

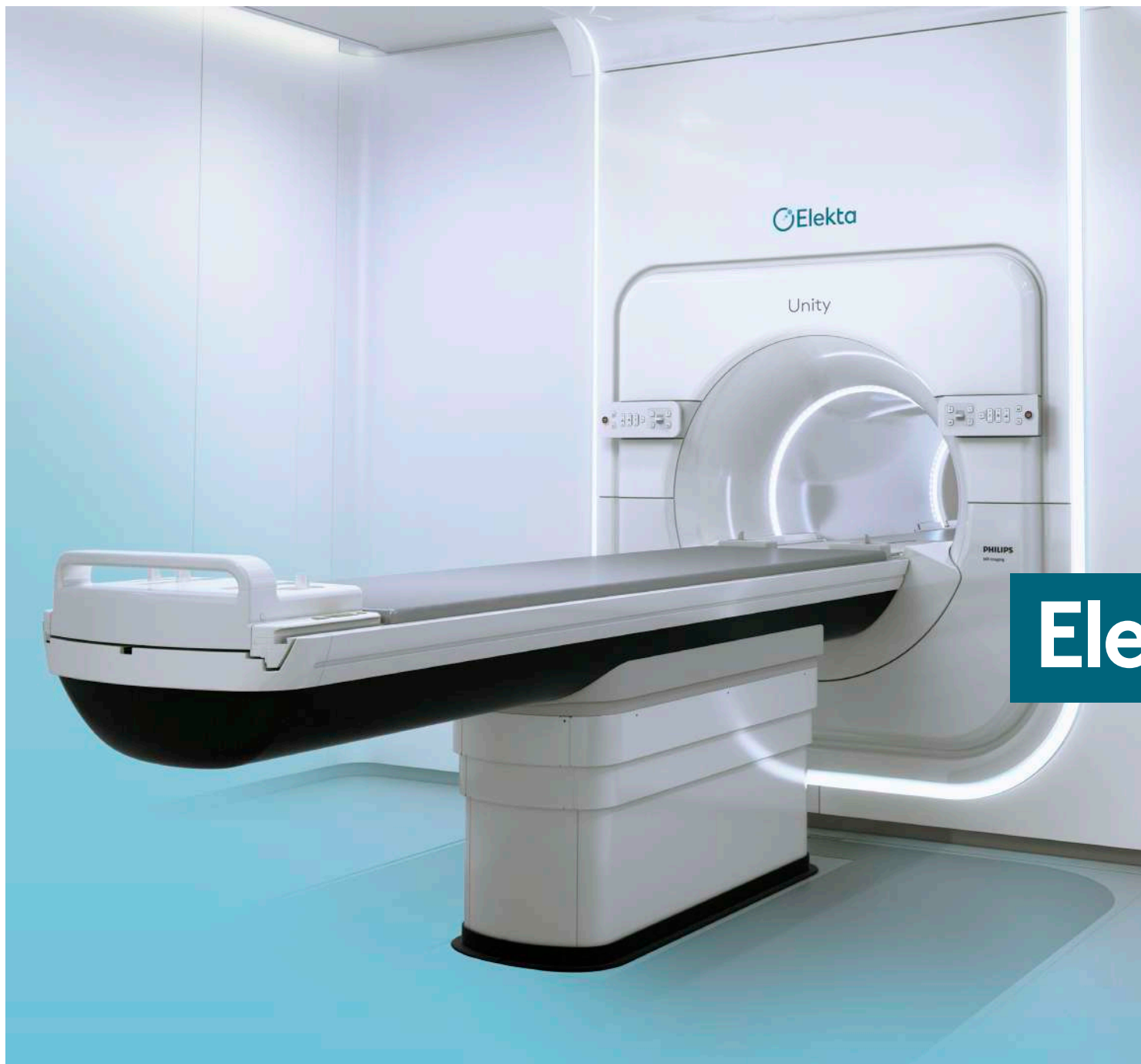


Elekta

Unity

Elekta Unity

Two worlds,
one future.



Elekta Unity

See the difference with MR/RT

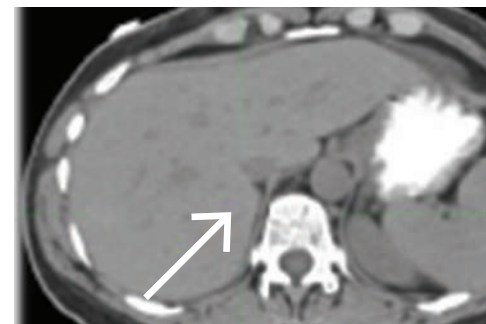
Now the tumor has nowhere to hide.

It is our goal to help you deliver the best possible radiotherapy, for every patient, every time. Designed in collaboration with industry-leading experts and world-renowned cancer research institutions, Elekta Unity—our breakthrough MR-Linac technology—positions you at the forefront of patient-centric cancer care.

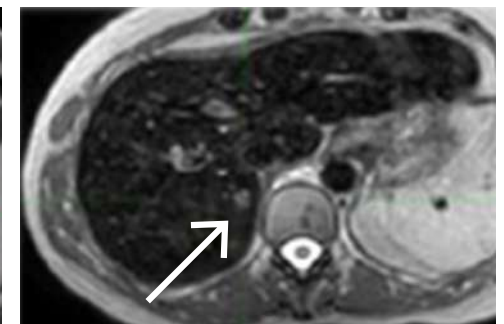
With the introduction of magnetic resonance radiation therapy (MR/RT), it is now possible to get crystal-clear imaging at the point of care. Elekta Unity provides visualization of the tumor and surrounding healthy tissue

with unparalleled soft tissue contrast. The ability to see clearly—along with real-time adaptive radiotherapy and real-time tumor monitoring capabilities—enables true personalized therapy, at a level not possible before.

Elekta Unity enables real-time personalization in radiation therapy and expands treatment options for all cancers including hard-to-treat cancers.



CT



MRI

Courtesy of Froedtert & the Medical College of Wisconsin



Elekta Unity

Real-time personalization

Real-time adaptive therapy delivered with real-time tumor visualization.

Radiation therapy is an important part of a cancer patient's journey. Every patient is unique—each patient has unique treatment needs. Being able to adapt the treatment based on the needs of the patient is essential to achieving the best possible outcomes. Elekta Unity transforms the conventional radiotherapy workflow to a SCAN-PLAN-TREAT approach—to truly enable personalized radiotherapy for every patient, every time.



SCAN

Daily patient MRI scan detects day-to-day changes in patient anatomy



PLAN

Fast real-time adaptive capabilities help you re-optimize the treatment plan and replan to account for interfraction changes



TREAT

The radiation is delivered with continuous target visualization throughout treatment

SCAN

Isotropic visualization in
five different ways with
sub-millimeter resolution.

See clearly.

By visualizing anatomy with the Unity system's five different
tissue contrasts, see daily tumor changes in:



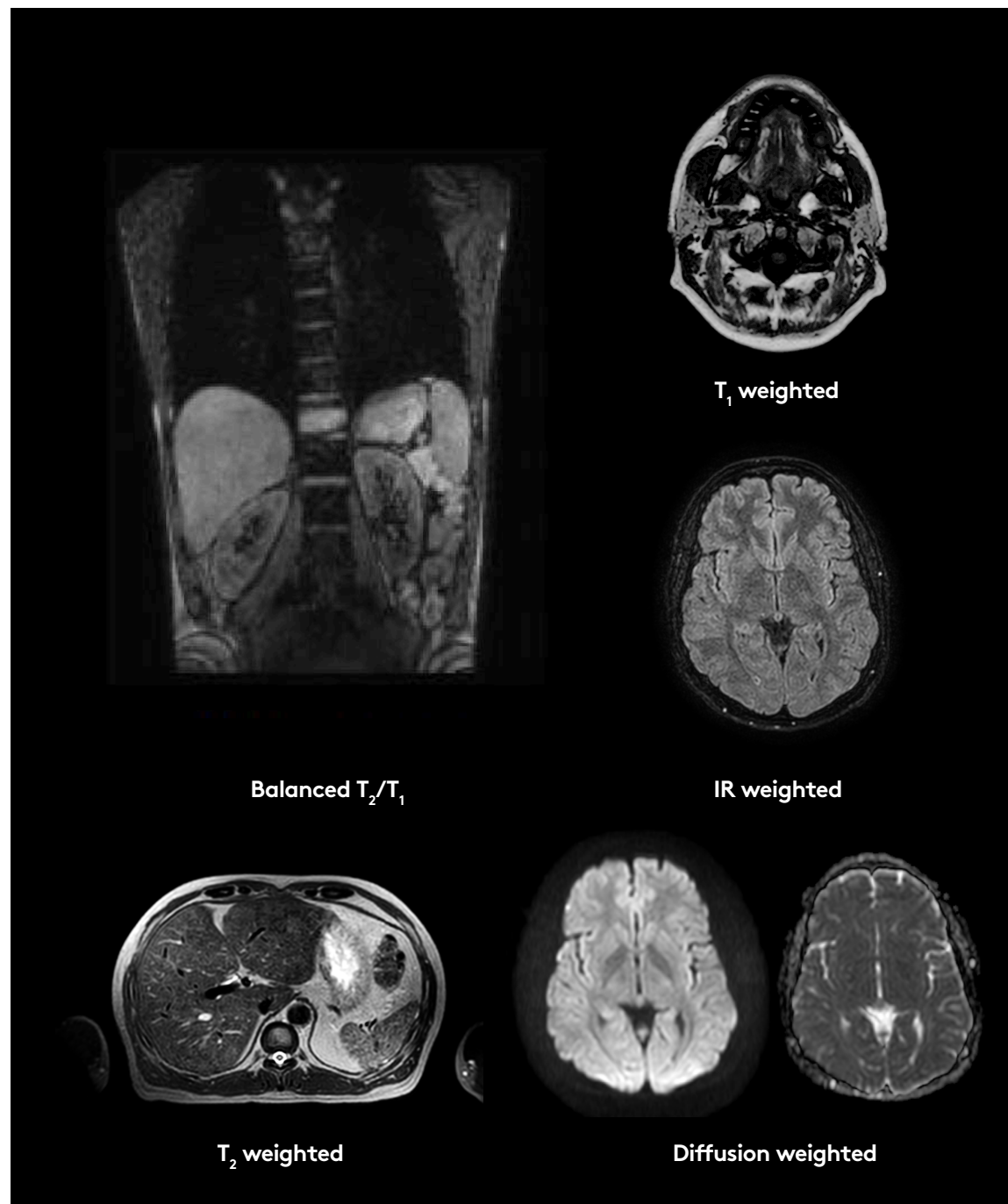
Position



Size



Shape



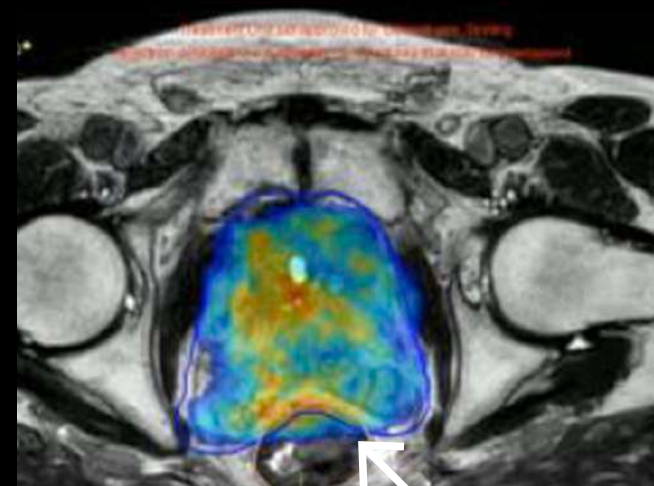
PLAN

Real-time adaptive planning for online dose reshaping.

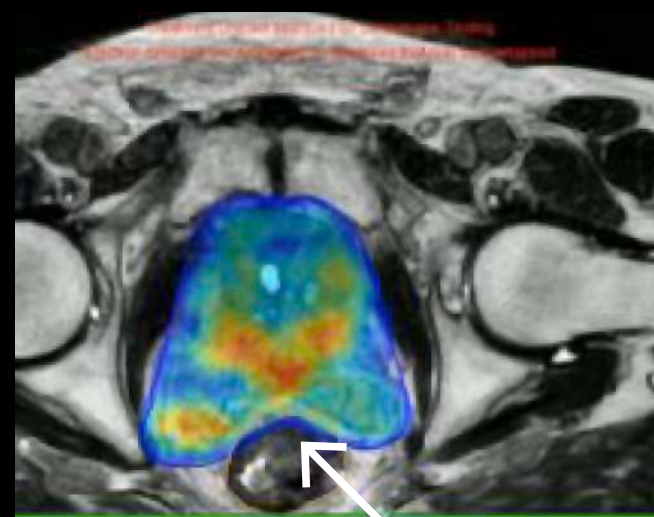
Act fast.

Fast adaptive planning workflows allow you to respond to day-to-day changes in the patient.

- Adapt to Position: A simple adaptive solution using fast rigid registration
- Adapt to Shape: A comprehensive plan re-optimization solution using deformable registration
- GPU Monte Carlo dose calculation: Models dose in a magnetic field, enables replanning in minutes
- Make fast on-the-spot clinical decisions based on the system's predictive insights
- High resolution treatment planning and delivery with virtual leaf width technology



Without plan adaptation



With plan adaptation

Images courtesy of Netherlands Cancer Institute, NKI

TREAT

See the tumor in three planes while you treat with stereotactic precision.

Treat with precision.

Unity allows you to see and monitor anatomical motion in real-time during treatment.

- Continuous imaging in three orthogonal planes at five frames per second during irradiation and gantry motion
- Gain visual confidence to reduce margins and expand treatment options

Real-time target visualization

Axial



Coronal



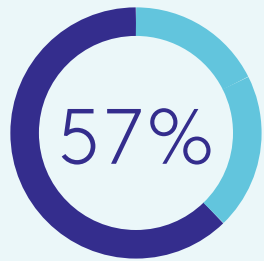
Sagittal



Images courtesy of Froedtert & the Medical College of Wisconsin

Transform your care

Unity gives you the potential to transform your service and the opportunity to develop new clinical paradigms to improve outcomes, even for hard to treat cancers.



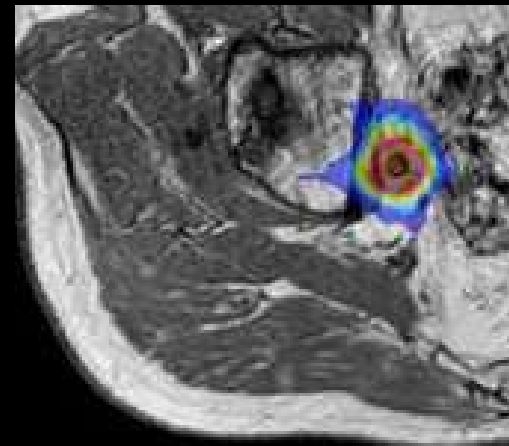
of all cancers occur in the **lungs, breast, prostate, colon, stomach, liver, rectum, esophagus and cervix uteri***



8 out of 9 of these cancers are in difficult-to-visualize soft tissue anatomies*

“Elekta Unity provides clear visualization of the daily changes in anatomy and enables daily dose reshaping and treatment adaptation to maximize the dose delivered to the tumor and minimize dose to healthy tissue.”

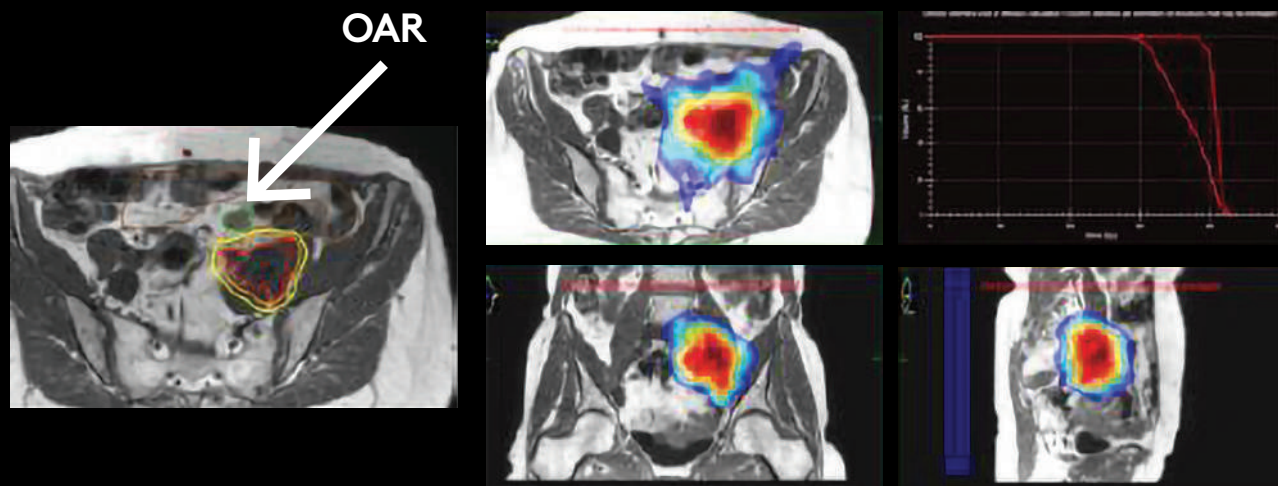
Dr. Ina Schulz-Jürgenliemk,
UMC Utrecht, the Netherlands



Case 1: **Stereotactic precision**

High resolution MR imaging enables clear visualization and stereotactic treatment of small targets

* Globocan 2018. <https://www.uicc.org/news/new-global-cancer-data-globocan-2018>



Case 2: Avoidance of OAR with enhanced visualization

Superior soft tissue contrast and visualization of critical structures enables OAR sparing and limits normal tissue complication probability

“The main challenge in this case was to avoid toxicity to the neighboring OAR. The visualization provided with Elekta Unity enabled the 30Gy isodose to avoid the OAR”.

University of Tübingen, Germany

“This lesion was invisible on CT or contrast-enhanced CT (IV CT) but it is visible on an MR image—without the use of contrast agents. We are now able to see what we treat as we treat it”.

Froedtert & the Medical College of Wisconsin, USA

Case 3: See what you treat

Superior visualization of target and surrounding OAR to ensure confidence in treatment delivery



Elekta Unity

State-of-the-art technology

Unity delivers on all fronts—we combined state-of-the-art technologies with ergonomic design to give you unparalleled advantages and enable precise, personalized treatments.



Unity 1.5T MRI delivers:

- Unmatched magnet field homogeneity and geometric accuracy
- State-of-the-art, RF receiver coils and gradients
- MR imaging protocols tailored for radiation therapy
- No effect on MR imaging with gantry rotation during irradiation

Unity 7MV FFF linac features:

- Slip ring gantry
 - 360° gantry rotation
 - Next generation 6 RPM gantry speed
- Fully integrated, industry leading Agility MLC
 - High speed jaws and MLC provide reliable real-time leaf positioning with 1 mm accuracy

We designed Unity with the patient and user in mind.

Unity features a patient-centric design:

- Short, wide bore with integral lighting reduces anxiety
- Soft couch enhances patient comfort
- Ambient in-room lighting elevates patient experience
- Philips RF-SMART technology minimizes SAR tissue heating
- Philips SofTone technology reduces acoustic noise

The Unity system's user-centric design enables:

- Easy patient set-up and positioning with a laser-free workflow
- '1-click' image acquisition
- Streamlined, 12-click adaptive therapy workflows



Leadership in MR/RT

Unity makes being the best, using the best, and sharing with the best a true reality.

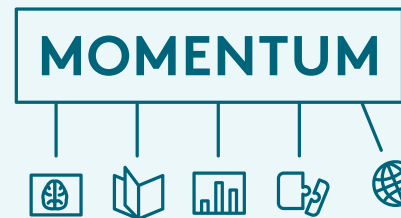
Unity has helped our customers become leaders in MR/RT, giving them unequalled advantages of state-of-the-art MR imaging and precise radiation therapy. When you become a Unity user, you are entitled to join our MR-Linac best practice and knowledge sharing consortium.



MR-Linac
CONSORTIUM

World-leading MR/RT consortium

- Participate with MR-Linac consortium in defining technology direction
- Gain peer-to-peer support on clinical workflows and MRI protocols
- Participate in the MOMENTUM study and evidence-based practice of MR/RT



MOMENTUM—a platform to aggregate routine technical and clinical Unity patient data

- To improve algorithms that drive online adaptive workflows
- Support standardization of treatment and MRI protocols
- Facilitate outcomes studies
- Evidence development to support MR/RT reimbursement

Powered by

PHILIPS

MR imaging

Best-in-class MR/RT technology partnership

We are proud that, through the development of Elekta Unity—bringing together the expertise and strengths of Elekta, Philips and world-renowned cancer research institutions—precision radiation medicine is being delivered by Unity users around the globe.

Elekta Care™ Service

**You Focus on the patient,
we focus on you**

Our focus is on you – helping you get the highest uptime possible and ensuring your Unity solution can be utilized to its full capabilities. Comprehensive service and support provide you with confidence that your Elekta system will be available when you need it to keep patient treatments on schedule. Robust learning programs and training resources enable you to push the boundaries of your clinical capabilities, ensuring clinical excellence every day. Our ongoing partnership is an integral part of your investment, helping you maximize your system's lifetime value.

Designed to help you meet your clinical, operational and financial goals at all times, Elekta Care Service provides a comprehensive portfolio of customer services that supports you from product installation throughout the lifetime of your system.



**Confidence in
system availability**

**Excellence in
clinical capability**

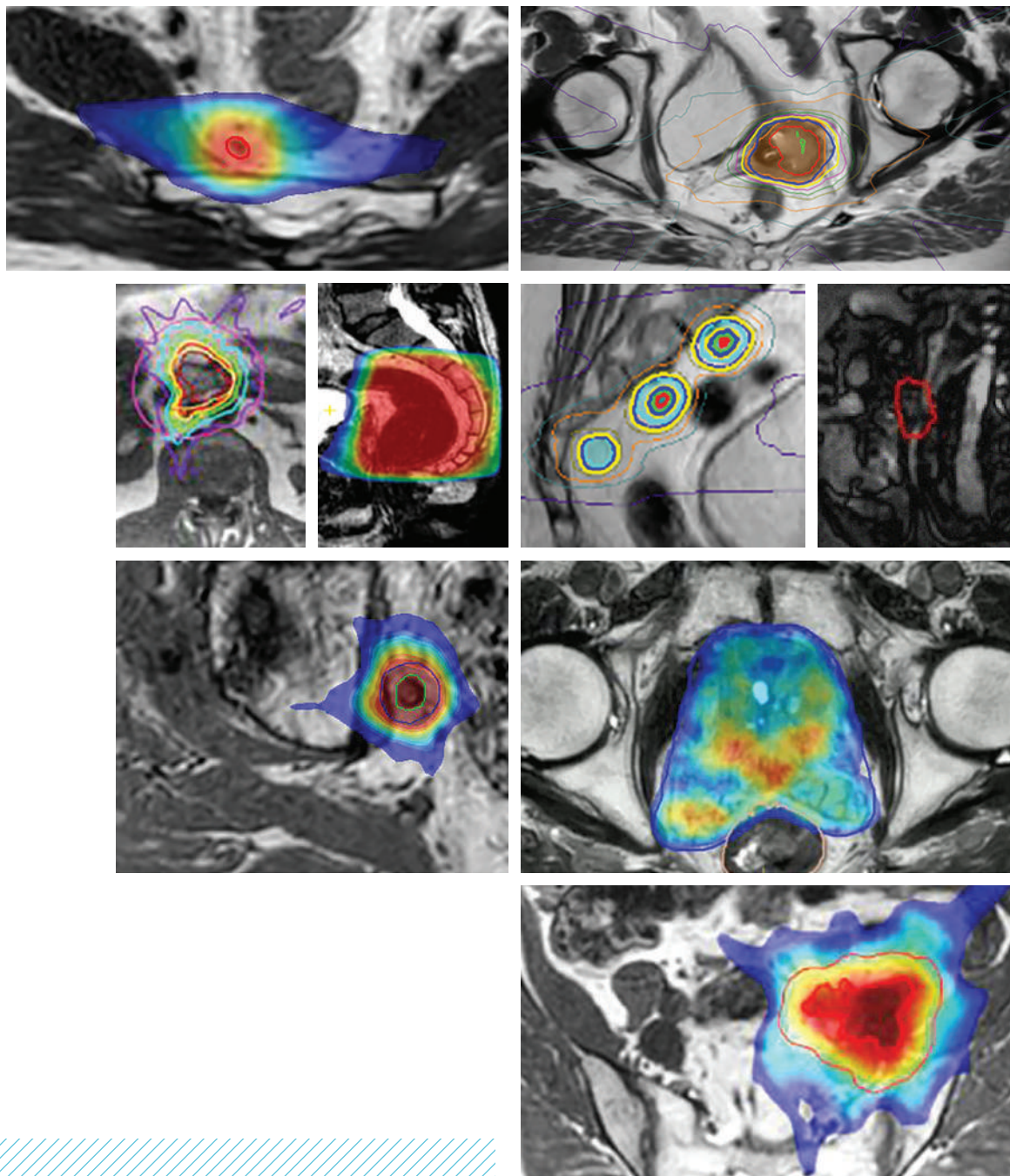
**Partnership to maximize
the lifetime value of
your investment**

Elekta Unity

Elekta Unity defines a new standard for personalization in the delivery of precision radiation medicine.

The future of cancer care is personalized and interdisciplinary. By bringing state-of-the-art 1.5 T MRI and breakthrough real-time adaptive radiotherapy to the point of care, the cancer care team will now be able to probe, learn and respond to anatomical and biological changes in the patient, in the moments that matter most.

Elekta Unity provides a platform for clinical excellence to help you deliver the best radiation therapy for every patient, every time.





For almost five decades, Elekta has been a leader in precision radiation medicine.

Our nearly 4,000 employees worldwide are committed to ensuring everyone in the world with cancer has access to—and benefits from—more precise, personalized radiotherapy treatments.



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