

The ONLY
Y-90 Approved
for BOTH
HCC and
mCRC



FLEXdose SELECT Pathways

Activity Chart

(SIR-Y002 3mL vial)



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SIR-Spheres Y-90 resin microspheres (SIR-Y002 3mL vial)

DAY SEVEN PRE-CALIBRATION*								
	Elapse Time (in hours)	Decay Correction Factor	SIR-Y002 Activity in GBq	SIR-Y002 Activity in GBq per .5mL	SIR-Y002 Activity in mCi	SIR-Y002 Activity in mCi per .5mL	SIR-Y002 Specific Activity Bq Per Sphere^	SIR-Y002 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-186.0	7.473	13.45	2.24	363.56	60.59	492.74	2.03
1:00 AM	-185.0	7.393	13.31	2.22	359.65	59.94	487.44	2.05
2:00 AM	-184.0	7.313	13.16	2.19	355.78	59.30	482.19	2.07
3:00 AM	-183.0	7.235	13.02	2.17	351.95	58.66	477.01	2.10
4:00 AM	-182.0	7.157	12.88	2.15	348.17	58.03	471.88	2.12
5:00 AM	-181.0	7.080	12.74	2.12	344.42	57.40	466.80	2.14
6:00 AM	-180.0	7.004	12.61	2.10	340.72	56.79	461.78	2.17
7:00 AM	-179.0	6.928	12.47	2.08	337.05	56.18	456.81	2.19
8:00 AM	-178.0	6.854	12.34	2.06	333.43	55.57	451.90	2.21
9:00 AM	-177.0	6.780	12.20	2.03	329.84	54.97	447.04	2.24
10:00 AM	-176.0	6.707	12.07	2.01	326.30	54.38	442.23	2.26
11:00 AM	-175.0	6.635	11.94	1.99	322.79	53.80	437.48	2.29
12:00 PM	-174.0	6.564	11.81	1.97	319.31	53.22	432.77	2.31
1:00 PM	-173.0	6.493	11.69	1.95	315.88	52.65	428.12	2.34
2:00 PM	-172.0	6.423	11.56	1.93	312.48	52.08	423.51	2.36
3:00 PM	-171.0	6.354	11.44	1.91	309.12	51.52	418.96	2.39
4:00 PM	-170.0	6.286	11.31	1.89	305.80	50.97	414.45	2.41
5:00 PM	-169.0	6.218	11.19	1.87	302.51	50.42	409.99	2.44
6:00 PM	-168.0	6.151	11.07	1.85	299.26	49.88	405.58	2.47
7:00 PM	-167.0	6.085	10.95	1.83	296.04	49.34	401.22	2.49
8:00 PM	-166.0	6.020	10.84	1.81	292.85	48.81	396.91	2.52
9:00 PM	-165.0	5.955	10.72	1.79	289.70	48.28	392.64	2.55
10:00 PM	-164.0	5.891	10.60	1.77	286.59	47.76	388.41	2.57
11:00 PM	-163.0	5.828	10.49	1.75	283.50	47.25	384.24	2.60

*SIR-Y002 7DPC and 6DPC availability is limited. Contact your area representative for details.
^On average there are 27.3 million microspheres in each SIR-Y002 delivery vial (MS-TR-008).
To calculate the number of spheres drawn, divide activity drawn by the total activity in the vial and multiply by 27,300,000.000

SIR-Spheres Y-90 resin microspheres (SIR-Y002 3mL vial)

DAY SIX PRE-CALIBRATION*								
	Elapse Time (in hours)	Decay Correction Factor	SIR-Y002 Activity in GBq	SIR-Y002 Activity in GBq per .5mL	SIR-Y002 Activity in mCi	SIR-Y002 Activity in mCi per .5mL	SIR-Y002 Specific Activity Bq Per Sphere^	SIR-Y002 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-162.0	5.765	10.38	1.73	280.46	46.74	380.10	2.63
1:00 AM	-161.0	5.703	10.27	1.71	277.44	46.24	376.02	2.66
2:00 AM	-160.0	5.642	10.15	1.69	274.46	45.74	371.97	2.69
3:00 AM	-159.0	5.581	10.05	1.67	271.50	45.25	367.97	2.72
4:00 AM	-158.0	5.521	9.94	1.66	268.58	44.76	364.01	2.75
5:00 AM	-157.0	5.462	9.83	1.64	265.69	44.28	360.10	2.78
6:00 AM	-156.0	5.403	9.72	1.62	262.84	43.81	356.23	2.81
7:00 AM	-155.0	5.345	9.62	1.60	260.01	43.34	352.39	2.84
8:00 AM	-154.0	5.287	9.52	1.59	257.21	42.87	348.60	2.87
9:00 AM	-153.0	5.230	9.41	1.57	254.45	42.41	344.86	2.90
10:00 AM	-152.0	5.174	9.31	1.55	251.71	41.95	341.15	2.93
11:00 AM	-151.0	5.118	9.21	1.54	249.00	41.50	337.48	2.96
12:00 PM	-150.0	5.063	9.11	1.52	246.33	41.05	333.85	3.00
1:00 PM	-149.0	5.009	9.02	1.50	243.68	40.61	330.26	3.03
2:00 PM	-148.0	4.955	8.92	1.49	241.06	40.18	326.70	3.06
3:00 PM	-147.0	4.902	8.82	1.47	238.46	39.74	323.19	3.09
4:00 PM	-146.0	4.849	8.73	1.45	235.90	39.32	319.72	3.13
5:00 PM	-145.0	4.797	8.63	1.44	233.36	38.89	316.28	3.16
6:00 PM	-144.0	4.745	8.54	1.42	230.85	38.48	312.87	3.20
7:00 PM	-143.0	4.694	8.45	1.41	228.37	38.06	309.51	3.23
8:00 PM	-142.0	4.644	8.36	1.39	225.91	37.65	306.18	3.27
9:00 PM	-141.0	4.594	8.27	1.38	223.48	37.25	302.89	3.30
10:00 PM	-140.0	4.544	8.18	1.36	221.08	36.85	299.63	3.34
11:00 PM	-139.0	4.496	8.09	1.35	218.70	36.45	296.41	3.37

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To calculate the number of spheres drawn, divide activity drawn by the total activity in the vial and multiply by 27,300,000.000

SIR-Spheres Y-90 resin microspheres (SIR-Y002 3mL vial)

DAY FIVE PRE-CALIBRATION								
	Elapse Time (in hours)	Decay Correction Factor	SIR-Y002 Activity in GBq	SIR-Y002 Activity in GBq per .5mL	SIR-Y002 Activity in mCi	SIR-Y002 Activity in mCi per .5mL	SIR-Y002 Specific Activity Bq Per Sphere^	SIR-Y002 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-138.0	4.447	8.00	1.33	216.35	36.06	293.22	3.41
1:00 AM	-137.0	4.399	7.92	1.32	214.02	35.67	290.07	3.45
2:00 AM	-136.0	4.352	7.83	1.31	211.72	35.29	286.95	3.48
3:00 AM	-135.0	4.305	7.75	1.29	209.44	34.91	283.86	3.52
4:00 AM	-134.0	4.259	7.67	1.28	207.19	34.53	280.81	3.56
5:00 AM	-133.0	4.213	7.58	1.26	204.96	34.16	277.79	3.60
6:00 AM	-132.0	4.168	7.50	1.25	202.76	33.79	274.80	3.64
7:00 AM	-131.0	4.123	7.42	1.24	200.58	33.43	271.84	3.68
8:00 AM	-130.0	4.079	7.34	1.22	198.42	33.07	268.92	3.72
9:00 AM	-129.0	4.035	7.26	1.21	196.29	32.71	266.03	3.76
10:00 AM	-128.0	3.991	7.18	1.20	194.17	32.36	263.17	3.80
11:00 AM	-127.0	3.948	7.11	1.18	192.09	32.01	260.34	3.84
12:00 PM	-126.0	3.906	7.03	1.17	190.02	31.67	257.54	3.88
1:00 PM	-125.0	3.864	6.96	1.16	187.98	31.33	254.77	3.93
2:00 PM	-124.0	3.822	6.88	1.15	185.95	30.99	252.03	3.97
3:00 PM	-123.0	3.781	6.81	1.13	183.95	30.66	249.32	4.01
4:00 PM	-122.0	3.741	6.73	1.12	181.98	30.33	246.63	4.05
5:00 PM	-121.0	3.700	6.66	1.11	180.02	30.00	243.98	4.10
6:00 PM	-120.0	3.661	6.59	1.10	178.08	29.68	241.36	4.14
7:00 PM	-119.0	3.621	6.52	1.09	176.17	29.36	238.76	4.19
8:00 PM	-118.0	3.582	6.45	1.07	174.27	29.05	236.19	4.23
9:00 PM	-117.0	3.544	6.38	1.06	172.40	28.73	233.65	4.28
10:00 PM	-116.0	3.506	6.31	1.05	170.54	28.42	231.14	4.33
11:00 PM	-115.0	3.468	6.24	1.04	168.71	28.12	228.65	4.37

^On average there are 27.3 million microspheres in each SIR-Y002 delivery vial (MS-TR-008).
To calculate the number of spheres drawn, divide activity drawn by the total activity in the vial and multiply by 27,300,000.000

SIR-Spheres Y-90 resin microspheres (SIR-Y002 3mL vial)

DAY FOUR PRE-CALIBRATION								
	Elapse Time (in hours)	Decay Correction Factor	SIR-Y002 Activity in GBq	SIR-Y002 Activity in GBq per .5mL	SIR-Y002 Activity in mCi	SIR-Y002 Activity in mCi per .5mL	SIR-Y002 Specific Activity Bq Per Sphere^	SIR-Y002 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-114.0	3.431	6.18	1.03	166.90	27.82	226.20	4.42
1:00 AM	-113.0	3.394	6.11	1.02	165.10	27.52	223.76	4.47
2:00 AM	-112.0	3.357	6.04	1.01	163.32	27.22	221.36	4.52
3:00 AM	-111.0	3.321	5.98	1.00	161.57	26.93	218.97	4.57
4:00 AM	-110.0	3.285	5.91	0.99	159.83	26.64	216.62	4.62
5:00 AM	-109.0	3.250	5.85	0.98	158.11	26.35	214.29	4.67
6:00 AM	-108.0	3.215	5.79	0.96	156.41	26.07	211.99	4.72
7:00 AM	-107.0	3.181	5.72	0.95	154.73	25.79	209.71	4.77
8:00 AM	-106.0	3.146	5.66	0.94	153.06	25.51	207.45	4.82
9:00 AM	-105.0	3.112	5.60	0.93	151.42	25.24	205.22	4.87
10:00 AM	-104.0	3.079	5.54	0.92	149.79	24.96	203.01	4.93
11:00 AM	-103.0	3.046	5.48	0.91	148.18	24.70	200.83	4.98
12:00 PM	-102.0	3.013	5.42	0.90	146.58	24.43	198.67	5.03
1:00 PM	-101.0	2.981	5.37	0.89	145.01	24.17	196.53	5.09
2:00 PM	-100.0	2.949	5.31	0.88	143.45	23.91	194.42	5.14
3:00 PM	-99.0	2.917	5.25	0.88	141.91	23.65	192.33	5.20
4:00 PM	-98.0	2.886	5.19	0.87	140.38	23.40	190.26	5.26
5:00 PM	-97.0	2.855	5.14	0.86	138.87	23.14	188.21	5.31
6:00 PM	-96.0	2.824	5.08	0.85	137.38	22.90	186.19	5.37
7:00 PM	-95.0	2.793	5.03	0.84	135.90	22.65	184.18	5.43
8:00 PM	-94.0	2.763	4.97	0.83	134.44	22.41	182.20	5.49
9:00 PM	-93.0	2.734	4.92	0.82	132.99	22.17	180.24	5.55
10:00 PM	-92.0	2.704	4.87	0.81	131.56	21.93	178.31	5.61
11:00 PM	-91.0	2.675	4.82	0.80	130.15	21.69	176.39	5.67

^On average there are 27.3 million microspheres in each SIR-Y002 delivery vial (MS-TR-008).
To calculate the number of spheres drawn, divide activity drawn by the total activity in the vial and multiply by 27,300,000.000

SIR-Spheres Y-90 resin microspheres (SIR-Y002 3mL vial)

DAY THREE PRE-CALIBRATION

	Elapse Time (in hours)	Decay Correction Factor	SIR-Y002 Activity in GBq	SIR-Y002 Activity in GBq per .5mL	SIR-Y002 Activity in mCi	SIR-Y002 Activity in mCi per .5mL	SIR-Y002 Specific Activity Bq Per Sphere^	SIR-Y002 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-90.0	2.646	4.76	0.79	128.75	21.46	174.49	5.73
1:00 AM	-89.0	2.618	4.71	0.79	127.36	21.23	172.61	5.79
2:00 AM	-88.0	2.590	4.66	0.78	125.99	21.00	170.76	5.86
3:00 AM	-87.0	2.562	4.61	0.77	124.64	20.77	168.92	5.92
4:00 AM	-86.0	2.534	4.56	0.76	123.30	20.55	167.10	5.98
5:00 AM	-85.0	2.507	4.51	0.75	121.97	20.33	165.31	6.05
6:00 AM	-84.0	2.480	4.46	0.74	120.66	20.11	163.53	6.12
7:00 AM	-83.0	2.454	4.42	0.74	119.36	19.89	161.77	6.18
8:00 AM	-82.0	2.427	4.37	0.73	118.08	19.68	160.03	6.25
9:00 AM	-81.0	2.401	4.32	0.72	116.81	19.47	158.31	6.32
10:00 AM	-80.0	2.375	4.28	0.71	115.55	19.26	156.61	6.39
11:00 AM	-79.0	2.350	4.23	0.70	114.31	19.05	154.92	6.45
12:00 PM	-78.0	2.324	4.18	0.70	113.08	18.85	153.26	6.53
1:00 PM	-77.0	2.299	4.14	0.69	111.86	18.64	151.61	6.60
2:00 PM	-76.0	2.275	4.09	0.68	110.66	18.44	149.98	6.67
3:00 PM	-75.0	2.250	4.05	0.68	109.47	18.24	148.36	6.74
4:00 PM	-74.0	2.226	4.01	0.67	108.29	18.05	146.77	6.81
5:00 PM	-73.0	2.202	3.96	0.66	107.13	17.85	145.19	6.89
6:00 PM	-72.0	2.178	3.92	0.65	105.97	17.66	143.63	6.96
7:00 PM	-71.0	2.155	3.88	0.65	104.83	17.47	142.08	7.04
8:00 PM	-70.0	2.132	3.84	0.64	103.71	17.28	140.56	7.11
9:00 PM	-69.0	2.109	3.80	0.63	102.59	17.10	139.04	7.19
10:00 PM	-68.0	2.086	3.76	0.63	101.49	16.91	137.55	7.27
11:00 PM	-67.0	2.064	3.71	0.62	100.40	16.73	136.07	7.35

^On average there are 27.3 million microspheres in each SIR-Y002 delivery vial (MS-TR-008).
To calculate the number of spheres drawn, divide activity drawn by the total activity in the vial and multiply by 27,300,000.000

SIR-Spheres Y-90 resin microspheres (SIR-Y002 3mL vial)

DAY TWO PRE-CALIBRATION

	Elapse Time (in hours)	Decay Correction Factor	SIR-Y002 Activity in GBq	SIR-Y002 Activity in GBq per .5mL	SIR-Y002 Activity in mCi	SIR-Y002 Activity in mCi per .5mL	SIR-Y002 Specific Activity Bq Per Sphere^	SIR-Y002 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-66.0	2.042	3.67	0.61	99.32	16.55	134.61	7.43
1:00 AM	-65.0	2.020	3.64	0.61	98.25	16.37	133.16	7.51
2:00 AM	-64.0	1.998	3.60	0.60	97.19	16.20	131.73	7.59
3:00 AM	-63.0	1.976	3.56	0.59	96.15	16.02	130.31	7.67
4:00 AM	-62.0	1.955	3.52	0.59	95.11	15.85	128.91	7.76
5:00 AM	-61.0	1.934	3.48	0.58	94.09	15.68	127.52	7.84
6:00 AM	-60.0	1.913	3.44	0.57	93.08	15.51	126.15	7.93
7:00 AM	-59.0	1.893	3.41	0.57	92.08	15.35	124.79	8.01
8:00 AM	-58.0	1.872	3.37	0.56	91.09	15.18	123.45	8.10
9:00 AM	-57.0	1.852	3.33	0.56	90.11	15.02	122.12	8.19
10:00 AM	-56.0	1.832	3.30	0.55	89.14	14.86	120.81	8.28
11:00 AM	-55.0	1.813	3.26	0.54	88.18	14.70	119.51	8.37
12:00 PM	-54.0	1.793	3.23	0.54	87.23	14.54	118.22	8.46
1:00 PM	-53.0	1.774	3.19	0.53	86.29	14.38	116.95	8.55
2:00 PM	-52.0	1.755	3.16	0.53	85.36	14.23	115.70	8.64
3:00 PM	-51.0	1.736	3.12	0.52	84.45	14.07	114.45	8.74
4:00 PM	-50.0	1.717	3.09	0.52	83.54	13.92	113.22	8.83
5:00 PM	-49.0	1.699	3.06	0.51	82.64	13.77	112.00	8.93
6:00 PM	-48.0	1.680	3.02	0.50	81.75	13.63	110.80	9.03
7:00 PM	-47.0	1.662	2.99	0.50	80.87	13.48	109.61	9.12
8:00 PM	-46.0	1.644	2.96	0.49	80.00	13.33	108.43	9.22
9:00 PM	-45.0	1.627	2.93	0.49	79.14	13.19	107.26	9.32
10:00 PM	-44.0	1.609	2.90	0.48	78.29	13.05	106.11	9.42
11:00 PM	-43.0	1.592	2.87	0.48	77.45	12.91	104.97	9.53

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SIR-Spheres Y-90 resin microspheres (SIR-Y002 3mL vial)

DAY ONE PRE-CALIBRATION								
	Elapse Time (in hours)	Decay Correction Factor	SIR-Y002 Activity in GBq	SIR-Y002 Activity in GBq per .5mL	SIR-Y002 Activity in mCi	SIR-Y002 Activity in mCi per .5mL	SIR-Y002 Specific Activity Bq Per Sphere^	SIR-Y002 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-42.0	1.575	2.83	0.47	76.61	12.77	103.84	9.63
1:00 AM	-41.0	1.558	2.80	0.47	75.79	12.63	102.72	9.74
2:00 AM	-40.0	1.541	2.77	0.46	74.98	12.50	101.62	9.84
3:00 AM	-39.0	1.525	2.74	0.46	74.17	12.36	100.52	9.95
4:00 AM	-38.0	1.508	2.71	0.45	73.37	12.23	99.44	10.06
5:00 AM	-37.0	1.492	2.69	0.45	72.58	12.10	98.37	10.17
6:00 AM	-36.0	1.476	2.66	0.44	71.80	11.97	97.31	10.28
7:00 AM	-35.0	1.460	2.63	0.44	71.03	11.84	96.27	10.39
8:00 AM	-34.0	1.444	2.60	0.43	70.27	11.71	95.23	10.50
9:00 AM	-33.0	1.429	2.57	0.43	69.51	11.58	94.21	10.61
10:00 AM	-32.0	1.413	2.54	0.42	68.76	11.46	93.19	10.73
11:00 AM	-31.0	1.398	2.52	0.42	68.02	11.34	92.19	10.85
12:00 PM	-30.0	1.383	2.49	0.41	67.29	11.22	91.20	10.96
1:00 PM	-29.0	1.368	2.46	0.41	66.57	11.09	90.22	11.08
2:00 PM	-28.0	1.354	2.44	0.41	65.85	10.98	89.25	11.20
3:00 PM	-27.0	1.339	2.41	0.40	65.14	10.86	88.29	11.33
4:00 PM	-26.0	1.325	2.38	0.40	64.44	10.74	87.34	11.45
5:00 PM	-25.0	1.310	2.36	0.39	63.75	10.62	86.40	11.57
6:00 PM	-24.0	1.296	2.33	0.39	63.06	10.51	85.47	11.70
7:00 PM	-23.0	1.282	2.31	0.38	62.39	10.40	84.55	11.83
8:00 PM	-22.0	1.269	2.28	0.38	61.71	10.29	83.64	11.96
9:00 PM	-21.0	1.255	2.26	0.38	61.05	10.18	82.74	12.09
10:00 PM	-20.0	1.241	2.23	0.37	60.39	10.07	81.85	12.22
11:00 PM	-19.0	1.228	2.21	0.37	59.74	9.96	80.97	12.35

^On average there are 27.3 million microspheres in each SIR-Y002 delivery vial (MS-TR-008).
To calculate the number of spheres drawn, divide activity drawn by the total activity in the vial and multiply by 27,300,000.000

SIR-Spheres Y-90 resin microspheres (SIR-Y002 3mL vial)

DAY OF CALIBRATION								
	Elapse Time (in hours)	Decay Correction Factor	SIR-Y002 Activity in GBq	SIR-Y002 Activity in GBq per .5mL	SIR-Y002 Activity in mCi	SIR-Y002 Activity in mCi per .5mL	SIR-Y002 Specific Activity Bq Per Sphere^	SIR-Y002 SIR-Spheres per GBq (reported in millions^)
12:00 AM	-18.0	1.215	2.19	0.36	59.10	9.85	80.10	12.48
1:00 AM	-17.0	1.202	2.16	0.36	58.47	9.74	79.24	12.62
2:00 AM	-16.0	1.189	2.14	0.36	57.84	9.64	78.39	12.76
3:00 AM	-15.0	1.176	2.12	0.35	57.22	9.54	77.54	12.90
4:00 AM	-14.0	1.163	2.09	0.35	56.60	9.43	76.71	13.04
5:00 AM	-13.0	1.151	2.07	0.35	55.99	9.33	75.89	13.18
6:00 AM	-12.0	1.139	2.05	0.34	55.39	9.23	75.07	13.32
7:00 AM	-11.0	1.126	2.03	0.34	54.79	9.13	74.26	13.47
8:00 AM	-10.0	1.114	2.01	0.33	54.20	9.03	73.46	13.61
9:00 AM	-9.0	1.102	1.98	0.33	53.62	8.94	72.67	13.76
10:00 AM	-8.0	1.090	1.96	0.33	53.04	8.84	71.89	13.91
11:00 AM	-7.0	1.079	1.94	0.32	52.47	8.75	71.12	14.06
12:00 PM	-6.0	1.067	1.92	0.32	51.91	8.65	70.35	14.21
1:00 PM	-5.0	1.056	1.90	0.32	51.35	8.56	69.60	14.37
2:00 PM	-4.0	1.044	1.88	0.31	50.80	8.47	68.85	14.52
3:00 PM	-3.0	1.033	1.86	0.31	50.25	8.38	68.11	14.68
4:00 PM	-2.0	1.022	1.84	0.31	49.71	8.29	67.38	14.84
5:00 PM	-1.0	1.011	1.82	0.30	49.18	8.20	66.65	15.00
6:00 PM	0.0	1.000	1.80	0.30	48.65	8.11	65.93	15.17
7:00 PM	1.0	0.989	1.78	0.30	48.13	8.02	65.22	15.33
8:00 PM	2.0	0.979	1.76	0.29	47.61	7.93	64.52	15.50
9:00 PM	3.0	0.968	1.74	0.29	47.10	7.85	63.83	15.67
10:00 PM	4.0	0.958	1.72	0.29	46.59	7.76	63.14	15.84
11:00 PM	5.0	0.947	1.71	0.28	46.09	7.68	62.46	16.01

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To calculate the number of spheres drawn, divide activity drawn by the total activity in the vial and multiply by 27,300,000.000

SIR-Spheres Y-90 resin microspheres (SIR-Y002 3mL vial)

POST-CALIBRATION

	Elapse Time (in hours)	Decay Correction Factor	SIR-Y002 Activity in GBq	SIR-Y002 Activity in GBq per .5mL	SIR-Y002 Activity in mCi	SIR-Y002 Activity in mCi per .5mL	SIR-Y002 Specific Activity Bq Per Sphere^	SIR-Y002 SIR-Spheres per GBq (reported in millions^)
12:00 AM	6.0	0.937	1.69	0.28	45.59	7.60	61.79	16.18
1:00 AM	7.0	0.927	1.67	0.28	45.10	7.52	61.13	16.36
2:00 AM	8.0	0.917	1.65	0.28	44.62	7.44	60.47	16.54
3:00 AM	9.0	0.907	1.63	0.27	44.14	7.36	59.82	16.72
4:00 AM	10.0	0.898	1.62	0.27	43.66	7.28	59.18	16.90
5:00 AM	11.0	0.888	1.60	0.27	43.19	7.20	58.54	17.08
6:00 AM	12.0	0.878	1.58	0.26	42.73	7.12	57.91	17.27
7:00 AM	13.0	0.869	1.56	0.26	42.27	7.04	57.29	17.46
8:00 AM	14.0	0.860	1.55	0.26	41.81	6.97	56.67	17.65
9:00 AM	15.0	0.850	1.53	0.26	41.36	6.89	56.06	17.84
10:00 AM	16.0	0.841	1.51	0.25	40.92	6.82	55.46	18.03
11:00 AM	17.0	0.832	1.50	0.25	40.48	6.75	54.86	18.23
12:00 PM	18.0	0.823	1.48	0.25	40.04	6.67	54.27	18.43
1:00 PM	19.0	0.814	1.47	0.24	39.61	6.60	53.69	18.63
2:00 PM	20.0	0.806	1.45	0.24	39.19	6.53	53.11	18.83
3:00 PM	21.0	0.797	1.43	0.24	38.77	6.46	52.54	19.03
4:00 PM	22.0	0.788	1.42	0.24	38.35	6.39	51.97	19.24
5:00 PM	23.0	0.780	1.40	0.23	37.94	6.32	51.42	19.45
6:00 PM	24.0	0.771	1.39	0.23	37.53	6.25	50.86	19.66

Caution: Federal (USA) law restricts this device to sale by or on the order of a physician. **Indications for Use:** SIR-Spheres® Y-90 resin microspheres are indicated for the local tumor control of unresectable hepatocellular carcinoma (HCC) in patients with no macrovascular invasion, Child Pugh-A cirrhosis, well-compensated liver function, and good performance status. They are also indicated for the treatment of unresectable metastatic liver tumors from primary colorectal cancer with adjuvant intra-hepatic artery chemotherapy (IHAC) of FUDR (Floxuridine). **Warnings / Precautions: Non-Target Delivery of SIR-Spheres Microspheres:** Inadvertent delivery of SIR-Spheres microspheres to extra-hepatic structures such as the esophagus, stomach, duodenum, gallbladder or pancreas may result in radiation injury to these structures. Meticulous angiographic technique must be employed to prevent the non-target delivery of SIR-Spheres microspheres to any extra-hepatic structures. **Radioembolization Induced Liver Disease (REILD):** Delivery of excessive radiation to the normal liver parenchyma may result in REILD. The risk of REILD may also be increased in patients with pre-existing liver disease. Consideration should be given to reducing the prescribed activity of SIR-Spheres microspheres in the following clinical settings: Reduced liver functional reserve due to steatosis, steatohepatitis, hepatitis or cirrhosis, Elevated baseline bilirubin level, Non-selective treatment of small tumor burden (< 5% liver involvement), Small liver volume (< 1.5 L), Prior hepatic resection, Prior liver directed therapy. **Radiation Pneumonitis:** High levels of implanted radiation and/or excessive shunting to the lung may lead to radiation pneumonitis. Limit radiation dose to ≤ 30 Gy per treatment and ≤ 50 Gy cumulatively. **Limited Radiation Dosimetry Planning Precision:** The amount of radiation delivered to HCC targets has been found to differ compared to the amount planned. Similar levels of precision should not be assumed when planning for Y-90 microsphere radiation therapy compared to when planning for external beam radiation therapy. **Side Effects:** Common side effects are fever, transient decrease of hemoglobin, mild to moderate abnormality of liver function tests, abdominal pain, nausea, vomiting, and diarrhea. Potential serious effects due to exposure to high radiation include acute pancreatitis, radiation pneumonitis, acute gastritis, acute cholecystitis and radioembolization induced liver disease (REILD). **Contraindications:** SIR-Spheres microspheres are contraindicated in any patient who has: portal vein thrombosis, ascites or clinical liver failure, markedly abnormal synthetic and excretory liver function tests (LFTs), such as total bilirubin > 2.0 mg/dL or albumin < 3.0 g/dL, > 20% lung shunting of the hepatic artery blood flow, or > 30 Gy radiation absorbed dose to the lungs for a single treatment, or > 50 Gy cumulative radiation absorbed dose to the lungs if the patient is re-treated, as estimated by the 99mTc MAA scan, pre assessment angiogram that demonstrates abnormal vascular anatomy that would result in significant reflux of microspheres to the stomach, pancreas or bowel and had previous external beam radiation therapy to the liver. **Contraindications for Patients with mCRC:** Disseminated extra-hepatic malignant disease, been treated with capecitabine within the two previous months, or who will be treated with capecitabine at any time following treatment with SIR-Spheres microspheres. **Contraindications for Patients with HCC:** Comorbidities or poor overall health (e.g., ECOG performance status rating> 2) which may make the patient a poor candidate for locoregional radiation treatment, disseminated extra-hepatic malignant disease. **General Information:** SIR-Spheres Y-90 resin microspheres may only be distributed to a duly licensed or accredited facility capable of handling therapeutic medical isotopes. This product is radioactive and should thus be handled in accordance with all applicable standards and regulations. **Consult the Instructions for Use (www.sirtex.com/sir-spheres/risks_adverse-events) for a complete listing of indications, contraindications, side effects, warnings, and precautions.**

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