VARIAN
medical systems

ARIA ONCOLOGY INFORMATION SYSTEM
RADIATION ONCOLOGY

The ARIA® oncology information system is a powerful information and image management solution designed to support the specific clinical needs of oncology patients — and the specific workflow needs of the clinicians who care for them. ARIA provides the tools you need to simplify the radiation therapy process and deliver quality, consistent care — from diagnosis through survivorship.
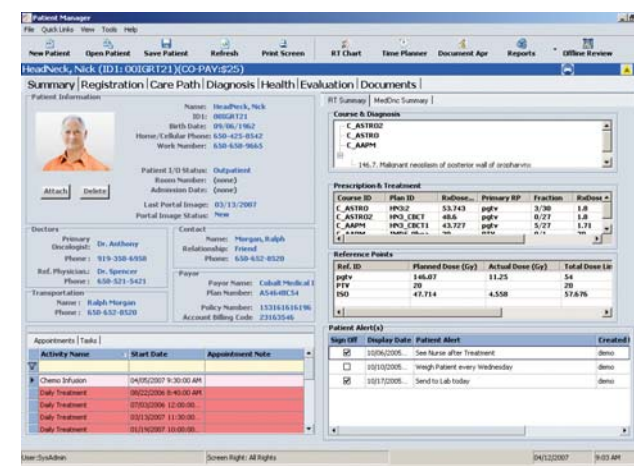
BRIDGING ONCOLOGY CARE AND TECHNOLOGY

From prescription creation to plan and image management, the ARIA oncology information system gives you the freedom to select the best treatment approach for each patient and the power to carry out your plans with confidence.

Treatment versatility

ARIA provides support for a variety of treatment options, including:

• Image-guided radiation therapy (IGRT)
• Stereotactic radiosurgery (SRS)
• Stereotactic body radiation therapy (SBRT)
• Volumetric modulated arc therapy (VMAT)
• Proton therapy
• Brachytherapy

Comprehensive oncology health record

With ARIA, you can free your department from its reliance on paper charts and transform disorganized data into information you can act on. Instant access to schedules, prescriptions, reference point information, laboratory results, and toxicity profiles can help you quickly evaluate each patient's response to treatment and use this information to guide future decisions. And because ARIA records patient information into discrete, structured data fields, it is always available for further analysis and reporting.
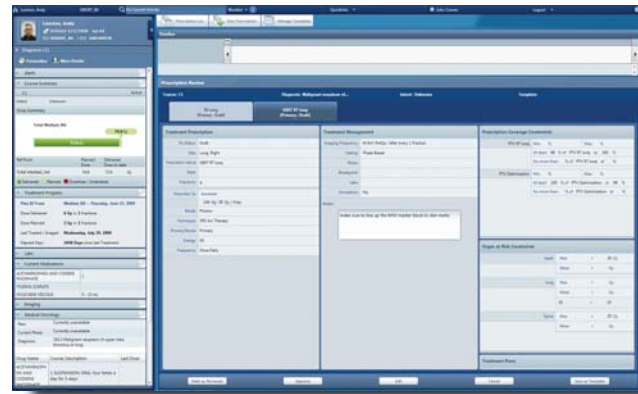
ARIA's oncology-specific electronic medical record (EMR) contains:

• National Cancer Institute (NCI) toxicity profiles
• Performance status scales (ECOG, GOG, Karnofsky, and Lansky)
• Reviews of systems/physical exam histories
• Patient history and documentation
• ICD 9/10/0 diagnosis coding
• AJCC guideline-driven staging
• Lab results
• Drug orders and current medication lists with medical reconciliation functionality
• Allergy and infectious disease information
• Clinical notification functionality
• National Quality Forum (NQF) quality measures
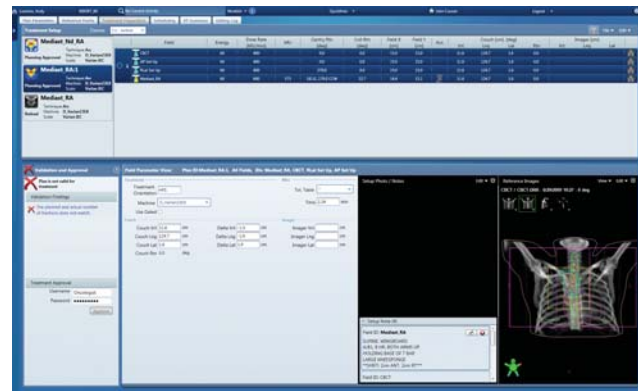• Clinical notes and questionnaires

INTEGRATION: THE VARIAN ADVANTAGE

Varian's delivery, imaging, and software products work together to streamline clinical workflow and minimize redundant data entry.

1. Treatment prescription

Write prescriptions that include detailed coverage objectives for planning target volumes (PTVs) and organs at risk. Preferred schedules for imaging and lab orders can be included in prescription templates and easily modified for future use.
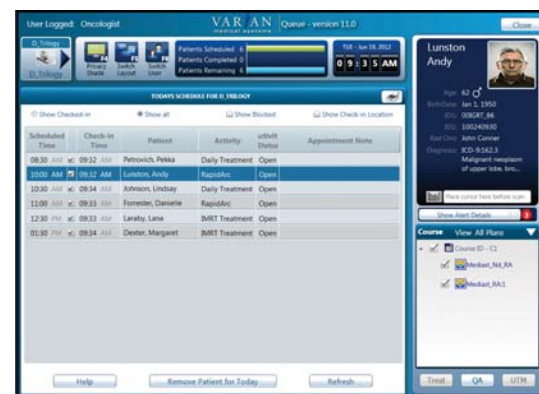

2. Treatment preparation

Schedule treatment fractions and imaging sessions, track dose, and approve treatment plans from a single workspace. The system automatically prompts users to reconcile any inconsistencies in the plan before it becomes available for treatment.
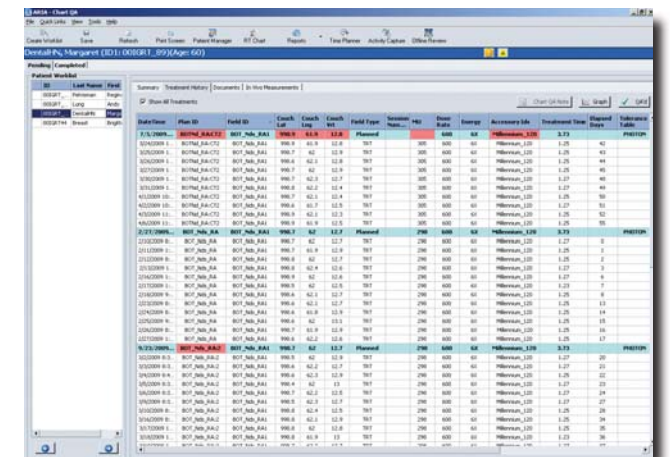
3. Treatment delivery

In a Varian integrated oncology environment, the ARIA oncology information system, Eclipse™ treatment planning system, and Varian treatment devices share a unified system database. This expedites the transition from plan creation to treatment delivery by eliminating time-consuming and duplicative plan import/export and QA steps.

4. Treatment image review

ARIA matches the isocenters of reference images and treatment images to aid in accurate dose guidance and healthy tissue sparing. Images acquired at the accelerator are immediately available for physician review from any workstation in the department or via remote connection using thin-client technology.

5. Chart audits

Physicists can use ARIA for routine chart audits to ensure that treatment is progressing according to plan. Plan and treatment parameters are available on a single screen with color-coded highlights of any plan changes or overrides.

PLAN INFORMATION
SESSION DETAILS
IMAGE INFORMATION
TREATMENT DETAILS
TREATMENT PROGRESS SUMMARY
CLINICAL & PATIENT ALERTS

Workflow efficiency tools

ARIA allows you to establish dependencies between specific activities to continually drive workflow in your department. Linking activities helps ensure that all prerequisite tasks are completed on schedule. Point-of-care charge posting in ARIA makes it easy to keep track of all chargeable events in your center.

View appointments and all clinical milestones for each patient from a single screen.
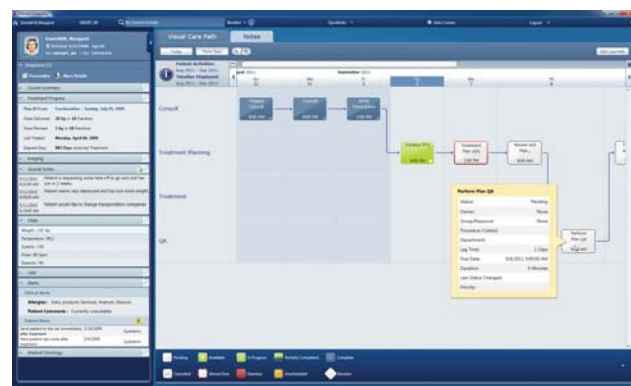
User-specific home pages

Each staff member's personal user home screen contains all appointments and tasks assigned to them or to their group. At-a-glance views of staff and equipment resources can help you rapidly identify potential gaps in coverage.
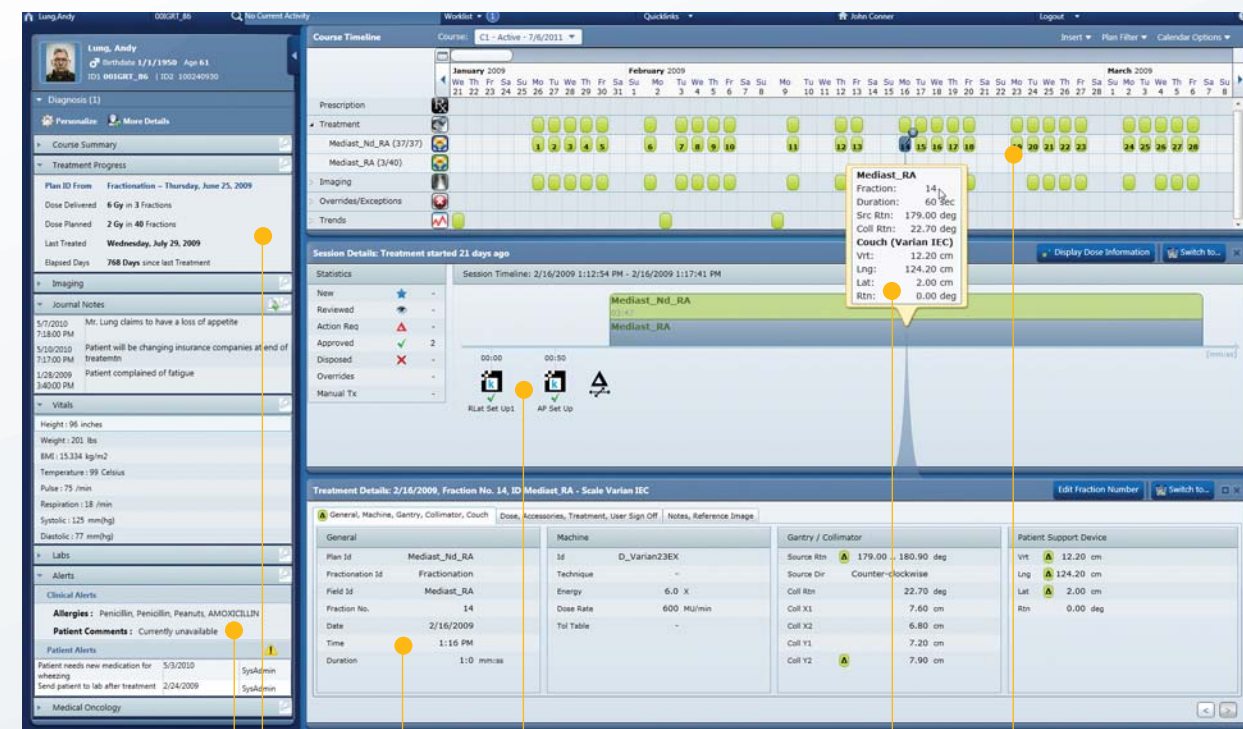
Visual Care Paths

Visual Care Paths are intuitive, template-based flow charts that provide a consolidated, graphical view of each patient's treatment course, including the status and due date of all activities related to their care.

Automatic task escalation

When a clinical task has been completed, the staff member responsible for the next activity in the sequence of events is automatically notified. You are able to configure ARIA to alert other users in the department if any assigned task becomes overdue. This powerful feature can accelerate care delivery in your department by uncovering any workflow bottlenecks or inefficiencies that may exist.

Radiation therapy summary

A summary of radiation dose and all treatment images for each patient are automatically saved in the database and graphically displayed for easier review.

Checklists and templates

Systematically enforce department protocols through the use of customizable checklists and templates. Use these tools to standardize care and ensure that the safety practices you establish in your center are complied with — without fail.

Configurable checklists can provide important cues and reminders to your staff as they perform clinical activities that may impact patient safety. The use of checklists eliminates any ambiguity about the specific steps you expect your staff to perform or the information they must verify prior to the completion of any task in the treatment planning or delivery process.

Reusable prescription, Visual Care Path, questionnaire, and document templates can significantly reduce the amount of manual and duplicative data entry in your center and help to safeguard against clerical errors that may result.

Facilitate staff compliance to your department protocols by linking customizable checklists to any activity.

Flexible, remote access

ARIA gives you easy access to portions of the patient EMR via a web browser — over your secure virtual private network (VPN), or other mobile devices, such as iPad[1]. This convenient, web-based and remote access to the system provides a new level of freedom and flexibility.

To further enhance the remote user experience, Varian offers FullScale™ enterprise IT solutions — a comprehensive virtualization solution designed to complement the full range of Varian's hardware and software offerings. Virtualization support at the client and/or server level can offer benefits to both IT and clinical professionals, such as:

• Access to Varian applications from anywhere within the department or from external locations

• Fast and easy remote treatment planning that includes cluster computing for dose calculation

• Reduced hardware costs and reduced upgrade times for minimal workflow disruption

Standards-based connectivity

Varian's adherence to industry-standard communication protocols such as DICOM RT and DICOM Worklist means ARIA can be easily interfaced with other DICOM- and DICOM Worklist-compliant treatment devices, planning systems, and diagnostic imaging equipment.

Electronically exchange patient information with hospital information systems, public health registries and ancillary departments, such as pathology, billing, pharmacy and laboratory using ARIA's HL7-based interface engine. Varian also offers custom interface creation for non-HL7-based systems.

→ **To learn more, contact your local sales representative or visit www.varian.com/aria**

[1] iPad is a trademark of Apple, Inc. registered in the U.S. and other countries. The iPad app can be downloaded at http://itunes.apple.com/us/app/aria-v11/id489782767?ls=1&mt=8