

**Multiparametric radiobiological assays show that variation of X-ray energy strongly impacts relative biological effectiveness: comparison between 220 kV and 4 MV**

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**Supplementary Table S1**

SF	RBE (220 kV vs 4MV)	95% CI*
0.01	1.01	[0.97;1.06] <sup>1</sup> #
0.02	1.03	[0.98;1.08] #
0.05	1.08	[1.02;1.14]
0.10	1.11	[1.06;1.17]
0.15	1.13	[1.07;1.20]
0.20	1.15	[1.08;1.22]
0.25	1.16	[1.08;1.25]
0.30	1.18	[1.09;1.28]
0.35	1.19	[1.09;1.31]
0.40	1.21	[1.09;1.34]
0.45	1.22	[1.09;1.37]
0.50	1.23	[1.09;1.40]
0.55	1.25	[1.09;1.43]
0.60	1.26	[1.09;1.46]
0.65	1.27	[1.09;1.49]
0.70	1.29	[1.09;1.52]
0.75	1.30	[1.10;1.55]
0.80	1.31	[1.10;1.58]
0.85	1.33	[1.10;1.62]
0.90	1.34	[1.10;1.66]
0.95	1.36	[1.10;1.69]

**Supplementary Table S1: Clonogenic assay RBE values** (Ratio of doses for a given SF). \* 95% CI = 95% confidence interval. # Not significant (CI including 1).