

Elekta Studio

Unleash the full potential of
interventional radiotherapy



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Introduction

Elekta Studio

Welcome to the world of possibilities with Elekta Studio*, where you can unleash your full potential as a physician and transform how you approach cancer treatment.

Elekta Studio empowers you with an adaptive and optimized approach that ensures greater accuracy, safety, and comfort for your patients. With all the integrated essential elements, you can focus on what truly matters—providing your patients with the best possible care and outcomes.

This e-book is designed as a resource for your transformative journey with **Elekta Studio**.

As we explore its capabilities, you will learn from current users how it revolutionizes facility planning, development, and treatment, opening up new horizons in cancer care.

Elekta Studio
Unleash the
full potential of
interventional
radiotherapy



*Elekta Studio is comprised of multiple medical devices, some of which may not yet be available in all markets. Confirm availability with your local Elekta representative.

Chapter 1

1.1 The origins of Elekta Studio

A Customer-Driven Innovation that Enhances Brachytherapy Workflow and Outcomes

Marjolein Idzes, Director of Marketing Strategy at Elekta, sheds light on how customer feedback shaped the journey of Elekta Studio.

Marjolein recalls that initially, real-time prostate treatment introduced the concept of consolidating everything in one room. Elekta Studio emerged as a comprehensive single-room solution integrating ImagingRing, a dedicated table, applicators, afterloaders, and a planning system.

She adds: “ Elekta Studio’s introduction has changed how we engage with customers [...]. We invite them to reflect on waiting times, resource allocation, and the overall patient workflow overview.”

The customer-centric approach allows us to tailor Elekta Studio to physicians’ needs, optimizing their brachytherapy workflow and addressing challenges like applicator movement during patient transportation. By actively involving our customers in the development process, we ensure that Elekta Studio aligns perfectly with their clinical requirements, empowering them to deliver the best possible patient care.

Discover Elekta Studio

A customer-driven innovation



1.2 Discover our Motivations

The development of Elekta Studio stemmed from a quest to create an exceptional imaging device specifically designed for interventional settings.

Maarten ter Mors, VP and Head of Marketing and Sales at Elekta explains how Elekta teams crafted a comprehensive solution to enhance the brachytherapy theater's workflow.

"What sets Elekta Studio apart is the seamless integration of our world-class software, leading applicators, and the groundbreaking ImagingRing - a mobile CT unit with unmatched capabilities." - Maarten ter Mors.

As more healthcare providers embrace this innovative platform, Maarten is excited to see new possibilities unfold.

"**Elekta Studio** is crucial for advancing brachytherapy amidst rising patient numbers, cost constraints, and time sensitivity. This single-room, high-quality, and super-efficient treatment approach opens up a new phase for brachytherapy." - Maarten ter Mors. Maarten highlights two core benefits of Elekta Studio:

- **Treatment Quality:**

With on-demand imaging, clinicians can repeatedly check organ positions and catheter placement without moving the patient to the scanner. This ensures treatment quality remains unparalleled throughout the entire procedure.

- **Time Savings and Simplified Workflow:**

Elekta Studio significantly reduces waiting and patient transfer times, resulting in faster procedures and enhanced accuracy.

“Elekta Studio transforms brachytherapy with advanced technology for better patient care.” - Maarten ter Mors.

Chapter 2

Unleash your Full Potential

Elekta Studio* brings every stage of treatment, from insertion to delivery, into one room.

This allows for an adaptive and optimized workflow and minimized patient movement—bringing greater accuracy, safety, and comfort to the patient.

Elekta Studio unlocks new facility planning, development, and treatment opportunities.

*Elekta Studio comprises multiple medical devices, some of which may not yet be available in all markets.



Elekta Studio is the mobile imaging solution for all brachytherapy treatments.

Brachytherapy workflow challenges efficiency and care quality. These hurdles include time wasted in patient movement, workflow disruptions, and imaging needs. Innovative solutions can elevate brachytherapy.

2.1 Everything is in one room

Elekta Studio is the image-guided radiation therapy (IGRT) space that revolves around the patient - enabling radiation oncologists to image, plan, adapt, and treat patients in a single, dedicated room.

With everything in one place, interventional techniques are at your fingertips, providing improved efficiency and the possibility for a more adaptive workflow.

Current users talk about the benefits they experience with **Elekta Studio** and **ImagingRing**



2.2 Precise Implant Positioning

Andre Karius, a physicist at the University Hospital Erlangen, Germany, sheds light on how Elekta Studio allows precise implantation. He says:

“With ImagingRing, we can boost treatment quality by using repeated quality checks and refining implant positioning. This means we can better shape the radiation dose to the target area while minimizing the impact on surrounding organs.”

As early adopters of Elekta Studio, Prof. Dr. Christoph Bert and his team embraced the innovative technique that seamlessly integrates imaging throughout every treatment stage. Prof. Dr. Bert shares that their primary motivation for its adoption was improving the implantation process. He adds:

“ImagingRing is a versatile tool for fluoroscopic interventions and cone beam CTs at the different steps of brachytherapy treatment.”

2.3 Optimized workflow

Ms. Celia Chau, an Oncology Physicist at Princess Margaret Hospital, Hong Kong, reveals her Elekta Studio experience.

As Ms. Chau says, ImagingRing gives clinicians flexible imaging under a tilting gantry that allows them to scan patients in the treatment position.

“With an in-room 3D imaging option, the workflow has been much smoother than in our existing setting”, she says. A fully mobile CT scanner lets the treatment team check and modify procedures in real time.

Find out how Elekta Studio allows clinicians to realize a more efficient, accurate, and precise workflow with the patient at its heart.



Elekta Studio keeps the patient in one place, enhancing accuracy and efficiency while minimizing discomfort from room changes.

Efficiency Elekta Studio workflow reduces waiting time and improves the brachytherapy workflow to maximize your time.

Accuracy In-room imaging supports rapid decision-making, improves implant positioning, and increases treatment accuracy.

Comfort Everything in one room means less patient movement and improves patient comfort.

2.4 Comprehensive 3D Image-guided Brachytherapy Solution

Dr. Elena Villafranca, a Radiation Oncologist at Navarra Hospital Complex, Spain, believes image-guided brachytherapy is the future of cancer care.

"[With ImagingRing] The improvement in image quality is significant," says Dr. Elena Villafranca. *"We can now see the target cancer cells and surrounding tissue clearly, which means we have greater control and accuracy at every stage of a patient's treatment."*

Seeing the exact location of the tumor and the organs to protect means having the ability to insert the applicators more accurately, pinpoint the treatment, and better preserve healthy tissue.

- **Optimized doses**

With 3D images aid tumor targeting. This allows clinicians to adjust the volume and doses to the patient.

- **Accurate placement**

Without in-room CT, confirming applicator or seed placement is challenging.

"If anything moves out of place, we can correct the positions in real-time while patients are still under anesthesia," says Dr. Villafranca. *"This makes the process much more efficient."*

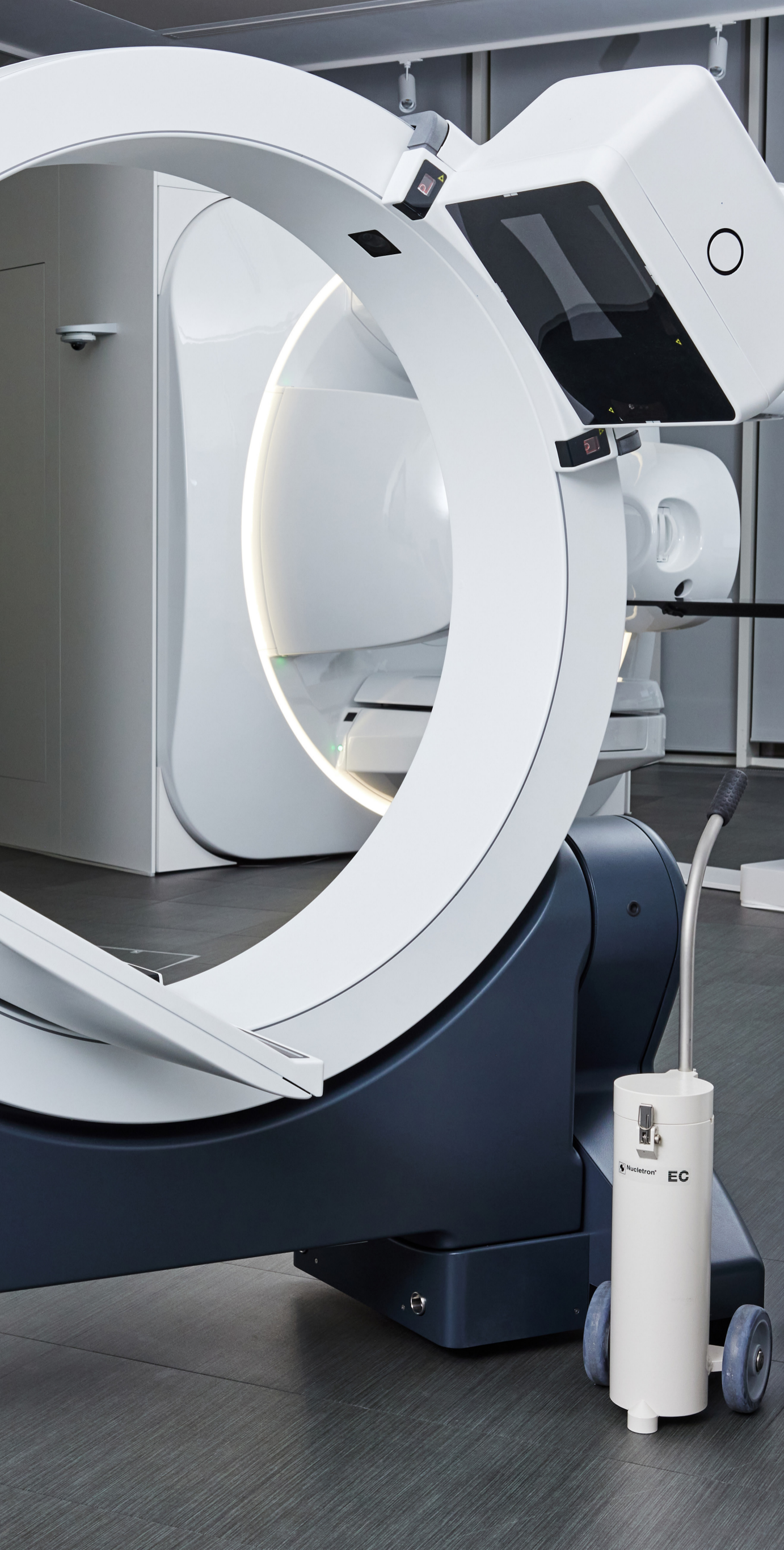
- **Improved patient experience**

Because physicians can adjust the dosage to their patients, there are fewer side effects.

"With the confidence to use higher doses, you may even be able to reduce the number of treatments," says Dr. Villafranca. Fewer hospital visits and shorter treatment times impact the patient's quality of life.

- **Better outcomes:**

"By improving the quality of the implant positioning, the treatment can be delivered more efficiently – which means you may free up the capacity to see more patients," explains Dr. Villafranca.



Chapter 3

ImagingRing

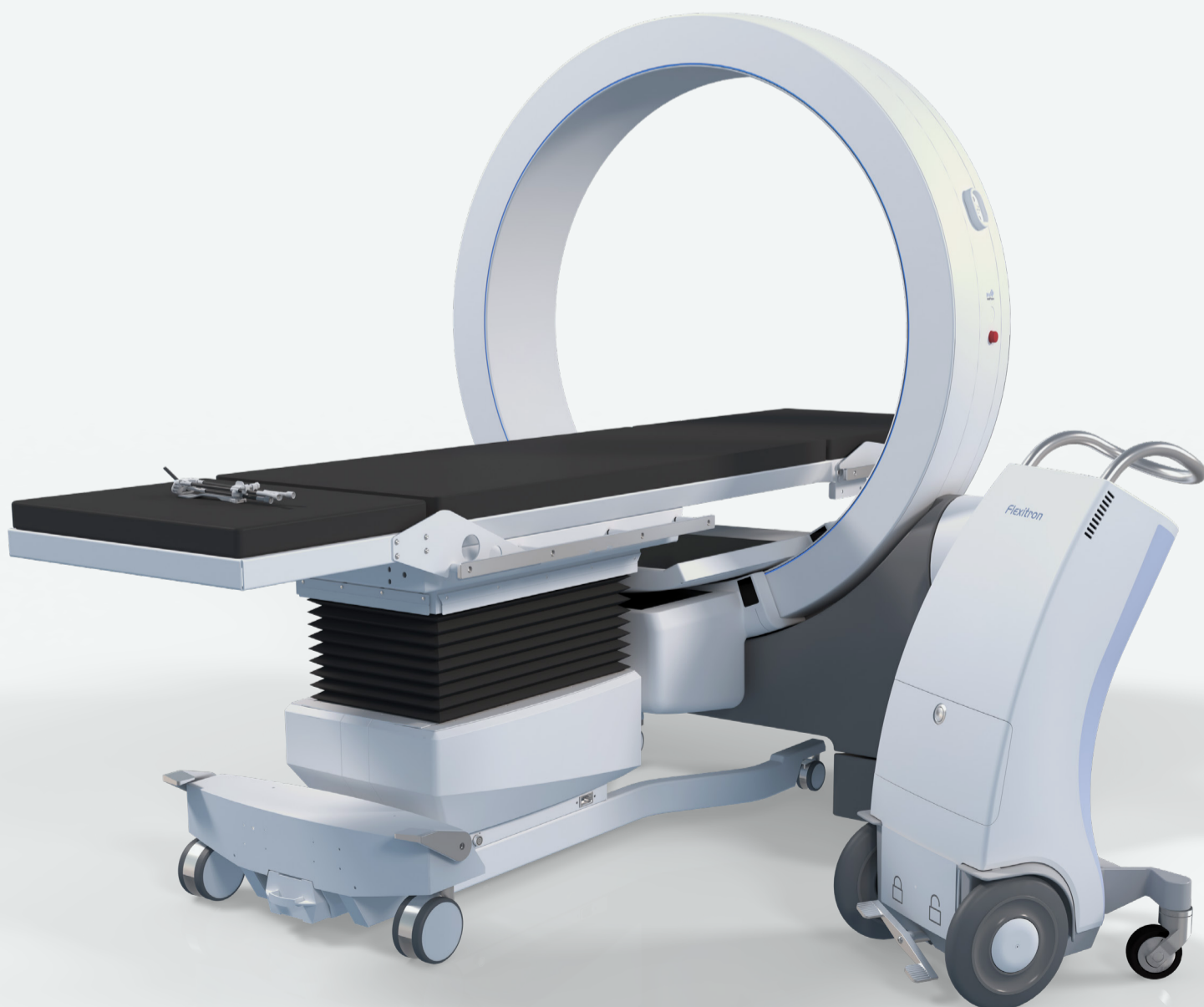
Increased accuracy with in-room imaging.

ImagingRing* is the foundation of Elekta Studio. Complimenting afterloaders and applicators, ImagingRing allows clinicians to realize the benefits of imaging throughout all stages of brachytherapy treatment.

- Mobile and lightweight, this imaging device works in any brachytherapy suite.
- Live 2D and 3D in-room imaging to optimize workflows and efficiencies for staff and patients.

Access to imaging throughout the procedure eliminates time.

*Elekta is the authorized Exclusive Distributor of medPhoton in Brachytherapy. ImagingRing is a product manufactured by medPhoton GmbH. ImagingRing may not be available in all markets.



ImagingRing

Dynamic imaging around your patient

3.1 Image acquisition whenever needed

ImagingRing is an advanced, mobile CT scanner designed specifically for Elekta Studio, giving you access to high-quality, in-room imaging whenever needed.

“It’s a perfect result if high-quality imaging for **brachytherapy** can come to the patient and radiation oncologist instead of the other way around.”

Professor Vratislav Strnad, MD



3.2 Uncompromised image quality

The ability of ImagingRing to perform rapid in-room imaging at the time of treatment allows brachytherapy plans to be adapted quickly to each patient’s current anatomy.

3.3 Ensuring patient comfort

ImagingRing means you no longer need to move patients on and off the treatment table or from room to room.

Chapter 4

Focus on implant quality, patient comfort, and accuracy

Access to imaging throughout the procedure eliminates time spent transporting patients between departments, minimizes the risk of implant displacement, and increases confidence to reduce margins and escalate the dose to the target while saving healthy tissue.



How can Elekta Studio increase treatment accuracy and patient comfort?

In this chapter, we hear from Prof. MD. Vratislav Strnad, a Radiation Oncologist at the University Hospital Erlangen, Germany, and Medical Physicist Justus Well, from the University Hospital LMU Munich. They discuss Elekta Studio and ImagingRing, emphasizing patient safety, usability, and high-quality 3D images in modern medical practice.

4.1 Patient Safety

Prof. M.D. Vratislav Strnad illustrates the transformative impact of Elekta Studio on treatment accuracy and patient comfort.

He highlights that the flexibility to initiate imaging at various stages of the procedure adds a new dimension to patient care. He adds that the availability of high-quality imaging in the surgical theater, facilitated by ImagingRing, holds the promise of visualizing previously inaccessible regions using conventional ultrasound or imaging techniques.

4.2 Advanced imaging guidance with ImagingRing

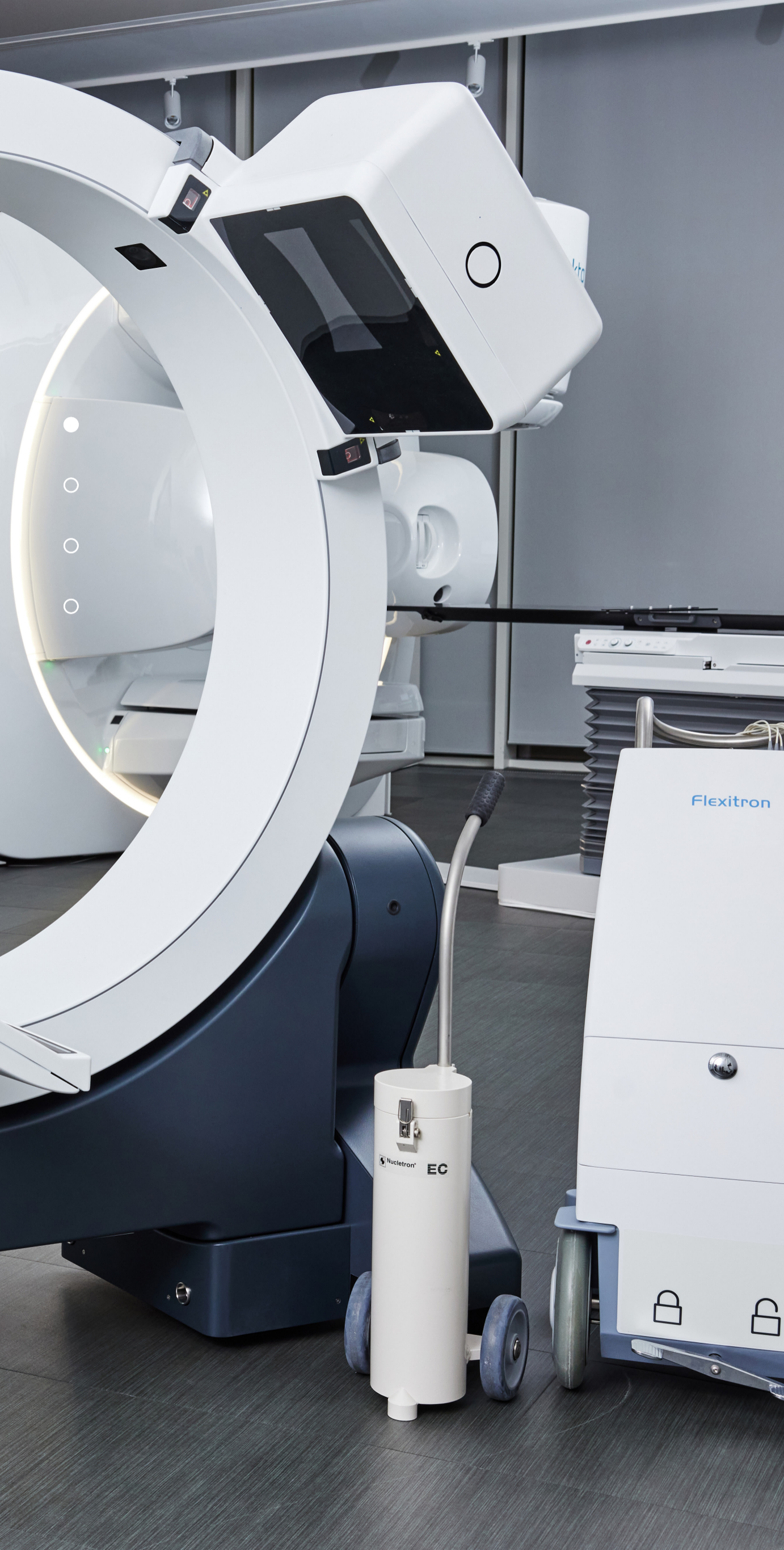
According to Prof. Strnad, integrating advanced imaging guidance within the treatment process is another game-changer. He emphasizes that the visualization of catheters and applicators throughout the procedure significantly benefits both experienced practitioners and beginners. The ability to track and verify the catheters' precise positioning before concluding general anesthesia streamlines the process and enhances safety.

4.3 The Power of ImagingRing: Ready When You Are

Medical Physicist Justus Well sheds light on the user-friendly nature of Elekta Studio. According to Mr. Well, one of the standout features of Elekta Studio is the exceptional ease of use, notably exemplified by the intuitive tablet interface. Setting up the system is remarkably swift; in fact, Elekta Studio arrives pre-configured for immediate utilization. While the platform encompasses many capabilities, mastering its functions progressively is natural, with foundational operations being notably straightforward.

4.4 Empowering 3D Planning through ImagingRing

In the domain of image-guided bronchial therapy, the introduction of Elekta Studio marks a significant advancement. With Elekta Studio, Justus Well and his team access 3D data. This empowers them with enhanced precision in catheter reconstruction. For instance, they can now deftly employ two catheters in distinct bronchi simultaneously, a previously challenging capability.



Chapter 5

Hear more about Elekta Studio

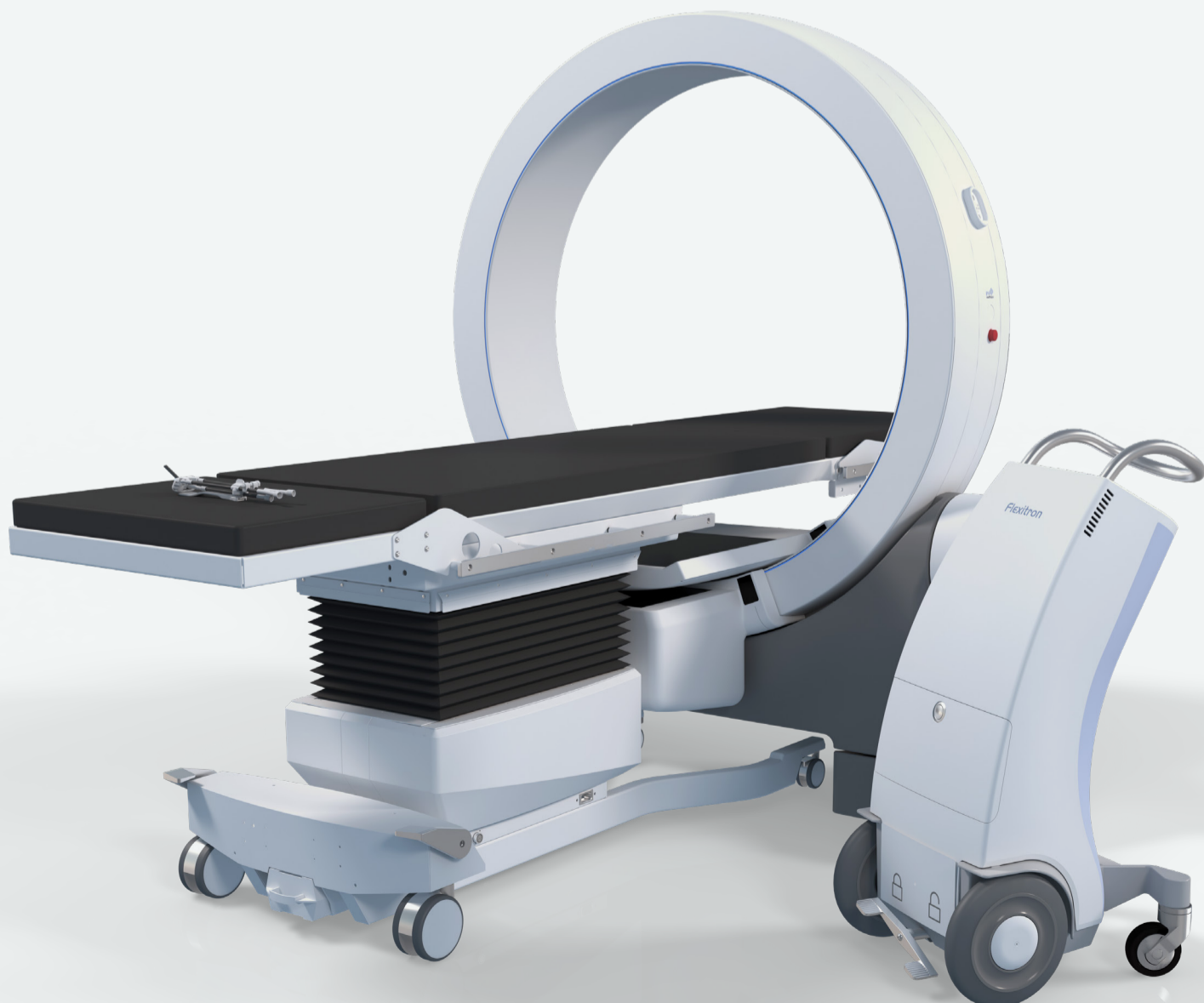
Valuable Insights from Elekta Executives on the driving force behind Elekta Studio's development - physicians at heart.

Learn how Elekta's visionary approach brings together the expertise and input of physicians to create a cutting-edge solution that prioritizes patient care and clinical excellence.

Fernando Alves, responsible for Region Europe at Elekta, sheds light on the importance and numerous benefits of having real-time imaging capabilities during brachytherapy.

Eric Sewsingh, Director of Global Sales at Elekta Brachy Solutions, outlines how Elekta Studio and ImagingRing enhance staff and patient experiences, revolutionizing brachytherapy delivery.

Marjolein Idzes, Director of Marketing Strategy at Elekta, compares traditional brachytherapy workflows and the streamlined efficiency of a one-room workflow with in-room imaging.



5.1 In-room Imaging to Increase Accuracy and Efficiency

Brachytherapy, like all radiation therapy, depends on imaging for precision. In-room imaging provides unrivaled accuracy, crucial for effective treatment. Fernando Alves highlights the importance and remarkable benefits of having in-room imaging with Elekta Studio ImagingRing.

- **Improved Accuracy and Efficiency:**

The ImagingRing eliminates the need to move the patient to another room for imaging. Clinicians can insert the applicator while obtaining **real-time images** of the anatomy. This enables precise implant placement, thereby improving the overall accuracy of the treatment.

- **Enhanced Patient Comfort:**

The **patients remain in the same room** throughout the treatment and in the **same position**, reducing stress and discomfort.

- **Optimized Resource Utilization:**

In-room imaging streamlines the treatment process and **reduces the number of people involved**, improving hospital efficiency. The hospital can **treat more patients with fewer resources** and personnel without compromising quality.

In-room imaging with ImagingRing transforms brachytherapy, boosting precision, efficiency, and comfort for patients and staff. This innovation shapes the future of radiation oncology, driving patient care and safety advancements.

5.2 Improving staff and patient experience during brachytherapy treatment

Eric Sewsingh explains how Elekta Studio emerged from a clear vision of providing a safe, comfortable, and highly accurate treatment environment for radiation oncologists, medical staff, and patients.

“We aimed to redefine the landscape of radiation therapy by seamlessly integrating safety, comfort, and precision into a single solution, which led to Elekta Studio.” - Eric Sewsingh.

Elekta Studio prioritizes patient experience by optimizing the treatment workflow, ensuring they receive the best care possible in a safe and comfortable environment. It also empowers clinicians to work securely and effectively and deliver exceptional care.

“Safety and comfort, combined with highly accurate treatment delivery, was our vision. That’s why we created Elekta Studio.” - Eric Sewsingh.

When comparing traditional and one-room brachytherapy workflows, Marjolein Idzes highlights the advantages of Elekta Studio's consolidated setup. She says:

"This approach minimizes patient movement, enhances accuracy, and streamlines the procedure, ultimately improving patient comfort and efficiency."

5.3 Balancing Cost Efficiency with Enhanced Treatment

When discussing healthcare advancements, cost efficiency becomes crucial.

Elekta Studio brings many benefits to patients, staff, and equipment alike. This holistic approach is a game-changer for all departments involved, making Elekta Studio work seamlessly and effectively for the users.



Hope for everyone dealing with cancer



Conclusion

It's Time to Delve Into the Future of Brachytherapy

Embrace the possibilities that await with Elekta Studio at its core.

Elekta Studio is a game-changing solution addressing brachytherapists' challenges. It streamlines the entire treatment process into one room, enhancing accuracy, safety, and patient comfort. Additionally, it resolves communication gaps, data transfer issues, and equipment malfunctions while improving MR image quality for precise treatment planning and delivery.

Embrace the future of brachytherapy and unleash your full potential with Elekta Studio

Discover how Elekta Studio can optimize your workflow

Access more information* and request a demo from your local Elekta representative.

*You'll gain access to information and expert videos on how Elekta Studio enables a more efficient workflow for your practice.

REQUEST A DEMO

Watch our brachytherapy Masterclass

Register for the webinar recording

Watch our brachytherapy masterclass discussing how to unlock the opportunities presented by image-guided brachytherapy and how new practices can revolutionize your treatment delivery.

Hosted by Maarten ter Mors, Elekta's VP of Marketing and Sales for Brachytherapy Solutions, we'll speak with senior oncology specialists about their brachytherapy experiences, challenges, and future perspectives. You'll also hear how Elekta Studio* is working to increase efficiency in brachytherapy treatment, improve patient experience, and reduce strain on hospital staff and equipment.

REGISTER FOR THE WEBINAR RECORDING