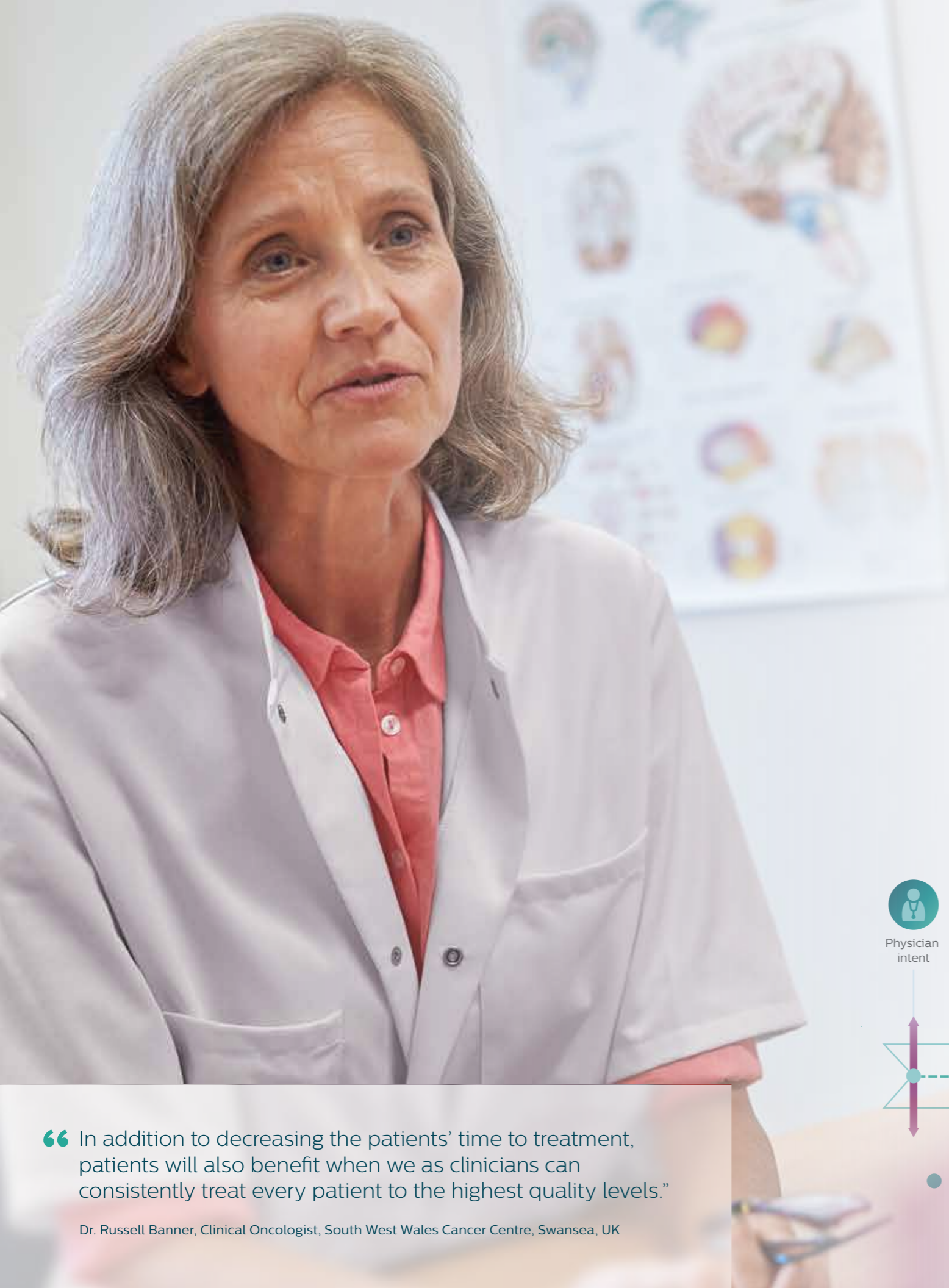**PHILIPS**

Radiation Oncology

Radiation Oncology
Orchestrator

Streamlining and accelerating

radiation oncology workflows

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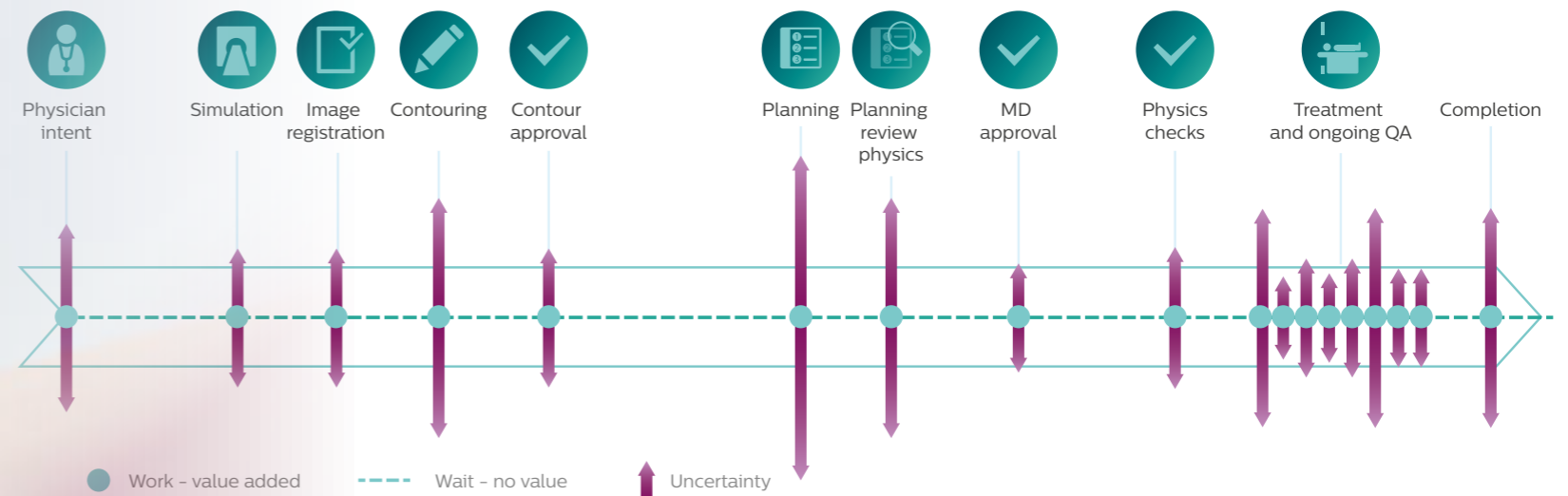
At Philips we understand your desire to inspire change – to drive efficiency and ultimately enhance the quality of care. Our goal, as a partner, is to streamline workflows and help you maintain consistency of practice, so your team functions more effectively, yet never loses sight of what's best for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

A vehicle for change

Philips Radiation Oncology Orchestrator is an intelligent patient management solution designed to streamline and accelerate radiation oncology workflows 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

Physician intent | Simulation | Image registration | Contouring | Contour approval | Planning | Planning review physics | MD approval | Physics checks | Treatment and ongoing QA | Completion

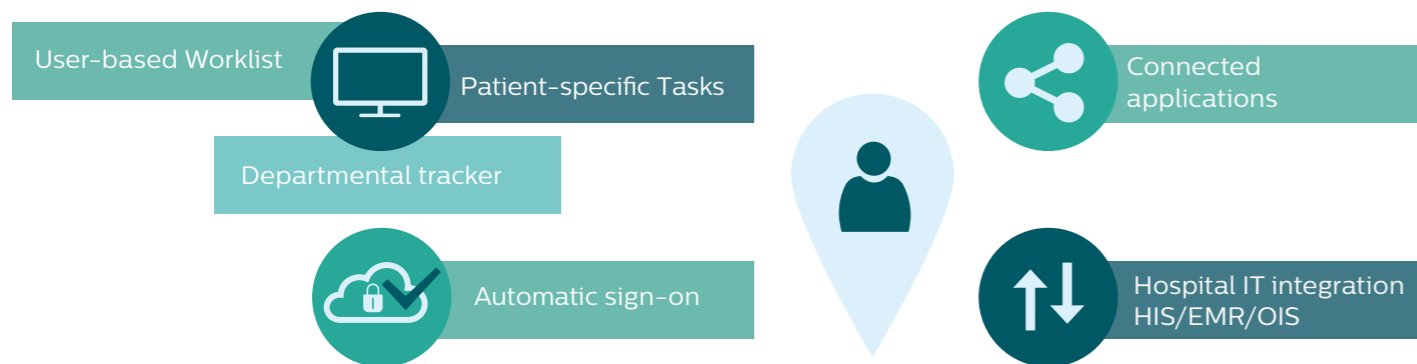● Work – value added   - - - - Wait – no value   ▮ Uncertainty

> 66 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

Building bridges, **connecting workflows**

Radiotherapy workflows are multi-faceted with a sequence of differing tasks, each to be completed by a particular specialist. Radiation Oncology Orchestrator builds bridges between these tasks and IT systems to orchestrate 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.

Radiation Oncology Orchestrator workflow
Protocol-driven and highly customizabe

Physician intent — Simulation — Contouring — Planning — Planning review — Checklist — Treatment

User-based Worklist
Patient-specific Tasks
Departmental tracker
Automatic sign-on

Connected applications
Hospital IT integration HIS/EMR/OIS

Philips Radiation Oncology Orchestrator is:

- **Protocol-driven**
  supporting your need to standardize, and automate workflows

- **Highly customizable**
  offering you the ability to build and modify protocols and tailor functionality to suit your clinical and organizational needs

- **Multivendor positive**
  giving you the freedom to work with your preferred applications when and where you need them

- **Truly collaborative**
  providing you with information users need right at their fingertips

- **Patient-centric**
  implementing personalized, efficient worfklows focused on what matters most, your patients

Manage complexity

Radiation Oncology Orchestrator 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
Radiation Oncology Orchestrator automates and streamlines your patient management workflows to help reduce your workload. It promotes a consistency of practice by decreasing inter-operator variability for a more harmonized way of working. Each clinical pathway is defined in detail using a ProtocolCard – this includes all tasks, users, and applications. ProtocolCards are fully customizable and adaptable to fit the needs of individual patients.

Comprehensive overview of tasks and priorities
Intuitive dashboards provide a comprehensive overview of both individual tasks as well as departmental workload and capacity. The Worklist and Departmental tracker are based on task urgency and start of treatment deadlines, with clear prioritization. Every team member can spend their time wisely, addressing the most relevant tasks first. The result – fewer delays and a more streamlined workflow.

Guidance through the radiation oncology process
All patient-specific task information is presented on task pages in one place and in proper context. You see tasks previously completed by others, any changes to the default protocol, safety warnings, and notes. With a paperless workflow and transparent communications, you can focus more clearly on the task to be completed. Less time is wasted looking for information.
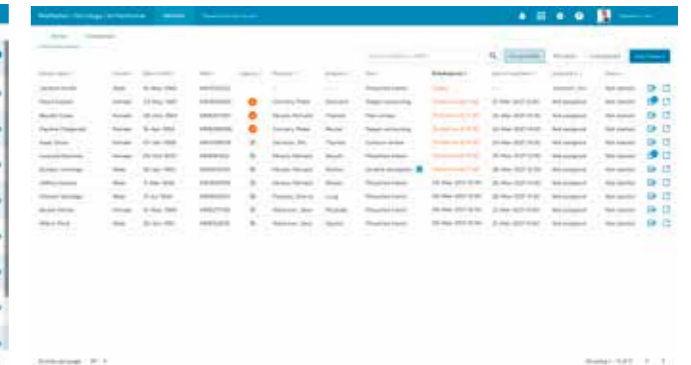
Cross-functional communication
Communication throughout the process is key to an optimal outcome. Radiotherapy workflows involve a significant amount of information exchange between different users. It is critical that no information be lost and that it be transferred to the right persons, promoting 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.

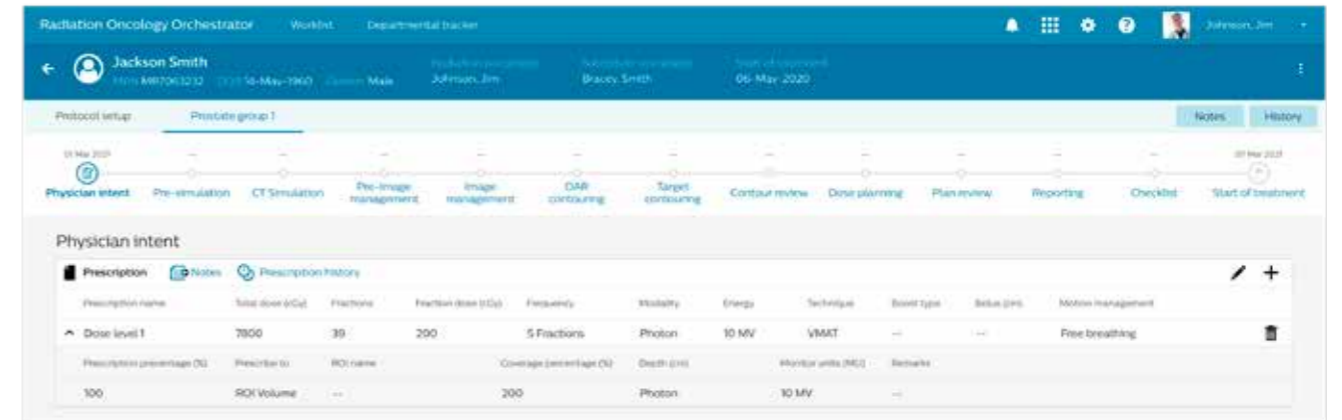## Comprehensive overview of taks and priorities with intuitive dashboards

Departmental tracker – comprehensive overview of departmental workload and capacity

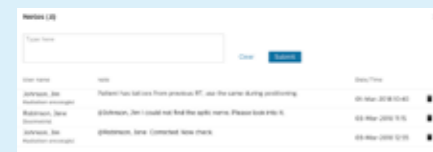**User-based Worklist** – detailed overview of tasks at hand

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.
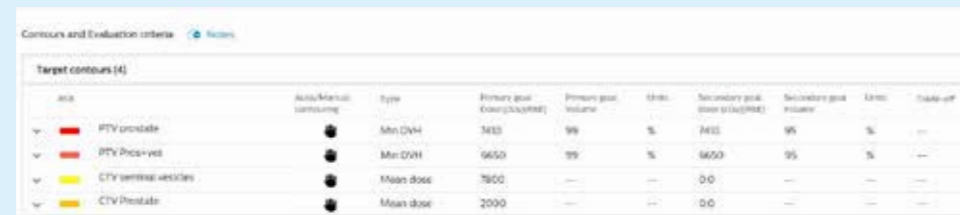

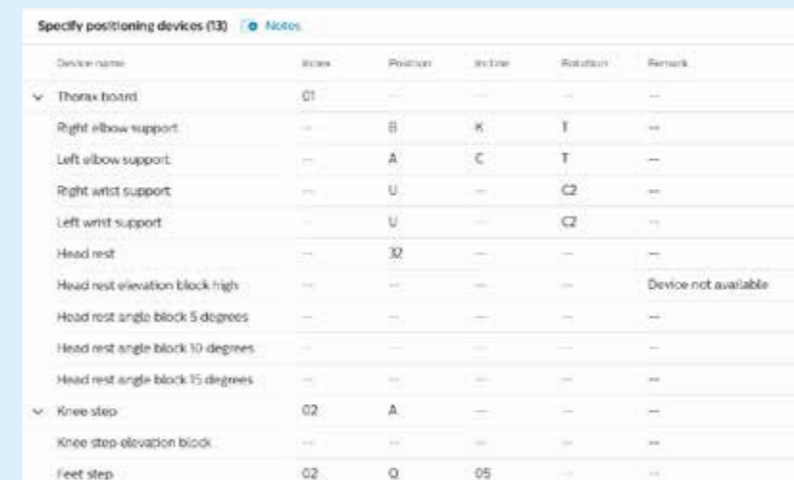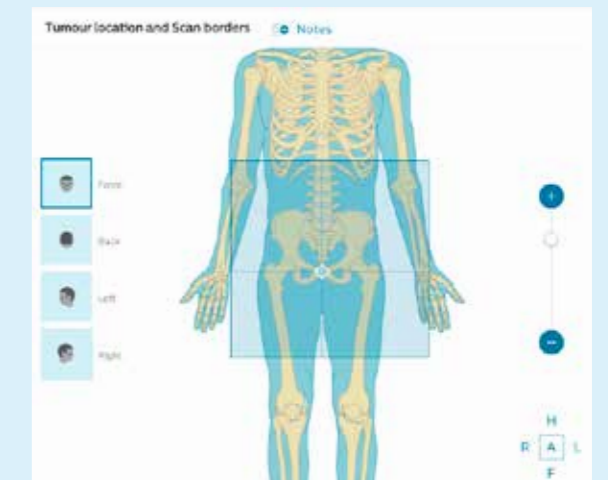## Examples of different protocol-based Task pages with information on patient specific tasks

Shared notes

Target contouring

Indexing of positioning devices

Scan borders and tumour location for CT simulation

Enable operational excellence

Radiation Oncology Orchestrator 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 is to be completed before the treatment can be started.

Traceable patient history
Radiation Oncology Orchestrator allows you 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 Radiation Oncology Orchestrator 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

Improve efficiency

Radiation Oncology Orchestrator helps to reduce multiple logins, eliminate repetitive efforts, and lessen data inconsistencies by deeply integrating applications, automating workflows, and maintaining data integrity.

Single access point to your preferred applications
Radiation Oncology Orchestrator allows for seamless integration with virtually all relevant applications in the radiation oncology environment. Designed as a multi-vendor positive solution it uses open standards to fit your existing workflows, applications, and IT infrastructure. You have a single-point of access to navigate easily between your preferred applications. And as login is browser based, you can access the information you need from virtually any location – via a workstation or tablet. This allows you to conduct tasks when and where needed, helping you to work efficiently and flexibly.

Save time and clicks
With a single point of access, fewer authentications and passwords are required, speeding direct access to all connected applications. Automated data routing between Radiation Oncology Orchestrator and connected systems (including treatment planning systems, simulators, contouring, and QA software) saves time and clicks, and reduces workload.

The right information at the right time
Through HL7 connectivity with HIS, EMR, and OIS, relevant patient information and demographics are automatically captured, consolidated, and presented, facilitating ease of information exchange.
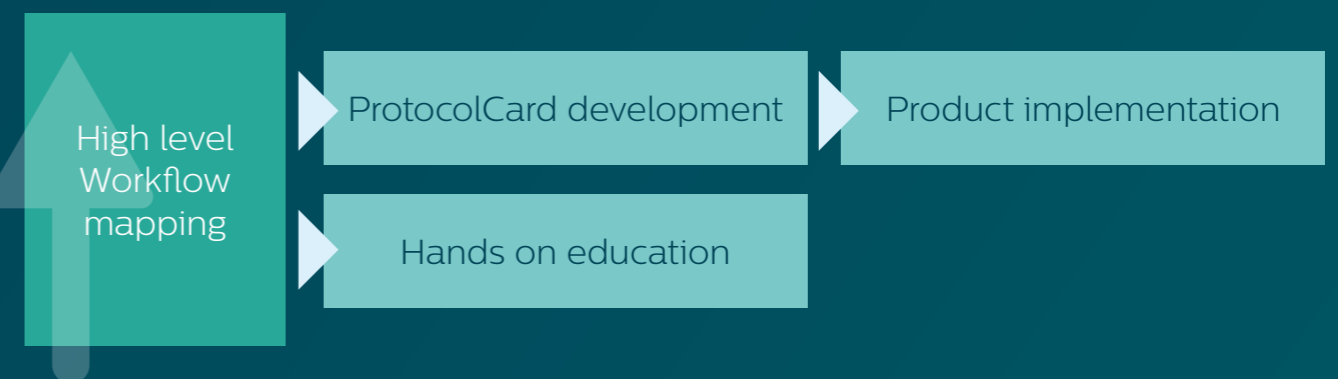Radiation Oncology Orchestrator integrates with selected applications by offering functionality such as context-sensitive launch and seamless data exchange for maintaining data integrity and automating workflows.
A simple push of a button brings you to the connected application and correct patient file with appropriate information necessary to continue the specific task at hand.

Effective IT management
Radiation Oncology Orchestrator is powered by Philips HealthSuite on Premises (HSOP). This consolidated Radiation Oncology IT platform supports clinical applications based on industry standards for virtualization, interoperability, and security.

Customization and configuration with integral Practice Management support

You have great flexibility to customize Radiation Oncology Orchestrator – from the overall care pathway design, down to the specific views and level of information shown in the dashboard and individual task pages. Each delivery of Radiation Oncology Orchestrator includes a comprehensive set of Practice Management services. Philips experts work with you to thoroughly map your clinical pathways and to configure the ProtocolCards to meet your specific departmental requirements. And integral training assures staff proficiency.

High level Workflow mapping → ProtocolCard development → Product implementation

High level Workflow mapping → Hands on education

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

Ready for the future

Radiation Oncology Orchestrator 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 Radiation Oncology Orchestrator 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.

> "Radiation Oncology Orchestrator 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

Radiation Oncology Orchestrator is not available in all markets.
Please contact your local Philips sales representative about local availability.

How to reach us
Please visit www.philips.com/ROO
healthcare@philips.com