PHILIPS

Radiation Oncology

Bring clarity and personalization
closer to the point of care

Philips Multimodality Simulation Workspace

The climbing cost of care

Cancer treatment is becoming increasingly complex and expensive. As hospitals strive to deliver high quality care, they're relying on a mix of incompatible or limited solutions to accomplish complicated clinical tasks. With new cases projected to rise about 70% over the next 20 years*, efficiency will be paramount, requiring streamlined workflow and seamless collaboration across diverse specialties.

The many possibilities of multimodality

In simulation and treatment planning, multimodality has the potential to provide profound clinical benefits—but barriers prevent ease of access and extend the process. Images and data are siloed into disparate systems while image fusion and contouring remain complex clinical tasks. The tools available to accomplish these tasks are often limited and incomplete.

What if all images and datasets across multiple systems could exist on a single platform—accessible from virtually anywhere?

At Philips, we believe the solution lies in an intuitive, integrated workspace for multimodality simulation with a suite of tools that bring clarity of use and patient personalization closer to the point of care. Which is exactly what we created.

*WHO International Agency for Research on Cancer https://gco.iarc.fr/today/data/factsheets/cancers/39-All-cancers-fact-sheet.pdf

Philips Multimodality Simulation Workspace

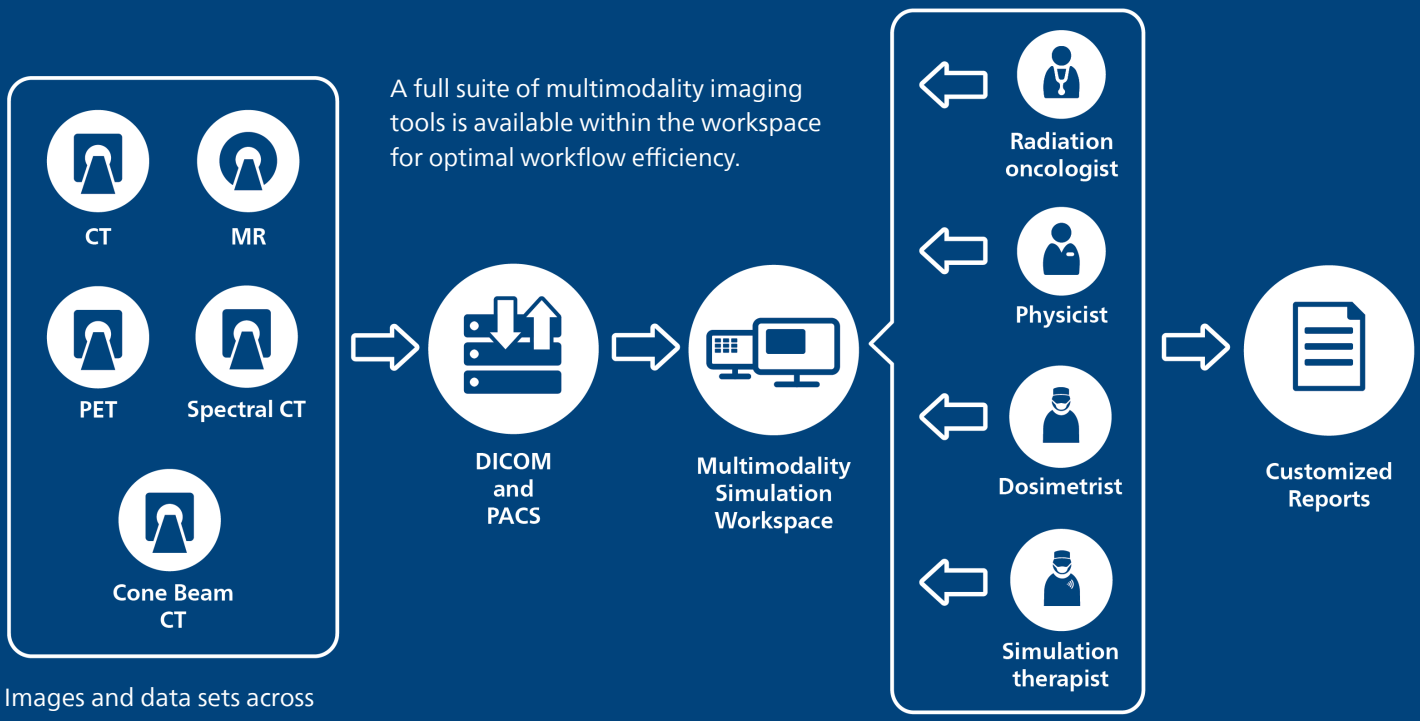
Bringing clarity and personalization closer to the point of care

Multimodality Simulation Workspace is a vendor-neutral image simulation platform that supports image fusion and contouring for all available images and data sets. It provides clinical teams with the tools necessary for multimodality image fusion, AI-driven auto-contouring, and efficient collaborations—helping to reduce patient wait time while providing quality care.

The Multimodality Simulation Workspace provides:

- A vendor-neutral, task-centered solution with easy, clear navigation
- A single space for multimodality image fusion and contouring
- Efficient, consistent multimodality simulation

How it works:



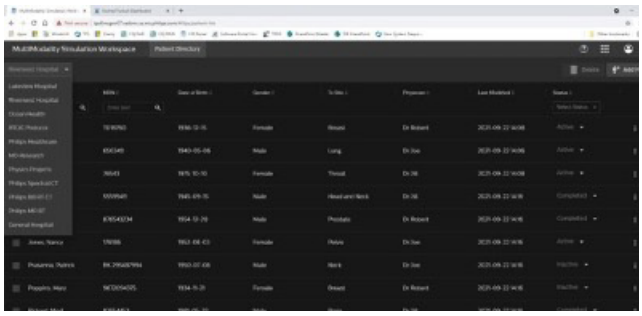
Images and data sets across multiple systems are acquired, regardless of vendor, and aggregated into one platform, ready for planning.

All members of the clinical team can access the information and collaborate on clinical tasks in real-time.

Accessible. Efficient. Intuitive.

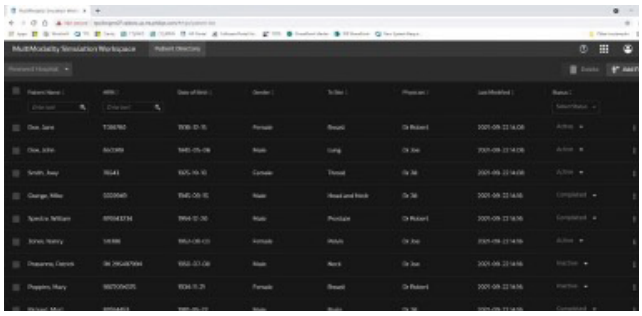
A vendor-neutral, task-centered solution with easy, clear navigation

Multimodality Simulation Workspace provides a single sign-on dashboard accessible from any web browser with just a physician's hospital credentials. It collects all available images and datasets across disparate systems, regardless of vendor, to one centralized location, streamlining clinician workflow from simulation to treatment planning.



Easy-to-navigate patient dashboard

Designed to support institutions with multiple locations, Multimodality Simulation Workspace allows clinicians to create and store institution-specific patient lists. Plus, the platform features LDAP integration so physicians can easily and securely log on from any web browser with just their hospital credentials.



Agile interface interactions

Organize, filter, and search patients from their name or MRN. Create multiple plans for a single patient, link images from any source to a patient, and export images directly from the dashboard.

Focus. Fusion. Definition.

A single space for multimodality image fusion and contouring

Philips has leveraged years of comprehensive experience as a multimodality imaging company to develop a single, central platform for multiple imaging systems, regardless of vendor. Multimodality Image Simulation Workspace offers robust capabilities including AI-driven auto contouring, rigid and deformable registration, and allows physicians to set application preferences for optimal workflow.

Integrated support for a range of image types including:

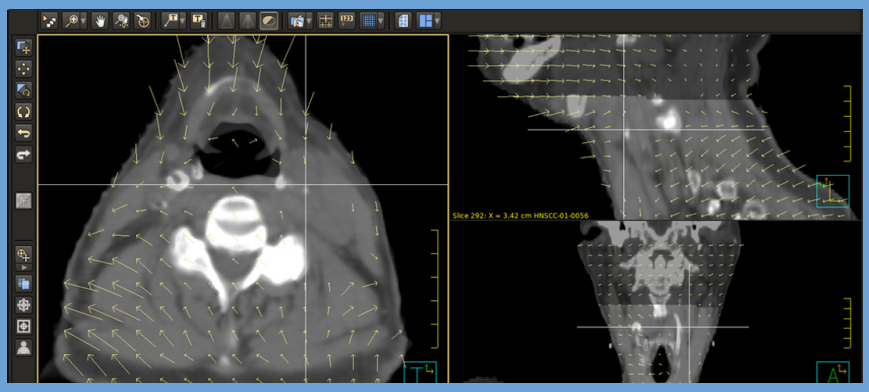
- Oblique MR
- mDixon
- MR Synthetic CT
- Spectral CT

Preferential selection from an array of contouring applications:

- Atlas-based SPICE
- Model-based Segmentation
- MIM Protégé AI

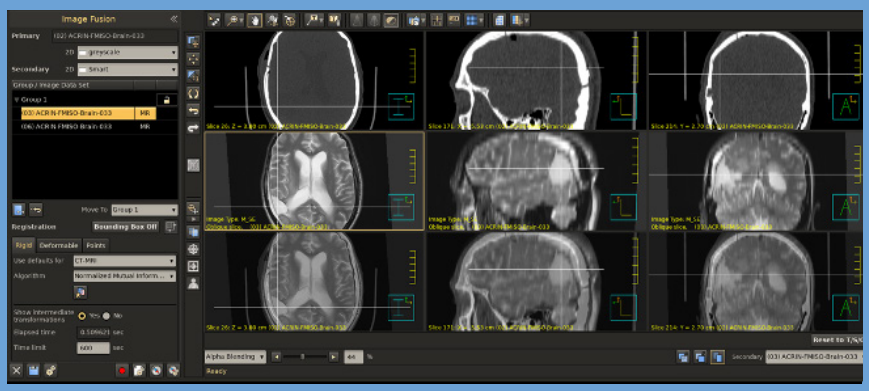
  MIM is an AI auto-contouring tool powered by MIM Protege.

Comprehensive imaging capabilities



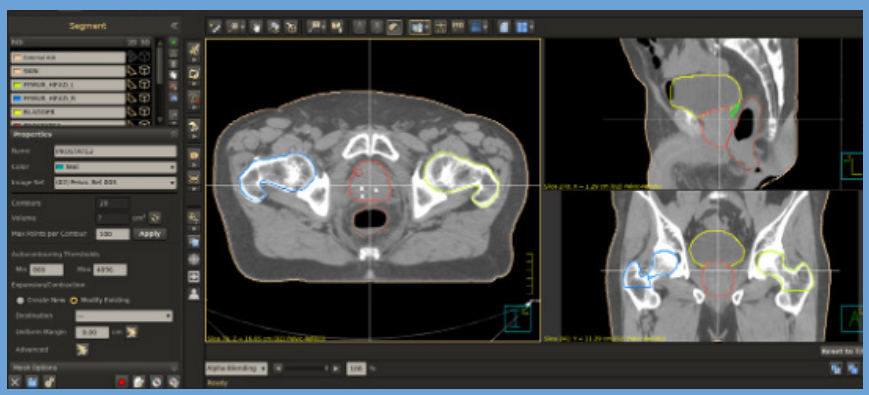
Registration and Fusion

Confidently assess quality of deformation with multiple tools for rigid and deformable registration.



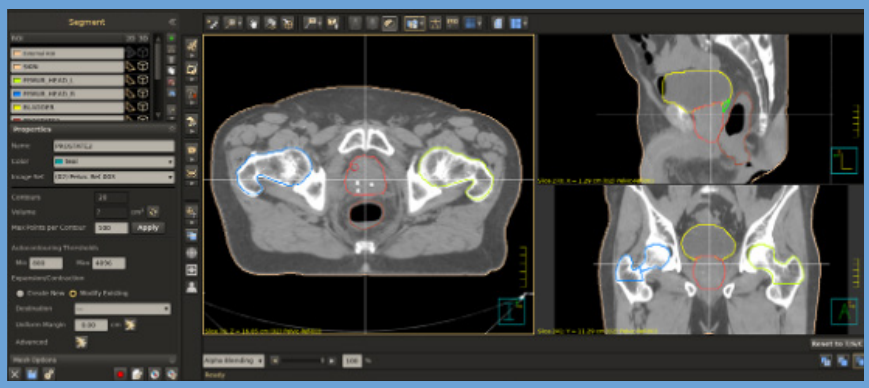
Contouring

MR soft tissue characterization capability assists in target and critical organ contouring. Fuse one of several MR Sequences with a CT dataset for synchronized contouring.



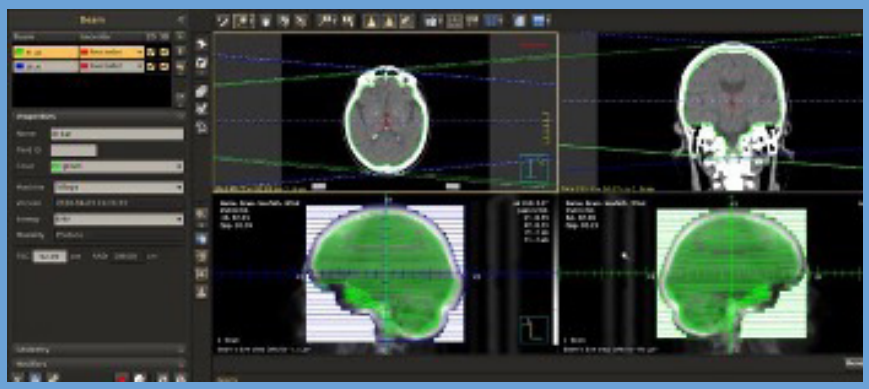
Auto-contouring with intelligent segmentation

Run comprehensive SPICE auto-contouring tools, or model-based segmentation, directly in the contouring workspace to save time.



AI-driven segmentation

Users can mix and match segmentation tools, using different algorithms for different organs on the same dataset.



Navigation Pathways

Emergency simulation can be completed in just a few minutes. Automation allows multiple tasks to be performed simultaneously, such as simulation and beam placement.

4D Simulation

Confidently target and assess lesion motion at selected breathing phases while generating MIP, min-IP, and avg-IP CT applications

Powerful. Dependable. Prepared.

Efficient, consistent multimodality simulation

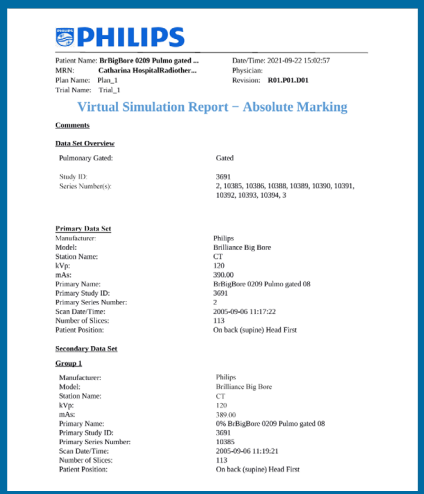
The Multimodality Simulation Workspace offers the ability to create custom Navigation Pathways to automate sequential workflow processes, helping to accommodate diversity in treatment modalities while minimizing workflow complexity. Our full suite of tools support remote collaboration between specialists, helping you improve staff communication and streamline the workflow.

Automated navigation pathways

Help improve efficiency by automating standard processes. Clinicians can define specific Navigation Pathways based on personal preferences, institutional practices, and task requirements. Keep all practice locations connected by correlating pathways across the institution.

Customized institutional reports

Multimodality Simulation Workspace offers the opportunity to create custom institutional report templates. Export simulation and image fusion reports directly from the workspace.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Patient Name: **BrBigBore 0209 Pulmo gated ...** Date/Time: 2021-09-22 15:02:57
MRN: **Catharina HospitalRadiother...** Physician:
Plan Name: Plan_1 Revision: **R01.P01.D01**
Trial Name: Trial_1

Virtual Simulation Report – Absolute Marking

Comments

Data Set Overview

Pulmonary Gated:	Gated
Study ID:	3691
Series Number(s):	2, 10385, 10386, 10388, 10389, 10390, 10391, 10392, 10393, 10394, 3

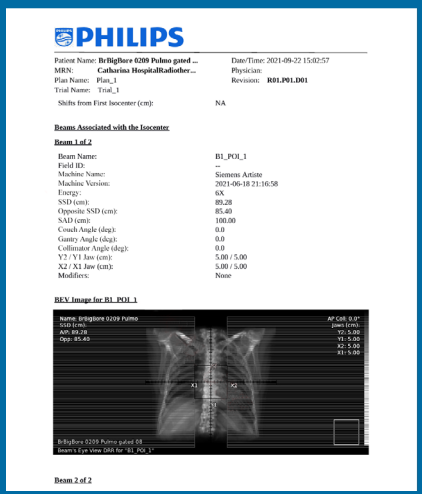
Primary Data Set

Manufacturer:	Philips
Model:	Brilliance Big Bore
Station Name:	CT
kVp:	120
mAs:	390.00
Primary Name:	BrBigBore 0209 Pulmo gated 08
Primary Study ID:	3691
Primary Series Number:	2
Scan Date/Time:	2005-09-06 11:17:22
Number of Slices:	113
Patient Position:	On back (supine) Head First

Secondary Data Set

Group 1

Manufacturer:	Philips
Model:	Brilliance Big Bore
Station Name:	CT
kVp:	120
mAs:	389.00
Primary Name:	0% BrBigBore 0209 Pulmo gated 08
Primary Study ID:	3691
Primary Series Number:	10385
Scan Date/Time:	2005-09-06 11:19:21
Number of Slices:	113
Patient Position:	On back (supine) Head First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MRN: **Catharina HospitalRadiother...** Physician:
Plan Name: Plan_1 Revision: **R01.P01.D01**
Trial Name: Trial_1

Shifts from First Isocenter (cm): NA

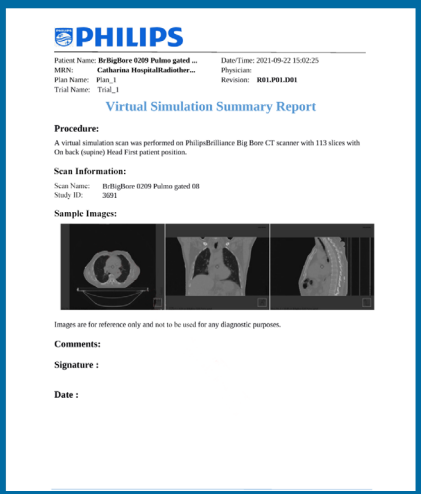
Beams Associated with the Isocenter

Beam 1 of 2

Beam Name:	B1_POI_1
Field ID:	--
Machine Name:	Siemens Artiste
Machine Version:	2021-06-18 21:16:58
Energy:	6X
SSD (cm):	89.28
Opposite SSD (cm):	85.40
SAD (cm):	100.00
Couch Angle (deg):	0.0
Gantry Angle (deg):	0.0
Collimator Angle (deg):	0.0
Y2 / Y1 Jaw (cm):	5.00 / 5.00
X2 / X1 Jaw (cm):	5.00 / 5.00
Modifiers:	None

REV Image for B1_POI_1

Beam 2 of 2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Patient Name: **BrBigBore 0209 Pulmo gated ...** Date/Time: 2021-09-22 15:02:25
MRN: **Catharina HospitalRadiother...** Physician:
Plan Name: Plan_1 Revision: **R01.P01.D01**
Trial Name: Trial_1

Virtual Simulation Summary Report

Procedure:

A virtual simulation scan was performed on PhilipsBrilliance Big Bore CT scanner with 113 slices with On back (supine) Head First patient position.

Scan Information:

Scan Name: BrBigBore 0209 Pulmo gated 08
Study ID: 3691

Sample Images:

Images are for reference only and not to be used for any diagnostic purposes.

Comments:

Signature :

Date :

Clear. Personalized. Closer to the point of care.

Philips Multimodality Simulation Workspace integrates and utilizes robust patient data from multimodality images to help clinicians provide better care for cancer patients.

Aspire to the quadruple aim

Vendor-neutral, task-centered solution with easy, clear navigation

Single space for multimodality image fusion and contouring

Efficient, consistent simulation

- Improved patient experience
- Better health outcomes
- Improved staff experience
- Lower cost of care

- Patients may benefit from a shorter wait time between simulation and treatment
- Constant access to multimodality images can enhance confidence in planning
- Streamline and standardize workflows with easier collaborative capabilities
- Hospitals may benefit from the ability to increase throughput

TumorLoc module of the Pinnacle3 RTPS software will be enhanced to give Multi-Modality simulation work space functionality

1 Multimodality Simulation Workspace is a new feature of the TumorLoc module, part of Pinnacle RTPS.

2 Patient information is fictional and for marketing purposes only. It is not representative of real patient data.

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