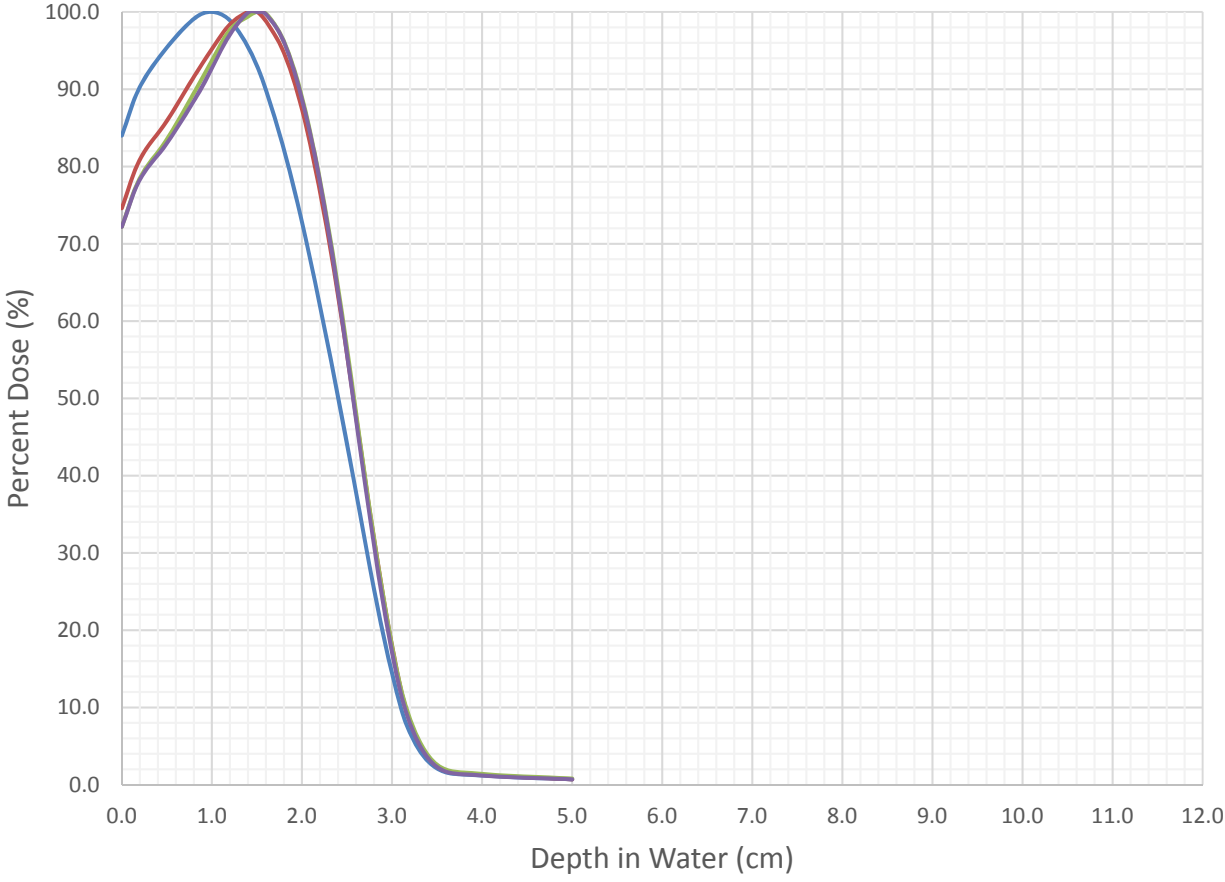


Electron Beam Parameters for Varian Clinac 2100C

Nominal SSD: 100 cm					
Field Size: 10X10 cm²					
Nominal Energy (MeV)	6	9	12	16	20
E_{p,o} (MeV)*	6.6	9.3	12.3	15.5	20.5
\bar{E}_o (MeV)**	7.2	9.1	12.0	15.4	20.4
Surface Dose (%)	72.2	77.5	82.6	87.0	90.6
Depth to Proximal 90% (cm)	0.9	1.0	0.7	0.1	0.0
Depth to 100% (cm)	1.5	2.3	3.0	3.4	2.6
Depth to Distal 90% (cm)	2.0	3.0	4.0	5.0	6.1
Depth to 80% (cm)	2.2	3.3	4.3	5.5	7.0
Depth to 50% (cm)	3.0	3.8	5.0	6.4	8.5
Depth to 20% (cm)	2.6	4.3	5.7	7.3	9.7
Depth to 10% (cm)	3.2	4.6	6.0	7.8	10.5
Range R_p (cm)	3.2	4.6	6.0	7.7	10.1
X-ray Dose (%) (R_p+2 cm)	0.7	1.2	1.9	3.7	5.9
$\sigma_{\theta_{\perp}}$ (radians)	0.064	0.047	0.036	0.028	0.023
L_{o,eff} (cm)	7				
*E_{p,o} (MeV) = 0.22 + 1.98 * R_p (cm) + 0.0025 R_p² (cm)					
**\bar{E}_o (MeV) = 2.4 * R₅₀ (cm)					

Varian Clinac 2100C: 6 MeV Electrons Central Axis Depth Dose @ 100 cm SSD



Side of Square (cm)

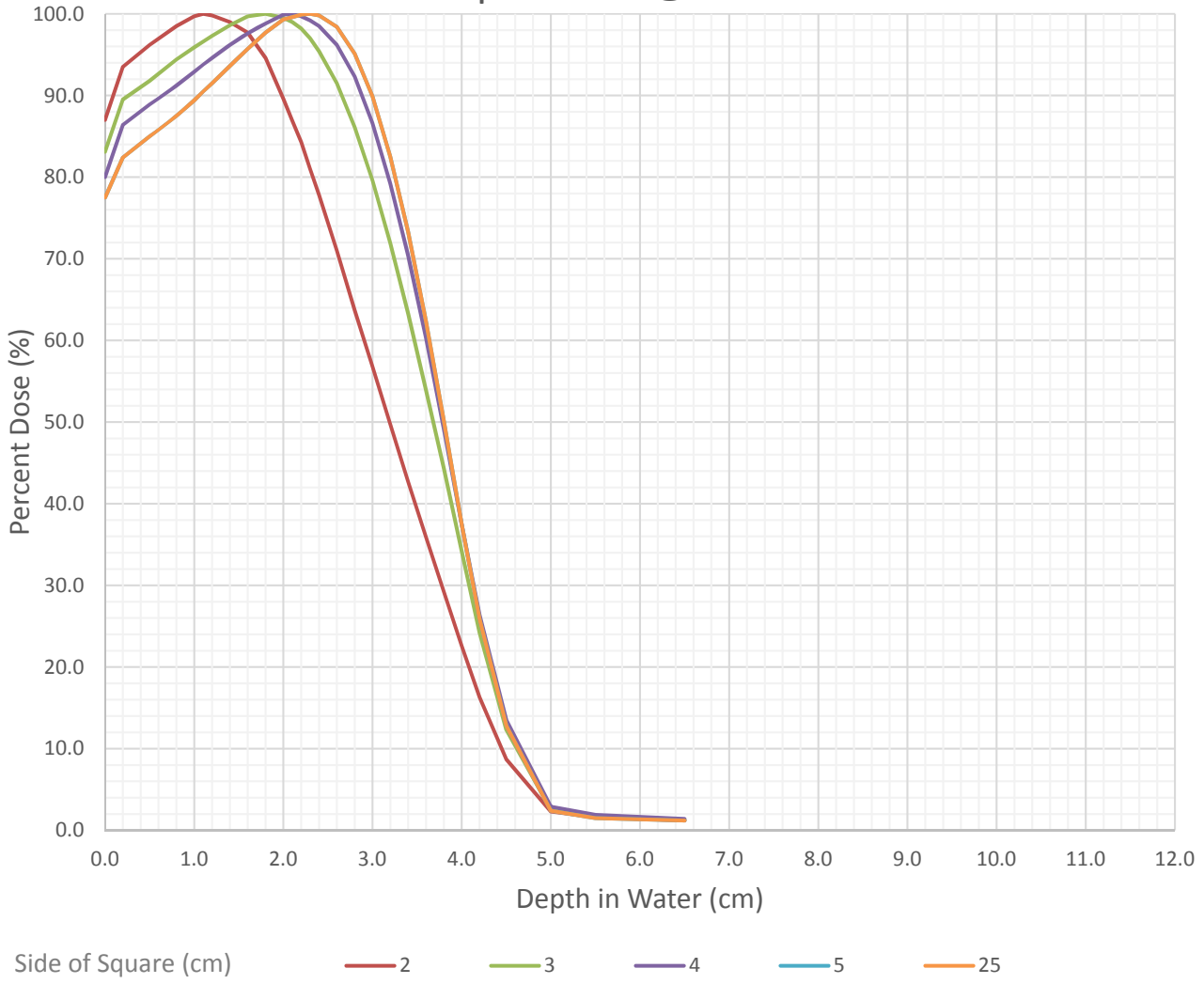
— 2 — 3 — 4 — 5

Varian Clinac 2100C: 9 MeV Electrons

Percent Dose vs Depth

Nominal Energy (MeV)	9								
SSD (cm)	100								
E_{p,0} (MeV)	9.3								
σ_{θ_z} (radians)	0.047								
L_{o,eff} (cm)	7								
# Field Sizes	5								
# Depths	28								
Side of Square (cm)		2.0	3.0	4.0	5.0	25.0			
R₁₀₀ (cm)		1.1	1.8	2.1	2.3	2.3			
Depth (cm)		Percent Depth Dose							
0.0		87.0	83.1	80.0	77.5	77.5			
0.2		93.5	89.5	86.4	82.4	82.4			
0.5		96.2	91.8	88.9	85.0	85.0			
0.8		98.5	94.4	91.2	87.5	87.5			
1.0		99.7	95.9	92.9	89.4	89.4			
1.1		100.0	96.6	93.8	90.5	90.5			
1.2		99.8	97.3	94.6	91.5	91.5			
1.4		99.0	98.6	96.2	93.6	93.6			
1.6		97.7	99.7	97.6	95.7	95.7			
1.8		94.6	100.0	98.8	97.7	97.7			
2.0		89.6	99.5	99.9	99.3	99.3			
2.1		86.9	99.0	100.0	99.6	99.6			
2.2		84.3	98.2	99.7	99.9	99.9			
2.3		81.0	97.0	99.2	100.0	100.0			
2.4		77.8	95.4	98.5	99.8	99.8			
2.6		71.0	91.5	96.2	98.4	98.4			
2.8		63.7	86.1	92.3	95.1	95.1			
3.0		56.8	79.6	86.6	89.9	89.9			
3.2		49.7	71.9	79.2	82.5	82.5			
3.4		42.7	63.3	70.4	73.3	73.3			
3.6		35.9	53.9	60.3	62.3	62.3			
3.8		29.2	44.3	49.1	50.1	50.1			
4.0		22.6	34.2	37.5	37.5	37.5			
4.2		16.3	24.2	26.4	25.9	25.9			
4.5		8.7	12.3	13.5	12.8	12.8			
5.0		2.3	2.5	2.9	2.4	2.4			
5.5		1.6	1.7	1.9	1.5	1.5			
6.5		1.2	1.3	1.4	1.2	1.2			

Varian Clinac 2100C: 9 MeV Electrons Central Axis Depth Dose @ 100 cm SSD

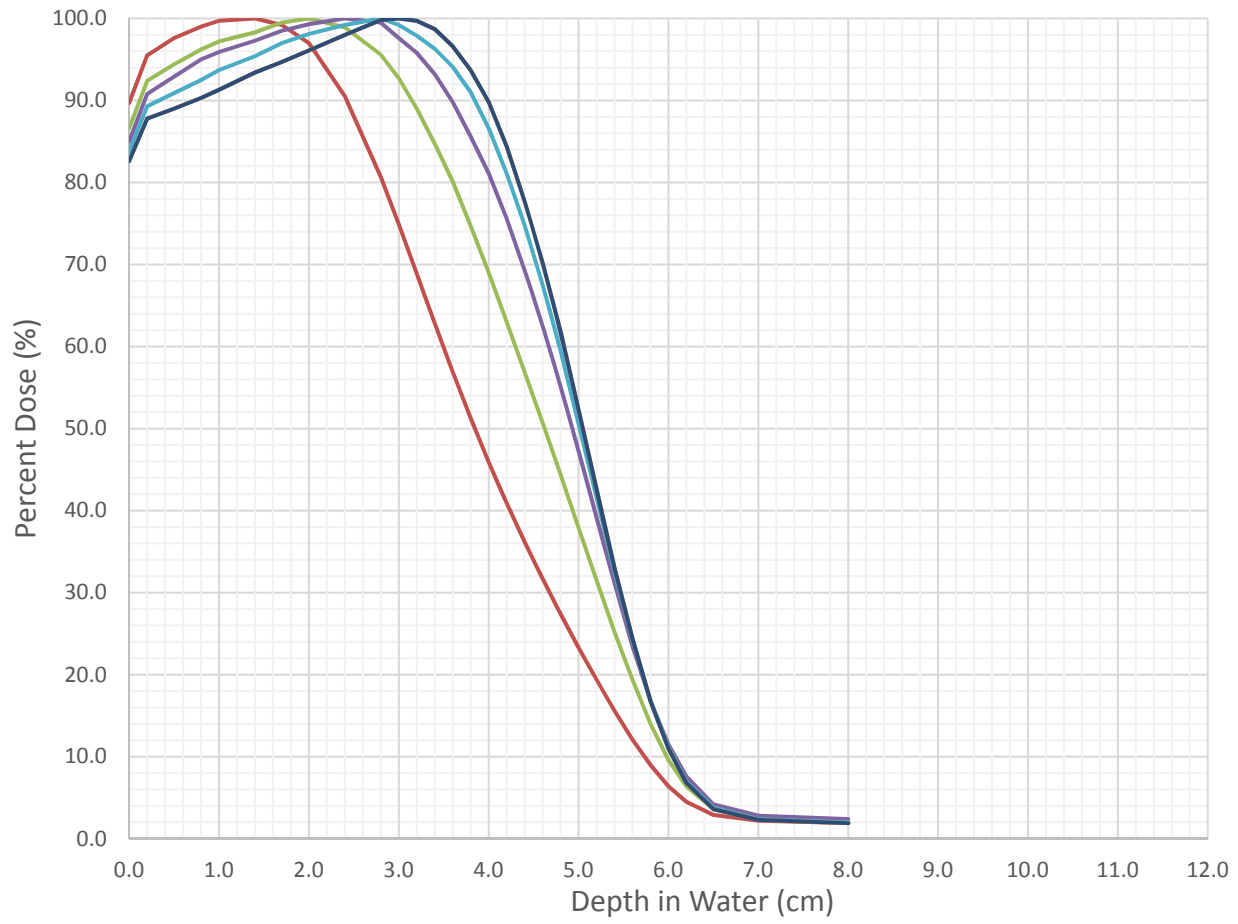


Varian Clinac 2100C: 12 MeV Electrons

Percent Dose vs Depth

Nominal Energy (MeV)	12							
SSD (cm)	100							
E_{p,0} (MeV)	12.3							
σ_{θ_z} (radians)	0.036							
L_{o,eff} (cm)	7							
# Field Sizes	6							
# Depths	30							
Side of Square (cm)		2.0	3.0	4.0	5.0	6.0	25.0	
R₁₀₀ (cm)		1.4	2.0	2.4	2.8	3.0	3.0	
Depth (cm)		Percent Depth Dose						
0.0		89.7	86.6	85.0	83.8	82.6	82.6	
0.2		95.5	92.4	90.8	89.3	87.8	87.8	
0.5		97.6	94.4	92.9	90.9	89.0	89.0	
0.8		99.0	96.2	95.0	92.5	90.3	90.3	
1.0		99.7	97.2	95.9	93.7	91.3	91.3	
1.4		100.0	98.3	97.3	95.4	93.4	93.4	
1.7		99.2	99.5	98.5	97.0	94.7	94.7	
2.0		97.0	100.0	99.3	98.1	96.1	96.1	
2.4		90.5	98.9	100.0	99.2	98.0	98.0	
2.8		80.7	95.6	99.5	100.0	99.8	99.8	
3.0		74.9	92.7	97.6	99.2	100.0	100.0	
3.2		68.9	89.0	95.8	97.9	99.7	99.7	
3.4		62.8	84.7	93.2	96.3	98.7	98.7	
3.6		56.9	80.1	89.8	94.1	96.6	96.6	
3.8		51.3	74.7	85.6	91.0	93.7	93.7	
4.0		45.9	69.0	81.1	86.6	89.8	89.8	
4.2		40.9	63.0	75.6	81.1	84.4	84.4	
4.4		36.2	56.9	69.3	74.8	77.7	77.7	
4.6		31.7	50.7	62.5	67.5	70.2	70.2	
4.8		27.4	44.4	55.1	59.5	61.8	61.8	
5.0		23.3	37.9	47.4	50.6	52.3	52.3	
5.2		19.4	31.5	39.1	41.6	42.6	42.6	
5.4		15.6	25.2	31.2	32.5	33.0	33.0	
5.6		12.1	19.4	23.5	24.2	24.4	24.4	
5.8		9.0	14.0	16.8	16.9	16.8	16.8	
6.0		6.4	9.6	11.5	11.2	11.0	11.0	
6.2		4.5	6.4	7.6	7.0	6.8	6.8	
6.5		2.9	3.6	4.2	3.8	3.6	3.6	
7.0		2.2	2.5	2.8	2.4	2.3	2.3	
8.0		1.9	2.1	2.4	2.0	1.9	1.9	

Varian Clinac 2100C: 12 MeV Electrons Central Axis Depth Dose @ 100 cm SSD



Side of Square (cm)

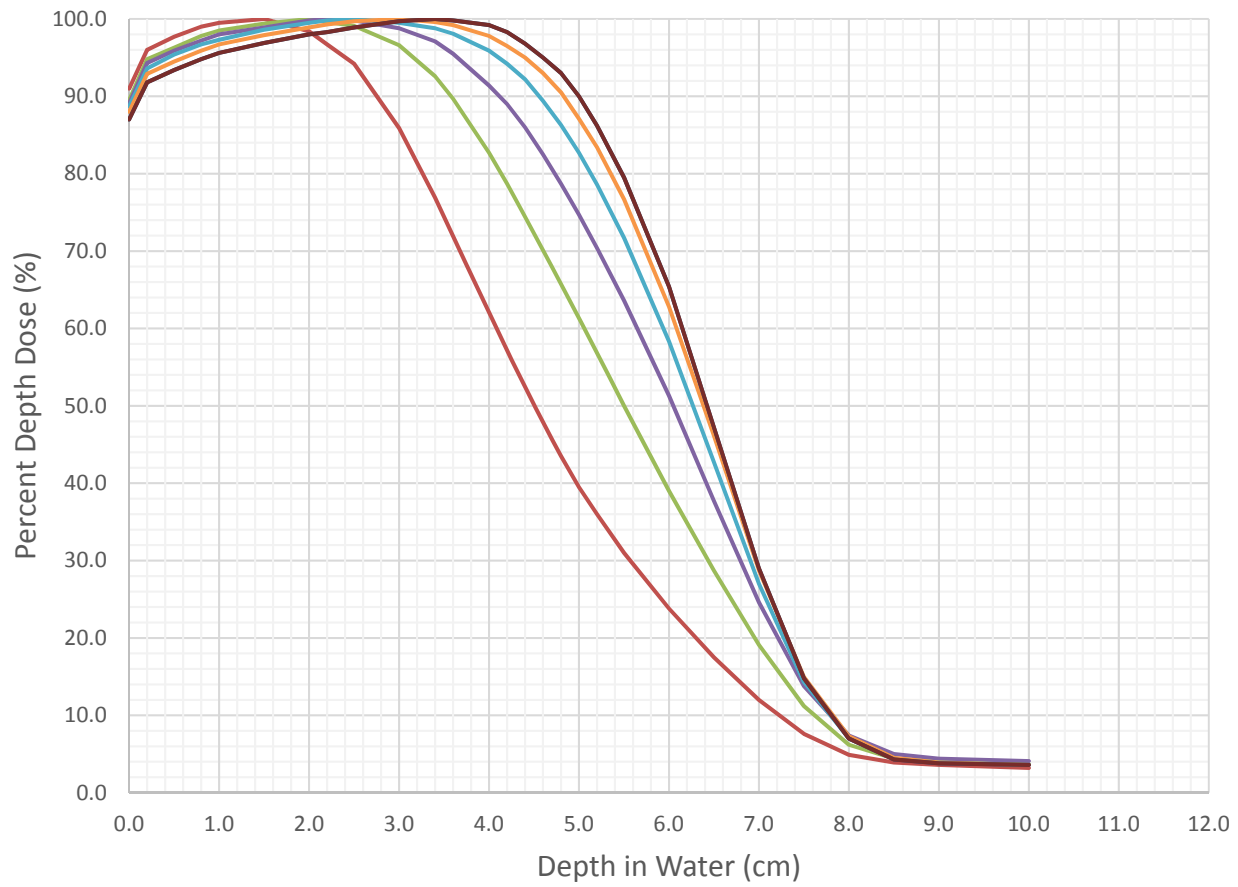
— 2 — 3 — 4 — 5 — 6 — 25

Varian Clinac 2100C: 16 MeV Electrons

Percent Dose vs Depth

Nominal Energy (MeV)	16								
SSD (cm)	100								
E_{p,o} (MeV)	15.5								
σ_{θ_z} (radians)	0.028								
L_{o,eff} (cm)	7								
# Field Sizes	7								
# Depths	28								
Side of Square (cm)		2.0	3.0	4.0	5.0	6.0	8.0	25.0	
R₁₀₀ (cm)		1.5	2.0	2.2	2.5	3.0	3.4	3.4	
Depth (cm)		Percent Depth Dose							
0.0		91.0	89.5	89.1	88.7	88.0	87.0	87.0	
0.2		96.0	94.8	94.3	93.6	92.9	91.8	91.8	
0.5		97.7	96.3	95.9	95.4	94.5	93.4	93.4	
0.8		99.0	97.8	97.2	96.7	95.9	94.8	94.8	
1.0		99.5	98.5	98.0	97.3	96.7	95.6	95.6	
1.5		100.0	99.4	98.9	98.6	97.9	96.9	96.9	
2.0		98.4	100.0	99.8	99.5	98.9	98.0	98.0	
2.2		96.7	99.6	100.0	99.8	99.3	98.3	98.3	
2.5		94.2	99.1	99.8	100.0	99.7	98.9	98.9	
3.0		85.9	96.6	98.8	99.5	100.0	99.7	99.7	
3.4		76.9	92.6	97.1	98.8	99.6	100.0	100.0	
3.6		72.0	89.7	95.5	98.1	99.2	99.8	99.8	
4.0		62.0	82.7	91.4	95.9	97.8	99.2	99.2	
4.2		57.1	78.7	89.0	94.2	96.5	98.3	98.3	
4.4		52.5	74.4	86.0	92.2	95.0	96.8	96.8	
4.6		47.9	70.2	82.5	89.4	93.0	95.0	95.0	
4.8		43.5	65.7	78.7	86.3	90.5	93.0	93.0	
5.0		39.5	61.4	74.7	82.7	87.1	90.0	90.0	
5.2		36.0	56.8	70.4	78.6	83.4	86.2	86.2	
5.5		31.0	50.0	63.6	71.7	76.7	79.5	79.5	
6.0		23.8	39.0	51.3	58.3	62.8	65.4	65.4	
6.5		17.5	28.7	37.7	42.7	46.1	47.2	47.2	
7.0		12.0	19.1	24.6	27.0	28.7	29.0	29.0	
7.5		7.6	11.2	13.8	14.3	15.0	14.8	14.8	
8.0		4.9	6.2	7.4	7.0	7.3	7.0	7.0	
8.5		3.9	4.4	5.0	4.4	4.5	4.3	4.3	
9.0		3.6	4.0	4.4	3.9	3.9	3.8	3.8	
10.0		3.2	3.7	4.1	3.6	3.6	3.6	3.6	

Varian Clinac 2100C: 16 MeV Electrons Central Axis Depth Dose @ 100 cm SSD



Side of Square (cm)

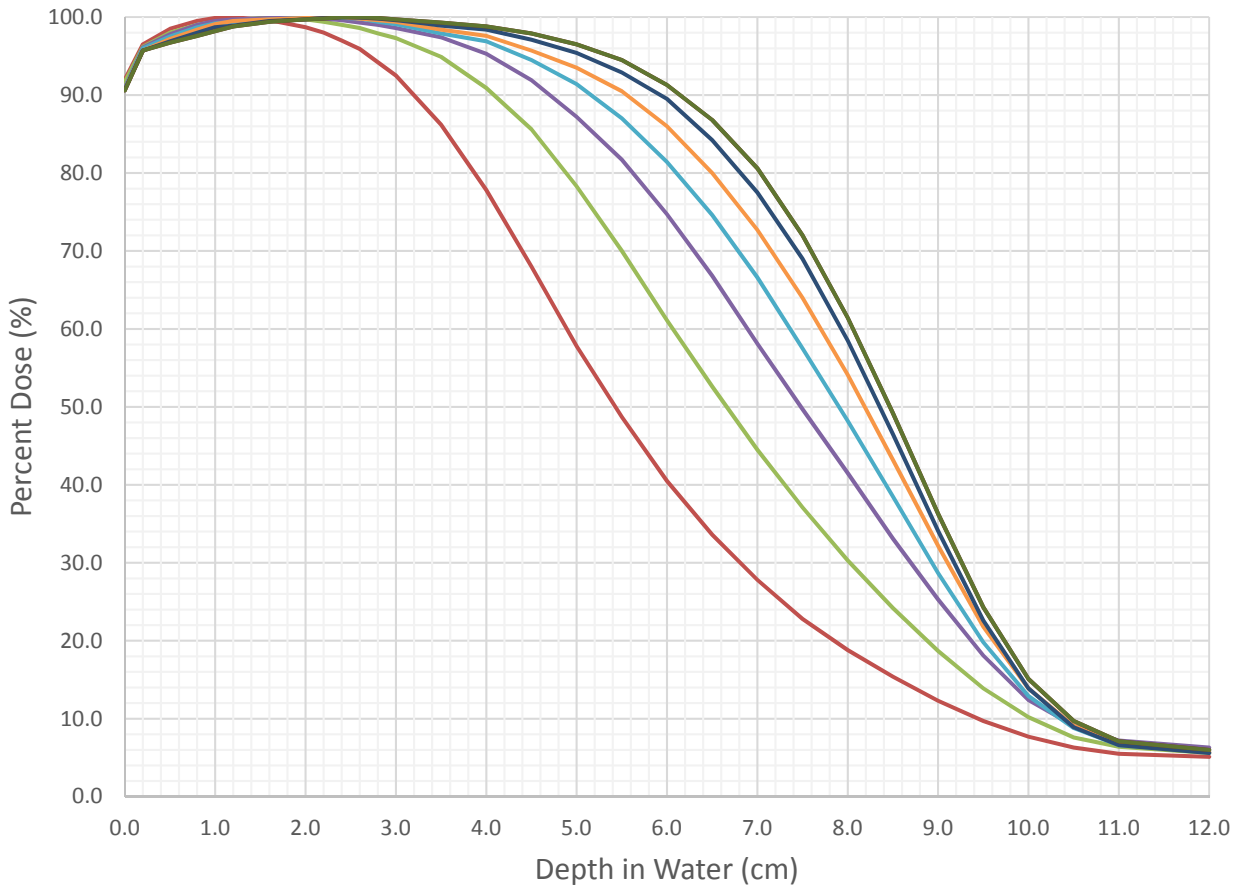
— 2 — 3 — 4 — 5 — 6 — 8 — 25

Varian Clinac 2100C: 20 MeV Electrons

Percent Dose vs Depth

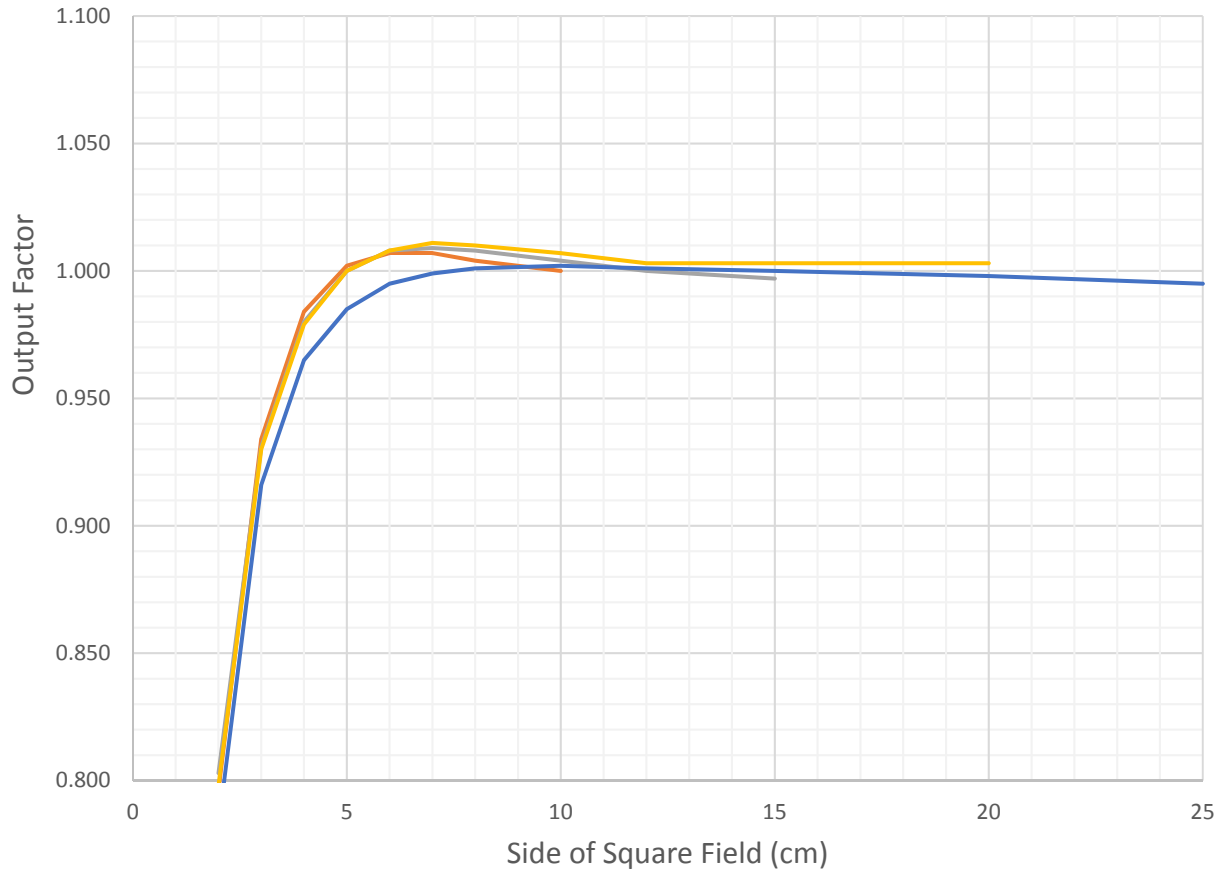
Nominal Energy (MeV)	20								
SSD (cm)	100								
E_{p,o} (MeV)	20.5								
σ_{θ_z} (radians)	0.023								
L_{o,eff} (cm)	7								
# Field Sizes	8								
# Depths	30								
Side of Square (cm)		2.0	3.0	4.0	5.0	6.0	8.0	10.0	25.0
R₁₀₀ (cm)		1.2	1.6	2.0	2.2	2.3	2.4	2.6	2.6
Depth (cm)		Percent Depth Dose							
0.0		92.0	91.7	90.9	90.8	90.7	90.7	90.6	90.6
0.2		96.5	96.2	96.1	96.0	95.7	95.7	95.7	95.7
0.5		98.5	98.0	97.8	97.5	97.2	96.9	96.7	96.7
0.8		99.5	99.0	99.0	98.7	98.4	98.0	97.6	97.6
1.0		99.9	99.4	99.5	99.2	99.1	98.7	98.2	98.2
1.2		100.0	99.6	99.7	99.4	99.5	98.9	98.8	98.8
1.6		99.6	100.0	99.9	99.7	99.7	99.5	99.4	99.4
2.0		98.7	99.7	100.0	99.9	99.9	99.7	99.7	99.7
2.2		98.0	99.4	99.8	100.0	100.0	99.9	99.8	99.8
2.4		97.0	99.0	99.6	99.9	100.0	100.0	100.0	100.0
2.6		95.9	98.6	99.3	99.8	99.8	99.9	100.0	100.0
2.8		94.2	97.9	99.0	99.4	99.6	99.8	99.9	99.9
3.0		92.5	97.3	98.6	99.1	99.4	99.6	99.7	99.7
3.5		86.2	94.9	97.4	97.9	98.4	98.9	99.3	99.3
4.0		77.8	90.9	95.3	96.9	97.6	98.4	98.8	98.8
4.5		68.0	85.6	91.9	94.5	95.7	97.1	97.9	97.9
5.0		57.8	78.3	87.2	91.4	93.5	95.4	96.5	96.5
5.5		48.7	70.0	81.7	87.0	90.5	92.9	94.5	94.5
6.0		40.5	61.1	74.7	81.4	86.0	89.5	91.3	91.3
6.5		33.6	52.6	66.8	74.6	80.0	84.2	86.8	86.8
7.0		27.8	44.5	58.1	66.6	72.7	77.5	80.6	80.6
7.5		22.8	37.1	49.7	57.5	64.0	69.0	72.0	72.0
8.0		18.8	30.3	41.5	48.2	54.1	58.5	61.4	61.4
8.5		15.4	24.2	33.1	38.5	43.2	46.5	49.2	49.2
9.0		12.3	18.7	25.3	28.7	32.2	34.1	36.3	36.3
9.5		9.7	13.9	18.1	19.8	21.8	22.6	24.3	24.3
10.0		7.7	10.2	12.4	12.9	13.9	13.9	15.1	15.1
10.5		6.3	7.6	9.1	8.8	9.1	8.9	9.7	9.7
11.0		5.5	6.4	7.2	6.6	6.7	6.6	7.1	7.1
12.0		5.1	5.6	6.3	5.7	5.7	5.6	6.0	6.0

Varian Clinac 2100C: 20 MeV Electrons Central Axis Depth Dose @ 100 cm SSD



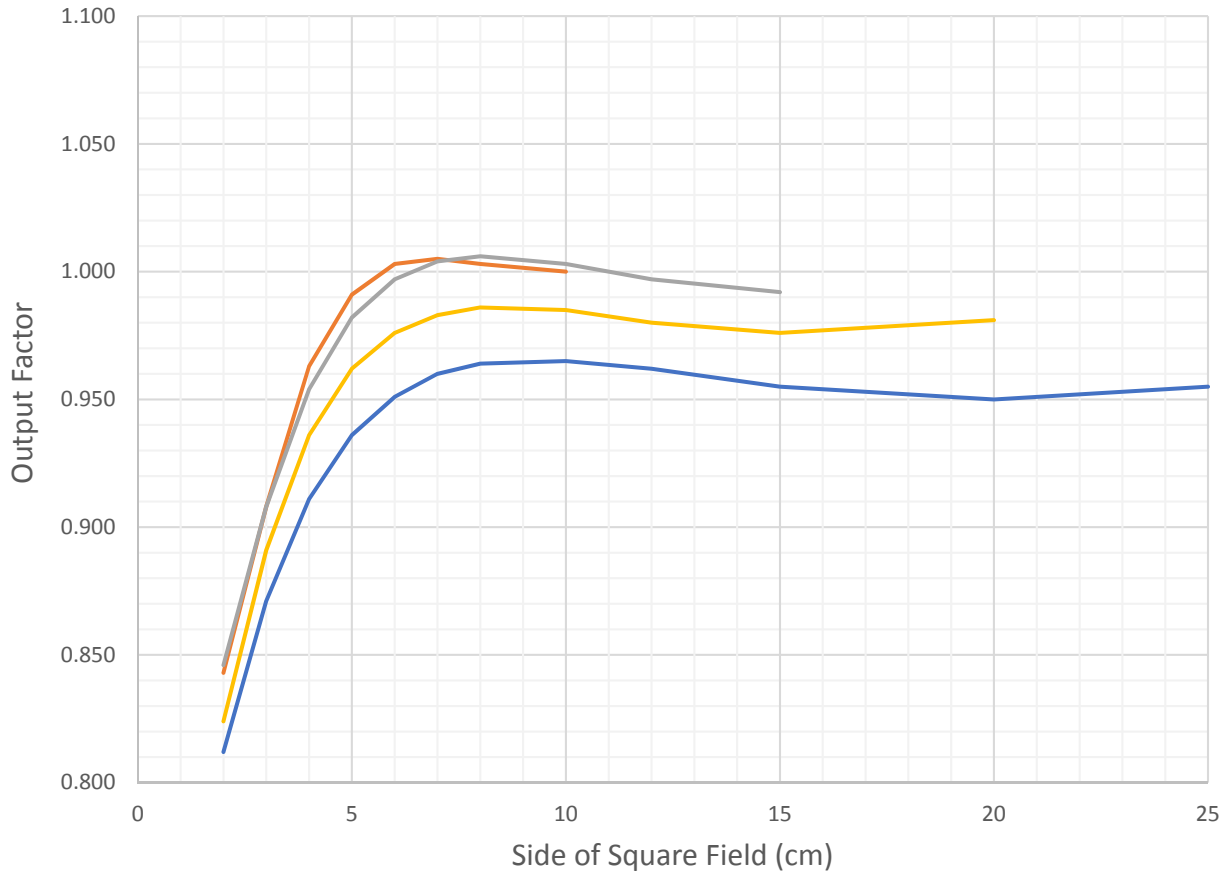
Side of Square (cm) 2 3 4 5 6 8 10 25

Varian Clinac 2100C: 6 MeV Electrons
Output Factor vs Side of Square
100 cm SSD



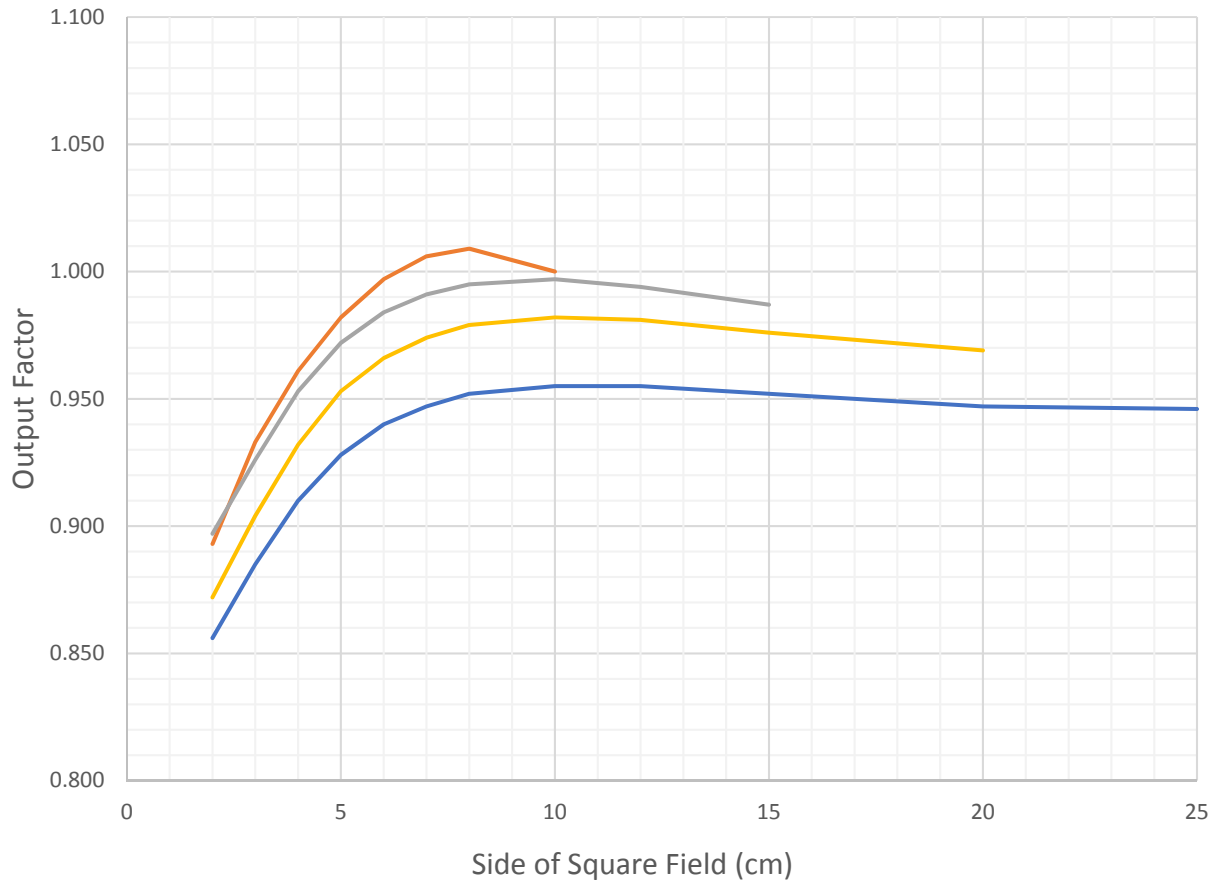
Applicator Side of Square (cm) 10 15 20 25

Varian Clinac 2100C: 9 MeV Electrons
Output Factor vs Side of Square
100 cm SSD



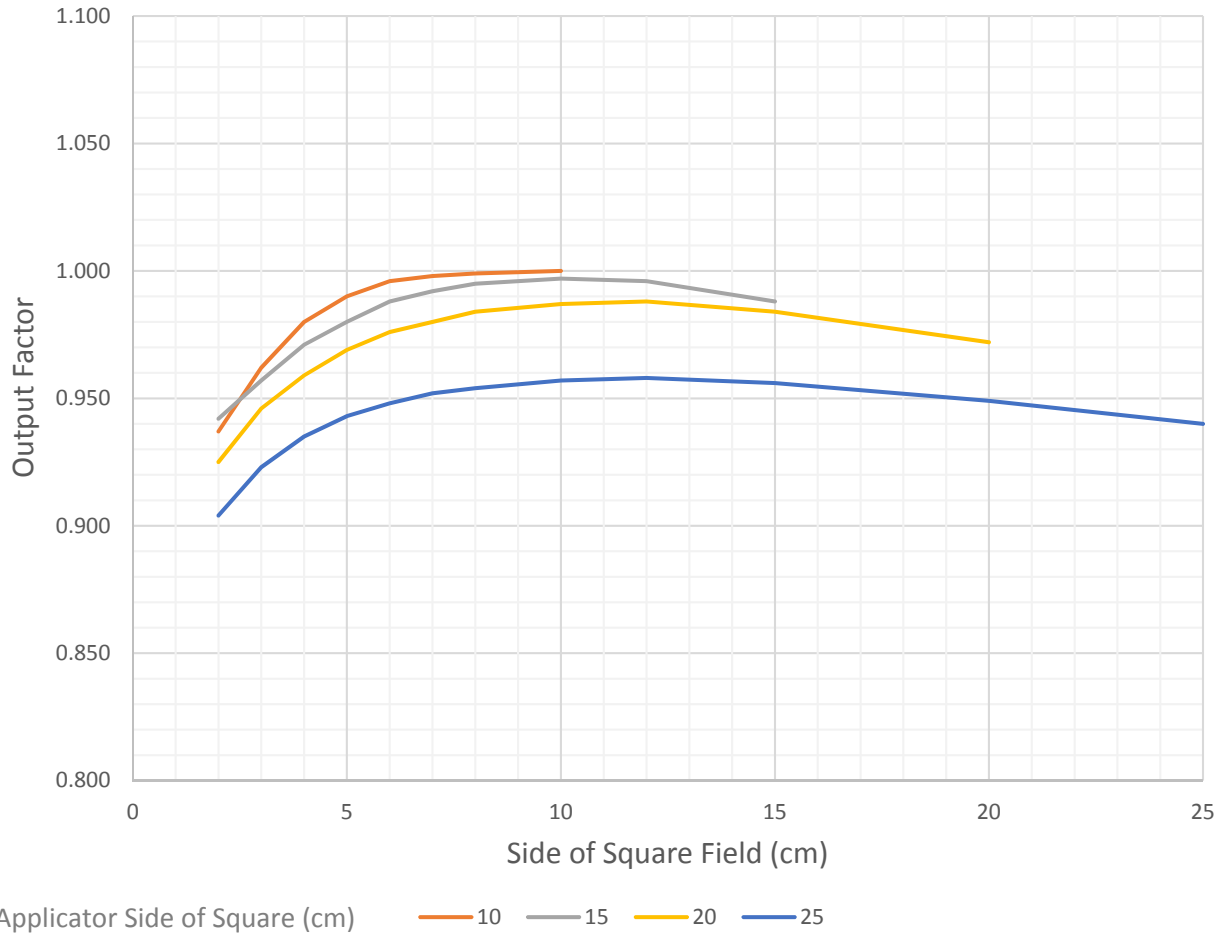
Applicator Side of Square (cm) — 10 — 15 — 20 — 25

Varian Clinac 2100C: 12 MeV Electrons
Output Factor vs Side of Square
100 cm SSD

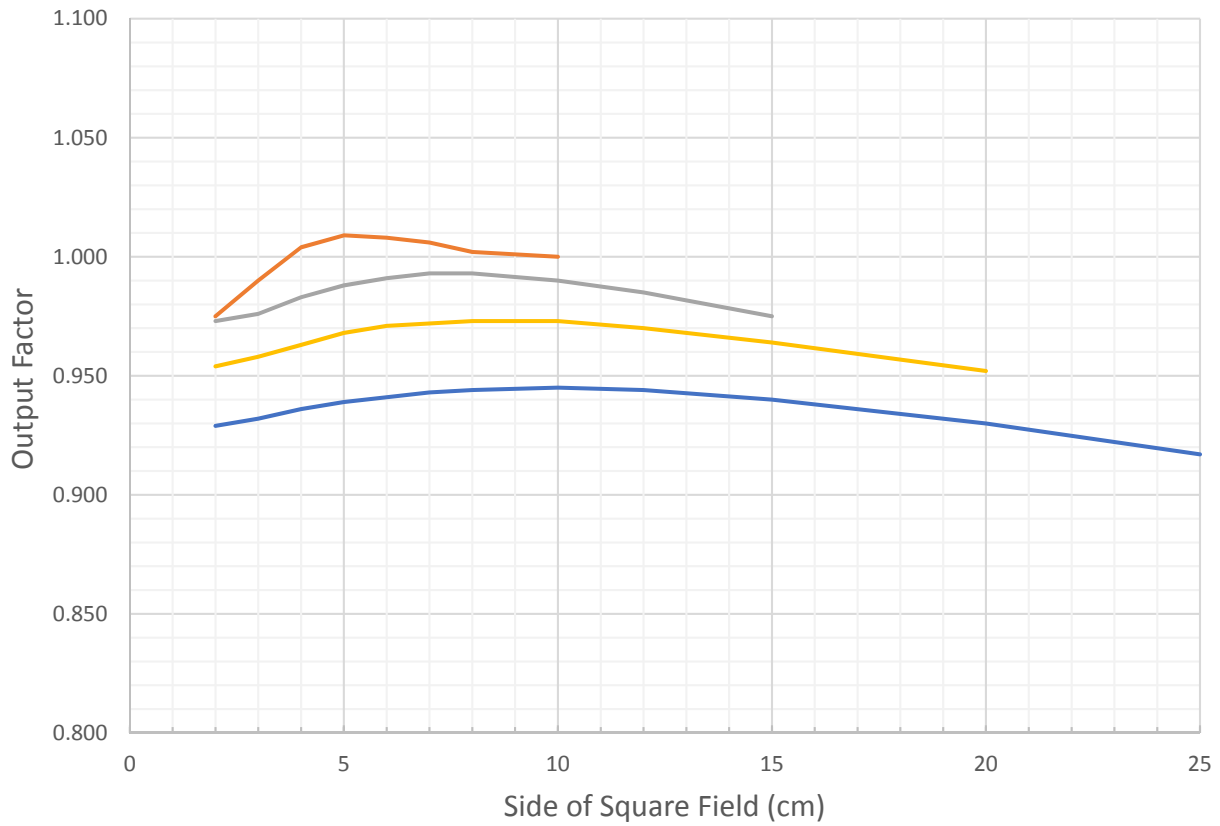


Applicator Side of Square (cm) — 10 — 15 — 20 — 25

Varian Clinac 2100C: 16 MeV Electrons
Output Factor vs Side of Square
100 cm SSD

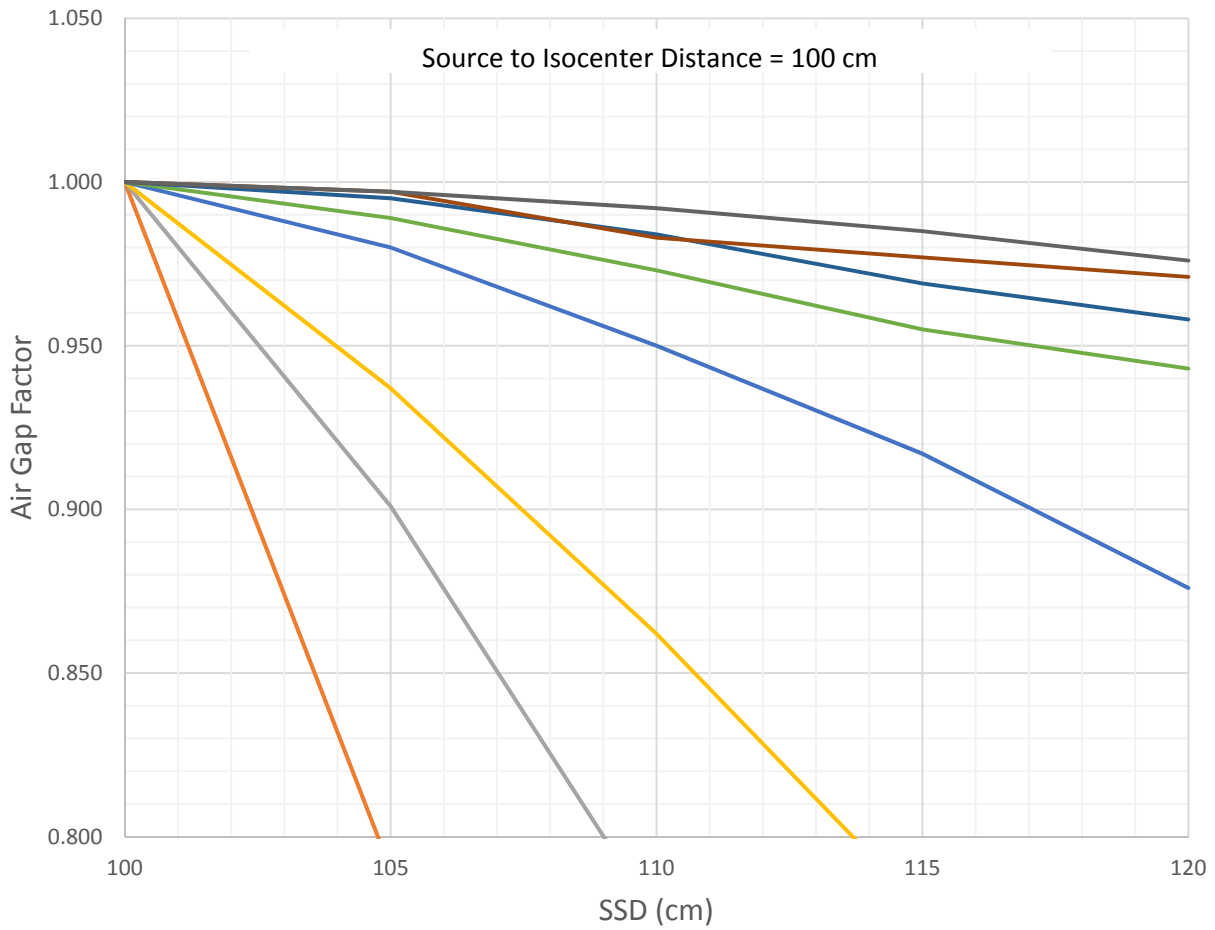


Varian Clinac 2100C: 20 MeV Electrons
Output Factor vs Side of Square
100 cm SSD



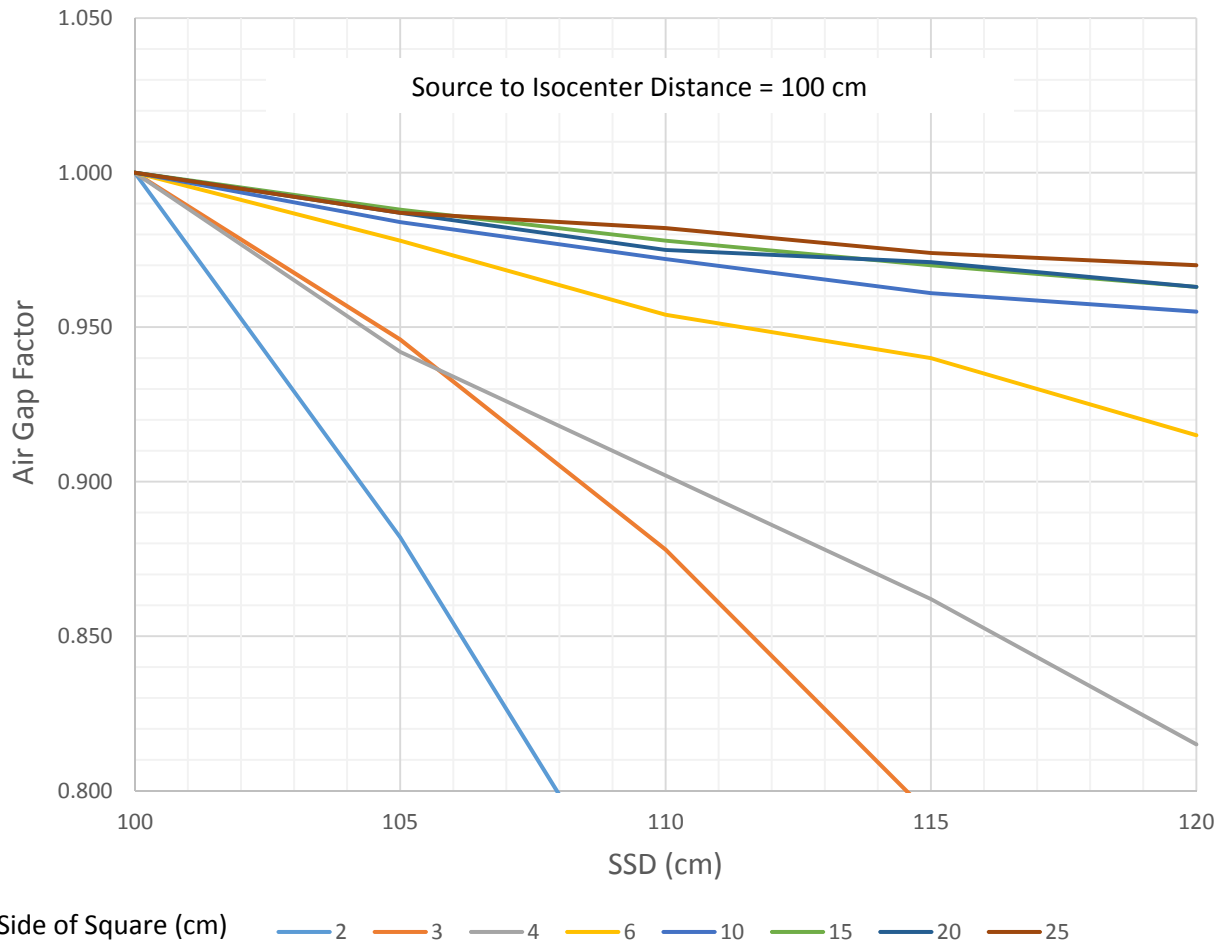
Applicator Side of Square (cm) — 10 — 15 — 20 — 25

Varian Clinac 2100C: 6 MeV Electrons Air Gap Factor vs Field Size & SSD



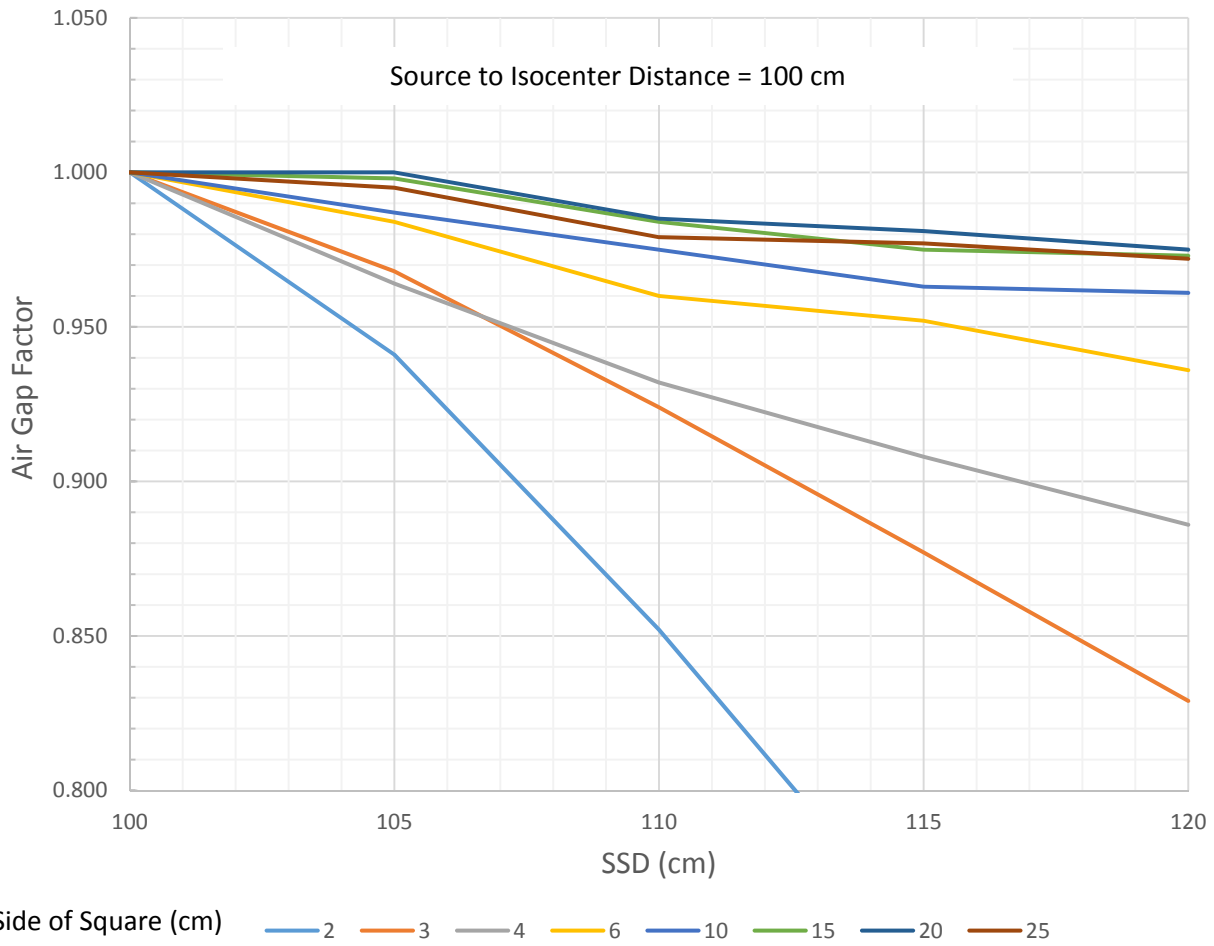
Side of Square (cm) 2 3 4 6 10 15 20 25

Varian Clinac 2100C: 9 MeV Electrons Air Gap Factor vs Field Size & SSD

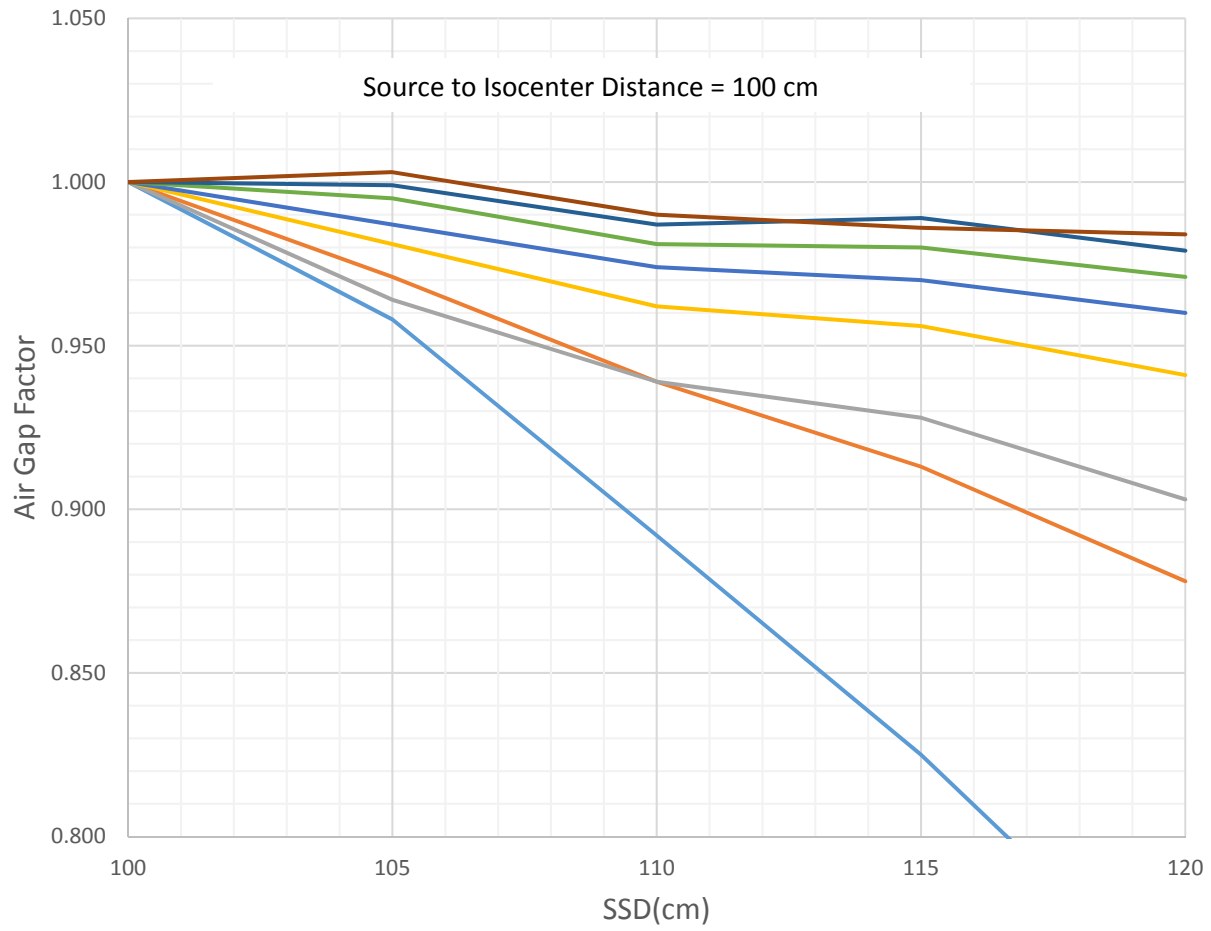


Varian Clinac 2100C: 12 MeV Electrons

Air Gap Factor vs Field Size & SSD



Varian Clinac 2100C: 16 MeV Electrons Air Gap Factor vs Field Size & SSD



Side of Square (cm) 2 3 4 6 10 15 20 25

Varian Clinac 2100C: 20 MeV Electrons Air Gap Factor vs Field Size & SSD

