

ARIA™ Oncology Information System

IMAGE REVIEW

Guide critical treatment decisions with up-to-the-minute digital images and patient information.

ARIA's image review functionality makes image-guided and adaptive radiation techniques more efficient. Physicians can compare treatment images with reference images to determine if changes to the patient setup process are required. ARIA gives the oncologist access to the entire patient chart from any department workstation to review the latest treatment images and guide future treatment decisions. This continuous information feedback loop optimizes the overall IGRT process.

Key features

- > ARIA provides physicians immediate access to all diagnostic and treatment images in the patient's radiation therapy chart.
- > ARIA allows physicians to review matching performed by therapists "on-line," and provide advice and instruction.
- > Online image review gives clinical staff the visual guidance needed to deliver accurate and precisely targeted treatments.
- > Offline image review allows physicians to review patient treatment remotely, ensuring that the image guidance process is correctly applied.
- > ARIA makes it easy for the physician to analyze trends and distinguish between random and systematic patient positioning errors.



Improved treatment accuracy

ARIA automatically matches the isocenters of reference images and treatment images to improve the accuracy of image alignment. Image processing tools in ARIA allow physicians to pinpoint tumor location, ensuring that dose is directed to the tumor while sparing healthy tissue.

Physicians can use ARIA to:

- Review images online at treatment (e.g., 4D Integrated Treatment Console) or offline at any workstation
- Schedule and track treatment image acquisition
- View field parameters, MLC field shapes and gantry orientation on a single screen
- Review dosimetric images for IMRT pre-treatment quality assurance
- Optimize image quality with dynamic filtering, blending, contouring and graticule display tools
- Match images using manual or auto-match algorithms or with correlated points for fiducial markers
- Analyze match results over time to identify patient positioning trends

Up-to-the-minute digital images and patient information

Streamlined clinical process

Your treatment team can access patient diagnoses, plan data, dose summary and images from any department workstation. With ARIA, the patient chart is shared and continually updated, so your staff is always informed and primed to act quickly on any instructions you provide.

ARIA allows clinicians to:

- Access the patient record from any department workstation or Tablet PC
- Access RT data, including treatment plans, reference images and structure sets without import/export, facilitating quick clinical decision-making*
- Review images prepared during treatment planning
- Send couch shift instructions from his/her desktop to the treatment room
- Create filtered work lists to organize image-review workload
- Eliminate time-consuming and expensive film management
- Quickly and accurately charge for image-based activities performed in the department

Extensive DICOM support

ARIA is compliant with the DICOM RT communication protocol and supports a broad range of imaging modalities – MV, kV, PET, MR, Cone-beam CT, DRR, etc.

The ARIA oncology information system allows you to:

- Interface with DICOM-compliant, non-Varian treatment planning systems and imaging devices
- Retrieve images from other medical departments and networks
- Store treatment images to Picture Archiving and Communications Systems (PACS) or to ARIA's Long-Term Archive product

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Elements of the ARIA solution

- Activity Capture – activity, cost, and charge capture
- Chart QA – electronic chart audit management
- Clinical Assessment – oncology-specific electronic medical record
- Data Segmentation – multi-department management
- Dynamic Documents – patient encounter documentation
- HARRP (High Availability Rapid Recovery Protection) – information recovery product
- IEM (Information Exchange Manager) – HL7-based interface engine
- Long-Term Archive – clinical data storage
- Offline Review – multi-modality image review
- Outlook Sync – appointment synchronization
- Patient Manager – clinical information portal
- Reports Author – report generation tool
- RT Chart – treatment plan/prescription workspace
- Time Planner – resource and activity scheduling

** When ARIA is used in conjunction with Varian's Eclipse™ treatment planning system*



ARIA is part of the Inspiration™ integrated oncology environment.

Inspiration, the Varian advantage

USA Headquarters, California
Varian Medical Systems
Palo Alto, CA
Tel: 650.424.5700
800.544.4636
Fax: 650.493.5637
www.varian.com

RAD 9883A

Headquarters Europe, Eastern Europe, Africa, Middle & Near East
Varian Medical Systems International AG
Zug, Switzerland
Tel: 41.41.749.8844
Fax: 41.41.740.3340
info.europe@varian.com

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