

Klinikiniai spindulinio gydymo planavimo aspektai

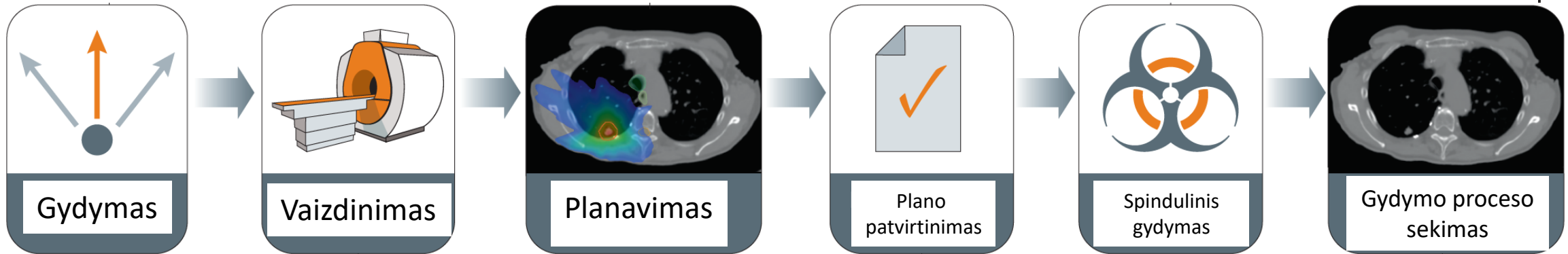
Medicinos fizikos ekspertė radioterapijoje

Doc. dr. Jurgita Laurikaitienė



Spindulinio gydymo procesas

ktu



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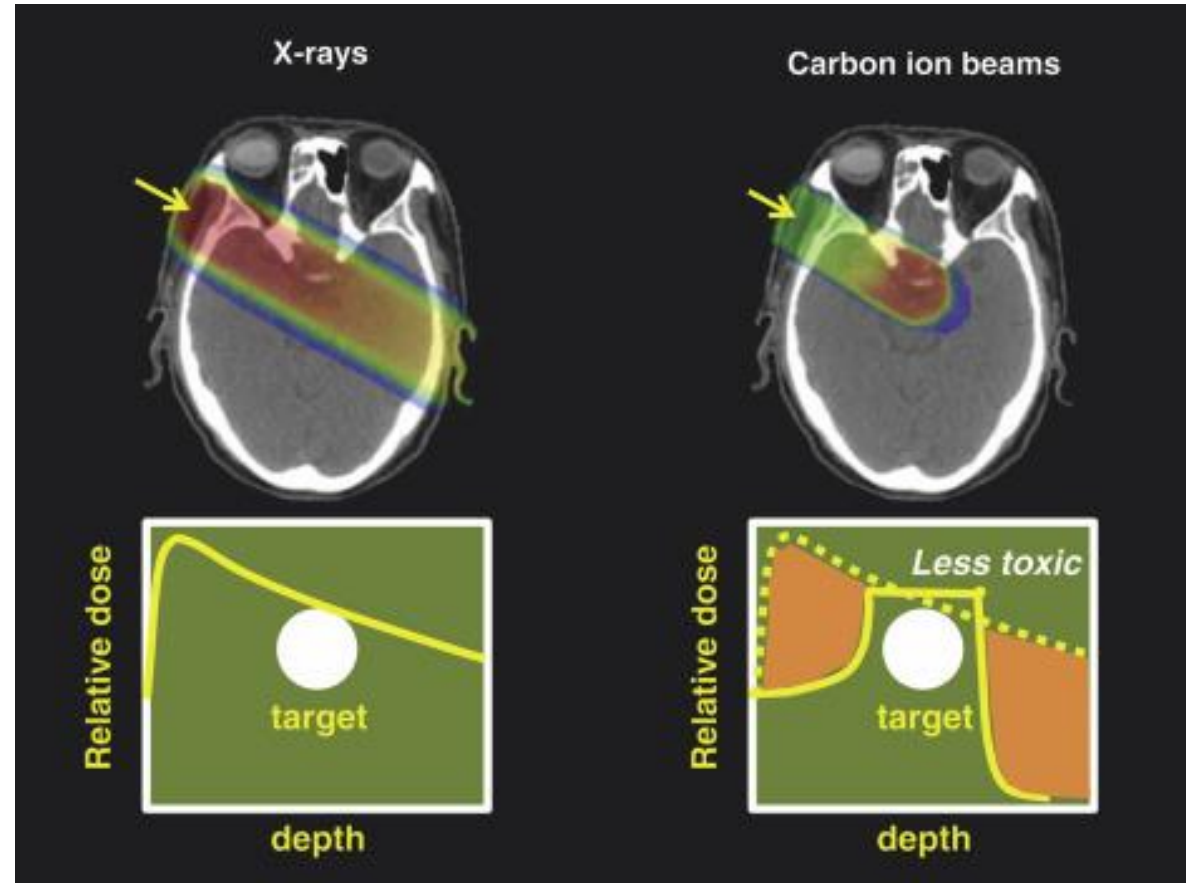
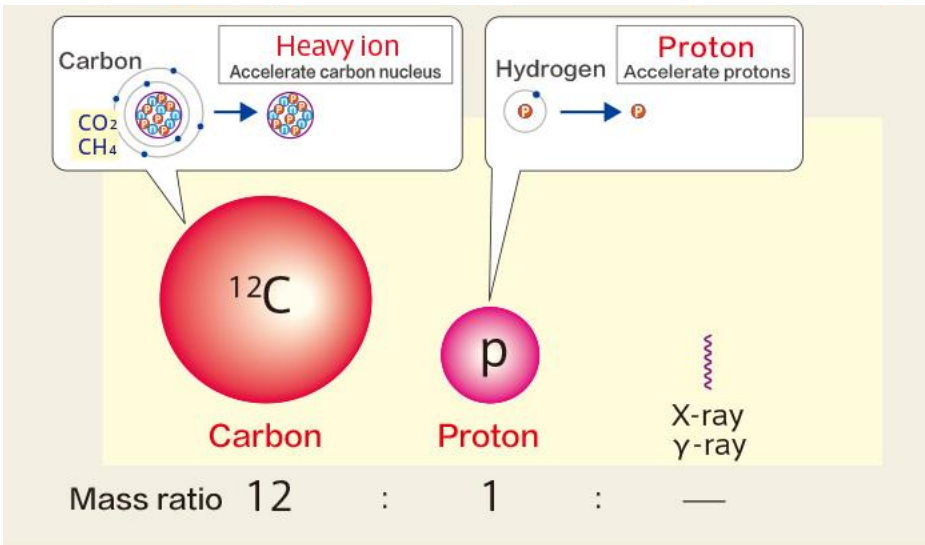
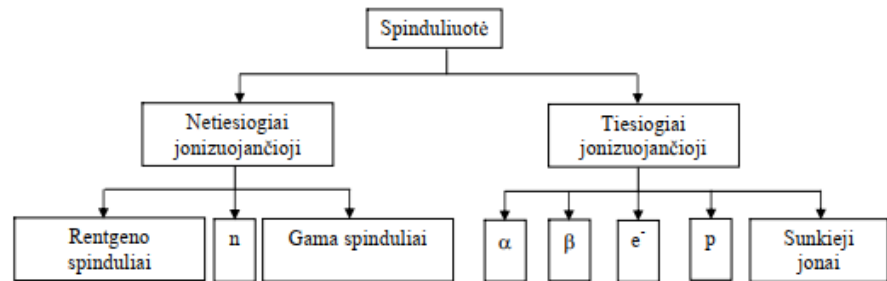
Pacientas



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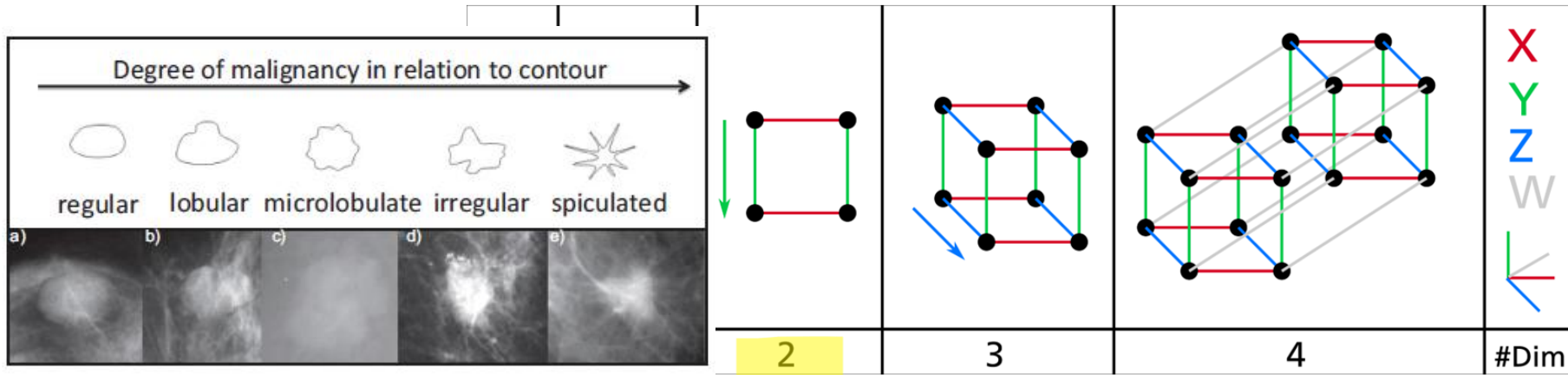
Spinduliniam gydymui naudojama įranga/ spinduliuotė

Spindulinio gydymo planavimas | Spinduliuotė

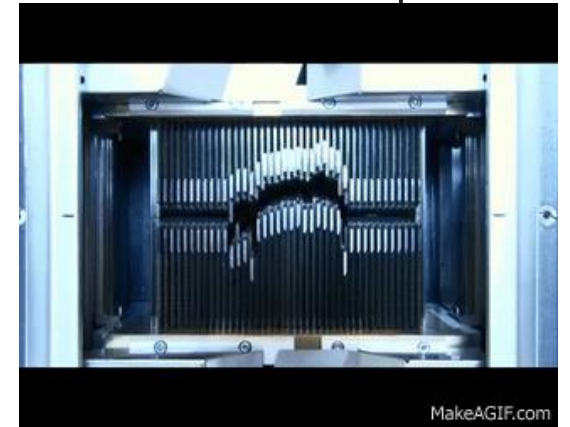


H. Suit, T. DeLaney, S. Goldberg, H. Paganetti, B. Clisie, L. Gerweck, A. Niemierko, E. Hall, J. Flanz, J. Hallman, and A. Trofimov, "Proton vs carbon ion beams in the definitive radiation treatment of cancer patients," *Radiother. Oncol.* 95, 3–22 (2010).

Spindulinio gydymo planavimas | Planavimo metodų evoliucija



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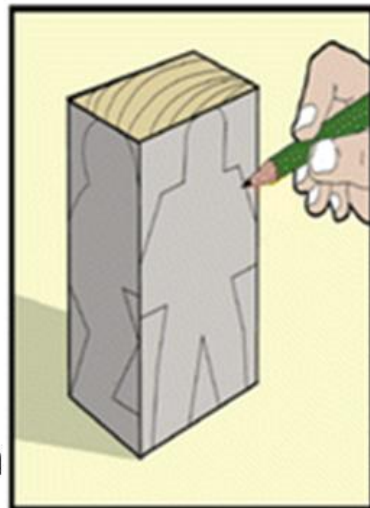


MakeAGIF.com

2D standartinis/
(angl. Conventional)



2D Rentgeno nuotrauka

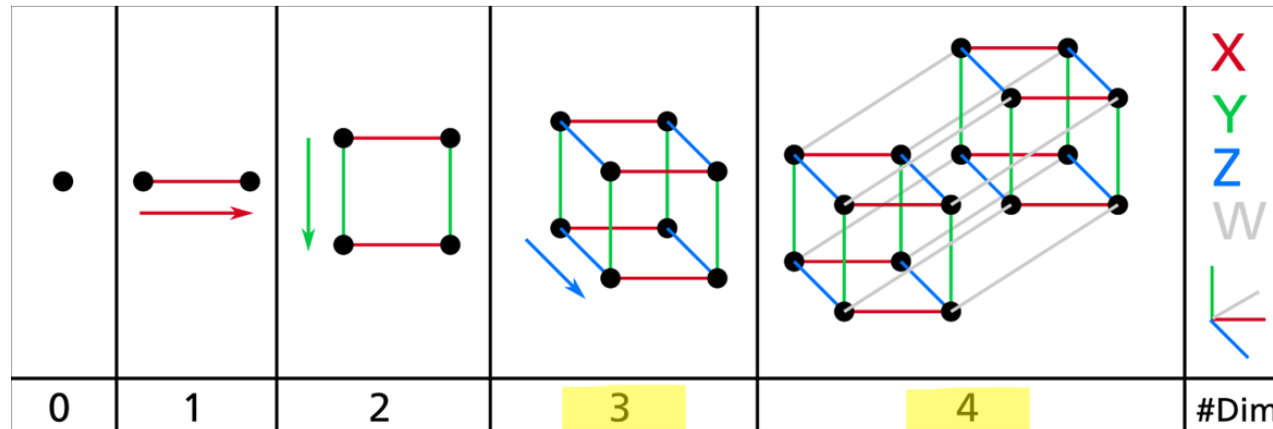


2D konforminis/
(angl. 2D Conformal)



2D Rentgeno nuotrauka

Spindulinio gydymo realizavimo metodų / planavimo metodų evoliucija



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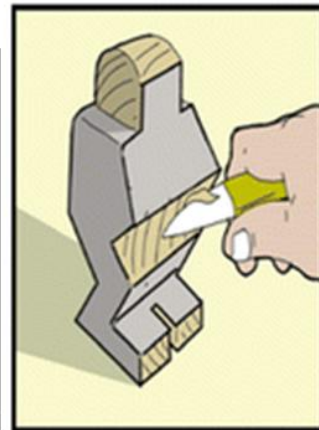
3D konforminis /
(angl. 3D Conformal)



3D Kūginė KT

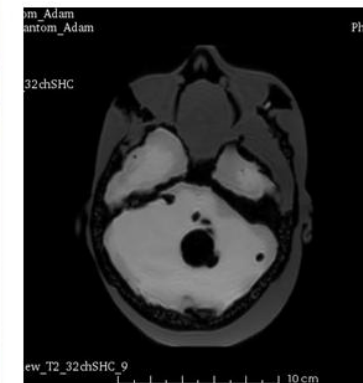


3D/ 4D KT

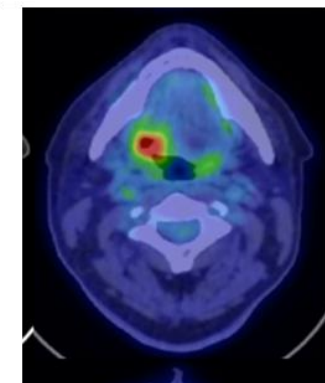


Autorius: John Schreiner 2006

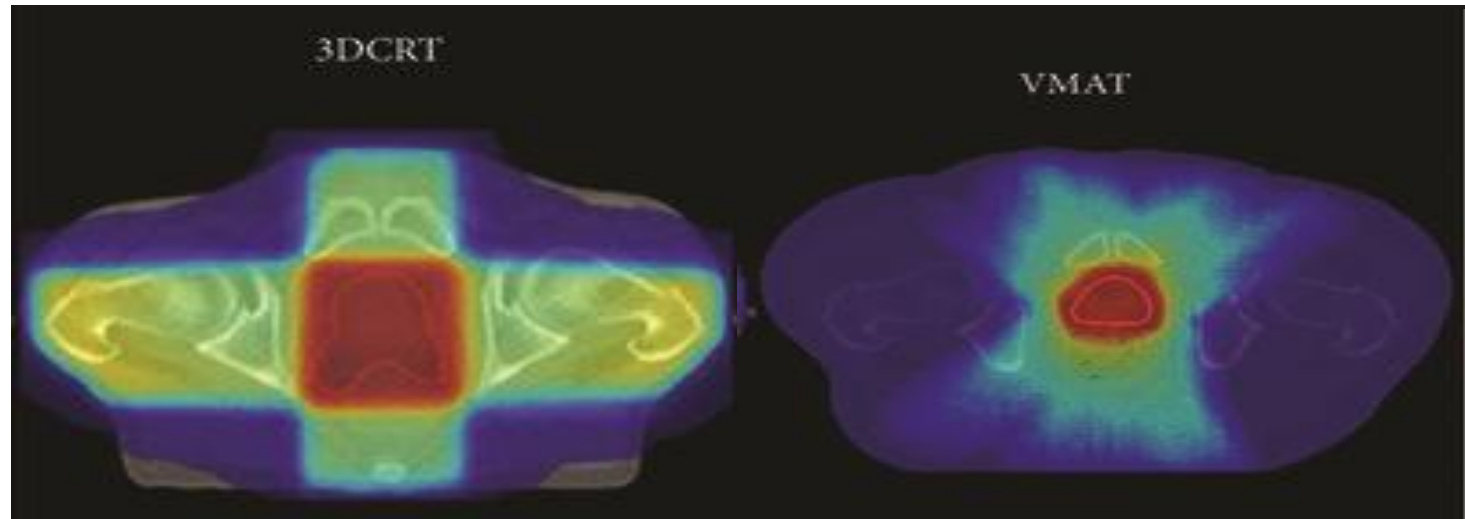
IMRT / VMAT



3D/ 4D MRT

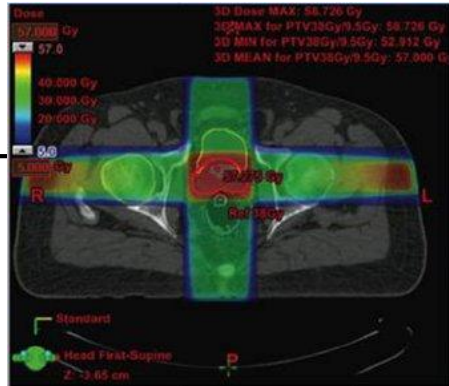


3D/ 4D PET/KT

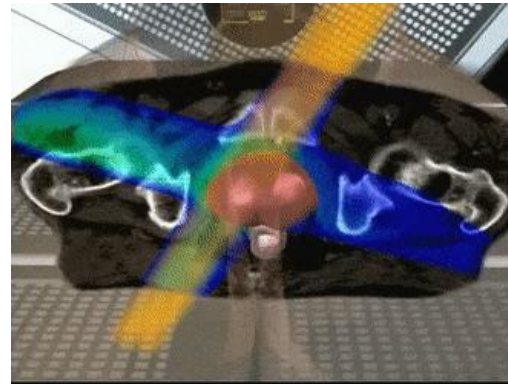
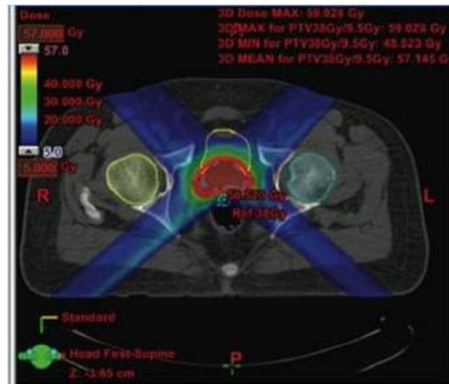


	3DCRT	IMRT/ VMAT
Dozės skaičiavimas		
Laukų geometrija		
Dominanti sritis		
Apšvitos srauto pasiskirstymas		
Dozės pasiskirstymas		
Monitoriniai vienetai		

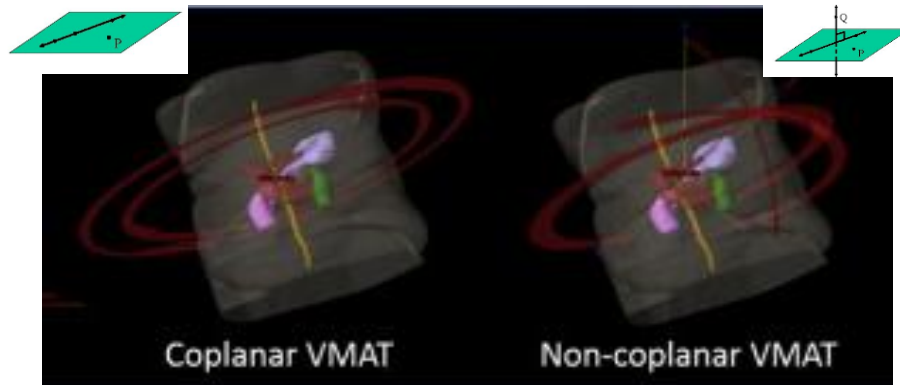
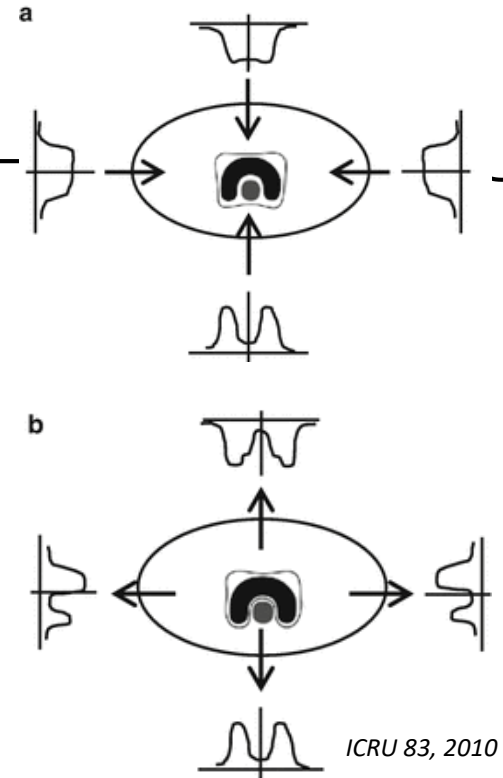
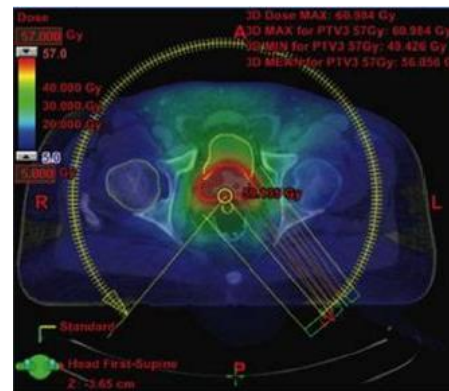
3D CRT



IMRT

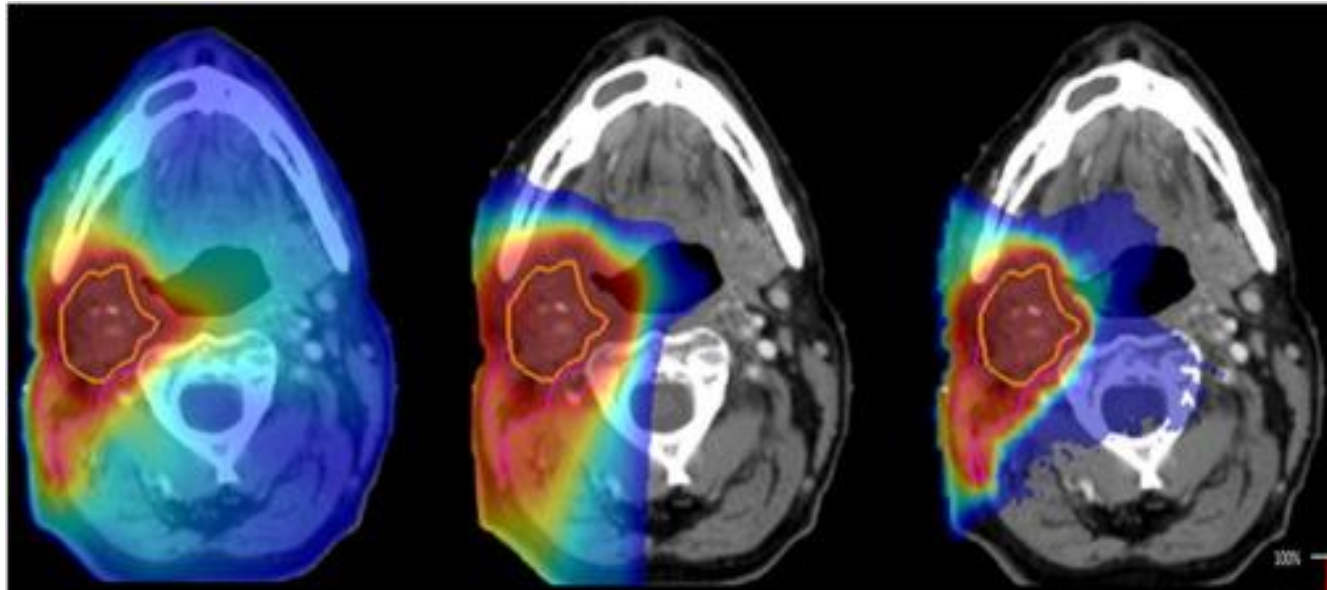


VMAT



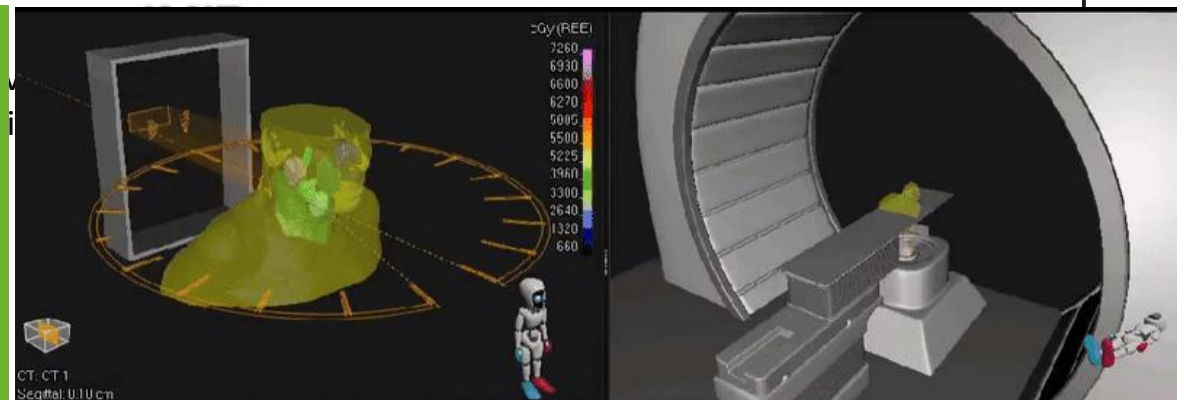
Spindulinio gydymo technologijos

ktu

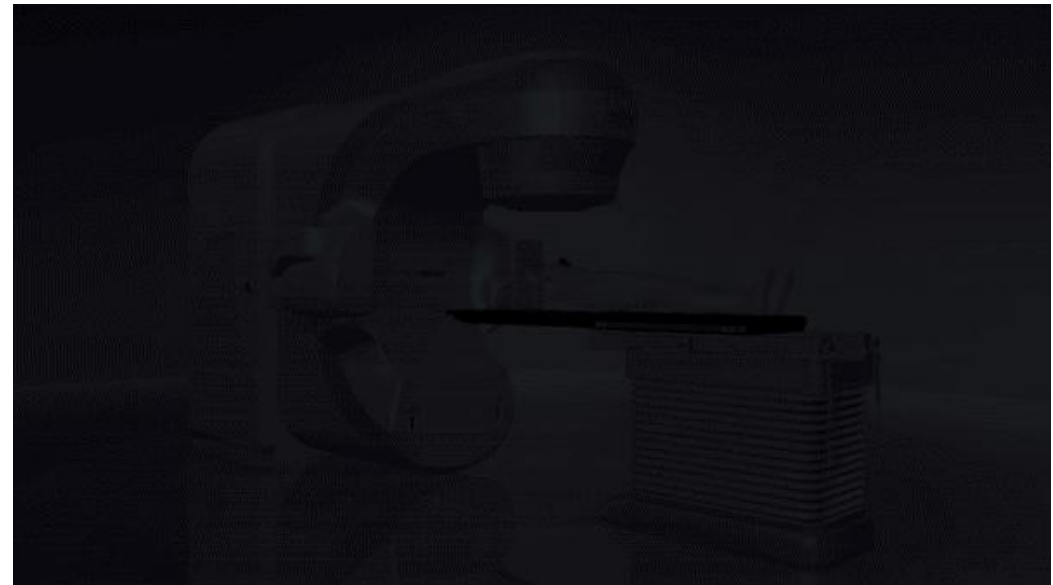
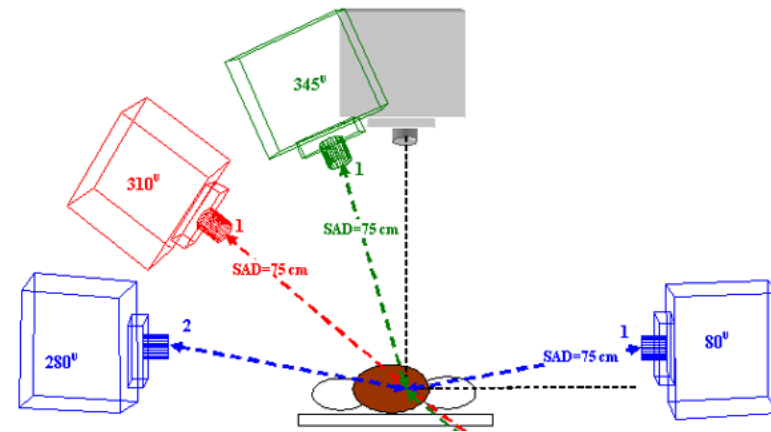
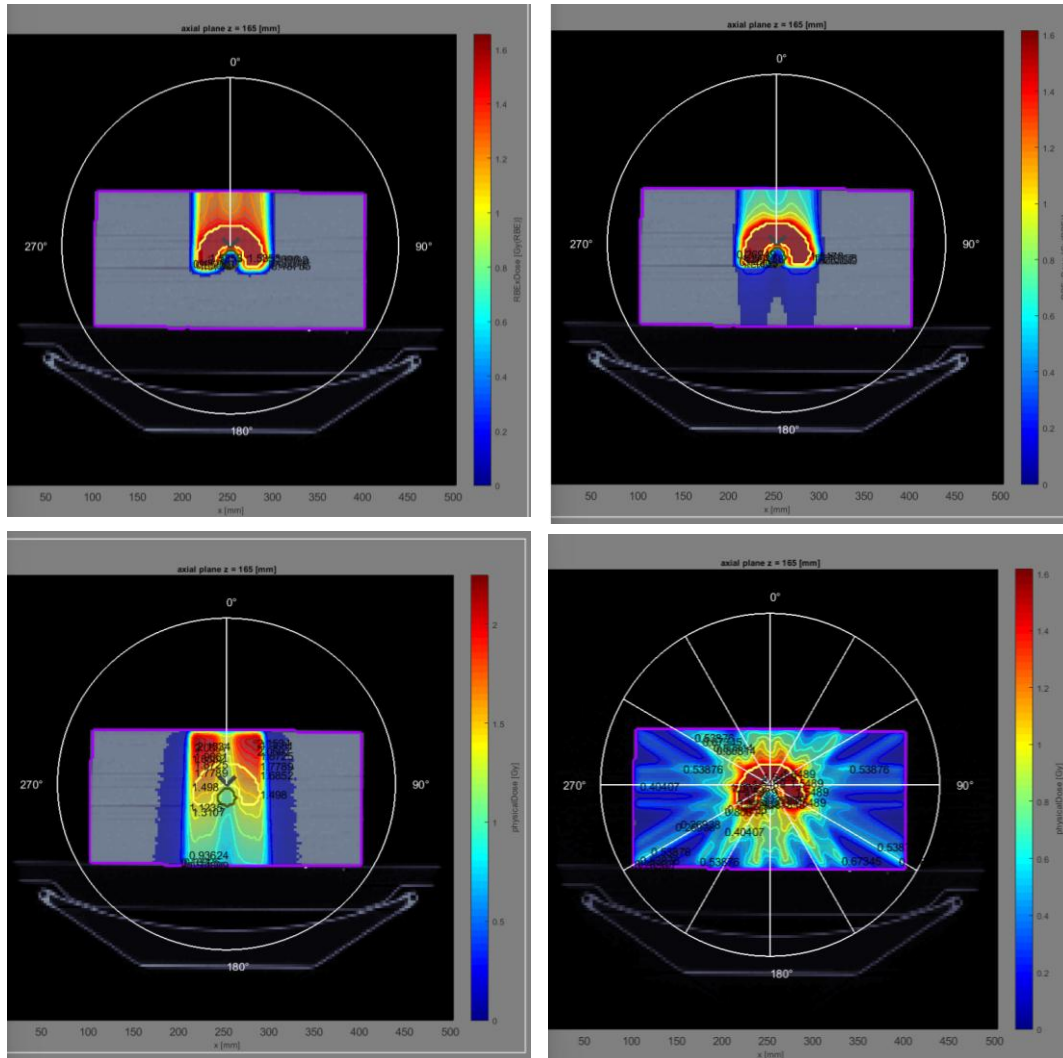


VMAT

Spindulinio gydymo planai galvos ir k...
(protonais) ir



Spindulinio gydymo planavimas | Apšvitos laukų geometrija



Dirbtinis intelektas spinduliniame gydyme

