

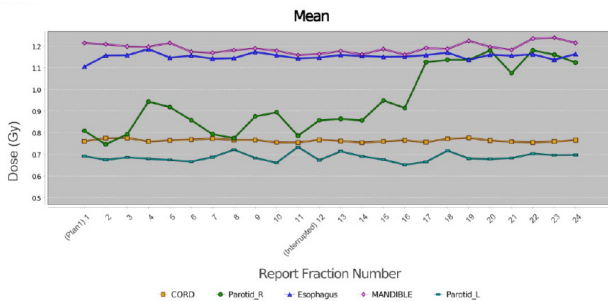
PreciseART® ADAPTIVE RADIATION THERAPY OPTION

Making Adaptive Radiotherapy Practical for Every Clinic

FULLY INTEGRATED AND AUTOMATED OFFLINE ADAPTIVE SOLUTION

PreciseART® Adaptive Radiation Therapy option extends adaptive radiotherapy possibilities, delivering an entirely new level of system integration, patient personalization and workflow automation. The PreciseART option enables clinicians to better monitor every patient and more efficiently adapt plans, helping clinics of all sizes deliver more precise treatment to more patients.

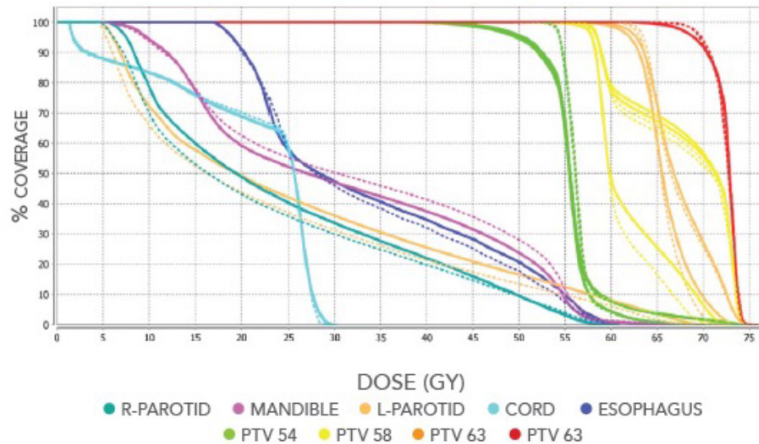
Monitor automated report of trends in dose, dose-volume, target or OAR absolute volumes



Fraction report in PreciseART automatically include VOIs and dose constrains data

Contour	Target	Total Planned Dose	Fulfilled	Projected Dose	Fulfilled	% Change	Change
Prostate	58 Gy to ≥ 95 % Contour Vol	97.63 % Contour Vol	✓	97.13 % Contour Vol	✓	-0.51	-0.5
Bladder	≤ 10 Gy to 30 % Contour Vol +5.0 / -0.0 Gy	13.93 Gy	✦	14.60 Gy	✦	4.81	0.67
Rectum	90 % Rx to ≤ 10 % Contour Vol	10.22 % Contour Vol	✗	10.63 % Contour Vol	✗	4.01	0.41
Seminal Vesicles	Mean dose ≥ 43 Gy	43.02 Gy	✓	45.68 Gy	✓	6.18	2.66

Efficiently assess the impact of anatomical changes on treatment plans



DOSE TRACKING AND EVALUATION

Automatically processes daily images and tracks daily deformation and dosimetric effect of anatomical changes to a patient's treatment plan. Incorporates daily patient treatment shifts in adaptive calculations.

ADAPTIVE DECISION

Automatically generates reports based on user defined protocol(s) to quantify dosimetric changes and provide intelligent alerts to help users to make adaptive and non-adaptive treatment decisions.

RE-PLANNING PROCESS

Streamlined re-planning process with PreciseRTX® to efficiently generate new treatment plan based on the anatomical changes of the patient and previous plans.

REPORT SUMMARY

Automatically tracks all delivered plans and maintains the integrity of the original treatment plans to ensure tumor coverage, preserve OAR doses and minimize toxicity.

QUANTITATIVE IMAGES

ClearRT™ helical fan-beam kVCT images (acquired in fine mode and normal mode) provide diagnostic-like image quality for accurate dose calculations on the Daily registration

- Excellent soft tissue contrast for confidence in automated deformation
- Realistic HU's throughout the image improve accuracy of daily dose accumulation

Fan beam MVCT images allow for treatment-plan-quality dose calculations using daily IGRT Images

- Accurate, heterogenous superpositions dose calculation without additional modification or special QA*
- Automatically augment daily MVCT with superior, inferior and axis aspects from treatment planning CT

*Langen, K., Meeks, S., Poole, D. (2005). The Use of Megavoltage CT (MVCT) Images for Dose Precomputation. Med. Phys. Medical Physics, 32(6), 2025. doi:10.1118/1.1998053

AUTOMATED MONITORING

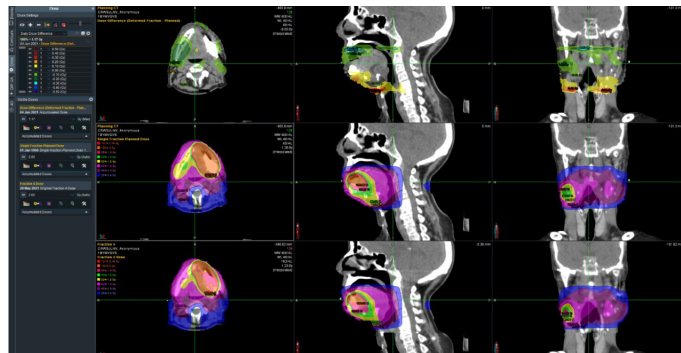
Automating key processes allows clinicians to monitor all patients and immediately identify candidates for re-planning

- Deforms the planning VOIs onto the daily image
- Calculates the dose on the daily image
- Deforms and accumulates daily dose onto treatment planning CT
- Flag fractions with structure(s) exceeding user-defined dose or dose-volume tolerance
- Default report template with personalized plan quality criteria (Dx Vx Criteria) in Accuray Precision® Treatment Planning System

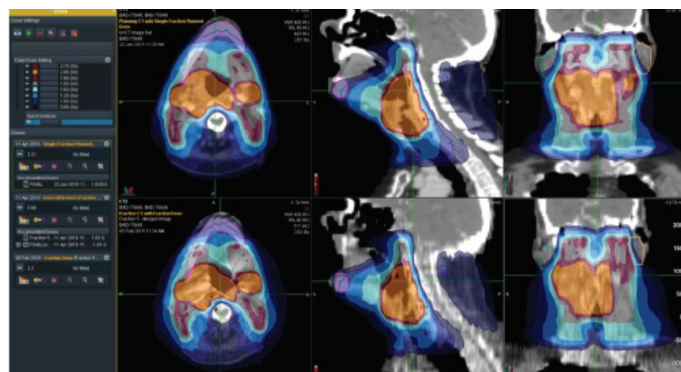
EFFICIENT EVALUATION

Fully integrated treatment planning and delivery data helps clinicians quickly identify patients that will benefit most from re-planning

- Review daily dose and registrations, cumulative dose, dose differences and trending data
- Compare fractions and see original and deformed contours on daily merged image
- Evaluate deformation with built-in QA tools



ClearRT™ helical fan-beam kVCT image registration



CTrue™ MVCT image registration

Deliver more. **Better. Faster.**

ACCURAY

Important Safety Information:

Most side effects of radiotherapy, including radiotherapy delivered with Accuray systems, are mild and temporary, often involving fatigue, nausea, and skin irritation. Side effects can be severe, however, leading to pain, alterations in normal body functions (for example, urinary or salivary function), deterioration of quality of life, permanent injury, and even death. Side effects can occur during or shortly after radiation treatment or in the months and years following radiation. The nature and severity of side effects depend on many factors, including the size and location of the treated tumor, the treatment technique (for example, the radiation dose), and the patient's general medical condition, to name a few. For more details about the side effects of your radiation therapy, and to see if treatment with an Accuray product is right for you, ask your doctor.

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