

# Benha University (CERN training).

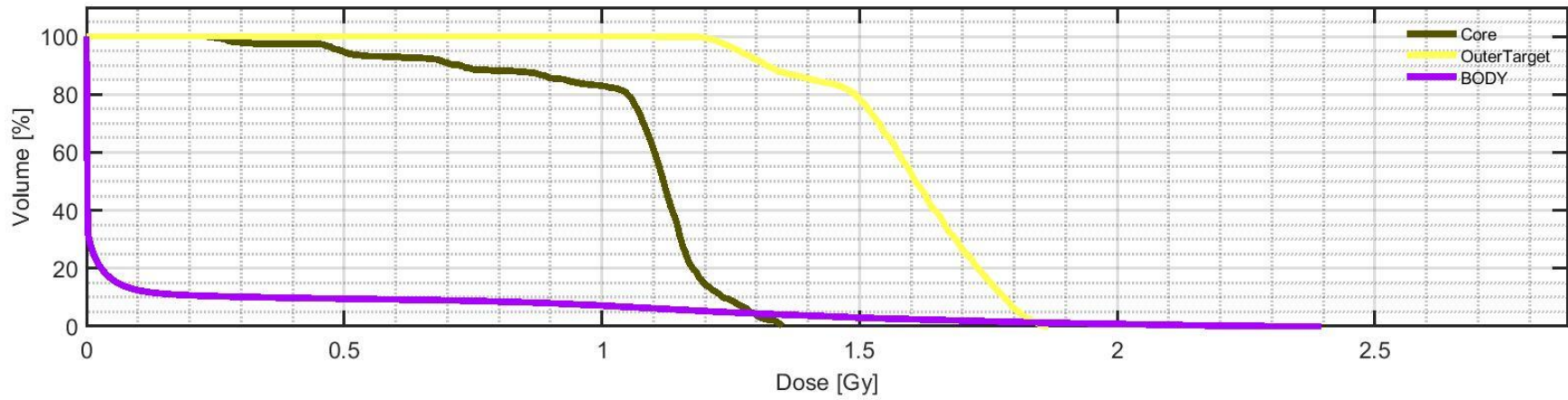
- Rawda Zayed
- Mohamed Nasser
- Mohamed Fawzi
- Mohamed Sobhy
- Mohamed wahba



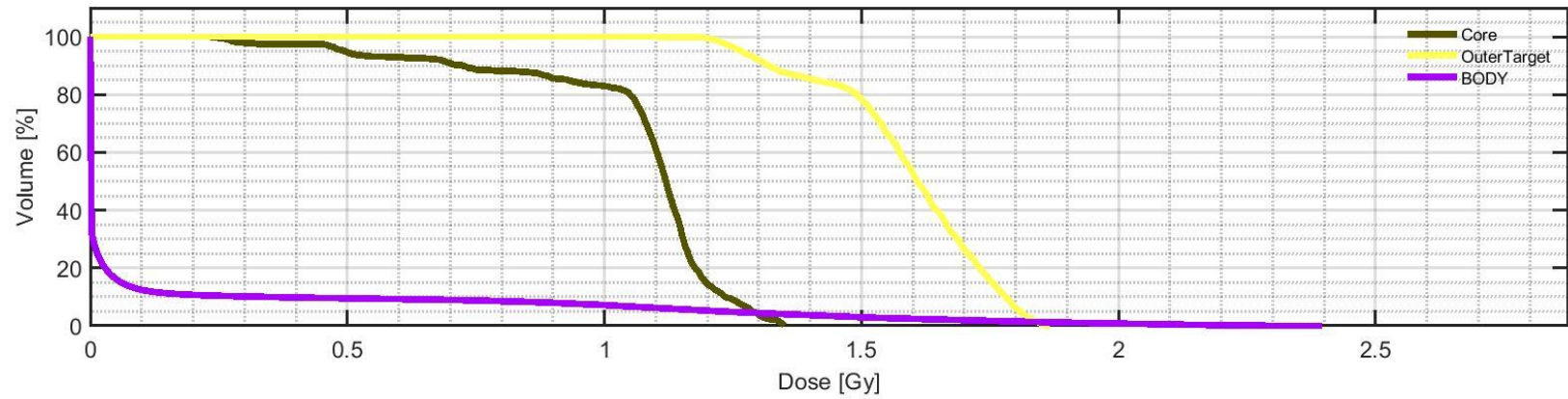
# **MatLab and Matrab**



→ photons



	mean	std	max	min	D_2	D_5	D_50	D_95	D_98	V_0Gy	V_0.4Gy	V_0.9Gy	V_1.4Gy	V_1.9Gy	V_2.3Gy	CI
Core	1.0615	0.2183	1.3525	0.2364	1.3359	1.2876	1.1199	0.4966	0.2936	1	0.9750	0.8568	0	0	0	0
OuterTarget	1.5905	0.1581	1.8672	1.0975	1.8349	1.8088	1.6086	1.2669	1.2287	1	1	1	0.8556	0	0	0
BODY	0.1373	0.4068	2.3969	0	1.6934	1.2270	0	0	0	1	0.0980	0.0797	0.0372	0.0112	4.1380e-04	0

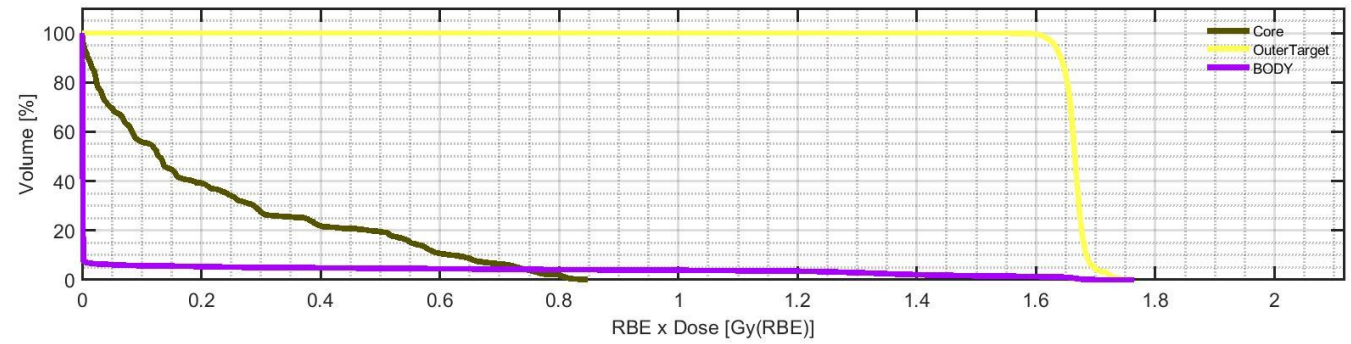


	mean	std	max	min	D_2	D_5	D_50	D_95	D_98	V_0Gy	V_0.4Gy	V_0.9Gy	V_1.4Gy	V_1.9Gy	V_2.3Gy	CI
Core	1.0615	0.2183	1.3525	0.2364	1.3359	1.2876	1.1199	0.4966	0.2936	1	0.9750	0.8568	0	0	0	-
OuterTarget	1.5905	0.1581	1.8672	1.0975	1.8349	1.8088	1.6086	1.2669	1.2287	1	1	1	0.8566	0	0	-
BODY	0.1373	0.4068	2.3969	0	1.6934	1.2270	0	0	0	1	0.0980	0.0797	0.0372	0.0112	4.1380e-04	-



→ protons



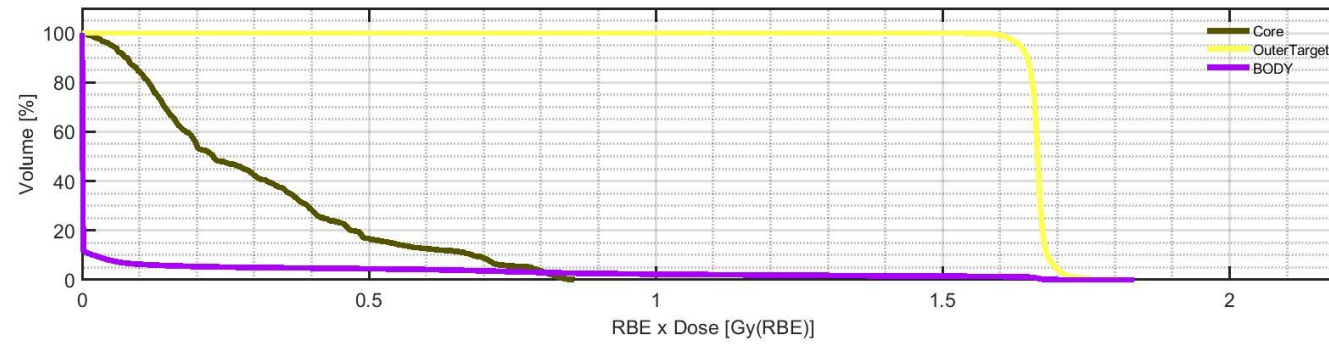


	mean	std	max	min	D_2	D_5	D_50	D_95	D_98	V_0Gy	V_0.3Gy	V_0.7Gy	V_1Gy	V_1.4Gy	V_1.7Gy	CI
Core	0.2298	0.2368	0.8483	0	0.7995	0.7284	0.1284	0.0028	1.6025e-04	1	0.2742	0.0652	0	0	0	0-
OuterTarget	1.6649	0.0206	1.7653	1.5506	1.7231	1.6976	1.6851	1.6319	1.6175	1	1	1	1	1	0.0444	-
BODY	0.0652	0.2890	1.7653	0	1.4134	0.3066	0	0	0	1	0.0501	0.0431	0.0386	0.0208	5.5008e-04	-



➔ carbon





	mean	std	max	min	D_2	D_5	D_50	D_95	D_98	V_0Gy	V_0.3Gy	V_0.7Gy	V_1.1Gy	V_1.4Gy	V_1.8Gy	CI
Core	0.3021	0.2179	0.8599	0.0058	0.8196	0.7804	0.2288	0.0514	0.0267	1	0.4242	0.0879	0	0	0	0-
OuterTarget	1.6655	0.0204	1.8243	1.5178	1.7143	1.6971	1.6655	1.6352	1.6142	1	1	1	1	1	1	6.7042e-04
BODY	0.0571	0.2522	1.8345	0	1.1554	0.3000	0	0	0	1	0.0500	0.0365	0.0211	0.0163	1.4957e-05	-



**Thank you**