

SIRTeX

SIR-Spheres<sup>®</sup>  
Y-90 resin microspheres



**FLEXdose**  
Delivery Program



*Advancing to the next level.*



# FLEXdose Delivery Program

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Offering 3 different delivery options, 5 days a week, to suit your treatment schedule.

SIR-Spheres® Y-90 resin microspheres is the only SIRT that offers the following:

- **Customized dosing for each clinical situation**

Allows you to administer tailored activity for your patient-specific needs

- **Same day dose draw**

Enables you to draw the appropriate patient-specific activity on the day of treatment

- **Map and treat —Same day, next day, same week**









Every option, 5 days a week, allows for an expedited path from referral to treatment

- **Supports time-sensitive clinical situations**

Offers the flexibility to modify treatment planning

# The activity you want. The coverage you need.

The FLEXibility to deliver the same activity with more or less spheres.

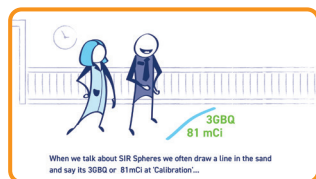
Dose Delivery Options	3 Days Pre-calibration	2 Days Pre-calibration	1 Day Pre-calibration	Day of Calibration
Activity	 7.3* GBq	 5.6* GBq	 4.3* GBq	 3.0** GBq
Dose Draw	↓	↓	↓	↓
1.2 GBq	 ~7 million spheres	 ~9 million spheres	 ~12 million spheres	 ~18 million spheres

**1.2 GBq**  
(example) ←

On average there are 44 million spheres in each SIR-Spheres Y-90 resin microspheres delivery vial with a standard deviation of 2.6 million. Engineering test results on file.

\*All activity based on 8 am delivery Eastern Standard Time  
\*\*Day of calibration at 6 pm Eastern Standard Time

## FLEXdose Delivery Program Animation




QR Reader Required

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# FLEXibility as easy as 3-2-1

## 3 delivery options, 5 days a week

	Time (ET)	GBq	mCi	Million Spheres per GBq
 3 DAYS pre-calibration	8 am	7.281	196.79	6.1
	10 am	7.126	192.58	6.2
	12 pm	6.973	188.46	6.4
	2 pm	6.824	184.43	6.5
	4 pm	6.678	180.49	6.7
	6 pm	6.535	176.62	6.8
	8 pm	6.395	172.84	7.0
 2 DAYS pre-calibration	8 am	5.617	151.81	7.9
	10 am	5.497	148.56	8.1
	12 pm	5.379	145.38	8.3
	2 pm	5.264	142.27	8.4
	4 pm	5.151	139.23	8.6
	6 pm	5.041	136.25	8.8
	8 pm	4.933	133.34	9.0
 1 DAY pre-calibration	8 am	4.333	117.11	10.3
	10 am	4.24	114.6	10.5
	12 pm	4.15	112.15	10.7
	2 pm	4.061	103.75	11.0
	4 pm	3.974	107.4	11.2
	6 pm	3.889	105.11	11.4
	8 pm	3.806	102.86	11.7
Day of calibration	8 am	3.343	90.34	13.3
	10 am	3.271	88.41	13.6
	12 pm	3.201	86.52	13.9
	2 pm	3.133	84.69	14.2
	4 pm	3.066	82.85	14.5
	6 pm	3.0	81.08	14.8
	8 pm	2.936	79.35	15.2
Day after calibration	8 am	2.579	69.69	17.3
	10 am	2.523	68.2	17.6
	12 pm	2.469	66.74	18.0
	2 pm	2.417	65.31	18.4
	4 pm	2.365	63.91	18.8
	6 pm	2.314	62.55	

To calculate the number of spheres drawn from the vial: divide the activity drawn by the total activity in the vial, then multiply that number by 44.48 million.

**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 treatment of unresectable metastatic liver tumors from primary colorectal cancer with adjuvant intrahepatic artery chemotherapy (IHAC) of FUDR (Flouxuridine). **Warnings / Precautions:** Inadvertent delivery of the microspheres to locations other than the intended hepatic tumor may result in local radiation damage. Due to the radioactivity and the significant consequences of misplacing the microspheres in situ, this product must be implanted by physicians who have completed the Sirtex TEC training program. A SPECT scan of the upper abdomen immediately after implantation is recommended. Patients may experience abdominal pain immediately after administration and pain relief may be required. H-2 blocking agents may be administered the day before implantation and continued as needed to reduce gastric complications. **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, radiation hepatitis, and acute cholecystitis. **Contraindications:** SIR-Spheres Y-90 resin microspheres should not be implanted in patients who have either had previous external beam radiation therapy to the liver; ascites or are in clinical liver failure. This device is contraindicated in patients with markedly abnormal synthetic and excretory liver function tests; greater than 20% lung shunting of the hepatic artery blood flow, or >30 Gy radiation absorbed dose to the lungs, as determined by the <sup>99m</sup>Tc MAA scan; disseminated extra-hepatic malignant disease, and portal vein thrombosis. This device should not be implanted in patients determined via angiogram to have an abnormal vascular anatomy that would result in significant reflux of the hepatic arterial blood flow to the stomach, pancreas, or bowel. **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](http://www.sirtex.com)) for a complete listing of indications, contraindications, side effects, warnings, and precautions.**

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