RAPIDPLAN KNOWLEDGE-BASED PLANNING
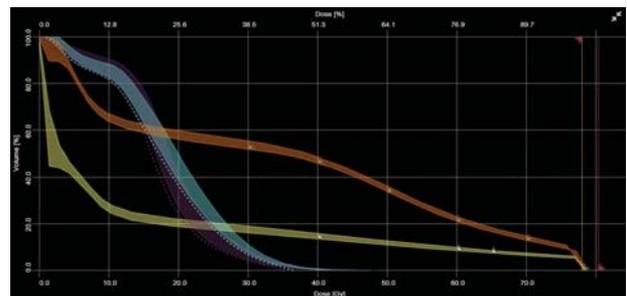## Increase Quality. Reduce Repetition.

RapidPlan™ knowledge-based planning opens the door to the next generation of individualized treatment planning by giving clinicians the confidence to treat a wide range of cancer types using knowledge-based planning.

Creating a comprehensive treatment plan can be complicated as well as time consuming. Inconsistencies between plans can arise when clinicians manually create versions of different treatment types. By providing access to pre-configured plan models, RapidPlan can allow clinics to reduce variability in treatment planning to achieve greater consistency, efficiency and quality in patient care.

RapidPlan is designed to enable clinicians to streamline the planning process by using shared clinical knowledge embedded in the supplied plan models. Additionally, clinics may create RapidPlan models to reflect preferred treatment methodologies and protocols.

RapidPlan provides estimated dose volume histograms (DVHs) that may be used as a guideline and starting point for intensity-modulated radiation therapy (IMRT) and volumetric modulated arc therapy (VMAT). RapidPlan uses the dose and patient anatomy information from existing plans to estimate the dose distribution in new patients based on their contoured anatomy.

Moving beyond treatment plan templates, RapidPlan models are powerful dynamic tools that adapt and evolve to meet the unique planning needs of each individual clinic. This can allow for standardization of treatment plans and the planning process. By limiting variability and potentially reducing planning time, RapidPlan can bring about consistency in the standard of care while providing truly individualized patient care.

Using a knowledge base of prior treatment plans, RapidPlan may improve efficiency. The DVH chart above displays an estimated dose spread (shaded colors) for a prostate case.

Key features

- Pre-loaded models from leading academic institutions
- Provides users with the ability to create new models from existing use cases

Key benefits[1]

- Improve consistency
- Decrease planning time
- Standardize clinical, network and operational processes
- Minimize training time of new staff
- Expand current IMRT and VMAT opportunities with minimal impact on current staffing levels

[1]External peer reviewed reference articles on file

RapidPlan knowledge-based planning and its models are not intended to replace clinical decisions, provide medical advice or endorse any particular radiation plan or treatment procedure. The patient's medical professionals are solely responsible for and must rely on their professional clinical judgment when deciding how to plan and provide radiation therapy.

Intended Use Summary

Varian Medical Systems' linear accelerators are intended to provide stereotactic radiosurgery and precision radiotherapy for lesions, tumors, and conditions anywhere in the body where radiation treatment is indicated.

Safety

Radiation treatments may cause side effects that can vary depending on the part of the body being treated. The most frequent ones are typically temporary and may include, but are not limited to, irritation to the respiratory, digestive, urinary or reproductive systems, fatigue, nausea, skin irritation, and hair loss. In some patients, they can be severe. Treatment sessions may vary in complexity and time. Radiation treatment is not appropriate for all cancers.

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