

Pt:●●●●, ●●●●_Rev1, MRN:_____, Right eye, DOB: ●●● ●, ●●●●, __, T=72.00 hrs, PREPLAN, PlanID:CWHN-25C64726

Plaque Simulator QA Check (isotropic point sources in water)

Plaque #2 EP2340-n-p-f, implant 2/9/21 12:00 PM for T = 72.00 hours

Tavg (hours) = 1.443 x 24.0 x half-life(in days)

r = distance from source center to QA point on plaque CAx at (6.00,0.00,0.00)

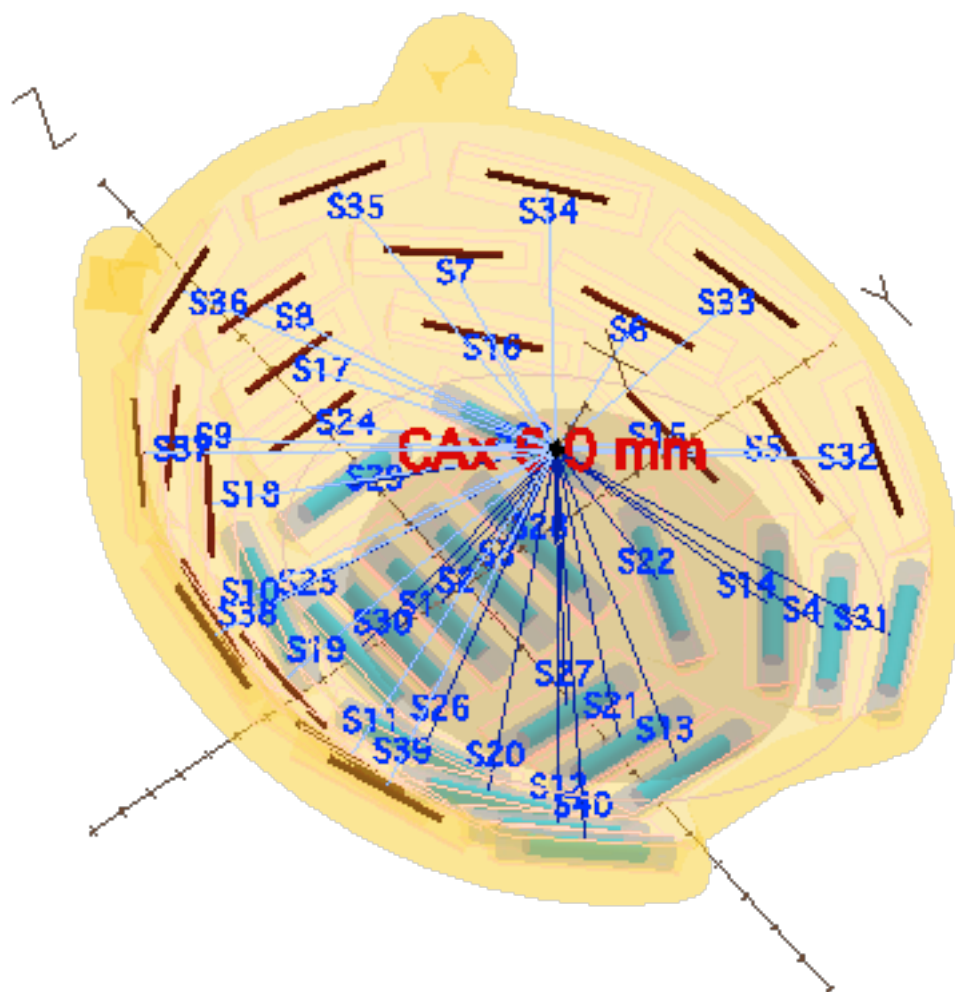
Dose (Gy) = Strength {x ActivityToSk} x Tavg x DoseRateConstant {x (1/G(1,90))} x (1-exp(-T/Tavg)) x (1/r^2) x g(r)

Slot #	Seed Model	Strength @implant	Units	Activity to Sk	Units	Tavg hours	Dose-Rate Constant	G (1,90)	X mm	Y mm	Z mm	r mm	g(r)	Dose Gy	Check by
1	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	-0.047	-2.583	-0.036	6.575	1.041	6.643	_____
2	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	-0.269	-0.904	-0.032	6.334	1.043	7.176	_____
3	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	-0.274	0.835	-0.015	6.329	1.043	7.188	_____
4	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	2.591	5.097	-6.524	8.954	1.014	3.490	_____
5	empty								2.519	7.871	-2.257	8.897			_____
6	empty								2.240	7.392	2.545	8.675			_____
7	empty								2.240	4.372	6.481	8.675			_____
8	empty								2.281	-0.686	7.844	8.708			_____
9	empty								2.664	-5.622	6.201	9.010			_____
10	empty								2.812	-8.292	2.083	9.124			_____
11	empty								2.812	-8.131	-2.642	9.124			_____
12	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	2.812	-5.025	-6.916	9.124	1.012	3.354	_____
13	IAAI	6.215	mCi	1.27	U/mCi	2057.14	0.981	0.99260	1.721	-0.307	-7.041	8.245	1.022	8.297	_____
14	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	1.721	4.984	-4.984	8.245	1.022	4.148	_____
15	empty								1.368	6.447	-0.113	7.940			_____
16	empty								1.268	4.352	4.506	7.851			_____
17	empty								1.413	-0.569	6.504	7.979			_____
18	empty								1.746	-5.389	4.603	8.266			_____
19	empty								1.922	-7.360	-0.000	8.414			_____
20	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	1.897	-5.267	-5.086	8.393	1.020	3.997	_____
21	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	0.946	-0.549	-5.594	7.559	1.030	4.975	_____
22	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	0.575	3.887	-2.721	7.207	1.034	5.492	_____
23	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	0.425	3.750	2.165	7.059	1.035	5.734	_____
24	empty								0.757	-0.723	5.146	7.382			_____
25	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	1.046	-5.513	1.898	7.651	1.029	4.850	_____
26	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	1.077	-5.051	-3.035	7.679	1.028	4.814	_____
27	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	0.344	-0.640	-4.038	6.979	1.036	5.872	_____
28	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	-0.077	2.422	-0.085	6.543	1.041	6.711	_____
29	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	0.215	-0.887	3.557	6.849	1.038	6.105	_____
30	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	0.351	-4.110	-0.000	6.986	1.036	5.859	_____
31	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	3.761	5.494	-7.832	9.826	1.003	2.866	_____
32	empty								3.761	8.703	-3.974	9.826			_____
33	empty								3.595	9.309	1.338	9.707			_____
34	empty								3.498	7.033	6.094	9.636			_____
35	empty								3.514	2.350	9.021	9.648			_____
36	empty								3.595	-3.217	8.837	9.707			_____
37	empty								3.761	-7.435	6.021	9.826			_____
38	empty								3.761	-9.470	1.362	9.826			_____
39	empty								3.761	-8.703	-3.974	9.826			_____
40	IAAI	3.108	mCi	1.27	U/mCi	2057.14	0.981	0.99260	3.761	-5.501	-7.827	9.826	1.003	2.866	_____
Dose delivered from this plaque (P#2) to:									QA_Point	Dose =	94.309	QA_Check	Dose =	100.438	_____
												Point /	Check =	0.939	_____

EP2340



Plaque Simulator QA Check Geometry



EP2340

