

## RapidPlan Knowledge-Based Planning Bibliography\*

### Head & Neck

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Chang AT, Hung AW, Cheung FW, Lee MC, Chan OS, Philips H, Cheng YT, Ng WT. [Comparison of Planning Quality and Efficiency Between Conventional and Knowledge-based Algorithms in Nasopharyngeal Cancer Patients Using Intensity Modulated Radiation Therapy.](#) *Int J Radiat Oncol Biol Phys.* 2016 Jul 1;95(3):981-90. Pamela Youde Nethersole Eastern Hospital, Hong Kong

Delaney AR, Tol JP, Dahele M, Cuijpers J, Slotman BJ, Verbakel WF. [Effect of Dosimetric Outliers on the Performance of a Commercial Knowledge-Based Planning Solution.](#) *Int J Radiat Oncol Biol Phys.* 2016 Mar 1;94(3):469-77. VU University Medical Center, Amsterdam

Tol JP, Dahele M, Delaney AR, Slotman BJ, Verbakel WF. [Can knowledge-based DVH predictions be used for automated, individualized quality assurance of radiotherapy treatment plans?](#) *Radiat Oncol.* 2015 Nov 19;10(1):234 VU University Medical Center, Amsterdam, The Netherlands

Fogliata A, Nicolini G, Clivio A, Vanetti E, Laksar S, Tozzi A, Scorsetti M, Cozzi L. [A broad scope knowledge based model for optimization of VMAT in esophageal cancer: validation and assessment of plan quality among different treatment centers.](#) *Radiat Oncol.* 2015 Oct 31;10(1):220. Oncology Institute of Southern Switzerland, Bellinzona, Switzerland

Tol JP, Delaney AR, Dahele M, Slotman BJ, Verbakel WF. [Evaluation of a knowledge-based planning solution for head and neck cancer.](#) *Int J Radiat Oncol Biol Phys.* 2015 Mar 1;91(3):612-20. VU University Medical Center, Amsterdam, The Netherlands

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Fogliata A, Belosi F, Clivio A, Navarria P, Nicolini G, Scorsetti M, Vanetti E, Cozzi L. [On the pre-clinical validation of a commercial model-based optimisation engine: application to volumetric modulated arc therapy for patients with lung or prostate cancer.](#) *Radiother Oncol.* 2014 Dec;113(3):385-91. Oncology Institute of Southern Switzerland, Bellinzona, Switzerland

### Breast

Fogliata A, Nicolini G, Bourcier C, Clivio A, De Rose F, Fenoglietto P, Lobefalo F, Mancosu P, Tomatis S, Vanetti E, Scorsetti M, Cozzi L. [Performance of a Knowledge-Based Model for Optimization of Volumetric Modulated Arc Therapy Plans for Single and Bilateral Breast Irradiation.](#) *PLoS One.* 2015 Dec 21;10(12):e0145137 Oncology Institute of Southern Switzerland Bellinzona, Switzerland

### Gastrointestinal

Wu H, Jiang F, Yue H, Zhang H, Wang K, Zhang Y. [Applying a RapidPlan model trained on a technique and orientation to another: a feasibility and dosimetric evaluation.](#) *Radiat Oncol.* 2016 Aug 18;11(1):108. Peking University Cancer Hospital & Institute, Beijing, China

Fogliata A, Wang PM, Belosi F, Clivio A, Nicolini G, Vanetti E, Cozzi L. [Assessment of a model based optimization engine for volumetric modulated arc therapy for patients with advanced hepatocellular cancer.](#) *Radiat Oncol.* 2014 Oct 28;9:236. Oncology Institute of Southern Switzerland, Bellinzona, Switzerland

\* This bibliography is a representative selection, but not necessarily exhaustive list, of literature pertaining to Varian's RapidPlan™ knowledge-based planning (KBP) in particular, with additional general KBP articles foundational to RapidPlan in the General & Foundational section.

## Genitourinary

Hussein M, South CP, Barry MA, Adams EJ, Jordan TJ, Stewart AJ, Nisbet A. [Clinical validation and benchmarking of knowledge-based IMRT and VMAT treatment planning in pelvic anatomy](#). *Radiother Oncol*. 2016 Jul 14. Royal Surrey County Hospital NHS Foundation Trust, Guildford, UK [Epub ahead of print]

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## General & Foundational

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Chanyavanich V, Das SK, Lee WR, Lo JY. [Knowledge-based IMRT treatment planning for prostate cancer](#). *Med Phys*. 2011 May;38(5):2515-22. Duke University Medical Center, Durham, NC



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