

PHILIPS

Radiation Oncology

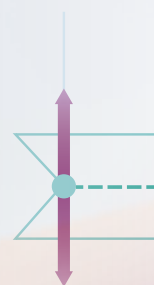
IntelliSpace
Radiation Oncology



Managing complexity to
**accelerate time
to treatment**



Physician
intent



“ In addition to decreasing the patients’ time to treatment, patients will also benefit when we as clinicians can consistently treat every patient to the highest quality levels.”

Dr. Russell Banner, Clinical Oncologist, South West Wales Cancer Centre, Swansea, UK

Simplifying complex radiotherapy workflows

The fragmented and labor-intensive process of navigating the radiotherapy treatment process is a challenge for every oncology professional.

From patient referral to start of treatment, workflows can be complex and inefficient, stealing precious time from you and your patient. Manual steps, divergent systems, unique users and limited integration can make it difficult to provide accurate and timely treatment.

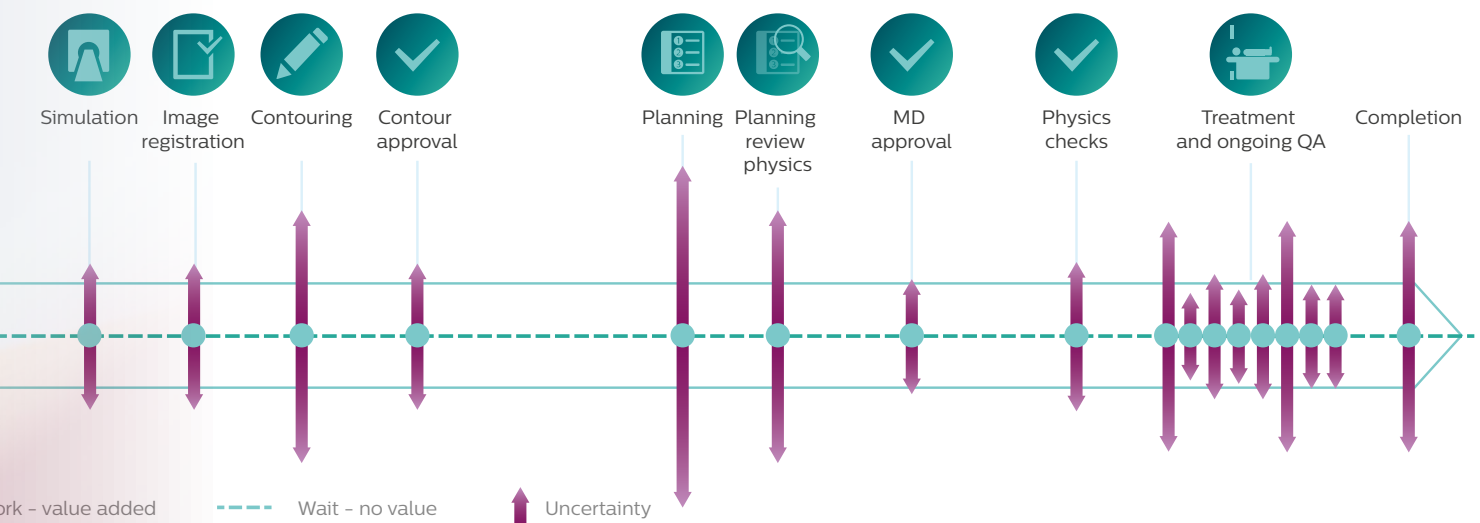
At Philips we understand your desire to inspire change – to drive efficiency and ultimately enhance the quality of care. Our goal, as a partner, is to streamline workflows and help you maintain consistency of practice, so your team functions more effectively, yet never loses sight of what's best for the patient.

A vehicle for change

Philips IntelliSpace Radiation Oncology is an intelligent patient management solution designed to accelerate time from patient referral to start of treatment by helping to manage complexity, improve efficiency and enable operational excellence.

By simplifying and shortening the process, more time can be devoted to the patient and individual attention paid to developing more personalized treatments in the ongoing search for better outcomes.

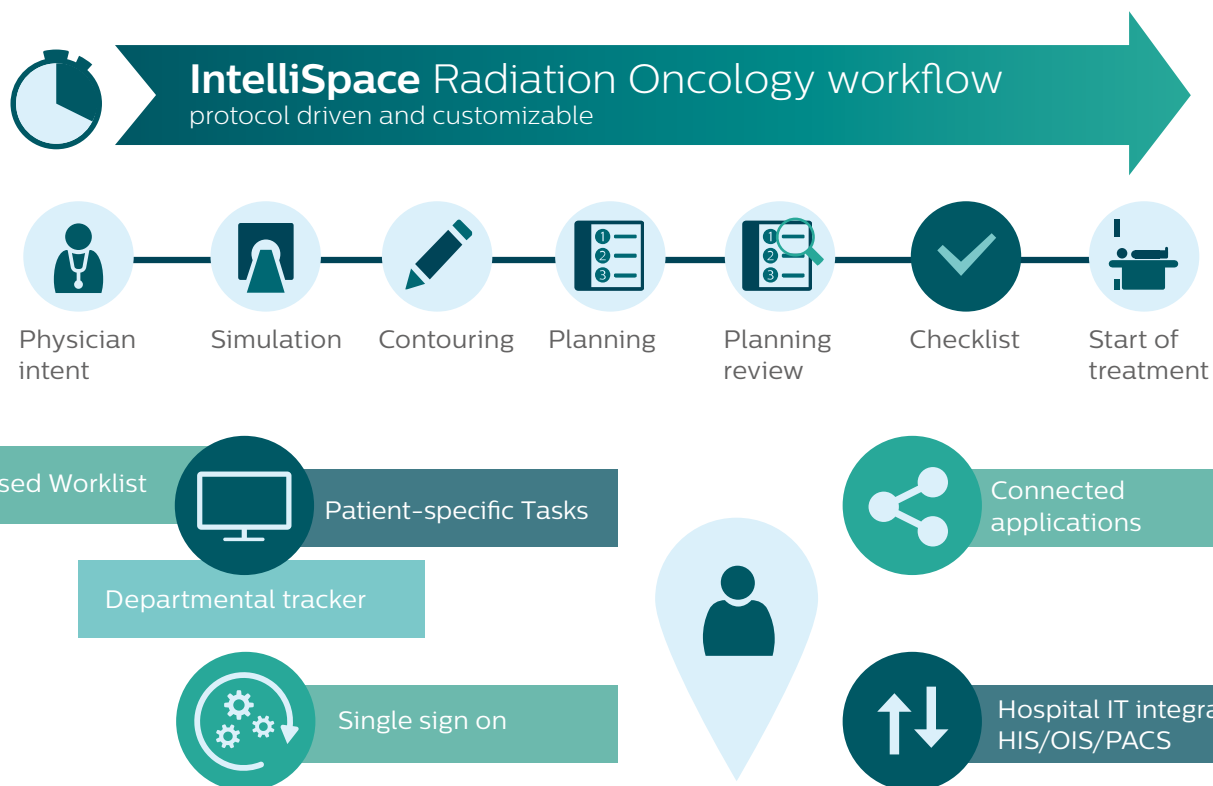
- Manage complexity
- Improve efficiency
- Enable operational excellence





Building bridges, **connecting workflows**

Radiotherapy workflows are multi-faceted with a sequence of differing tasks, each to be completed by a particular specialist. IntelliSpace Radiation Oncology builds bridges between these tasks and IT systems to streamline the interplay between people, applications and processes. Intuitive dashboards deliver relevant information to everyone's fingertips with direct access to external applications and a deep integration with hospital IT.





Philips IntelliSpace Radiation Oncology is:

- **Protocol-driven**
supporting your need to standardize, and automate workflows
- **Customizable**
offering you the ability to build and modify protocols and tailor functionality to suit your clinical and organizational needs
- **Open and flexible**
giving you the freedom to work with your preferred applications when and where you need them
- **Transparent**
providing you with information all users need right at their fingertips
- **Patient-centric**
helping you create a personalized, efficient treatment plan focused on what matters most, your patient

Manage Complexity



IntelliSpace Radiation Oncology helps to minimize workflow interruptions by applying standardized (yet customizable) processes and transparent communications to create a harmonized way of working.

Consistent protocol-driven workflows

IntelliSpace Radiation Oncology helps you standardize and automate your clinical workflows to implement best practices and reduce inter-operator variability using ProtocolCards as its backbone. A ProtocolCard is developed for each clinical pathway or indication, capturing physician intent and workflow tasks, and describing the relevant application(s) for the specific treatment. Each ProtocolCard is fully customizable to be in line with your department's processes and adaptable to fit the needs of individual patients.

Comprehensive overview of tasks and priorities

With clear prioritizations based on urgency and start of treatment deadlines, you may switch simply between intuitive dashboards that display user and department tasks. The Worklist shows tasks that are assigned to you or your team, while the Departmental tracker displays an overview of all patients in the workflow.

Guidance for patient-specific tasks

All patient-specific task information, based on physician intent, is presented in one place and in proper context through automatic capture from HIS. Shown in a timeline fashion, this information includes tasks previously completed, any changes to the default protocol, safety warnings, and notes related to each task. Before executing each task, the user is fully informed about the patient status.

Clear communication

Communication throughout the process is key to an optimal outcome. Radiotherapy workflows involve a significant amount of information exchange between different users. It is critical that no information be lost and that it be transferred to the right persons, promoting a smooth workflow without delays or unnecessary rework. The Shared notes feature is integrated into every step of the process, streamlining the ability to share insights and rationale for patient-specific requirements or any protocol deviations.

Examples of different protocol-based Task pages with information on patient specific tasks

Shared notes

Notes (3)

Type here

Clear

Submit

User name	Note	Date/Time
Johnson, Jim Radiation oncologist	Patient has tattoos from previous RT, use the same during positioning.	01-Mar-2018 10:40
Robinson, Jane Dermatologist	@Johnson, Jim I could not find the optic nerve. Please look into it.	03-Mar-2018 11:15
Johnson, Jim Radiation oncologist	@Robinson, Jane Connected. Nice check.	03-Mar-2018 12:55

Target contouring

Contours and Evaluation criteria Notes										
Target contours (4)										
ROI	Auto/Manual contouring	Type	Primary goal Dose (cGy)(RBE)	Primary goal Volume	Units	Secondary goal Dose (cGy)(RBE)	Secondary goal Volume	Units	Trade-off	
✓ PTV prostate		Min DVH	7410	99	%	7410	95	%	--	
✓ PTV Pros+ves		Min DVH	6650	99	%	6650	95	%	--	
✓ CTV seminal vesicles		Mean dose	7800	--	--	0.0	--	--	--	
✓ CTV Prostate		Mean dose	2000	--	--	0.0	--	--	--	

Comprehensive overview of tasks and priorities with intuitive dashboards

Departmental tracker – comprehensive overview of departmental workload and capacity



User-based Worklist – detailed overview of tasks at hand



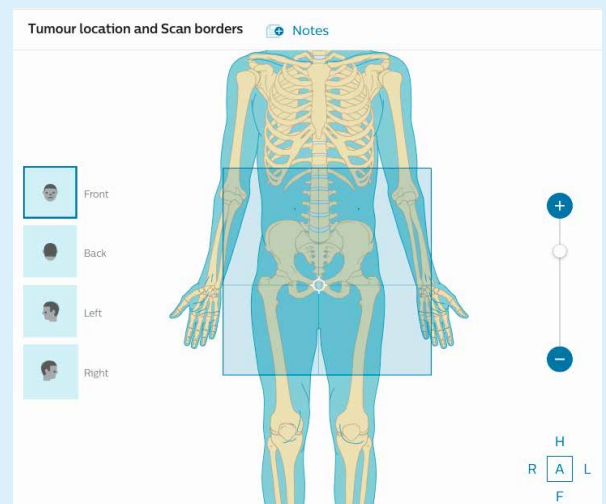
A ProtocolCard is capturing physician intent and workflow tasks, from imaging to treatment. Each ProtocolCard is fully customizable to be in line with the department's processes and adaptable to the individual patient.



Indexing of positioning devices

Specify positioning devices (13) Notes					
Device name	Index	Position	Incline	Rotation	Remark
✓ Thorax board	01	--	--	--	--
Right elbow support	--	B	K	T	--
Left elbow support	--	A	C	T	--
Right wrist support	--	U	--	C2	--
Left wrist support	--	U	--	C2	--
Head rest	--	32	--	--	--
Head rest elevation block high	--	--	--	--	Device not available
Head rest angle block 5 degrees	--	--	--	--	--
Head rest angle block 10 degrees	--	--	--	--	--
Head rest angle block 15 degrees	--	--	--	--	--
✓ Knee step	02	A	--	--	--
Knee step elevation block	--	--	--	--	--
Feet step	02	Q	05	--	--

Scan borders and tumour location for CT simulation





Improve efficiency



IntelliSpace Radiation Oncology helps to reduce multiple logins, repetitive efforts and data inconsistencies by automating routine tasks, fully integrating applications, and maintaining data integrity.

Easy access to remote applications

Users can access a range of relevant applications found in the hospital IT environment (such as contouring tools, and TPS) via the embedded application launcher. With login via remote desktop application, every application source becomes available via a single PC from virtually any location. This allows tasks to be conducted when and where needed, providing ultimate flexibility.

For selected applications context-sensitive launch and automated DICOM routing facilitate ease of information exchange and execution of automated functions helping save time and clicks.

Comprehensive interoperability

In order to offer specialized workflow solutions tailored to specific needs of an RT workflow, IntelliSpace Radiation Oncology allows broad interoperability with the hospital IT environment including OIS/HIS/PACS (by using HL7, DICOM, LDAP, AD). Relevant patient data is captured, consolidated and presented for demographic and oncology related information.

Open, vendor agnostic platform

In order to provide easy access and navigation to key applications, IntelliSpace Radiation Oncology has been designed as a vendor agnostic platform that uses open standards to fit your existing RT workflows and IT environment, without vendor lock-in.

Enable operational excellence

IntelliSpace Radiation Oncology helps to apply thorough quality control and ensure traceability of data by mitigating risks and documentation of complete patient treatment data.

Exceptional quality control

Built-in control measures alert the user about unusual or risk related parameters and deviations from the default protocol. Manual review option gives the user the ability to reject tasks, taking the workflow back to any previous task for correction. At the end of the workflow there is a mandatory checklist that must be completed before the treatment can be started.

Traceable patient history

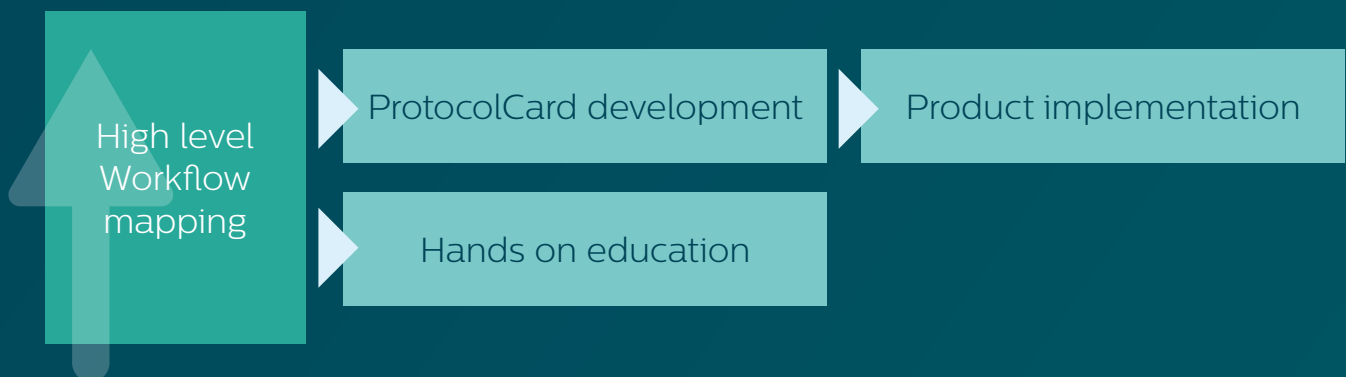
IntelliSpace Radiation Oncology allows clinicians to maintain the highest standard in patient history management. Every action and detail is carefully tracked, including protocol deviations and tasks completed. This helps to satisfy quality requirements by collecting a record of all information related to a patient's treatment. Easy traceability and audit of off-protocol practice is possible in the event of questions.

“ The IntelliSpace Radiation Oncology automation is going to be brilliant. But technology isn't the only answer. We are experiencing that the combination with Practice Management consultancy can truly streamline the radiotherapy workflow and allow us to improve clinical outcomes.”

Dr. Russell Banner, Consultant clinical oncologist,
The South West Wales Cancer Centre

Radiation Oncology Practice Management

Radiation Oncology Practice Management is a partnership solution offering a flexible suite of services, tools, and support to help enable optimal use of resources for effective patient-centric care. Each delivery of IntelliSpace Radiation Oncology includes a comprehensive set of Practice Management services. Philips collaborates with you to customize the product to meet your specific departmental requirements and workflows and tailors training to assure staff proficiency.



Practice Management modules as part of each delivery of IntelliSpace Radiation Oncology



Ready for the future

IntelliSpace Radiation Oncology is designed to help you keep pace with the dynamic environment and changing conditions of today's radiotherapy treatment processes. This scalable solution is positioned to grow and evolve with your ambitions, adding new functionality and new applications for a higher level of automation.

With IntelliSpace Radiation Oncology you can drive operational excellence by mitigating risk, documenting results, and discovering actionable insights for efficient and effective radiotherapy treatment delivery today and into the future.





“IntelliSpace Radiation Oncology looks at the workflow process from consent to treatment to actually delivering the first fraction. The ultimate goal is to try to automate and streamline the process as much as you possibly can.”

Doug Etheridge, Head of Clinical Technology, South West Wales Cancer Centre, Swansea, UK



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