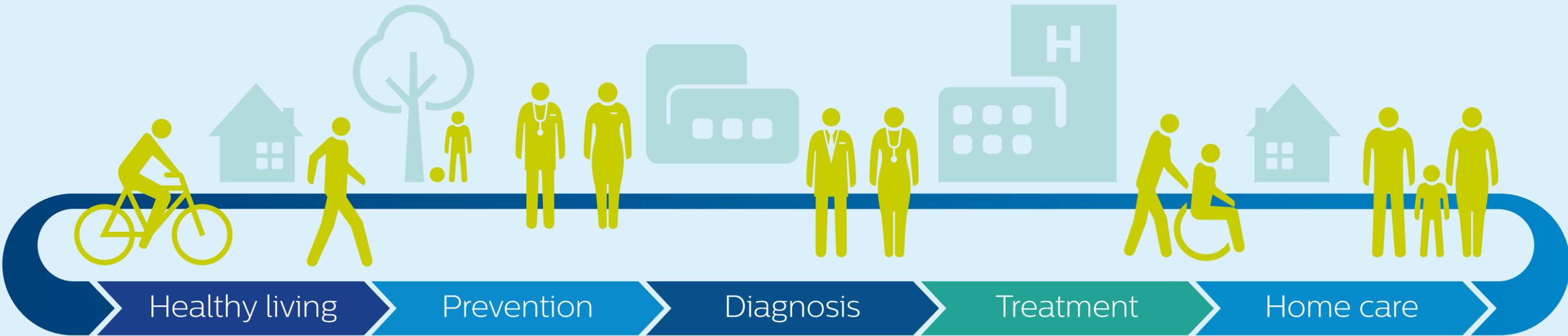
Together, with clinical expertise, rich data, and advanced analytical capabilities, we can create a new approach to cancer care, unlocking value based, patient centric solutions. Our advances in technology are helping us simplify operational and clinical processes and deliver more accurate results to improve patient care.

We invite you to join us on the confident path to the new world of radiation therapy.



Our vision in Oncology

Committed to supporting you in providing better cancer care, we are developing and delivering innovations that expand your reach in Oncology.



Improve population health outcomes and efficiency through integrated care, data analytics and value-added services.

Support people to live a healthy life in a healthy home environment.

Enable people to manage their own health.

Ensure confident diagnosis with personalized predictive care pathways.

Enable more effective therapies, faster recovery and better outcomes.

Support recovery and chronic care at home.

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Cancer incidence and related healthcare costs continue to grow. There is a big need to diagnose and treat patients in efficient settings. The key? You must combine using the best imaging and therapy capabilities, patient experience and lowest cost with the goal to improve patient care. We help make this possible with tools and services for imaging, supporting fast decision making and enable targeted, patient-specific therapy. With Philips, the future of personalized oncology is within your reach.

Digital Pathology

Work efficiently, speed up consultations, uncover new insights

Pathologists must seek more efficient means to support targeted, patient-specific therapy and accurate decision making. Philips IntelliSite Pathology Solution is the innovative solution to help your team to ultimately achieve outstanding results. It enhances diagnostic productivity with high-resolution digital images, collaboration features, and case management tools.

IntelliSpace Precision Medicine

Genomics

An automated, end-to-end precision medicine platform that automates molecular pathologists' workflow from loading the sequencing file through collaboration with oncologists and peers. Enabling genomic interpretation based on a comprehensive patient view to prioritize therapies and more accurately match clinical trials.

IntelliSpace Precision Medicine

Oncology MDT

A comprehensive platform integrating information from Hospital Information Systems across different clinical domains such as radiology, pathology, and genomics, thus enabling a comprehensive view of patient information and pathway to facilitate cross-disciplinary collaboration & communication to aid in treatment decision.



IntelliSpace Precision Medicine

With Dana-Farber pathways

Broad scientific rigor with deep clinical experience, encompassing the expertise of over 300 oncologists, scientists, pharmacists and a team of data scientists and informatics experts at Dana-Farber Cancer Institute (DFCI) and includes 31 medical oncology and 27 radiation oncology pathways. Providing data-driven guidance to help the broader cancer care team more easily navigate the increasing complexities of cancer care diagnostics and treatment options yet personalize each patient's treatment based on their biological characteristics.

Population health

Efficient health monitoring strategies

Philips provides healthcare professionals access to an end-to-end population management transformational program that connects the patient, family caregiver,

and healthcare professionals clinical team. Providing population health solutions with actionable information is at the core of Philips Service research and development initiatives, allowing organizations to monitor many patients over a long period of time with elderly accepted wearable technology.

We are committed to using an approach to enable healthcare professionals to partner at whatever stage of readiness for systems integration and technological innovation.

Philips Radiation Oncology Solutions

The confident path to treatment starts here

We invite you to join us on our journey to improve patient care, accelerate time to treatment, enhance patient satisfaction, and increase the value of healthcare technologies.

Contact your local Philips representative to learn more about how Philips Radiation Oncology Solutions can create a confident path to treatment for your radiation therapy services.

*Products listed may not be for sale in all markets.

