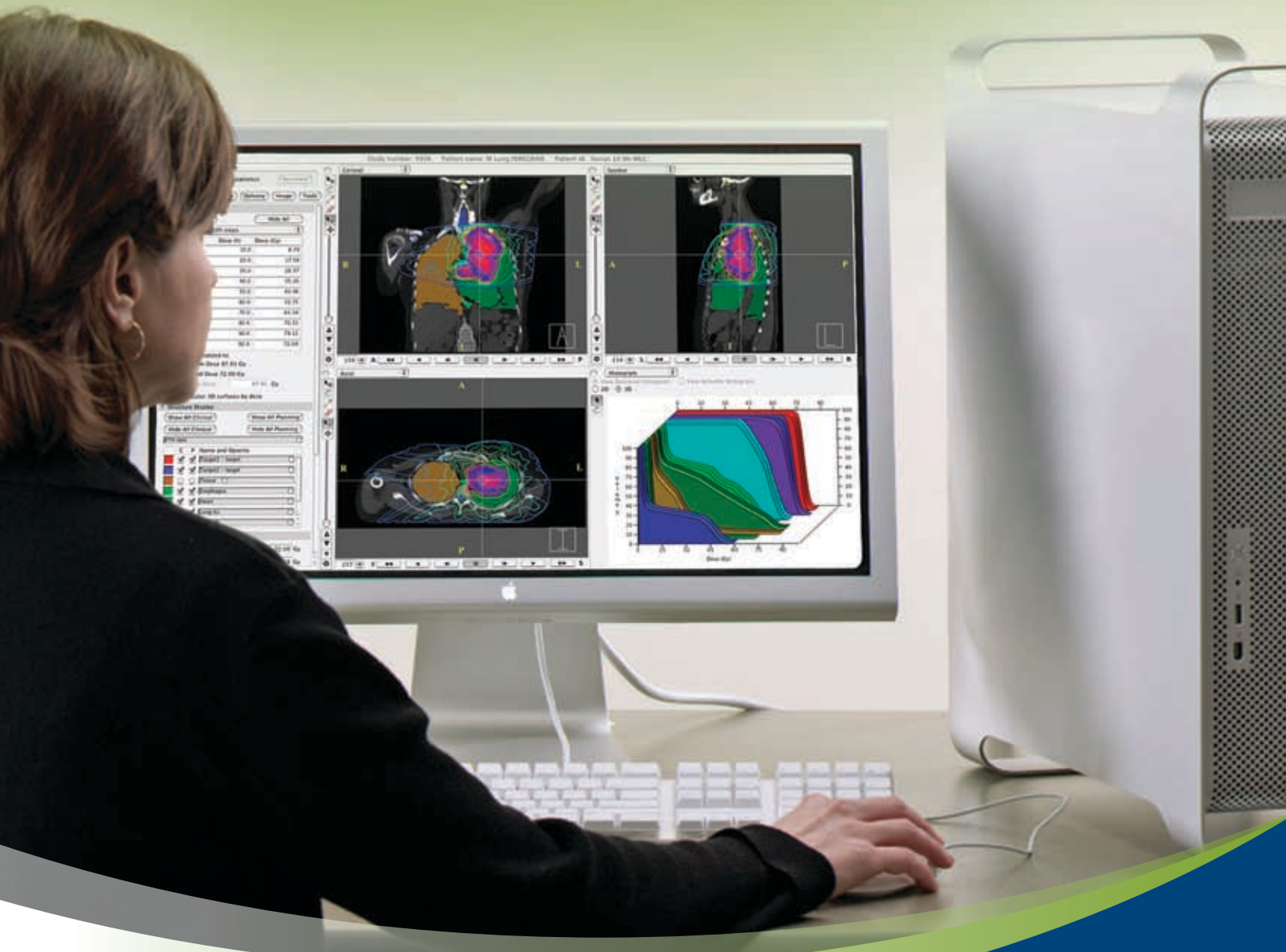


*Best* **nomos**<sup>®</sup>  
healthcare for everyone



**CORVUS**<sup>®</sup>

EXTERNAL BEAM TREATMENT PLANNING SYSTEM

# Your Single Source Oncology Solutions Provider *Plan. Target. Treat.*

At Best® NOMOS®, we design products and solutions that help medical professionals treat a variety of cancers. Our products are used extensively to accurately plan, target, and deliver radiation treatments to patients all around the world. We are best known for our innovations in IMRT and IGRT, having delivered the first commercial IMRT system, the PEACOCK® in 1992. As one of the members of the TeamBest® family of companies, we have an expansive product offering beyond IMRT and IGRT. Our aim is to be the Single Source Oncology Solutions provider of choice for our customers. We can offer our customers a wide array of best-in-class products used in brachytherapy, as well as external beam radiation. It is through our commitment to our customers that we will succeed in our mission to provide “healthcare for everyone”.

## OPTIMIZED TREATMENT PLANNING WITH CORVUS®

Widely recognized as the gold standard in IMRT treatment planning, the CORVUS treatment planning system continues to be the most flexible IMRT treatment planning system available today. With advancements in plan creation tools such as nFUSION™ and ActiveRx™, as well as advances in system architecture, operating system and hardware, CORVUS is an indispensable tool. It also offers the added benefit of providing capability across major OEM MLCs for static, dynamic and serial tomotherapy delivery. Chosen by elite cancer hospitals for its clinical capability and leading reputation, CORVUS offers a practical way for smaller community hospitals and freestanding centers to provide clinical excellence to a broader reach of patients.

## CORVUS TREATMENT PLANNING SYSTEM — AT A GLANCE

### Save time with ActiveRx

CORVUS is the only treatment planning system with ActiveRx. It provides the ability to manipulate isodose lines after plan calculation to improve the plan with immediate, graphical feedback, eliminating the trial and error process.

### New nFusion technology

Based on a mutual-information algorithm, CORVUS lets you co-register CT, MR and PET images to your base CT image set automatically. This eliminates the need to enter matching fiducial points between image sets and provides consistently better image registration than manual techniques.

### Multiple optimization algorithms and efficiency options

CORVUS uses simulated annealing algorithms and supports a gradient descent algorithm, provides optimization efficiency choices and FAST IMRT to set level of intensity modulation. Tailor your treatment planning process to the complexities of the cases you are treating.

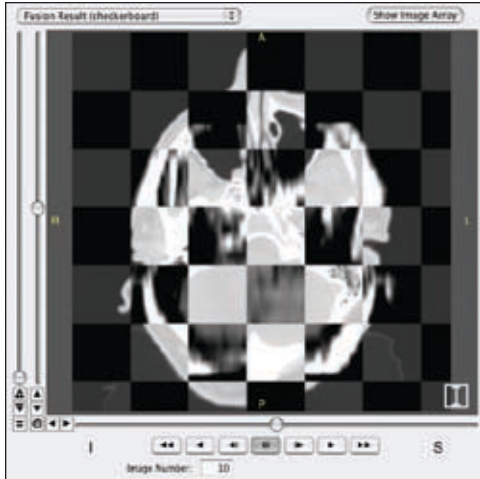
### Highest resolution dose calculation grid

CORVUS offers the highest resolution dose calculation grid capability, 1 mm<sup>3</sup>.

### Exclusive on-site commissioning service

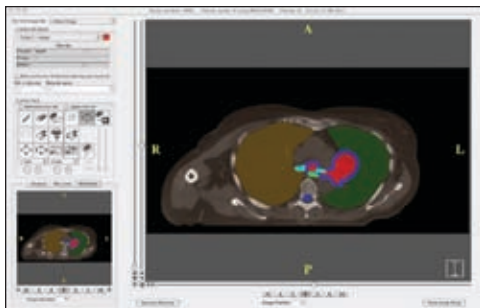
Best NOMOS is the only vendor to provide on-site commissioning service — commissioning to first patient treatment in only a few weeks after installation.

# CORVUS TREATMENT PLANNING PROCESS FAST, ACCURATE, CONSISTENT



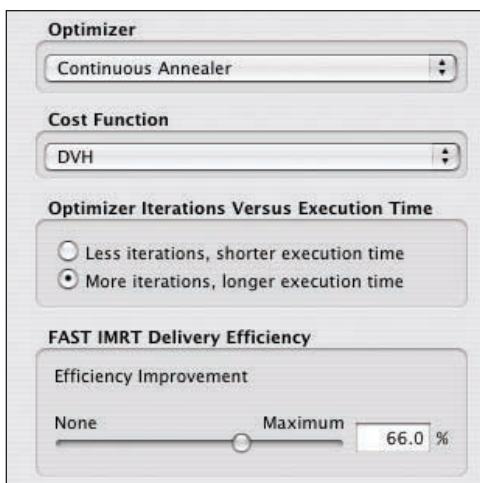
## nFUSION INCREASES POSITION ACCURACY

IMRT depends on precise target localization. Based on a mutual information fusion algorithm, nFUSION aligns and co-registers image sets from CT, MR or PET to the base CT image set. Unique in display, the nFUSION checkerboard offers a more efficient way to verify fused images by providing image window quadrants. Often these are easier to evaluate than images placed side-by-side.



## REAL-TIME STRUCTURE CONTOURING

CORVUS provides unique contouring tools for quick and accurate segmentation. Different and more powerful than standard drawing and paint tools, CORVUS offers “lasso” and “flood fill” features and an ability to record multiple actions into a repeatable macro — automation features that simplify the contouring process.

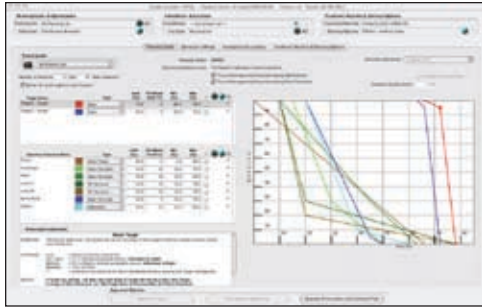


## PLAN OPTIMIZATION FLEXIBILITY

CORVUS supports both simulated annealing and gradient descent optimization methods. These can be run in four separate modes, depending on plan complexity and desired results:

- Continuous Anneal
- Conformal Anneal
- Discrete Anneal
- Smooth Downhill Search

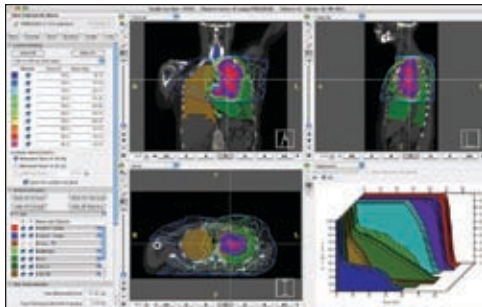
FAST IMRT Efficiency Slider allows you to choose the level of intensity modulation that you desire — from no modulation to complete modulation and anywhere in-between. You have ultimate control over segments and monitor units to meet your planning and delivery goals.



## DOSE PRESCRIPTION

Select tissue and structure types to meet planning goals. Prescription instructions are provided to guide your selections. Adjust prescription with the interactive CDVH display.

Prescription Instructions	
<b>Basic Target</b>	
<b>PURPOSE:</b>	The default target type. The physician sets the full range of the Target's CDVH to achieve the best overall dose distribution.
<b>SETTINGS:</b>	<ul style="list-style-type: none"> <li>Goal:        + 90% of Gross/Target Volume (GTV)</li> <li>Min Dose:   + 5% of Gross/Target Volume (GTV), whichever is lower</li> <li>Maximum:   + 95% of Gross/Target Volume (GTV), whichever is lower</li> <li>Minimum:   + 10% of Gross/Target Volume (GTV)</li> <li>TV:         + Relative to Target of the risk of deformed Structure and Target Homogeneity</li> </ul>
<b>NOTES:</b>	<ul style="list-style-type: none"> <li>If Target has priority, set Min Structure Dose to Target Min for Structures near Target.</li> <li>If using a Critical Structure, set Min Target Dose to Structure Max for Critical Structure.</li> </ul>



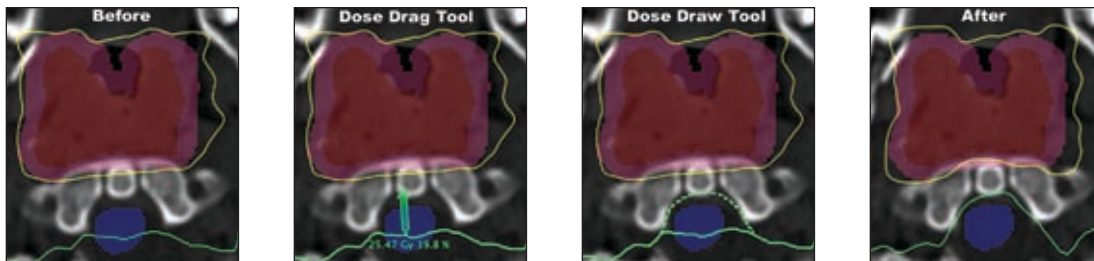
## PLAN EVALUATION

From the display results panel CORVUS gives you the tools and views to thoroughly evaluate your treatment plan. Display any of the following on any of the four panels or as one large view: axial, coronal and sagittal dose distributions, 3D dose wash surfaces, DRRs, dose profiles, prescribed doses, plan statistics, 2D and 3D DVHs, treatment view and the treatment delivery plan.

# FEATURES NOT FOUND ON ANY OTHER IMRT TREATMENT PLANNING SYSTEM

## ActiveRx SHOWS THE IMPLICATIONS OF DOSE ADJUSTMENTS IN MINUTES

When a physician asks for a change in the treatment plan using a variety of on-screen dose adjustment tools, ActiveRx immediately shows the implications of that change. Even for complex IMRT treatments, where thousands of beams are used, ActiveRx produces results in minutes. This allows clinicians to quickly understand the subtle interplays of competing goals and move directly to the point of best balance for their patients.



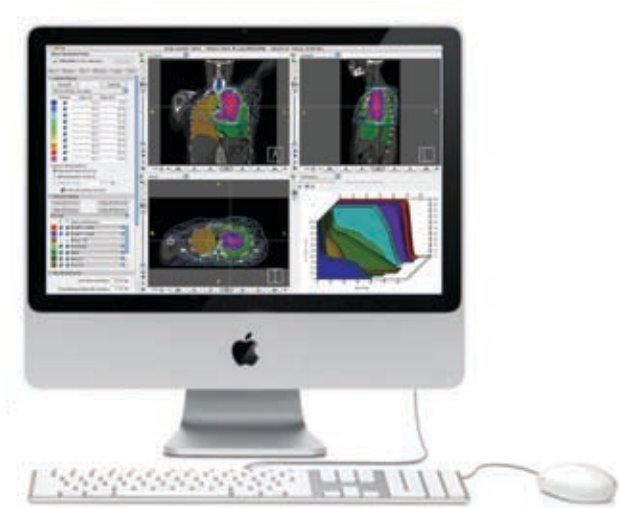
## PATIENT TREATMENT

CORVUS creates plans that can be delivered on virtually all OEM MLCs, both static and dynamic delivery, and provides the horsepower to plan for the highly conformal demands of serial tomotherapy delivery.

# THE CORVUS TREATMENT PLANNING SYSTEM

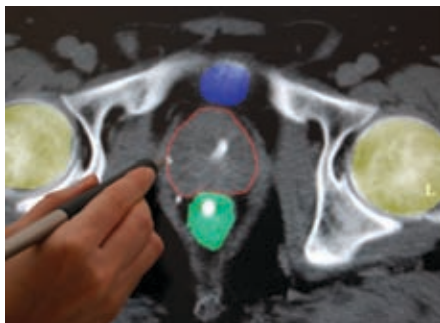
## THE POWERFUL CORVUS WORKSTATION

Treatment planning systems require operating systems and hardware that are well-suited for complex graphics and processing of scientific data. This is why CORVUS is deployed on the latest Apple® Macintosh® technology using OSX.



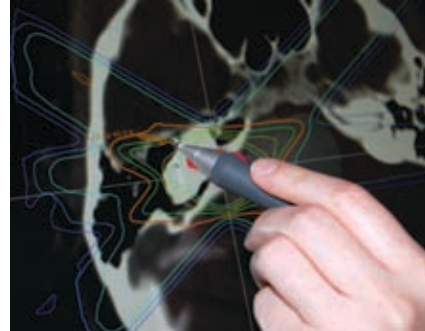
### Crisper DRR's with MIP

- Maximum Intensity Projection (MIP) options in DRR's highlight bony anatomy
- Focus on clinically important structures with user-controllable cut planes



### "Intuitive" Contouring

- Draw contours, navigate between slices and adjust window/level with the touch of a Multi-Functional Pen

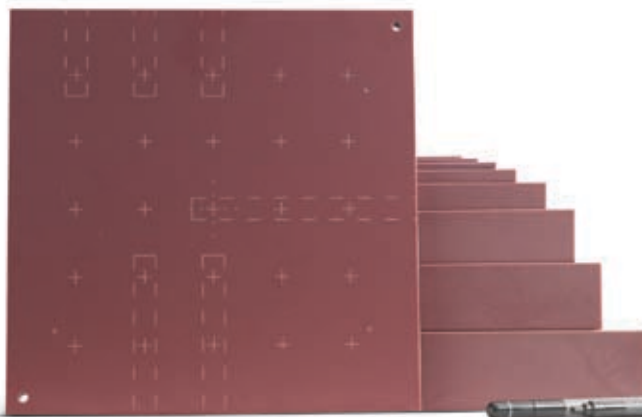


### "Sculpt" Your Dose with ActiveRx™

- Use the power of ActiveRx to draw and edit isodose lines
- Erase hot spots to improve plan homogeneity

## TREATMENT PLAN QUALITY ASSURANCE

CORVUS offers an IMRT Phantom and Phantom Plan capability to streamline your plan Quality Assurance process.



A 30 x 30 cm virtual water phantom with a 2 cm coronal phantom and one each of the following thickness slabs: 0.2, 0.3, 0.5, 1, 2, 4, 5, 6 cm.

Also provided with a 0.60 cc farmer type and 0.056 cc miniature ion chamber, both with ADCL calibration.

# OUR SERVICE IS AS TRUSTWORTHY AS OUR PRODUCTS

We are committed to providing the highest level of customer training and support to ensure your practice runs smoothly without disruption to patient throughput.

## SPECIALISTS ON CALL

Our specialists are on call Monday through Friday, 8 am to 5 pm EST. After-hours support is available via a paging system.

## OUR FIELD SERVICE ENGINEERS RESPOND QUICKLY

We are committed to responding promptly to your needs, and providing the highest level of customer support available.

## YOU ARE UP AND RUNNING FAST WITH ON-SITE APPLICATIONS SUPPORT

Our highly experienced team provides hands-on training so you are up and running quickly.

# DEDICATED TO PROVIDING TREATMENT OPTIONS

At Best® NOMOS®, everything we do is designed to provide targeted, accurate and effective treatment for patients who are fighting cancer. By making our advanced technology available and affordable, we are helping more oncologists and clinicians treat more patients at more locations than ever before.

Best® NOMOS® is a member of TeamBest™ – a family of Best® Medical companies.

From brachytherapy seeds and equipment, dosimetry kits, phantoms, treatment planning systems, an array of medical/health physics equipment, and product remanufacturing/servicing, to radioactive sources, gamma teletherapy machines, cyclotron systems, and particle therapy treatment, TeamBest™ has it all!

Check out each company's site at [www.teambest.com](http://www.teambest.com)

**Best**® **nomos**®

1 Best Drive Pittsburgh, PA 15202 USA

Tel: 412 312 6700 800 70 NOMOS

Fax: 412 312 6701 [www.nomos.com](http://www.nomos.com)

**Best**® **medical international**

7643 Fullerton Road Springfield, VA 22153 USA

Tel: 703 451 2378 800 336 4970

Fax: 703 451 5228 [www.teambest.com](http://www.teambest.com)

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