VARIAN
medical systems

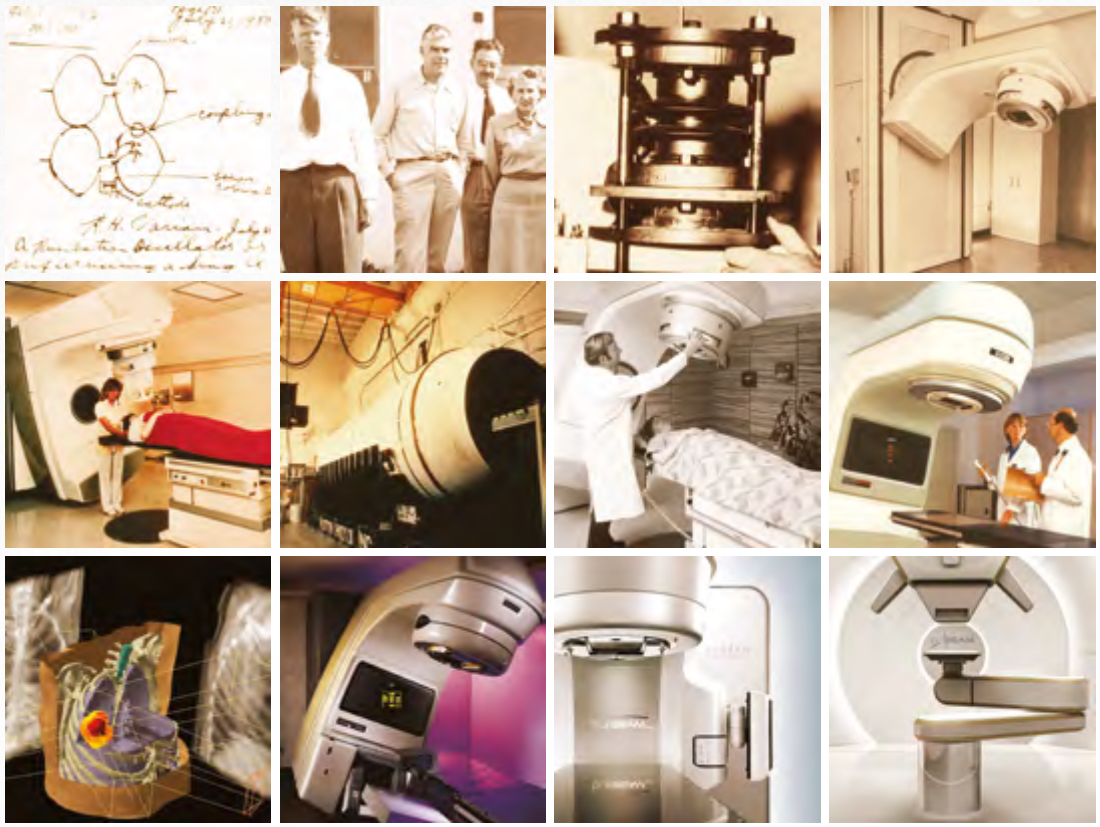
UNIQUE™ | Uncompromising Cancer Care

Our Mission, Our Goal

Varian Medical Systems' mission is to explore and develop radiation technology that protects and saves lives. Our goal is to help save 100,000 more lives each year. To meet this challenge, we equip the world with new tools for fighting cancer. The people of Varian Medical Systems share this mission and goal. Together, we are a partner for life.

65 years History of Varian

We learn from our 65-Year History of Innovation, and envision how to improve for the next 65 years.



History of Varian

Varian Medical Systems, Inc. was founded as Varian Associates in the late 1940s by a group of scientists with strong connections to Stanford University. The company's founders included brothers Russell and Sigurd Varian, inventors of the klystron tube, a high-frequency amplifier for generating microwaves that became an essential component of the modern medical linear accelerator.

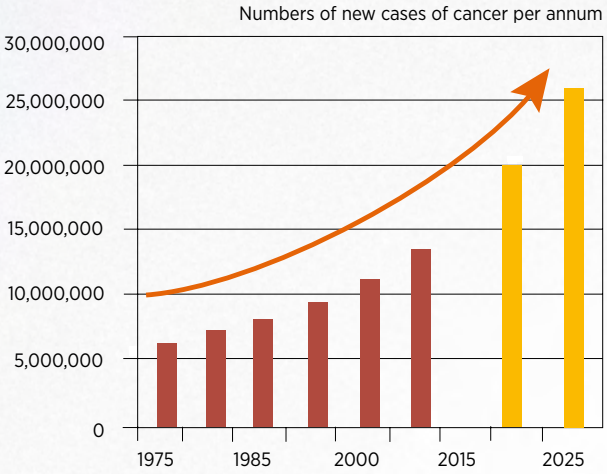
During the 1950s and 1960s, Varian Associates invented or commercialized many technologies, including X-ray tubes and linear accelerators. In the late 1960s, the company developed the medical linear accelerator for radiation therapy. Ultimately, linear accelerators displaced cobalt as the radiation therapy method of choice. Since then, more than 7,000 Varian linear accelerators have been installed at hospitals and clinics worldwide.

In early 1999, Varian Associates changed its name to Varian Medical Systems after spinning off its semiconductor manufacturing equipment business and its scientific instruments business. Today Varian Medical Systems is the world's leading manufacturer of integrated systems for treating cancer and other conditions with radiotherapy, radiosurgery, proton therapy, and brachytherapy.

The company is also the global leader in software systems for radiation therapy treatment planning as well as informatics software for managing comprehensive cancer clinics, radiotherapy centers, and medical oncology practices. Lastly Varian is a premier supplier of tubes and digital detectors for x-ray imaging in medical, scientific, and industrial applications and also x-ray imaging products for cargo screening and industrial inspection.

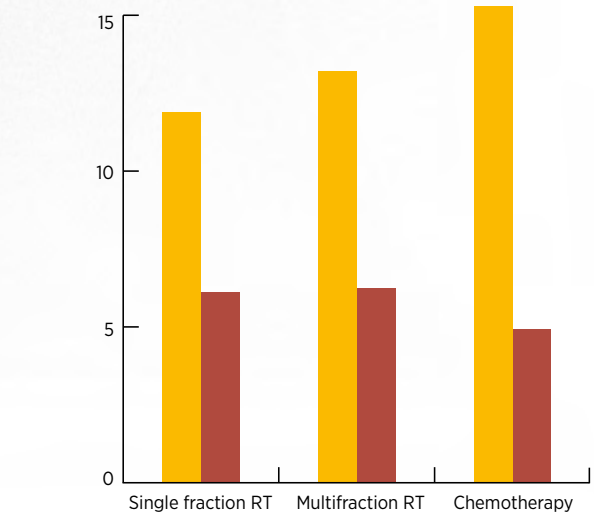
Radiotherapy
A Cost-Effective Solution

Estimated Global Cancer Burden



Source: WHO World Cancer Report 2008.

Cost-Effectiveness of various treatment options for bone metastasis



Cost (in dollars)
Effectiveness (QALM) = quality-adjusted life month

Source: Andre Konski, M.D., M.B.A., M.A. Radiotherapy is a cost-effective palliative treatment for patients with bone metastasis from prostate cancer. Int. J. Radiation Oncology Biol. Phys., Vol. 60, No.5, 1373–1378, 2004.

Radiotherapy (RT) is an essential component of the treatment of cancer, and whether used palliatively or to cure, radiotherapy has been shown to be cost-effective. Radiotherapy is one of the least expensive cancer treatments per patient and one of the most effective in terms of cures and overall survival.

Source: WHO World Cancer Report 2008.

The global cancer burden doubled in the last thirty years of the twentieth century, and it is estimated that this will double again between 2000 and 2020 and nearly triple by 2030.

Source: WHO World Cancer Report 2008.

Single Fraction Radiotherapy was the most cost-effective palliative treatment compared to pain medication and chemotherapy.

Source: Andre Konski, Int. J. Radiation Oncology Biol. Phys., Vol. 60, No.5, 1373–1378, 2004.

UNIQUE™ Cancer Care

Grow with UNIQUE

UNIQUE represents a complete cost-effective radiation oncology solution featuring components and services needed to build a state-of-the-art cancer center. This solution not only offers **reliable and proven technology,** but also offers a **comprehensive service package,** as well as **focused training and education programs.**

UNIQUE is in clinical operation and available in two editions:

Upgradable package – UNIQUE Power Edition

The UNIQUE Power Edition is an ideal entry level system for centers planning to introduce advanced clinical procedures for the future: a system which is perfectly upgradable at the time of purchase or later on.

Complete package – UNIQUE Performance Edition

The UNIQUE Performance Edition provides advanced clinical capabilities such as RapidArc® and IGRT tools for exact patient setup, verification, and correction.

Small-Footprint solution

Thanks to its small footprint and low energy, UNIQUE is the perfect match for a smooth transition from cobalt treatment technology to robust and reliable state-of-the-art radiation oncology.

UNIQUE

- Single low photon linear accelerator
- Robust and reliable technology
- Magnetron based
- Low bunker shielding needed
- Easy and fast installation and commissioning

Full Spectrum Treatment Techniques

Example of an isocentric breast treatment with dynamic wedge. The time of the patients on the couch was less than 3 minutes thanks to the Auto Field Sequencing (AFS) and Enhanced Dynamic Wedge (EDW).

2D and 3DCRT

UNIQUE enables you to deliver efficient 3D-Conformal Radiotherapy (3DCRT) treatments using Millennium™ MLC and Enhanced Dynamic Wedge™ (EDW). With the Millennium MLC, clinicians can now provide patients the treatment precision and accuracy previously available only with custom compensators and blocks. Eliminating heavy blocks, therefore using Millennium MLC saves time in treatment and reduces physical strain to therapists. EDW offers both precision jaw collimator movement and dose rate control to create wedge-shaped dose distributions. Therapists save time with EDW, especially when used with Auto Field Sequencing, by not needing to re-enter the room to add or remove wedges.

Intensity Modulated Radiotherapy (IMRT)

The optional dynamic Millennium MLC, with either 80 or 120 leaves opens the door for dynamic IMRT treatments using multiple fixed direction beams. The leaves move with different velocities from one side of the field to the other while the beam modulates the dose. This very efficient IMRT delivery technique delivers more segments than any other IMRT technique. The large field IMRT option allows the maximum possible IMRT field to be delivered as a single planned field. Thanks to the fast leaf speed, high precision, and interdigitation capabilities, the IMRT fields can be quickly treated.

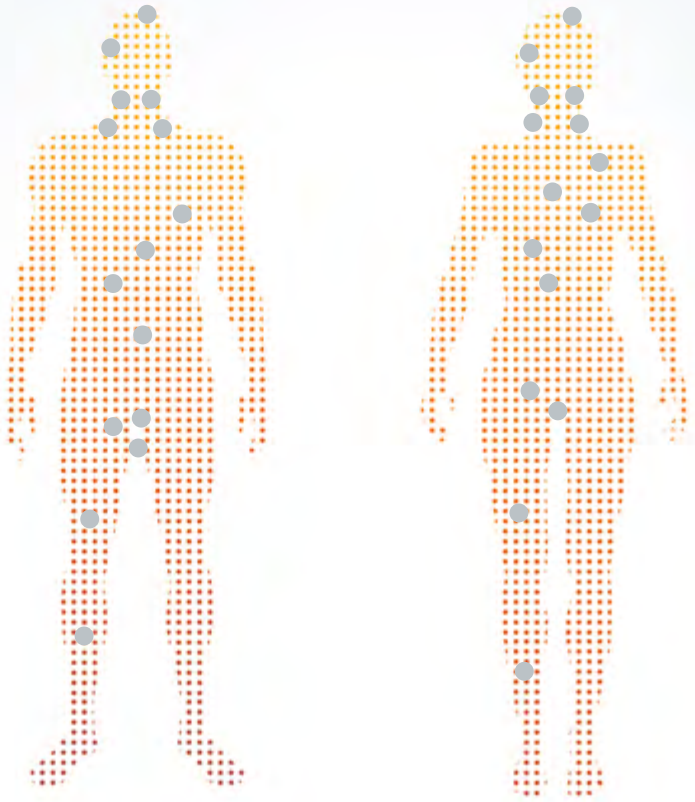
Auto Field Sequencing

Auto Field Sequencing (AFS) allows for all different treatment techniques and automated delivery of multiple coplanar fields in sequence from the UNIQUE console. With this time-saving feature, the UNIQUE automatically acquires the mode-up signal and setup information from the 4D Integrated Treatment Console, and then allows the operator to remotely move the gantry, jaws, and collimator axes between co-planar treatment fields. This feature avoids the need to go back into the treatment room to alter setup between coplanar fields.

LaserGuard™

The LaserGuard patient protection system significantly reduces the possibility of a potential gantry collision by detecting objects close to the collimator, and automatically stopping gantry motion. This is particularly useful when performing remote gantry rotations, whether from the UNIQUE console or during an automated treatment sequence.

RapidArc®



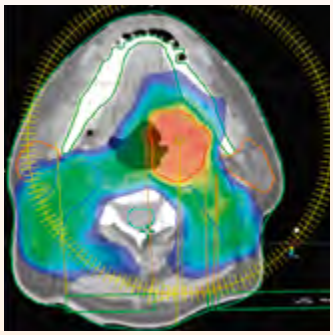
RapidArc

RapidArc® represents a revolutionary breakthrough in cancer treatment that radically reduces treatment time. Most cancers treatable with radiation can be treated faster with Varian RapidArc radiotherapy technology. RapidArc delivers the precise dose distribution and conformity of IMRT and IGRT in a fraction of the usual time.

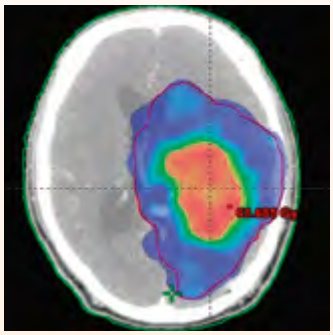
RapidArc has become routine technology in many centers. More than 2,000 systems worldwide currently use RapidArc technology to treat thousands of patients. Community centers and large hospitals alike use it regularly to treat the most commonly occurring cancers as well as the more demanding cases.

By shortening treatment time and improving accuracy, RapidArc both helps to improve the patient experience and helps to increase the efficiency of radiation oncology departments.

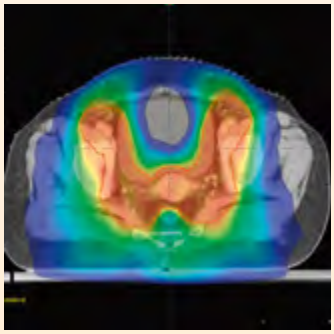
RapidArc is the reference in Volumetric Arc Therapy (VMAT) and uses Dynamic MLC, variable dose rate, and variable gantry speed to generate homogeneous dose distributions for targets, and reduces the dose for organs at risk. Typical delivery time with UNIQUE™ is less than 2 minutes for 2Gy per fraction.



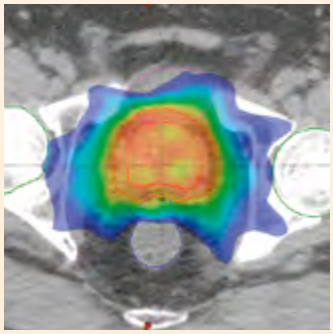
Nasopharynx
1 arc, 79 sec



Glioblastoma
2 arcs, 150 sec



Cervix Uteri
1 arc, 74 sec



Prostate
1 arc, 75 sec

3D Conformal

Uterus

Clinical Background

Endometrial cancer of the uterus is the most common gynecologic malignancy of all malignancies occurring in women. The standard treatment for stage II endometrioid tumors is whole pelvis external beam irradiation.

Endometrioid adenocarcinoma

G2 pT2 NO
FIGO Stage: II

26x1.8Gy

285 MU

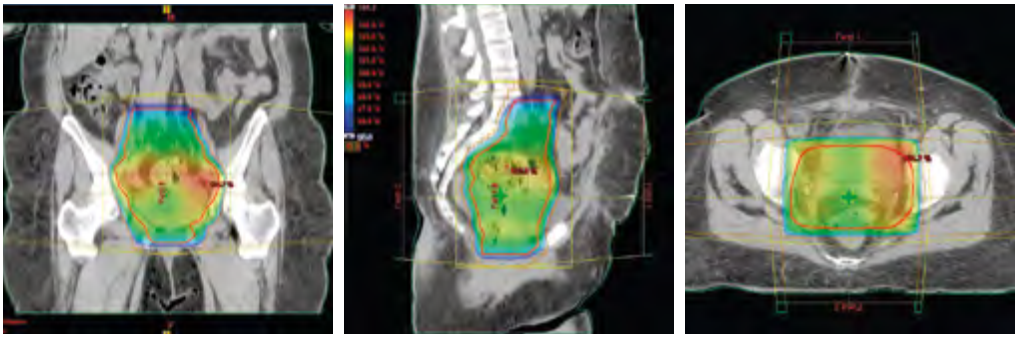
6 MV

300 MU/min

Beam on time 0.95 min

4 fields

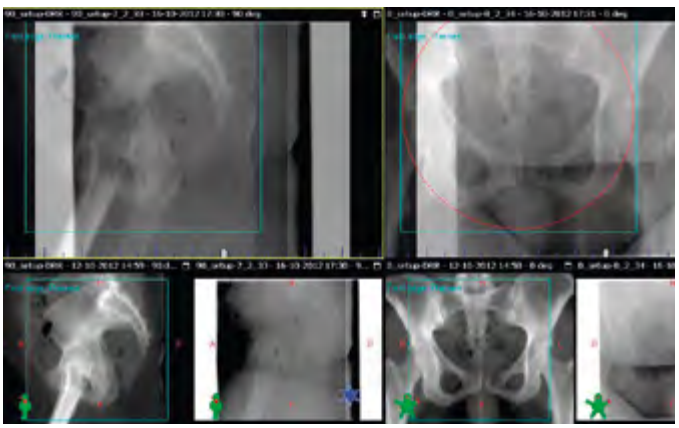
Treatment Planning



Prescription: 100% of the PTV has to receive minimum 95% of the prescribed dose of 46.8Gy.
Result: 95% of the PTV received 46.1Gy and 100% of the PTV received 44.5Gy.

	Plan Objective	Results
PTV	D95% = 46.1Gy	46.2Gy
PTV	D5% = 48.7Gy	48.7Gy
Bladder	D_{max} <65Gy	49Gy
Rectum	V50 <50%	0%
Right femoral head	D_{max} <52Gy	43Gy
Left femoral head	D_{max} <52Gy	46Gy

MV Imaging



Data Courtesy:
Centro Catanese di Oncologia, Catania, Italy

RapidArc®

Head and Neck

Clinical Background

Nasopharyngeal carcinoma (NPC) is an Epstein-Barr virus associated malignancy arising from the nasopharynx, a site less easily accessible by surgery, and is characterized by a high incidence of regional nodal metastasis. RapidArc treatment with or without chemotherapy allows a very high local control rate and potential to spare organs. However, primary tumors in advanced-stage NPC often extend in close proximity to important organs-at-risk such as the brainstem and optic pathway. This calls for image-guidance techniques which ensure the greatest accuracy of position and dose.

Treatment Planning

Nasopharynx

T4N1M0

35x2Gy

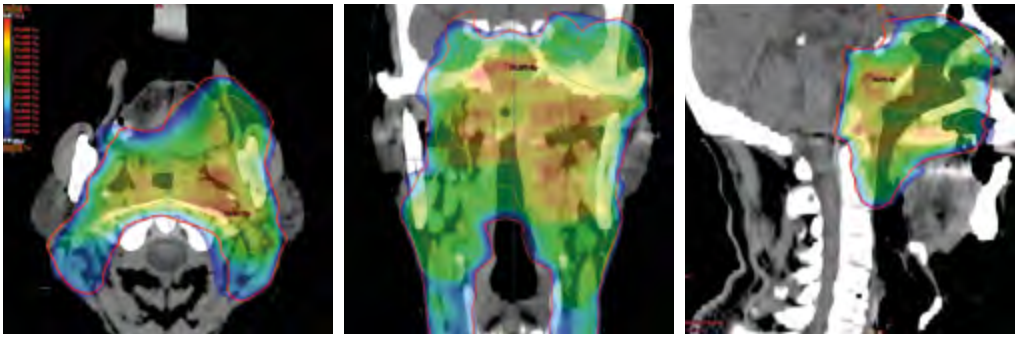
679 MU

6 MV

600 MU/min

Beam on time 146 sec

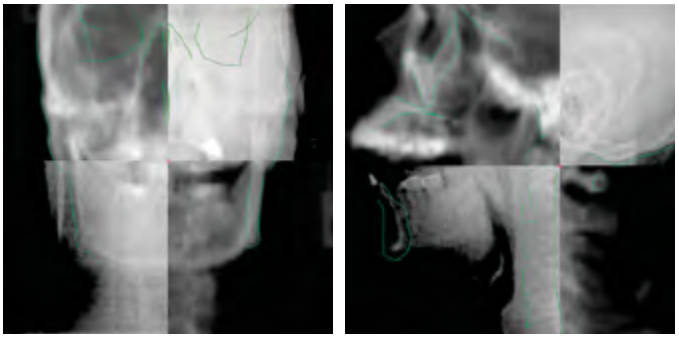
2 arcs



Prescription: 95% of the PTV_70Gy has to receive minimum 95% of the prescribed dose of 70Gy.
Result: 97.6% of the PTV_70Gy received 95% of 70Gy.

	Plan Objective	Results
PTV_74Gy V74Gy	>95%	98.8%
PTV_70Gy V70Gy	>95%	95.7%
PTV_62Gy V62Gy	>95%	98.2%
PTV_56Gy V56Gy	V35Gy < 5%	97.3%
Brainstem	D_{max}<54Gy	53.8Gy
Spinal Cord	D_{max}<45Gy	42.0Gy
Chiasm	D_{max}<62Gy	58.7Gy
50% of left Parotid	<30Gy	56.8Gy
50% of right Parotid	<30Gy	35.1Gy
Right Optic Nerve	D_{max}<62Gy	62.3Gy
Left Optic Nerve	D_{max}<62Gy	61.5Gy

MV Imaging



Data Courtesy:
Prince of Wales Hospital, Hong Kong

Lung

Clinical Background

Metastasis of the lung, is the second most frequent site of metastasis from colon cancer. The standard of care for these patients used to be chemotherapy and, or surgery. However, Stereotactic Ablative Body Radiotherapy (SABR) has an emerging role in patients affected with pulmonary metastasis. SABR is a safe, effective, and less-invasive option for lung cancer patients.

Treatment Planning

Lung metastasis from colon cancer

4x10Gy

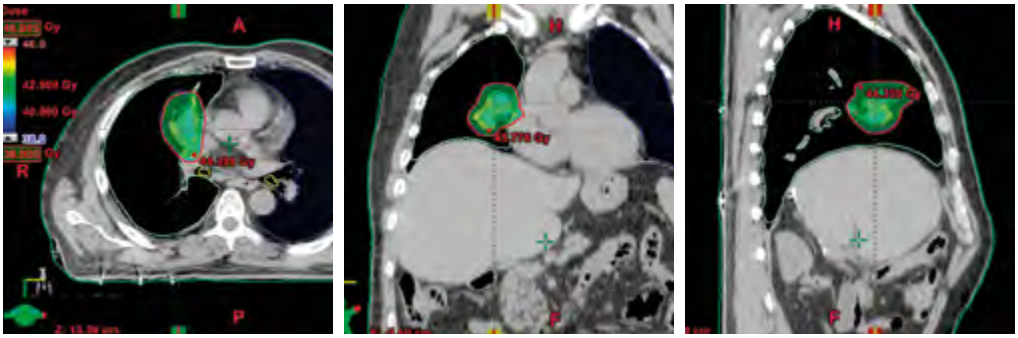
3092 MU

6 MV

600 MU/min

Beam on time 465 sec

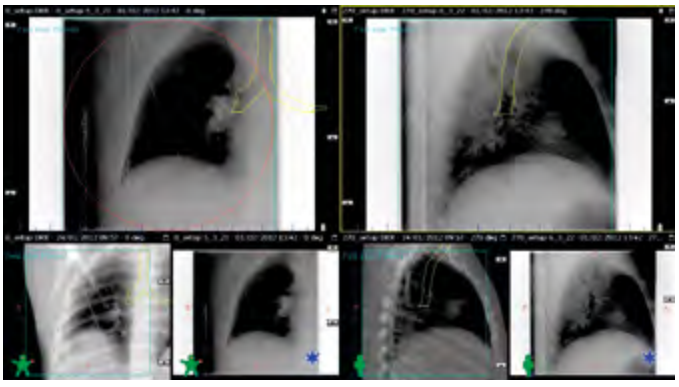
2 partial arcs



Prescription: 4 fractions of 10Gy prescribed to the 90% isodose level.
Result: 99.5% of the PTV received 90% of the prescribed dose of 40Gy.

	Plan Objective	Results
Spinal Cord	D_{max}<20Gy	5.7Gy
Trachea/Bronchus	D_{max}<40Gy	20.6Gy
Heart	V10Gy < 25%	16.3%
Lung R-PTV	D_{mean} <10Gy	8.6Gy

MV Imaging



Main airway contouring allows each orthogonal megavoltage image to be easily matched with its corresponding DRRs.

Data Courtesy:
Centro Catanese di Oncologia, Catania, Italy

RapidArc®

Bilateral Breast

Clinical Background

Although rare, synchronous bilateral breast irradiation is a complex situation where the concomitant involvement of both lungs and heart and the huge treated volume is a particular challenge. To minimize patient discomfort, a fast treatment delivery is advisable.

Invasive ductal mamma carcinoma left and right

T1-2N0M0

25x2Gy to the whole breast

1038 MU

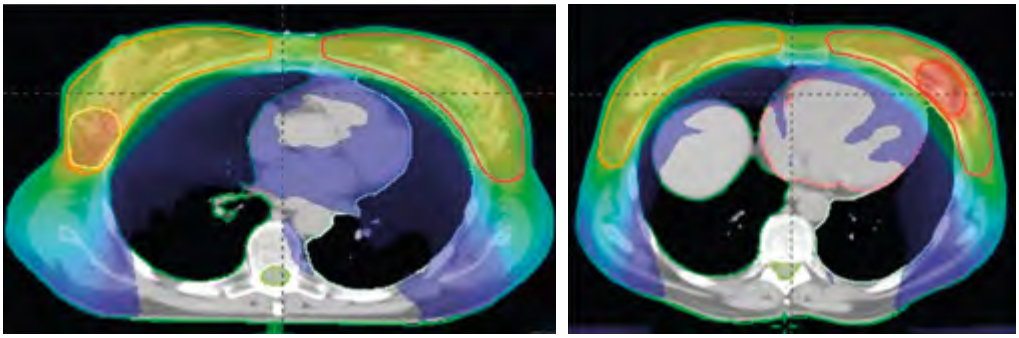
6 MV

600 Mu/min

Beam on time: 52 seconds per arc

2 arcs

Treatment Planning

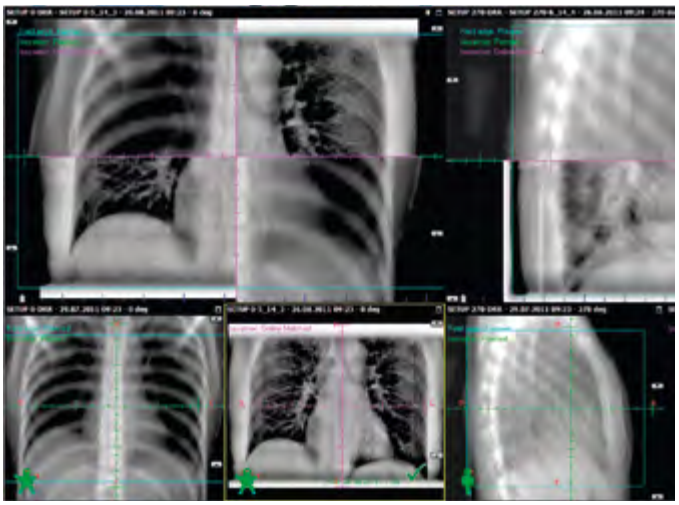


Prescription: 95% of the whole breast, excluding the tumour bed, should receive at least 95% of the prescribed dose. 98% of the tumor bed should receive at least 95% of the prescribed dose.

Result: 95% of the whole breast, excluding the tumour bed, has received 95% of the prescribed dose. 98% of the tumor bed has received 94.3% of the prescribed dose.

	Plan Objective	Results
Lung left and right	V20Gy < 22%	<10%
	D_{mean} < 15Gy	10.4Gy
Heart	V40Gy < 2%	0%
	D_{mean} < 10Gy	8Gy

MV Imaging



Data courtesy:
Istituto Oncologico Della Svizzera Italiana, Bellinzona, Switzerland

Reference:
Nicolini G, Clivio A, Fogliata A, Vanetti E, Cozzi L. Simultaneous integrated boost radiotherapy for bilateral breast: a treatment planning and dosimetric comparison for volumetric modulated arc and fixed intensity modulated therapy. Radiat. Oncol. 2009;4:27

Highly Conformal

Millennium™ MLC

Varian multileaf collimators allow clinicians to minimise damage to normal tissue by providing excellent dose conformity with narrow beam penumbra and minimal inter-leaf leakage. Its optimized leaf motion control system makes it possible to “paint” the abnormality with a high-intensity, high-resolution dose, sparing critical structures in the process.

Millennium MLC has been optimized to deliver a wide range of treatment modalities including static 3D conformal, IMRT and RapidArc® radiotherapy technology.

Millennium MLC-80

Field size: 40x40 cm^2
Leaf widths: 10 mm

Millennium MLC-120

Field size: 40x40 cm^2
Center leaf widths (20 cm): 5 mm
Outer leaf widths (20 cm): 10 mm

Image Guided Radiotherapy Acquisition

PortalVision™

The PortalVision flat panel detector enables patient positioning using megavoltage (MV) images. Varian’s extensive experience with this solid state technology has resulted in a detector with superior radiation hardness and detector lifetime.

Thanks to Varian’s exclusive acquisition system the imaging beam will be automatically stopped when a sufficient dose has reached the image receptor, for high-quality imaging with radiation doses as small as 1 monitor unit (MU).

The flat panel is mounted on the robotic Exact® arm, which can be moved remotely from the treatment console. The arm offers a unique movement range allowing imaging in almost every situation.

With the Exact arm, the imager can be positioned above the isocenter, which is ideal for portal dosimetry and machine QA (software not included).

PortalVision aS500-II

Detector Technology: latest generation Amorphous Silicon
Imaging Area: 40.1x30.1 cm^2
Resolution: 512x384 pixels

PortalVision aS1000

Detector Technology: latest generation Amorphous Silicon
Imaging Area: 40.1x30.1 cm^2
Resolution: 1024x768 pixels

Image Guided Radiotherapy Image Review

PortalVision Advanced Imaging

PortalVision Advanced Imaging enables verification of patient position and of treatment field size and shape. The MV images of patient anatomy are acquired and matched with their corresponding verification images to assess the accuracy of patient setup quantitatively. It is possible to manage day-to-day changes in patient setup as well as changes in patient positioning during treatment.

Patient positioning can be digitally approved and reviewed offline by the physician from his or her own desk. Advanced IGRT (Image Guided Radiotherapy) techniques allow more precise tumor targeting, minimising the damage to healthy tissue.

All activities, such as sending corrections to the treatment couch and extending/retracting the imager can be performed remotely from the treatment console, greatly streamlining the clinical workflow.

PortalVision Advanced Imaging Clinical Workflow

Step 1:
Bring the detector remotely into acquisition position.

Step 2:
Acquire Image before, during or after treatment.

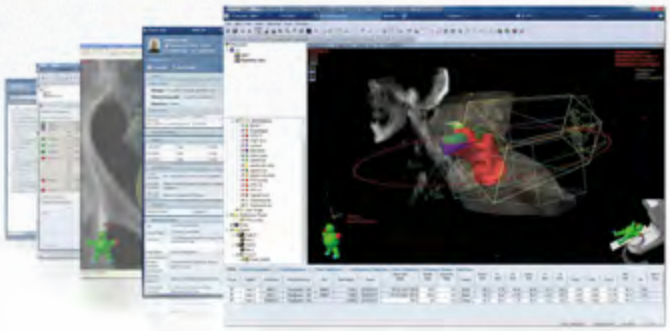
Step 3:
Match portal images with their respective reference images. The pair of images are linked so that any shift based on translation and rotation are applied to both.

Step 4:
Calculate shift. Corrections are sent to the treatment couch and the table shifts automatically.

Step 5:
Images are automatically saved after treatment for offline review by physicians.

Step 6:
Image can be approved and locked.

Oncology Software

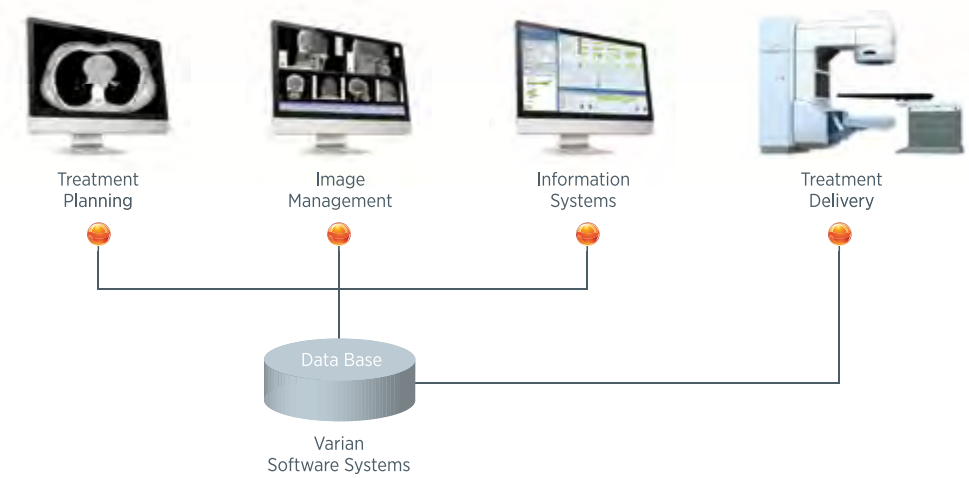


ARIA® Comprehensive Workflow and Oncology Information System

ARIA is a comprehensive information system and image management solution that addresses the clinical, administrative, and imaging needs of the oncology department. ARIA streamlines the workflow in the department, eliminates redundant data entry, and makes the treatment process faster and easier by providing a single user interface.

Eclipse™ Treatment Planning System

Eclipse is an advanced Windows based treatment planning system. It provides excellent and intuitive automatic and manual contouring and image registration tools, including automatic image registration based on a mutual information algorithm. It supports the different planning methods such as 3D conformal static or arc planning (standard), inverse planning for intensity modulated radiotherapy (IMRT) and RapidArc® planning for the RapidArc® delivery option. The system offers the high quality dose calculation algorithm AAA (a superposition convolution algorithm). Eclipse is focused to support the clinical workflow and uses clinical protocols to speed up the planning part and to enable you to use class solutions for the different clinical indications.



Features and Capabilities

Features	UNIQUE Power	UNIQUE Performance
Treatment System		
6MV Accelerator with maximum DoseRate		
400MU/min	■	–
600MU/min	❑	■
Exact Couch with IGRT Couch top	■	■
Static Beam X-Ray Mode	■	■
Basic Dynamic Procedures	■	■
In-Room Display	■	■
4D Integrated Treatment Console	■	■
Millennium Multileaf Collimator		
MLC-80	❑	–
MLC-120	❑	■
Dynamic MLC procedures (IMRT)	❑	■
Large Field IMRT	❑	■
RapidArc Delivery and Planning	❑	■
Total Body X-Ray Mode	❑	■
Auto Field Sequencing	❑	■
Enhanced Dynamic Wedge	❑	■
RPM Gating	❑	❑
IGRT		
PortalVision™ aS500-II	❑	–
PortalVision™ aS1000	❑	■
PortalVision Advanced Imaging	❑	■
Remote couch motion	❑	■
Oncology Software		
ARIA	❑	■
Eclipse	❑	■
Quality and Safety		
Laserguard	❑	■
Laser Alignment System	❑	❑
CCTV Camera System	❑	❑
Intercom System	❑	❑
Custom coding	❑	❑
Portal Dosimetry	❑	❑
Isocal	❑	❑
Packages & Services		
Training/Education Package	❑	❑
Comprehensive Service Package	❑	❑
Dosimetry Package	❑	❑
SmartConnect	❑	■
FineBeam Matching	❑	❑

– Not in package
❑ Optional
■ Standard

Not all combinations are possible. Prerequisites exist.

China Beijing Shanghai Xian Hong Kong Uruguay
Kolkata Russia Moscow St Petersburg Krasnoyarsk
Bangladesh Dhaka Khulna Chittagong Azer
Herat Kandahar Pakistan Islamabad Karachi Vene
Turkey Istanbul Şanlıurfa Kayseri Chile Ecua
France Paris Rouen Thiais Saint Doulchard Slovenia

Uncompromising Cancer Care

Training and Education Package

Training and Education

Training is an essential part of developing a successful oncology practice. At Varian, we have a strong commitment to our customers; we make training and education a top priority. Every year we provide training to thousands of physicians, physicists, dosimetrists, radiographers and administrative personnel at customer treatment centers and at key Varian education centers located worldwide.

Wherever you are in the world, Varian offers:

- Comprehensive training programs in the safe and effective use of our systems
- Product support by training and clinical experts consisting of certified radiation professionals with extensive clinical expertise
- Committed training coordinators working with you to develop a comprehensive program
- The industry leader in end-to-end solution training
- Specialized training and continuous education

Different hospitals may have different training needs; Varian acknowledges this fact and has developed customized training and education packages. In addition to the standard training solutions we offer a comprehensive program adapted to the customers' individual needs.

Additional Training and Education package

For customers that are not so experienced in for example IGRT, 3D treatment planning, IMRT ... we offer individualized training programs on request. After performing a site survey, a training package will be created, ensuring a smooth start-up of clinical operations.

This package can include:

- Beam commissioning support
- Additional on-site training
- RT mentorship (establishing a link with institutes with longstanding experience)
- Access to remote training material (e-learning, live meetings, etc.)

Service Package

Protecting your investment

In more than 50 years of service to healthcare providers, Varian's Customer Support Services have remained a testament to service innovation at every level. Our worldwide support team is dedicated to providing local support for our products whenever and wherever needs arise. From site planning to service support agreements, training solutions, on-site support, and Help Desk telephone support, Varian offers programs that keep your products and personnel operating at peak efficiency.

SmartConnect™

SmartConnect puts a team of first-rate clinical and technical experts at your command. With the exclusive remote monitoring capabilities of SmartConnect, Varian experts can see exactly what you see and work with you as if they were in the same room with you. SmartConnect provides proactive and predictive service capabilities and helps to ensure that the UNIQUE™ system is performing at an optimum level. SmartConnect allows Varian to provide the customer with remote application and technical support and helps minimize clinic downtime.

Fine Beam Matching

The new UNIQUE system can be beam matched to your already installed Varian Clinac® or Trilogy™ system to allow easy movement of patient treatment plans between machines of similar energy.

Conditions may apply. Contact your local service organization for more information.

Comprehensive Service Package

Stay within Budget

The comprehensive service package will protect your UNIQUE™ system against any unexpected costs or downtime and help you to stay within budget. It will not only cover the UNIQUE accelerator, but also ARIA® and Eclipse™, starting with the date of acceptance lasting for a period of multiple years.

The comprehensive service package includes:

– **Parts coverage, including glass and vacuum**
Varian supplies all parts necessary to keep the equipment functioning properly, including all glass and vacuum parts and imaging panel.

– **Periodic maintenance inspections**
Varian will carry out all regular periodic maintenance inspections each year.

– **Maintenance releases and updates**
Varian will provide maintenance releases for the software and firmware on the UNIQUE accelerator, Aria, and Eclipse.

- **Highest level of support**
  - **Help Desk**
    Varian will provide applications, technical, and clinical support for the UNIQUE Package. Specialists provide E-mail and multilingual phone support for Varian customers worldwide.
  - **Remote Service**
    SmartConnect™ enables remote monitoring and diagnosis of equipment performance and allows for remote installation of updates and upgrades. It provides proactive and predictive service capabilities and helps to ensure that the UNIQUE system is performing at an optimum level.
  - **On-site support**
    Varian will provide on-site field service support for issues that cannot be resolved by helpdesk or through remote service support.

Following conditions apply: Service agreement does not cover damage relating to environmental changes, abuse, neglect, vandalism, fire, water and force majeure. The Comprehensive Service Package may not be available in some countries.

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Disclaimer and Safety Statement

Intended Use Summary
Varian Medical Systems' linear accelerators are intended to provide stereotactic radiosurgery and precision radiotherapy for lesions, tumors, and conditions anywhere in the body where radiation treatment is indicated.

Important Safety Information
Radiation treatments may cause side effects that can vary depending on the part of the body being treated. The most frequent ones are typically temporary and may include, but are not limited to, irritation to the respiratory, digestive, urinary or reproductive systems, fatigue, nausea, skin irritation, and hair loss. In some patients, they can be severe. Treatment sessions may vary in complexity and time. Radiation treatment is not appropriate for all cancers.

Medical Advice Disclaimer
Varian as a medical device manufacturer cannot and does not recommend specific treatment approaches. Individual treatment results may vary.

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