

Materials List for:

Proton Therapy Delivery and Its Clinical Application in Select Solid Tumor Malignancies

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URL: <https://www.jove.com/video/58372>

DOI: [doi:10.3791/58372](https://doi.org/10.3791/58372)

Materials

Name	Company	Catalog Number	Comments
Proton beam cyclotron and gantry delivery system	Varian	N/A	Allows for generation and delivery of protons for radiotherapy
kVUE One Proton Couch Top	Qfix	RT-4551KV-03	Permits patient placement for radiotherapy
CT simulator with 4D scanning capability	GE	N/A	Permits CT simulation for radiation planning
100" x 70" Qfix VacQfix Cushion	Qfix	RT-4517-10070F30	Immobilizes patient for more precise radiation delivery
Timo Foam Head Support	Qfix	RT-4490-F	Ensures minimization of head motion during radiotherapy
3 CT Localizers Localization Markers	Beekley Medical	REF 211	Ensures concordance of external markers and internal patient anatomy from CT simulation
VacQfix Indexer	Qfix	RT-4517-IND01	Ensures VacQfix cushion placement is reproducible for every radiation treatment
Radiation treatment planning software	Raystation	N/A	Allows for personalized radiation planning for every tumor with robust optimization and multi-criteria optimization
Proton Range Compensator	.Decimal	RC-AC 1018	Adjusts the range of the proton beam to achieve distal dose conformity
Proton Beam Aperture	.Decimal	AP-BR 1800	Shapes the proton beam treatment area
Proton Range Shifter	.Decimal	RS-AC 1018	Adjusts proton beam tissue depth penetration
Endorectal Balloon	Radiadyne	ILG-90F	Ensures uniform rectal filling and prostate positioning