

Carbon Fiber/Polyether Ether Ketone (CF/PEEK) Implants Allow for More Effective Radiation in Long Bones

Christoph J. Laux ^{1,*}, Christina Villefort ^{1,†}, Stefanie Ehrbar ², Lotte Wilke ², Matthias Guckenberger ² and Daniel A. Müller ¹

¹ Department of Orthopaedics, Balgrist University Hospital, University of Zurich, Forchstrasse 340, 8008 Zurich, Switzerland; villefort@balgrist.ch (C.V.); daniel.mueller@balgrist.ch (D.A.M.)

² Department of Radiation Oncology, University Hospital Zurich, University of Zurich, Rämistrasse 100, 8091 Zurich, Switzerland; stefanie.ehrbar@usz.ch (S.E.); lotte.wilke@usz.ch (L.W.); matthias.guckenberger@usz.ch (M.G.)

[†] The first two authors contributed equally to this manuscript.

* Correspondence: christoph.laux@balgrist.ch

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NAIL MODEL					PLATE MODEL					PLANNED DOSE (ECLIPSE)
					Native	Ti	CF/PEEK	Ti	CF/PEEK	
5 CM IMMERSION DEPTH	Mean Dose	0.99	0.91	0.98	1.00	0.89	1.01	0.95	0.99	
	Median Dose	0.99	0.90	0.98	1.00	0.89	1.01	0.95	0.99	
	SD	0.02	0.03	0.01	0.00	0.01	0.01	0.00	0.00	
	D98 (Min dose)	0.95	0.88	0.95	1.00	0.88	0.99	0.94	0.98	
	D2 (Max dose)	1.01	0.97	1.00	1.01	0.92	1.03	0.95	1.00	
5 CM IMMERSION DEPTH	Mean Dose	0.98	0.93	1.01	0.98	0.90	1.05	0.97	0.98	MEASURED DOSE (FILM)
	Median Dose	0.98	0.92	1.01	0.98	0.90	1.06	0.97	0.99	
	SD	0.02	0.05	0.04	0.02	0.01	0.03	0.01	0.02	
	D98 (Min dose)	0.92	0.86	0.89	0.96	0.87	0.99	0.94	0.94	
	D2 (Max dose)	1.03	1.03	1.09	1.02	0.93	1.09	1.00	1.02	
10 CM IMMERSION DEPTH	Mean Dose	0.94	0.93	1.03	0.98	0.93	1.04	0.97	0.98	
	Median Dose	0.93	0.91	1.04	0.99	0.93	1.05	0.97	0.98	
	SD	0.05	0.05	0.03	0.02	0.02	0.03	0.01	0.01	
	D98 (Min dose)	0.86	0.86	0.95	0.95	0.91	0.98	0.95	0.94	
	D2 (Max dose)	1.02	1.02	1.09	1.01	0.97	1.08	0.99	1.00	
					INTERFACE			CORE		

Figure S1. Measured dose deviation with reference to the normalized dose in the periphery. Ti: Titanium; SD: Standard deviation.



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