mim SOFTWARE

RADIATION ONCOLOGY

Innovations for Plan Quality Improvement

nltec SINCE 1994

Elevate Your Workflow

MIM Software provides indispensable software that standardizes the Radiation Oncology clinical workflow and helps manage and fully leverage the increasing volume and variety of medical imaging required for improved treatment planning. MIM Software provides automation of routine and complex processes to increase clinical efficiency, from pre-planning through adaptive therapy.

RO DEPARTMENT WORKFLOW

Pre-Planning

MIM Premier®
- Comprehensive Pre-Planning Solution

Contour ProtégéAI™
- OAR Auto-Contouring

MIM Maestro®
- Image and Dose Registration
- Target Volume Creation

Treatment Planning

MIM Symphony® LDR
- LDR Brachytherapy Treatment Planning

Plan QA

MIM Harmony®
- Peer Review

MIM SureCalc® MonteCarlo
- Plan Second Check

Treatment Delivery

Adaptive Therapy

MIM SureCalc® MonteCarlo
- Quantitative Adaptive Assessment

Success Begins Before Treatment Planning

There are many important pre-planning tasks that are underserved by existing treatment planning systems. **MIM Premier** is a purpose-built solution designed to automate and standardize every step of your pre-planning workflow — from simulation to treatment planning.

Workflow Efficiency

Flexible workflow automation designed to handle the varying treatments your clinic delivers for seamless collaboration and handoffs between clinicians.

Imaging-Informed Target Volume Segmentation

Disease site-specific workflows are available to solve the challenge of complex treatment protocols and organize all imaging required for target volume segmentation in a standardized and actionable way.

Organized Planning Preparation

The MIM Maestro® Department Solution is orchestrated into a comprehensive and automated clinical workflow for pre-planning.

MIM PREMIER PRE-PLANNING WORKFLOW

Simulation ⟶ Planning

| Import Imaging | Image Registration | Registration QA | Auto-Contouring | Target Volume Creation | Plan Support Structures | Contour QA |

The pre-planning process involves many clinicians and steps to ensure a quality treatment plan.

Next-Generation Deep Learning Segmentation

Contour ProtégéAI is a clinically practical auto-contouring solution that uses deep learning algorithms to generate accurate initial results that require minimal editing.

Ready to Use

Trained and ready to go — no need to collect a myriad of user-contoured datasets to begin. Quick to deploy and scale, no matter how large your patient volume. Vendor neutral to fit into your process.

Fast and Accurate

Auto-contouring begins immediately when MIM receives the simulation image. This significantly reduces contour editing time and expedites the target volume segmentation process.

Clinically Implemented
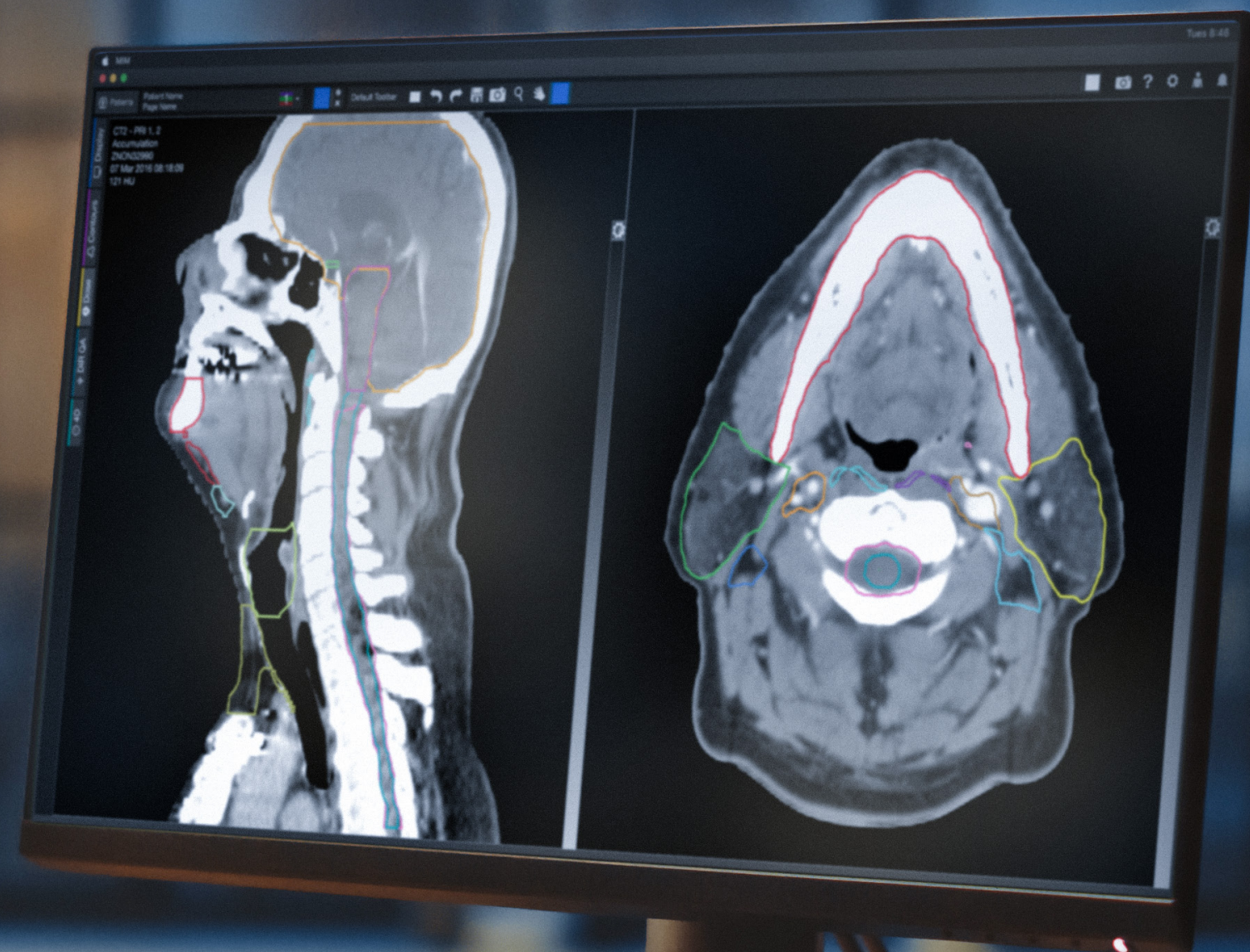
Validated and tested by leading institutions.

"Contour ProtégéAI allows me to spend more time on the treatment planning process. Taking the contouring time out of that process allows me to spend more time generating a higher quality plan for our patients."

Brad Pollard

Medical Physicist and Dosimetrist
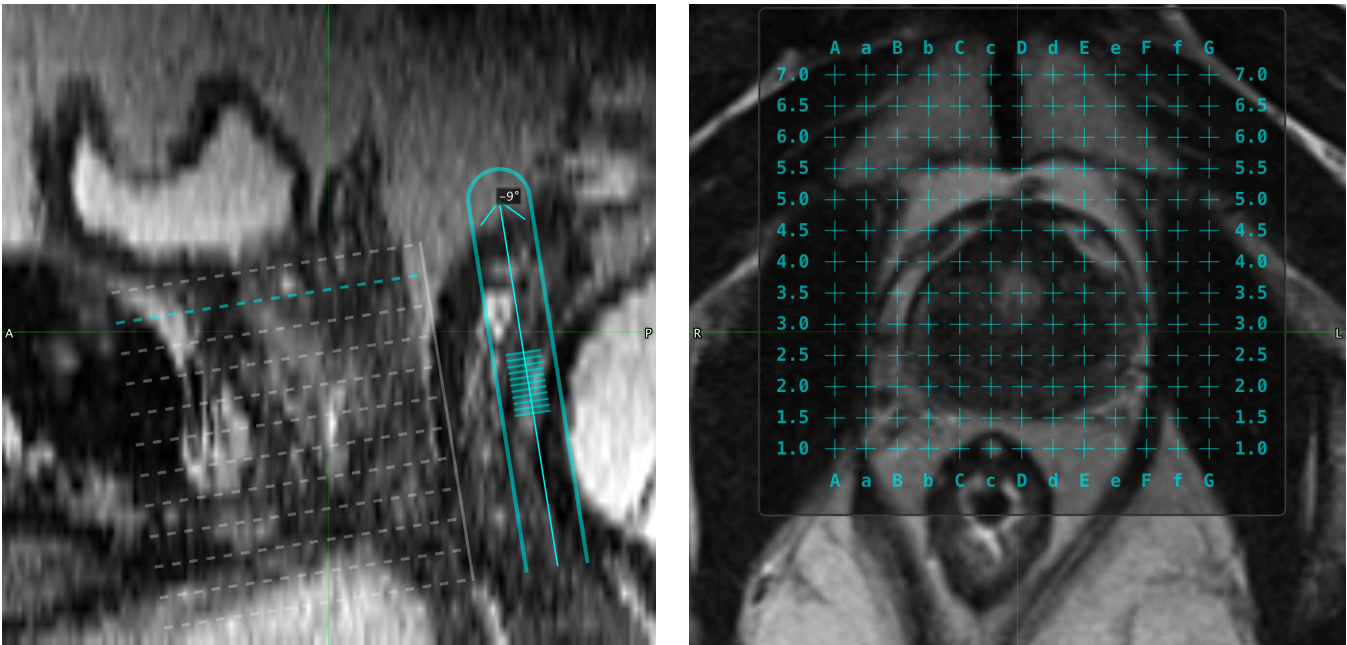AUSTIN CENTER FOR RADIATION ONCOLOGY
AUSTIN, TX

Comprehensive LDR Treatent Planning with MIM Symphony LDR

MIM ReSlicer®

Provides seamless MRI to ultrasound registration.

Predictive Fusion®

Guides you to eliminate misalignments and deformation errors during ultrasound acquisition.

Full Platform

Full treatment planning platform for MR or US-based planning with the same platform and tools as MIM Maestro®.

OTHER TREATMENT SITES

MIM Symphony is a general purpose Brachytherapy platform. While prostate is an important treatment site, MIM Software supports a variety of other treatment areas. Please contact us to discuss other options.

Prostate HDR Solutions

Experience improved lesion visualization and plan quality with MRI. Using MRI provides the ability to boost dose to the MRI-visible lesion and enables more conformal dosimetry, resulting in improved cancer control with fewer complications.
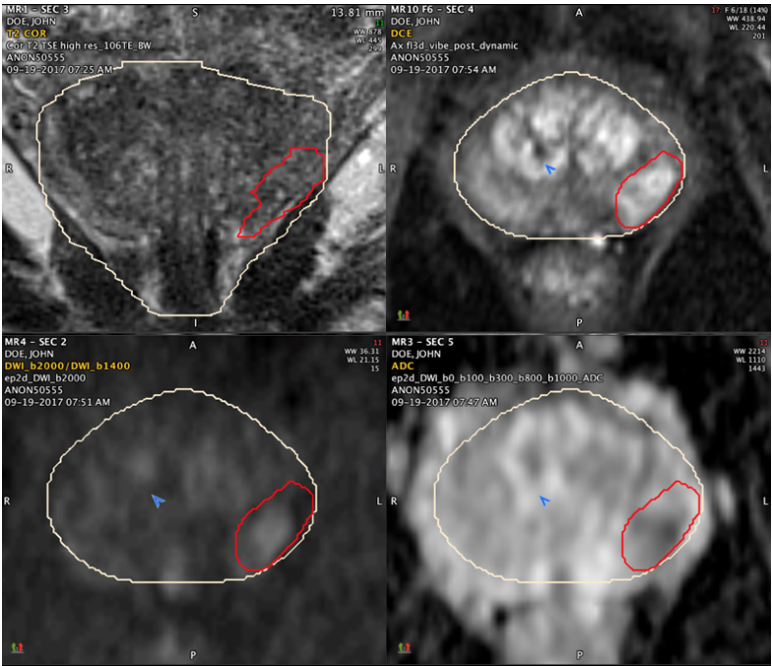
Registration QA

Enables localization and real-time QA of the lesion using registrations.

Predictive Fusion®

Establishes a relationship between MRI-visible lesions and catheter placements.

Standardization

Provides a reproducible process with automated tools for guidance during procedures.

Rethink Peer Review

Peer review is an essential component of your plan QA process. **MIM Harmony** provides a purpose-built platform to standardize peer review practices, catch more problematic plans, and trend data over time to identify opportunities for practice improvement.

Automate Preparation with MIM Assistant®

Forget the days of having to spend hours prepping cases for peer review. MIM Assistant will automatically prepare your cases to ensure a focused review with all necessary elements at your fingertips. Time saved on case prep can be better used for plan quality efforts.
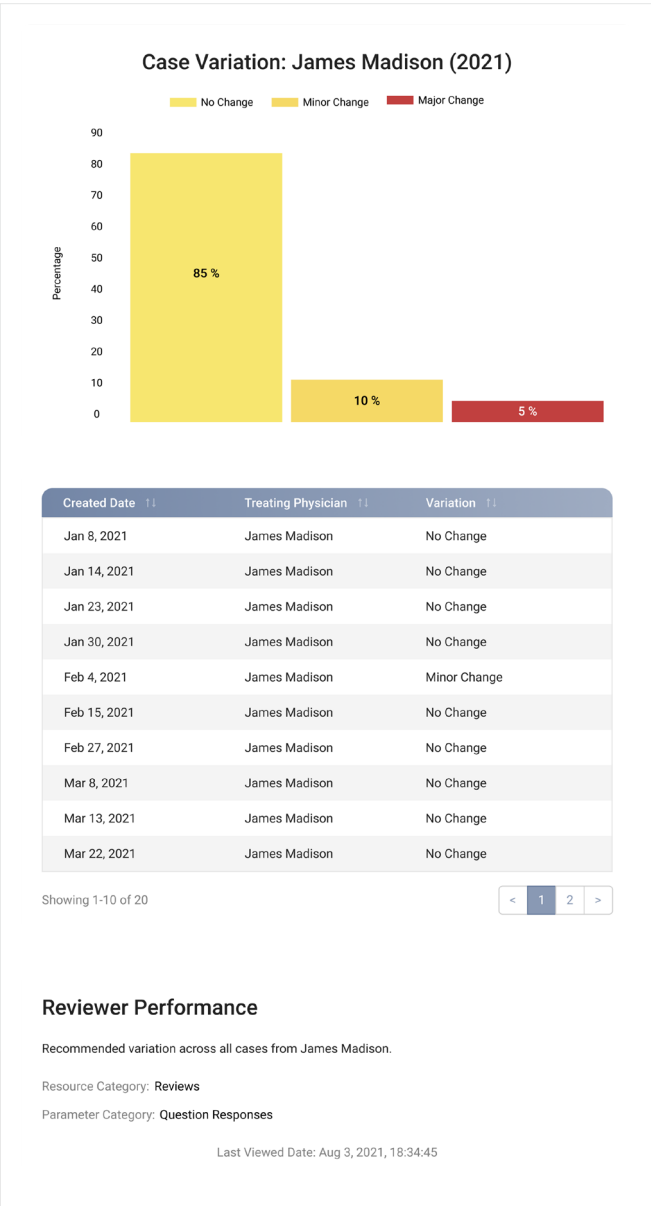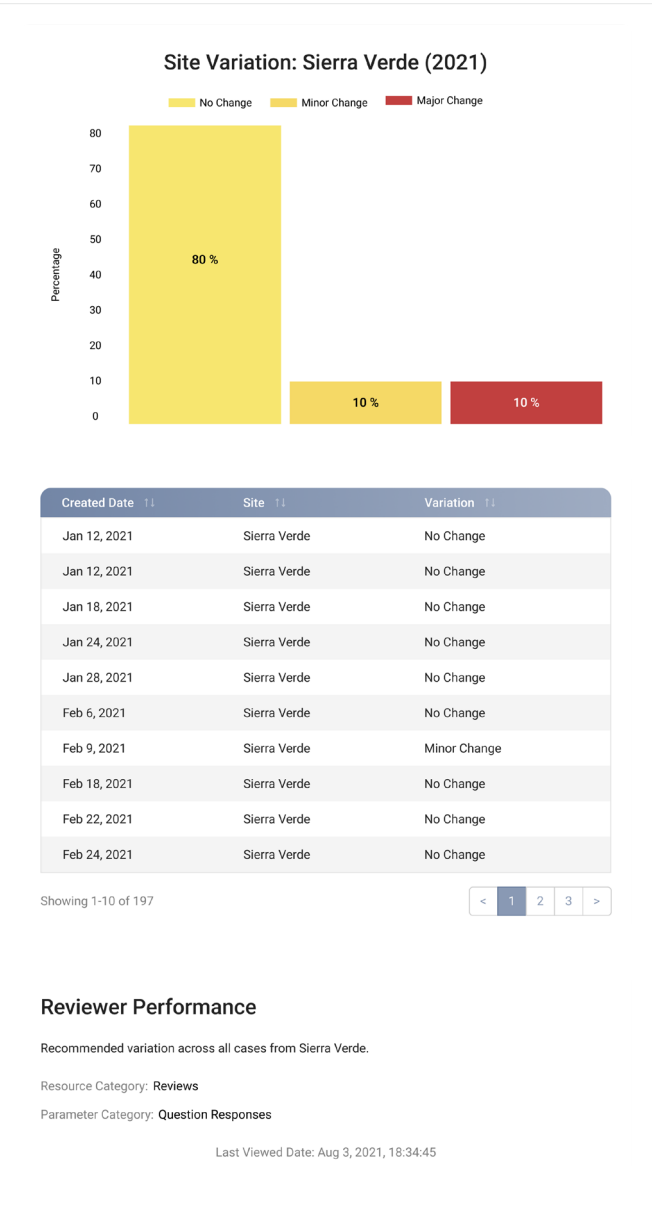
Capture Structured Feedback with Templated Questionnaires

Asking the right questions and ensuring they are answered is the foundation for a high quality and standardized review. Our templated questionnaires are tailored to your clinical protocols and direct your attention to what is most important for each patient.

Standardize Execution with Custom Worklists

Each meeting or individual review is guided by a worklist that can be disease site-specific. Fully customizable to your institution's needs, our robust yet simple-to-use interface will allow you to tailor each review to its intended audience.

Achieve Practice Improvement with Data-Driven Insights

As your team completes each review, our robust data analytics platform compiles critical information and aggregates it over time. This enables your clinic to analyze and identify areas of quality improvement that would otherwise go undetected.
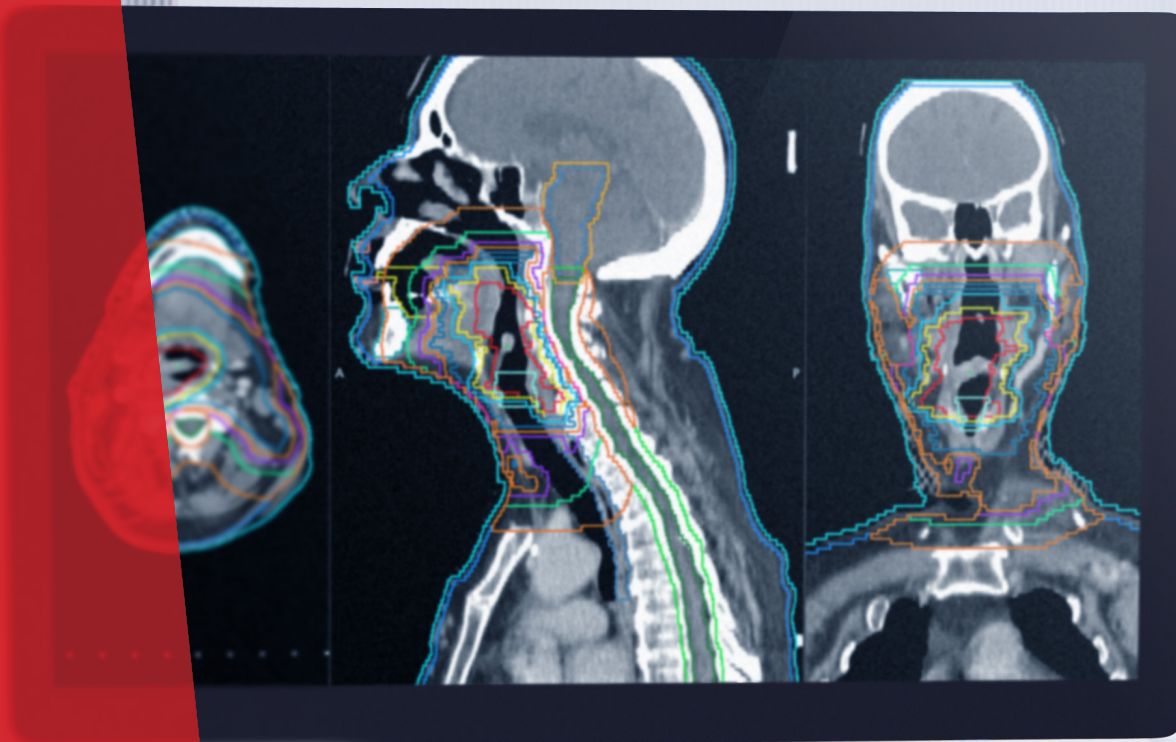
ANALYTICS FOR PRACTICE IMPROVEMENT

Site Variation: Sierra Verde (2021)

No Change   Minor Change   Major Change

80 %   10 %   10 %

Created Date	Site	Variation
Jan 12, 2021	Sierra Verde	No Change
Jan 12, 2021	Sierra Verde	No Change
Jan 18, 2021	Sierra Verde	No Change
Jan 24, 2021	Sierra Verde	No Change
Jan 28, 2021	Sierra Verde	No Change
Feb 6, 2021	Sierra Verde	No Change
Feb 9, 2021	Sierra Verde	Minor Change
Feb 18, 2021	Sierra Verde	No Change
Feb 22, 2021	Sierra Verde	No Change
Feb 24, 2021	Sierra Verde	No Change

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Reviewer Performance

Recommended variation across all cases from Sierra Verde.

Resource Category: **Reviews**

Parameter Category: **Question Responses**

Last Viewed Date: Aug 3, 2021, 18:34:45

Case Variation: James Madison (2021)

No Change   Minor Change   Major Change

85 %   10 %   5 %

Created Date	Treating Physician	Variation
Jan 8, 2021	James Madison	No Change
Jan 14, 2021	James Madison	No Change
Jan 23, 2021	James Madison	No Change
Jan 30, 2021	James Madison	No Change
Feb 4, 2021	James Madison	Minor Change
Feb 15, 2021	James Madison	No Change
Feb 27, 2021	James Madison	No Change
Mar 8, 2021	James Madison	No Change
Mar 13, 2021	James Madison	No Change
Mar 22, 2021	James Madison	No Change

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Reviewer Performance

Recommended variation across all cases from James Madison.

Resource Category: **Reviews**

Parameter Category: **Question Responses**

Last Viewed Date: Aug 3, 2021, 18:34:45

Pressures from hospital administration, payors, and accreditation bodies leave many clinicians struggling with how best to identify problematic plans and ensure high-quality treatment.

In addressing these challenges, a solution needs to make peer review more robust while maintaining efficiency by seamlessly capturing pertinent data to drive practice improvement.

MIM Harmony does this by automating case preparation and driving a standardized and streamlined review that focuses on the most critical elements for each type of plan.

PLAN QA AND ADAPTIVE THERAPY

Verify Plan Quality and Inform Adaptive Assessment

Typically, plan second check must be performed in an isolated application limited to that purpose. **MIM SureCalc MonteCarlo** integrates plan second check into your workflow and expands dose calculation to adaptive assessment.

PLAN SECOND CHECK

Automated Processing

Automates independent second check of RTplans from calculation to reporting.

Beam Model Measurement Data QA

Monte Carlo simulation-based validation of your base data and TPS beam models can help prevent systematic discrepancies in dose calculation. Utilize institution-specific beam models derived from validated base data for superior plan second check accuracy.

Fast, Accurate 3D Monte Carlo

Monte Carlo is the gold standard for accuracy, especially for complex and highly modulated plans. Cases typically calculate in less than 5 minutes.
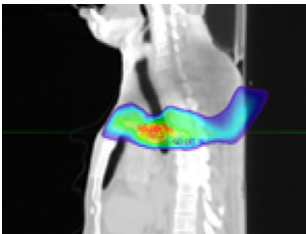
AUTOMATED ADAPTIVE ASSESSMENT

Once enrolled, no user input is necessary. The level of automation available makes true dose-guided adaptive radiation therapy clinically feasible. Reports, processing schemes, and adaptive triggers can be easily customized to fit to department's needs.

CBCT Enhancement

Automatically improves quality of every incoming CBCT. Reduces shading artifact, improves HU values, and expands FOV.

Dose Calculation and Adaptive Recontouring

Calculates dose and adapts planning structures to daily CBCT for true dosimetric assessment based on changing anatomy of the patient.
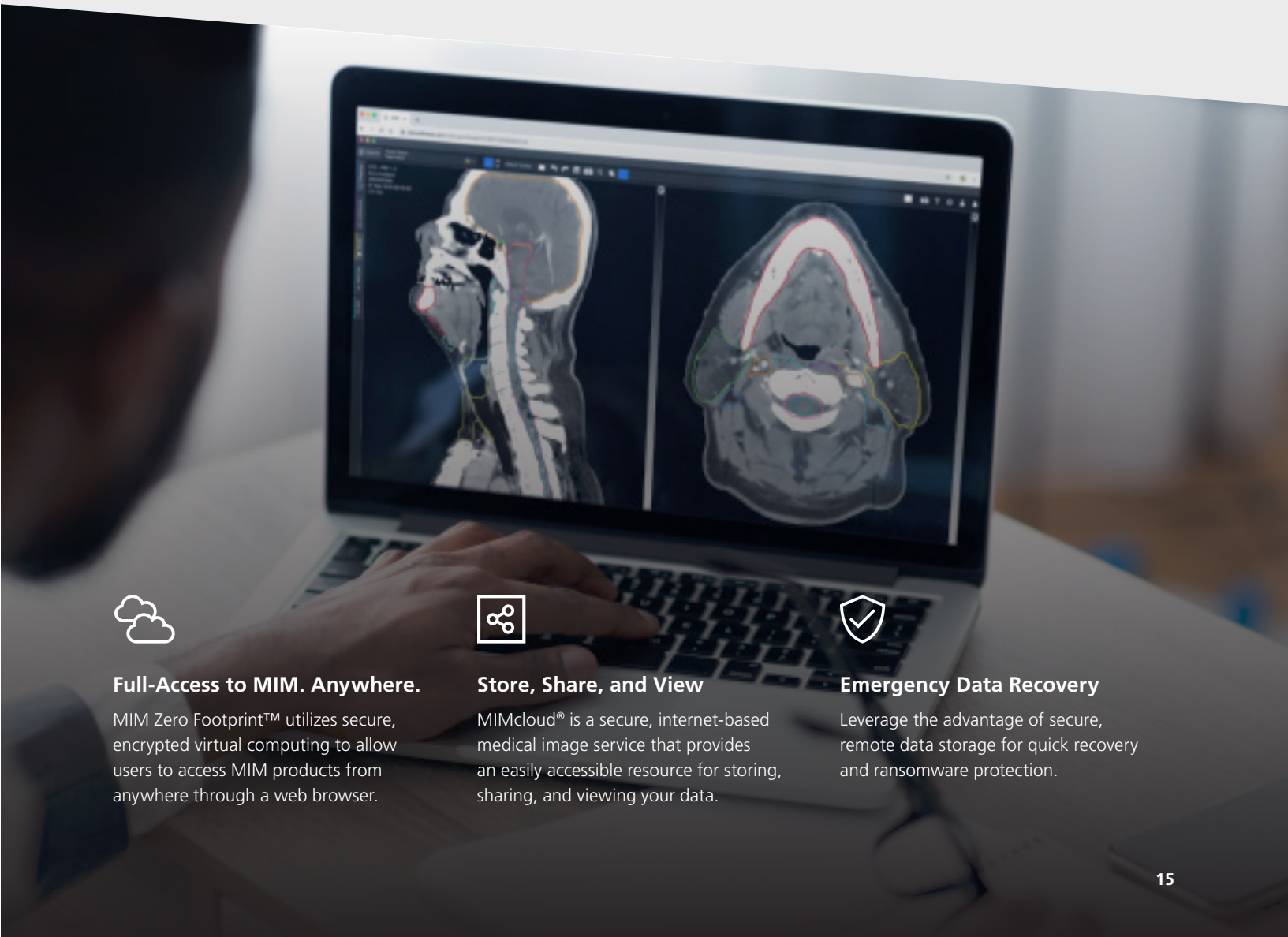
Automated Trending and Flagging Adaptive Triggers

Accumulates daily dose across fractions delivered, and generates projections. Changes in critical structures and tumor volumes are trended during course of treatment. Failure to meet dose constraints is flagged automatically for further review.

Don't Compromise on Your Remote Contouring Connection

A fast, reliable, and effective contouring experience has always been a challenge for clinicians who need or want to work remotely. Hospital solutions, such as VPN and local hosting, introduce additional complications ranging from a lack of security to less-than-stellar performance. Now that working remotely is likely here to stay, what does your process look like?

Full-Access to MIM. Anywhere.

MIM Zero Footprint™ utilizes secure, encrypted virtual computing to allow users to access MIM products from anywhere through a web browser.

Store, Share, and View

MIMcloud® is a secure, internet-based medical image service that provides an easily accessible resource for storing, sharing, and viewing your data.

Emergency Data Recovery

Leverage the advantage of secure, remote data storage for quick recovery and ransomware protection.

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