

# Patient-Specific Monte Carlo Dose Calculations for High Brachytherapy With Shielded Intracavitary Applicator

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The evolution of brachytherapy treatment planning. <i>Medical Physics</i> , 2009, 36, 2136-2153.	1.6	157
2	A CT-based analytical dose calculation method for HDR brachytherapy. <i>Medical Physics</i> , 2009, 36, 3982-3994.	1.6	21
3	Development of a scatter correction technique and its application to HDR I192r multicatheter breast brachytherapy. <i>Medical Physics</i> , 2009, 36, 3703-3713.	1.6	26
4	Dosimetric accuracy of a deterministic radiation transport based brachytherapy treatment planning system. Part I: Single sources and bounded homogeneous geometries. <i>Medical Physics</i> , 2010, 37, 649-661.	1.6	58
5	Sensitivity of low energy brachytherapy Monte Carlo dose calculations to uncertainties in human tissue composition. <i>Medical Physics</i> , 2010, 37, 5188-5198.	1.6	77
6	Applications of tissue heterogeneity corrections and biologically effective dose volume histograms in assessing the doses for accelerated partial breast irradiation using an electronic brachytherapy source. <i>Physics in Medicine and Biology</i> , 2010, 55, 5283-5297.	1.6	7
7	Enhancements to commissioning techniques and quality assurance of brachytherapy treatment 2645-2658.	1.6	55
8	Patient-Specific Monte Carlo-Based Dose-Kernel Approach for Inverse Planning in Afterloading Brachytherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 81, 1582-1589.	0.4	7
9	Dose assessment for brachytherapy with Henschke applicator. <i>Radiation Measurements</i> , 2011, 46, 2028-2030.	0.7	2
10	Report of the Task Group 186 on model-based dose calculation methods in brachytherapy beyond the TG43 formalism: Current status and recommendations for clinical implementation. <i>Medical Physics</i> , 2012, 39, 6208-6236.	1.6	391
11	Impact of Heterogeneity-Based Dose Calculation Using a Deterministic Grid-Based Boltzmann Equation Solver for Intracavitary Brachytherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 83, e417-e422.	0.4	33
12	The dosimetric impact of heterogeneity corrections in high-dose-rate 192Ir brachytherapy for cervical cancer: Investigation of both conventional Point-A and volume-optimized plans. <i>Brachytherapy</i> , 2012, 11, 515-520.	0.2	23
13	Dynamic modulated brachytherapy (DMBT) for rectal cancer. <i>Medical Physics</i> , 2013, 40, 011718.	1.6	42
14	HDR brachytherapy of rectal cancer using a novel grooved shielding applicator design. <i>Medical Physics</i> , 2013, 40, 091704.	1.6	23
15	HDRMC, an accelerated Monte Carlo dose calculator for high dose rate brachytherapy with CT-compatible applicators. <i>Medical Physics</i> , 2014, 41, 051712.	1.6	10
16	Review of clinical brachytherapy uncertainties: Analysis guidelines of GEC-ESTRO and the AAPM. <i>Radiotherapy and Oncology</i> , 2014, 110, 199-212.	0.3	243
17	BrachyGuide: a brachytherapy-dedicated DICOM RT viewer and interface to Monte Carlo simulation software. <i>Journal of Applied Clinical Medical Physics</i> , 2015, 16, 208-218.	0.8	20
18	Validation of the Oncentra Brachy Advanced Collapsed cone Engine for a commercial 192Ir source using heterogeneous geometries. <i>Brachytherapy</i> , 2015, 14, 939-952.	0.2	43

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19	The collapsed cone algorithm for $^{192}\text{Ir}$ dosimetry using phantom-size adaptive multiple-scatter point kernels. <i>Physics in Medicine and Biology</i> , 2015, 60, 5313-5323.	1.6	10
20	Guidelines by the AAPM and GEC/ESTRO on the use of innovative brachytherapy devices and applications: Report of Task Group 167. <i>Medical Physics</i> , 2016, 43, 3178-3205.	1.6	50
21	Endorectal Brachytherapy Boost After External Beam Radiation Therapy in Elderly or Medically Inoperable Patients With Rectal Cancer: Primary Outcomes of the Phase 1 HERBERT Study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 98, 908-917.	0.4	59
22	CT-based MCNPX dose calculations for gynecology brachytherapy employing a Henschke applicator. <i>Radiation Physics and Chemistry</i> , 2017, 140, 392-397.	1.4	2
23	The influence of tissue composition uncertainty on dose distributions in brachytherapy. <i>Radiotherapy and Oncology</i> , 2018, 126, 394-410.	0.3	16
24	RapidBrachyMCTPS: a Monte Carlo-based treatment planning system for brachytherapy applications. <i>Physics in Medicine and Biology</i> , 2018, 63, 175007.	1.6	26
25	Systematic Review of Intensity-Modulated Brachytherapy (IMBT): Static and Dynamic Techniques. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 105, 206-221.	0.4	23
26	Image Guided Adaptive Endorectal Brachytherapy in the Nonoperative Management of Patients With Rectal Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 105, 1005-1011.	0.4	33
27	Brachytherapy Future Directions. <i>Seminars in Radiation Oncology</i> , 2020, 30, 94-106.	1.0	27
28	Personalized brachytherapy dose reconstruction using deep learning. <i>Computers in Biology and Medicine</i> , 2021, 136, 104755.	3.9	27
29	Modern Principles of Brachytherapy Physics. , 2010, , 224-244.		3
30	The Physics of Brachytherapy. <i>Medical Radiology</i> , 2016, , 13-27.	0.0	3
31	Accuracy of Acuros <sup>TM</sup> BV as determined from GATE monte-carlo simulation. <i>Physical and Engineering Sciences in Medicine</i> , 0, , .	1.3	0