

DYNART/ERGO++

A dynamic solution.

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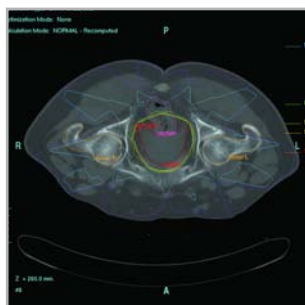
Ergo++ is a highly dedicated Treatment Planning System enabling one to perform the kinds of treatments that one's patients require.

- From Classic Conformal to Dynamic Conformal RT
- From Stereotactic Radiation Therapy to Stereotactic Radio Surgery
- From Conventional IMRT to Dynamic Arc Modulation IMRT

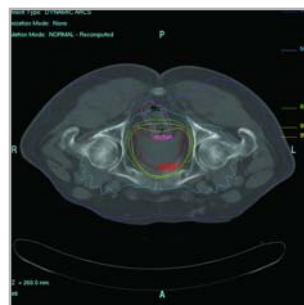
The most dedicated IMRT technique 3D Line Medical Systems currently offers is Dynamic Arc Modulation, performed by the AMOA module (Arc Modulation Optimization Algorithm). By combining Intensity Modulated field/arcs with conformal beams/ars in one plan ERGO++ even allows the benefits of these different techniques to be combined: Superior PTV coverage (no loss in homogeneity) with optimized sparing of healthy tissue and organs at risk. Since years ERGO++ is the only commercial TPS offering this powerful technique! Despite it's range of possibilities, ERGO++ is designed in a very user-friendly way. Its appli-

cation is easy and intuitive. It enables one to perform highly conformal and complex plans in a split second. The maximum possible dose is delivered to target volume avoiding critical structures and minimizing the side effects in the surrounding healthy tissue. ERGO++ Treatment Planning is a valuable and reliable tool for Radiotherapists as well as for Physicists and Dosimetrists. In combination with our multi-processor workstations ERGO++ enables one to perform multiple activities simultaneously, either fully automatically or computer-assisted. Thereby ERGO++ avoids dead-time and increases the

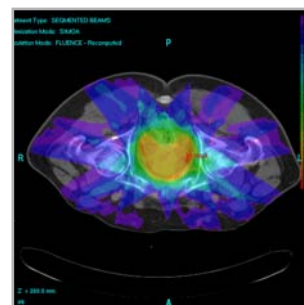
efficiency and the time optimization of the Radiation Oncology Department. Due to the modular design ERGO++ can be configured exactly to each department's requirements. The graph on the following page shows some of the major components and alternatives. Since ERGO++ has always been fully compatible with DICOM RT, it integrates easily into each department's environment - no matter which diagnostic machines, Linacs and R&V system one is using. ERGO++ is the dynamic resource made to meet everyone's requirements.



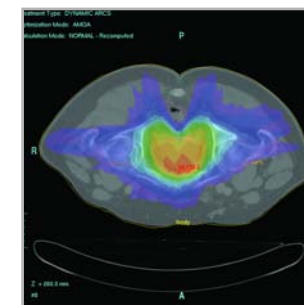
STATIC CONFORMAL



DYNAMIC CONFORMAL ARC



STEP & SHOOT



DYNAMIC ARC MODULATION

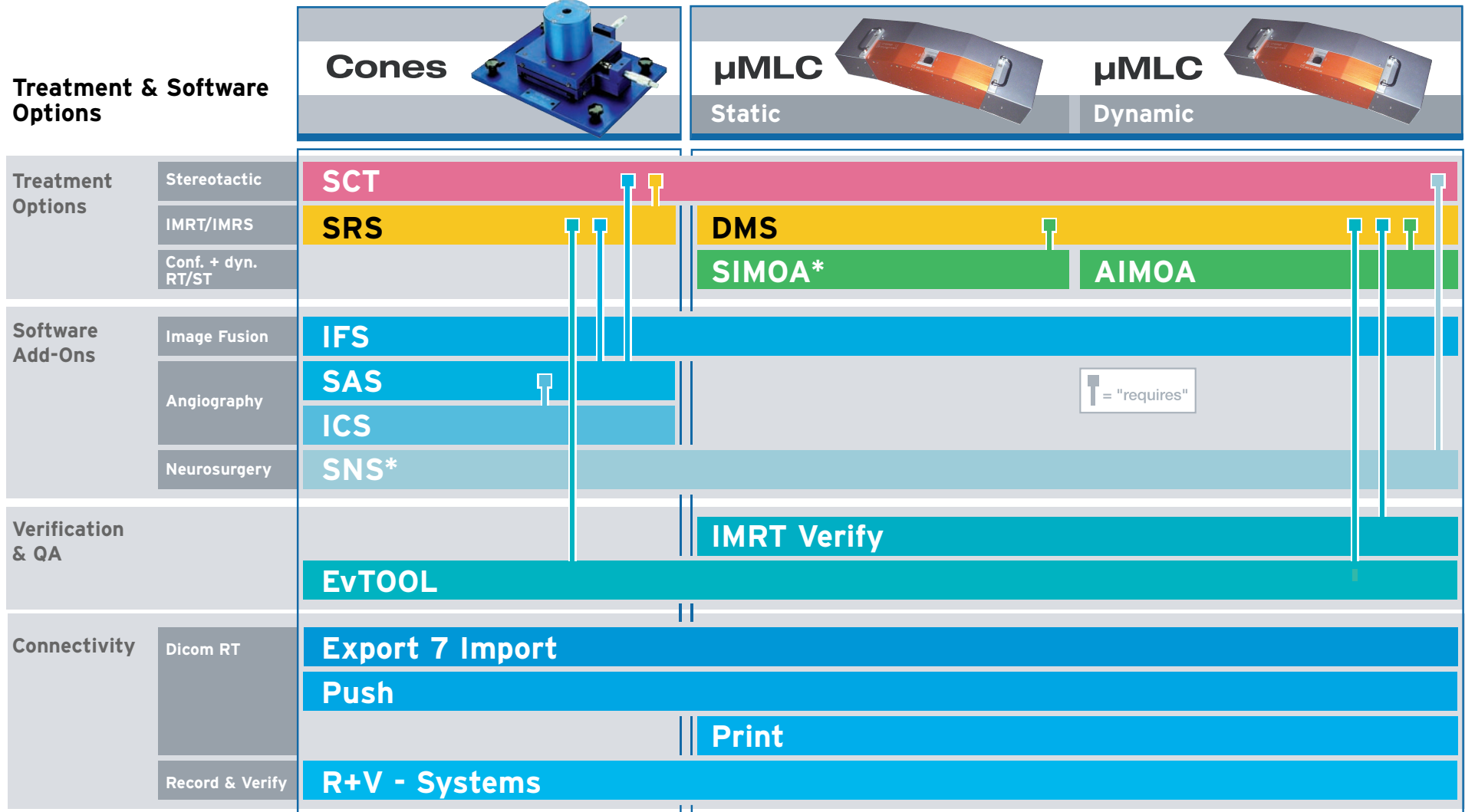
Above you can see some sample plans of the same patient, created with some of the ERGO++ techniques. On the right side a radiobiological comparison of these plans is displayed, performed by the unique EvTOOL module.



RADIOBIOLOGICAL PLAN COMPARISON

Some of ERGO++
Main options are
described here.

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* Not yet available in the US