

B_rachy RAD_iation -FIT

Intensity-Modulated
Brachytherapy (IMBT) System

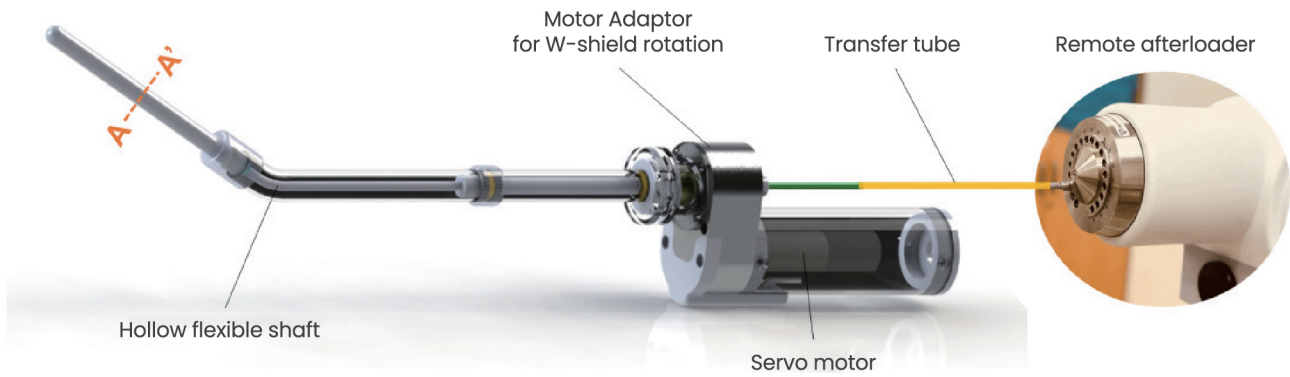


Intensity-Modulated Brachytherapy (IMBT) System



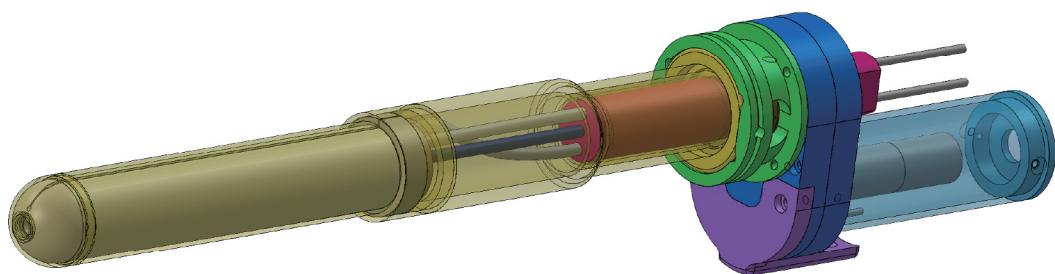
IMBT Applicators

| For cervical & endometrial cancers



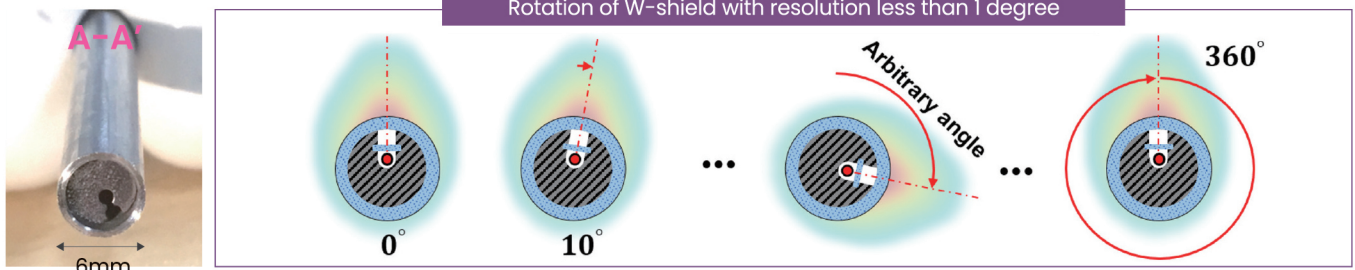
» Tandem applicator

| For breast & vaginal cancers

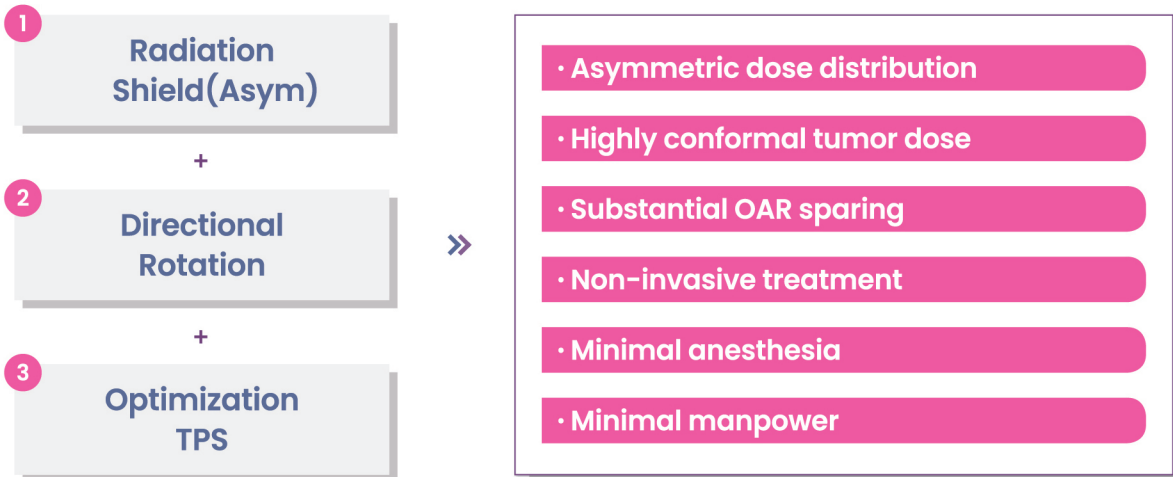


» Cylindrical applicator

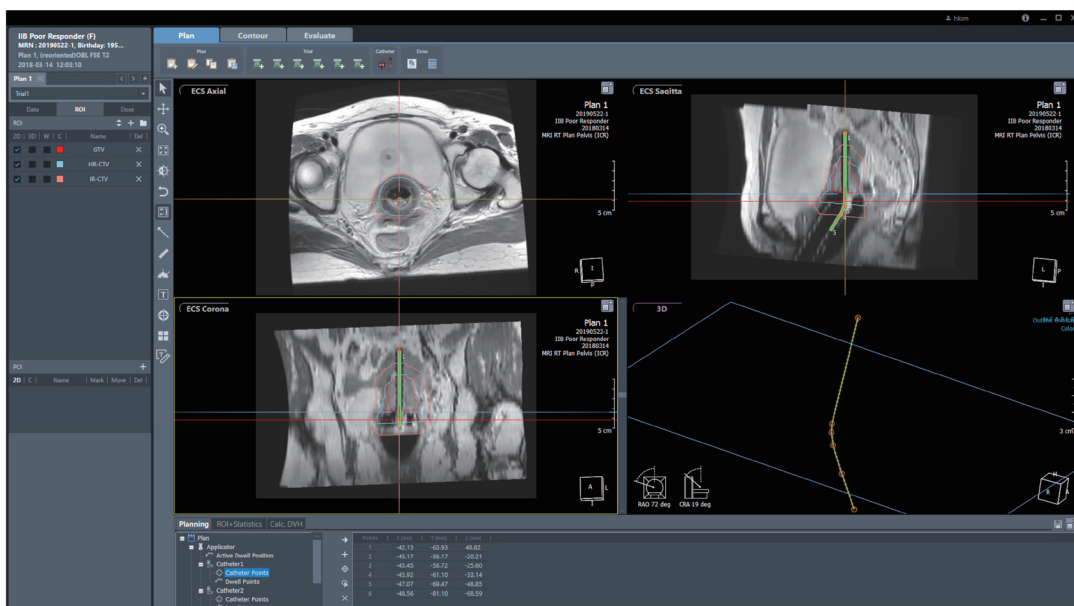
Working Principle



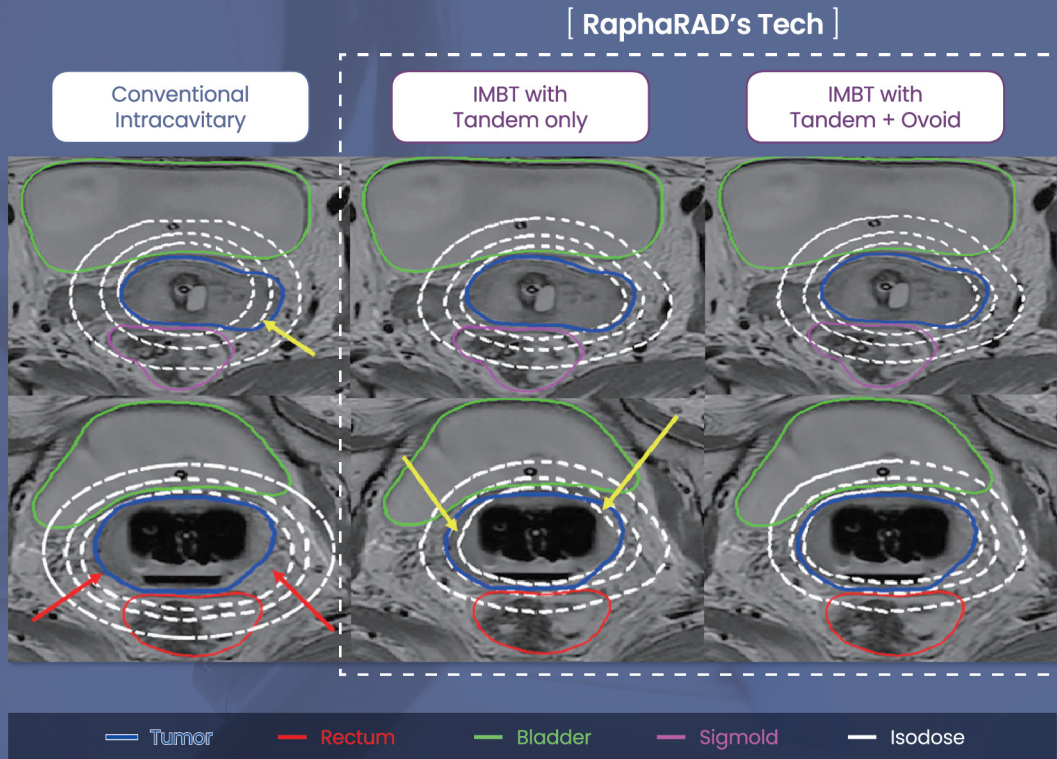
Features of IMBT Applicators





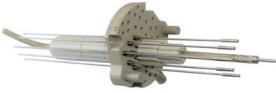
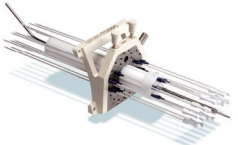
Treatment Planning System



Comparison of Dose Distributions



Comparison with Other Applicators

Comparison	RaphaRAD		Elekta		Varian		E&Z Bebig	
Product								
① Dose distribution	Asymmetric	○	Asymmetric	○	Asymmetric	○	Asymmetric	○
② Invasiveness	Non-invasive	○	Invasive	×	Invasive	×	Invasive	×
③ TR accuracy	Accurate	○	Skill-dependent	△	Skill-dependent	△	Skill-dependent	△
④ Radiation risk	Low	○	Skill-dependent	△	Skill-dependent	△	Skill-dependent	△
⑤ TR prepar.	Short	○	Long	×	Long	×	Long	×
⑥ Manpower	Minimal	○	Much more	×	Much more	×	Much more	×

Patents

- > Apparatus for body-inserting having controllable radiation direction (2016) [Korea, Japan, Europe, China, USA](#)
- > Apparatus for body-inserting having controllable radiation direction and shape of radiation (2017) [Korea, Japan, Europe, China, USA](#)
- > Device, method and program for providing the plan of brachytherapy, and brachytherapy apparatus (2018) [USA, China](#)