

SIRTeX

SIR-Spheres®  
Y-90 resin microspheres

# 2025 Reimbursement Guide:

**HOSPITAL  
OUTPATIENT**  
(OPPS)

**AMBULATORY  
SURGERY  
CENTER**  
(ASC)

**PHYSICIAN  
SERVICES**  
(MFPS)

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## What is Selective Internal Radiation Therapy (SIRT)

Selective internal radiation therapy (SIRT), also known as radioembolization, is a liver-directed therapy and is typically a two-stage process – the work-up and the treatment.

It requires the involvement of a multidisciplinary team consisting of representatives from most, if not all, of the following specialties: Medical Oncology, Surgical Oncology, Gastroenterology / Hepatology, Nuclear Medicine, Interventional Radiology/Oncology, and Radiation Safety.

SIRT targets liver tumors directly with locally applied radiation, while sparing healthy liver tissue, by using the special tumor's blood supply.

Healthy liver tissue derives about two-thirds of its blood from the portal vein, with one-fifth to one-third of the blood coming from the hepatic artery.

In contrast, liver tumors derive up to 90% of their blood from the hepatic artery, since they need a profuse supply of highly oxygenated blood. The hepatic artery therefore provides an ideal channel for a targeted tumor treatment.

## What are SIR-Spheres® Y-90 resin microspheres

SIR-Spheres® Y-90 resin microspheres are microscopic spheres that are delivered via SIRT to liver tumors. The polymer microspheres with an average diameter of approximately 32.5 microns, are loaded with yttrium-90 (Y-90). After administration to the hepatic artery, SIR-Spheres Y-90 resin microspheres lodge preferentially in the vasculature of the tumor. The beta radiation remains localized, penetrating a mean of 2.5 mm in the tissue, destroying the tumor cells. Due to the half-life of 64.1 hours, most radiation (94%) is delivered in 11 days. The microspheres are biologically inert and are not metabolized or excreted. Each vial is for a single patient use.

SIR-Spheres Y-90 resin microspheres are the ONLY fully FDA PMA-approved yttrium-90 microspheres for the treatment of mCRC in the liver.<sup>1,2,3</sup> The only yttrium-90 microspheres backed by randomized controlled trial (RCT) data, SIR-Spheres Y-90 resin microspheres can be used alone or in combination with chemotherapy.

SIR-Spheres Y-90 resin microspheres are the ONLY yttrium-90 microspheres administered using contrast imaging, ensuring visualization, and confirmation of distribution. Coupled with personalized dosing, and precise infusion, complete procedural control is assured.

Delivered through the hepatic artery, SIR-Spheres Y-90 resin microspheres directly target liver tumors with yttrium-90 beta radiation, minimizing healthy tissue exposure. SIR-Spheres Y-90 resin microspheres have a relatively low density similar to blood, which enhances infusion efficiency, resulting in a homogeneous distribution, that can optimize tumor coverage.

**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 (Floxuridine). **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. **Consult the Instructions for Use ([www.sirtex.com/sir-spheres/risks\\_adverse-events](http://www.sirtex.com/sir-spheres/risks_adverse-events)) for a complete listing of indications, contraindications, side effects, warnings, and precautions.**

# Diagnostic Indications

## ICD-10 CM Diagnosis Codes

### Potential Diagnoses

**C18.0 – C18.9:** Malignant neoplasm of colon

**C19:** Malignant neoplasm of rectosigmoid junction

**C20:** Malignant neoplasm of rectum

**C78.7:** Secondary malignant neoplasm of liver and intrahepatic bile duct

## HCPC Codes for SIR-Spheres Y-90 resin microspheres

**C2616:** Brachytherapy source, non-stranded, yttrium-90, per source

*Note: C2616 should be used with all Medicare FFS claims.*

**S2095:** Transcatheter occlusion or embolization for tumor destruction, percutaneous, any method, using yttrium-90 microspheres

## NCCI Edits

National Correct Coding Initiative (NCCI) Edits may result in coding conflicts for various treatments and procedures.

Providers should carefully review each quarter's NCCI edit updates. NCCI edits may be downloaded from the CMS website at: <https://www.cms.gov/medicare/coding-billing/ncci-medicare>

## Payment Rates

**OPPS:** CMS finalized a CY 2025 conversion factor (CF) of \$89.169 for hospitals that meet the Hospital OQR reporting requirements, and applying the 2 percent reduction to those that do not with a CF equal to \$87.439.

The codes and national average payment rates shown are reflective of the Medicare Hospital Outpatient Prospective Payment and Ambulatory Surgical Center Payment Systems and Quality Reporting Programs, 2025 Final Rule, OPPS Addendum B and ASC Final Addenda. Payment rates do not reflect sequestration reductions.

**MPFS:** The codes and national average payment rates shown are reflective of the Medicare Physician Fee Schedule as outlined in the Calendar Year 2025 Addendum B using 2025 Final MPFS conversion factor (CF) of \$32.3465.

Medicare providers face other cuts known as sequestration (2% reduction) and statutory "Pay-As-You-Go", or PAYGO (4% reduction), due to laws that control federal spending. Although these specific cuts aren't addressed in the MPFS, they could result in a total cut of almost 9% to overall Medicare payments when added to the CF reduction. Congress has acted each year by passing legislation that reduced or eliminated some of these additional cuts and will need to do so again for 2025 payments.

## SIR-Spheres Treatment Phases

**Patient Evaluation** – the patient is assessed after a thorough history and physical as well as blood and diagnostic imaging tests, whether treatment with SIR-Spheres Y-90 resin microspheres is appropriate and if additional preparatory procedures are required. Selective and super-selective vessel assessment via angiography (radiography of vessels after the injection of a radiopaque contrast material via percutaneous insertion of a radiopaque catheter), anatomical imaging, and vascular flow imaging using a diagnostic radioisotope to simulate the administration of SIR-Spheres are performed. If necessary, based on the results, at the time of the evaluation, a coil embolization of any extrahepatic arteries (e.g., gastroduodenal) that would shunt blood flow outside of the treatment target area would be performed.

**Treatment Planning** – the treating physician and/or other specialists (Medical Physicist or Nuclear Radiologist) interpret the Patient Evaluation phase results and prepare a therapeutic SIRT treatment plan. This phase includes clinical planning, dosimetry calculations, and special medical radiation physics or treatment considerations.

**SIR-Spheres Administration** – the patient undergoes angiography to confirm there haven't been changes since the Patient Evaluation phase. SIR-Spheres Y-90 resin microspheres are then administered intra-arterially via percutaneous catheter under imaging guidance in accordance with the treatment plan supported by the Written Directive (an authorized user's [the Interventional or Nuclear Radiologist] written order for the administration of material or radiation to a patient).

## SIR-Spheres Reimbursement Support Services

Some commercial/private payers including Medicare Advantage plans, and State or Managed Medicaid plans may require providers to obtain a pre-determination or prior authorization for SIR-Spheres Y-90 resin microspheres coverage and related procedures. It is recommended that the coverage policies of your payer mix be researched and that applicable pre-determination requirements be understood PRIOR to treating the patient.

***Note: Obtaining a pre-determination / prior authorization is not a guarantee of coverage or payment. Coverage and payment determination can only be made at the time a claim is adjudicated.***

Should you have any questions, please contact the Predetermination team by phone at 888-4-SIRTEX (474-7839) ext. 717 or email [sirtexhelp@sirtex.com](mailto:sirtexhelp@sirtex.com).

For questions related to all other reimbursement questions, please contact the US HEpra team at [USReimbursement@Sirtex.com](mailto:USReimbursement@Sirtex.com).

# HOSPITAL OUTPATIENT (OPPS)

## Phase I: Pre-Treatment

### PRE-PLANNING – MAPPING

The possible coding options listed in this section are based on Medicare guidelines and society recommendations. Medicare base case coding scenarios typical for one mapping and one treatment in the hospital outpatient.

Catheter Placement(s)					
Service		CMS CY25			
Code	Description	SI	Weight	APC	Rate
36245*	Select catheter placement, initial 1st	N	NA	NA	Packaged
36246*	Select catheter placement, initial 2nd	N	NA	NA	Packaged
36247*	Select catheter placement, initial 3rd or more	N	NA	NA	Packaged
36248*	Select catheter placement, initial 2nd, 3rd & beyond	N	NA	NA	Packaged

\*The following codes are bundled into the reimbursement for 37242 whether or not coiling is performed.

Arterial Shunting Coil Embolization (if required)					
Service		CMS CY25			
Code	Description	SI	Weight	APC	Rate
37242*	Arterial emb or occ, RS&I; arterial other than hem or tumor	J1	201.38	5194	\$17,956.72

\*If you are treating a liver tumor (37243) and embolize the gastric artery or gastroduodenal artery as a precaution, on the same day, only code 37243 can be billed, not both 37243 and 37242.

Hepatic Angiogram					
Service		CMS CY25			
Code	Description	SI	Weight	APC	Rate
75726*	Angiography, visceral, RS&I	Q2	60.62	5184	\$5,405.70
75774**	Angiography, selective, RS&I (each add'l vessel)	N	NA	NA	Packaged

\*The ability to bill for angiograms on the same date typically would only be supported when it is diagnostic and separate from the procedure. For example, the following criteria would need to be met: No prior catheter-based angiographic/venographic study is available and a full diagnostic study is performed, and the decision to intervene is based on the diagnostic study, **OR** A prior study is available, but as documented in the medical record: The patient's condition with respect to the clinical indication has changed since the prior study, **OR** There is inadequate visualization of the anatomy and/or pathology, **OR** There is a clinical change during the procedure that requires new evaluation outside the target area of intervention. If supported for billing, then modifier 59 modifier should be appended to any diagnostic angiogram (e.g., 75726, 75774) performed with an intervention (e.g., 37242, 37243) to distinguish a separate and distinct service as there are edits with these services.

\*\*The following codes are bundled into the reimbursement for 37242 whether or not coiling is performed.



### Volume Imaging Options

Service		CMS CY25			
Code	Description	SI	Weight	APC	Rate
76376*	3D Post Scan, not requiring image post-processing	N	NA	NA	Packaged
76377*	3D Post Scan, requiring image post-processing	N	NA	NA	Packaged

\*The following codes are bundled into the reimbursement for 37242 whether or not coiling is performed.

### CT Acquisition (maybe billed in conjunction with CPT 76377)

Service		CMS CY25			
Code	Description	SI	Weight	APC	Rate
74170	CT, abdomen; w & w/o contrast	Q3	2.00	5571	\$178.02
74175	CTA; abdomen & pelvis, w & w/o contrast	Q3	2.00	5571	\$178.02

CT imaging performed during and following the embolization are included services within the embolization code and is not separately reportable, as addressed in CPT Assistant, March 2019.

### Mapping Options

Service		CMS CY25			
Code	Description	SI	Weight	APC	Rate
A9540*	TC-99m per study dose, up to 10	N	NA	NA	Packaged
78801	Planar imaging of multiple areas	S	4.51	5591	\$401.83
78803	SPECT imaging of a single area in a single day	S	14.64	5593	\$1,305.48
78831	SPECT imaging of multiple areas	S	14.64	5593	\$1,305.48
78830	SPECT/CT imaging, single area	S	14.64	5593	\$1,305.48
78832	SPECT/CT imaging of multiple areas	S	16.36	5594	\$1,458.59
78835*	Radiopharmaceutical quantification measurement	N	NA	NA	Packaged

\*The following codes are bundled into the reimbursement for 37242 whether or not coiling is performed. CPT 78835 requires acquisition of SPECT/CT to calculation the measurement. If the calculated shunt values, CPT 78835, are generated from SPECT or planar data, these services are reported with 78999 Unlisted miscellaneous procedure, diagnostic nuclear medicine

# Phase II: SIR-Spheres Y-90 resin microspheres Day of Treatment

## DAY OF TREATMENT

The possible coding options listed in this section are based on Medicare guidelines and society recommendations. Medicare base case coding scenarios typical for one mapping and one treatment in the hospital outpatient.

Catheter Placement(s)					
Service		CMS CY25			
Code	Description	SI	Weight	APC	Rate
36247*	Select cath place, initial 3rd or more	N	NA	NA	Packaged
36248*	Select cath place, initial 2nd or more and beyond	N	NA	NA	Packaged

\*The following codes are bundled into the reimbursement for 37243 whether or not coiling is performed.

Hepatic Angiogram					
Service		CMS CY25			
Code	Description	SI	Weight	APC	Rate
75726*	Angiography, visceral, RS&I	Q2	60.62	5184	\$5,405.70
75774**	Angiography	N	NA	NA	Packaged

\*The ability to bill for angiograms on the same date typically would only be supported when it is diagnostic and separate from the procedure. For example, the following criteria would need to be met: No prior catheter-based angiographic/venographic study is available and a full diagnostic study is performed, and the decision to intervene is based on the diagnostic study, **OR** A prior study is available, but as documented in the medical record: The patient's condition with respect to the clinical indication has changed since the prior study, **OR** There is inadequate visualization of the anatomy and/or pathology, **OR** There is a clinical change during the procedure that requires new evaluation outside the target area of intervention. If supported for billing, then modifier 59 modifier should be appended to any diagnostic angiogram (e.g., 75726, 75774) performed with an intervention (e.g., 37242, 37243) to distinguish a separate and distinct service as there are edits with these services.

\*\*The following codes are bundled into the reimbursement for 37243 whether or not coiling is performed.

SIR-Spheres® Y-90 Resin Microspheres					
Service		CMS CY25			
Code	Description	SI	Weight	APC	Rate
C2616*	Brachytherapy source (yttrium-90 non-stranded) - Medicare	U	196.09	2616	\$17,485.10
S2095**	Transcatheter embo for tumor, using Y-90 microspheres	NA	NA	NA	NA

\*C2616 is only recognized by CMS in OPPS and ASC.

C2616 and 37243 must be billed together to show that Y90 is an intensive medical device.

**C2616 should be billed with either modifier 59 or XU when billed on the same day as the post imaging codes due to NCCI edits.**

\*\*S2095 is a BCBSA developed code occasionally used by commercial and Medicare Advantage plans. S2095 is a procedure code.

S2095 **DOES NOT** have a CMS allowable.

## Tumor Embolization

Service		CMS CY25			
Code	Description	SI	Weight	APC	Rate
37243*	Vascular emb or occ, inclusive of all RS&I, intraprocedural road mapping, and imaging guidance necessary to complete the intervention; for tumors	J1	127.18	5193	\$11,340.57

\*CPT 37243 is a device intensive code in the facility setting, must be reported with a device HCPCS code, or will be denied.

## Microspheres Administration: Authorized User Codes (AU)

Service		CMS CY25			
Code	Description	SI	Weight	APC	Rate
77370	Special Medical Radiation Physics Consultation	S	1.49	5611	\$132.77
77470 <sup>1</sup>	Special Treatment Procedure	S	6.49	5623	\$578.47
77300	Basic Dosimetry Calculation	S	1.49	5611	\$132.77
79445 <sup>2</sup>	Radiopharmaceutical therapy, intra-arterial particulate admin (1 doctor model (IR/AU))	S	2.51	5661	\$224.13
77778 <sup>3</sup>	Interstitial radiation source application; complex (2 Doctor model IR with separate AU)	S	7.79	5624	\$693.81
77399	Unlisted procedure medical radiation physics, dosimetry (fusion)	S	16.36	5611	\$132.77

- Special treatment procedure used for brachytherapy and in circumstances requiring extra work over and above basic dosimetry calculation: Patient with previous chemo, receiving concurrent chemo, or external beam radiation to the body/liver. AU must review the current CT scan, liver function studies, and ECOG performance status to determine the % yttrium-90 dose to be adjusted taking into account previous treatments. Often used as a re-treatment code. Should be supported by clinical treatment notes.
- Do NOT code CPT 79445 for the injection of TC99 MAA on the mapping day as this is considered part of the nuclear medicine exam.
- The physician will bill either 79445 or 77778, whichever is most appropriate per the physician and role in the procedure. There is a Medicare NCCI edit with 37243 and 77778.

## Post Treatment Imaging (Provider Preference)

Service		CMS CY25			
Code	Description	SI	Weight	APC	Rate
78801	Planar imaging of multiple areas	S	4.51	5591	\$401.83
78803	SPECT imaging of a single area in a single day	S	14.64	5593	\$1,305.48
78831	SPECT imaging of multiple areas	S	14.64	5593	\$1,305.48
78814	Tumor imaging, PET/CT	S	16.36	5594	\$1,458.59
78830	SPECT/CT imaging, single area	S	14.64	5593	\$1,305.48
78832	SPECT/CT imaging of multiple areas	S	16.36	5594	\$1,458.59
77295	3D radiotherapy plan (MIM)	S	15.35	5613	\$1,368.26

If performing post imaging on the same day as the Y-90 treatment due to NCCI edits the modifier 59 or XU MUST be attached to CPT code C2616 so that it is not bundled into the post imaging reimbursement.

# AMBULATORY SURGERY CENTER (ASC)

## Phase I: Pre-Treatment

### PRE-PLANNING – MAPPING

The possible coding options listed in this section are based on Medicare guidelines and society recommendations. Medicare base case coding scenarios typical for one mapping and one treatment in the ASC.

Catheter Placement(s)				
Service		CMS CY25		
Code	Description	SI	Weight	Rate
36245*	Select catheter placement, initial 1st	N1	NA	Packaged
36246*	Select catheter placement, initial 2nd	N1	NA	Packaged
36247*	Select catheter placement, initial 3rd or more	N1	NA	Packaged
36248*	Select catheter placement, initial 2nd, 3rd & beyond	N1	NA	Packaged

\*The following codes are bundled into the reimbursement for 37242 whether or not coiling is performed. The codes above are separately reimbursed in an OBL setting when coiling is not performed as part of the mapping procedure.

Arterial Shunting Coil Embolization (if required)				
Service		CMS CY25		
Code	Description	SI	Weight	Rate
37242*	Arterial emb or occ, RS&I; arterial other than hem or tumor	J8	216.07	\$11,860.98

\*If you are treating a liver tumor (37243) and embolize the gastric artery or gastroduodenal artery as a precaution, on the same day, only code 37243 can be billed, not both 37243 and 37242.

Hepatic Angiogram				
Service		CMS CY25		
Code	Description	SI	Weight	Rate
75726*	Angiography, visceral, RS&I	N1	NA	Packaged
75774*	Angiography, selective, RS&I (each add'l vessel)	N1	NA	Packaged

\*The following codes are bundled into the reimbursement for 37242 whether or not coiling is performed.

### Volume Imaging Options

Service		CMS CY25		
Code	Description	SI	Weight	Rate
76376*	3D Post Scan, not requiring image post-processing	N1	NA	Packaged
76377*	3D Post Scan, requiring image post-processing	N1	NA	Packaged

\*The following codes are bundled into the reimbursement for 37242 whether or not coiling is performed.

### CT Acquisition (maybe billed in conjunction with CPT 76377)

Service		CMS CY25		
Code	Description	SI	Weight	Rate
74170	CT, abdomen; w & w/o contrast	Z2	1.76	\$96.71
74175	CTA; abdomen & pelvis, w & w/o contrast	Z2	1.76	\$96.71

### Mapping Options

Service		CMS CY25		
Code	Description	SI	Weight	Rate
A9540*	TC-99m per study dose, up to 10	N1	NA	Packaged
78801	Planar imaging of multiple areas	Z2	3.95	\$216.76
78803	SPECT imaging of a single area in a single day	Z2	12.98	\$712.70
78831	SPECT imaging of multiple areas	Z2	12.98	\$712.70
78830	SPECT/CT imaging, single area	Z2	12.98	\$712.70
78832	SPECT/CT imaging of multiple areas	Z2	14.27	\$783.26
78835*	Radiopharmaceutical quantification measurement	N1	NA	Packaged

\*The following codes are bundled into the reimbursement for 37242 whether or not coiling is performed. CPT 78835 requires acquisition of SPECT/CT to calculation the measurement. If the calculated shunt values, CPT 78835, are generated from SPECT or planar data, these services are reported with 78999 Unlisted miscellaneous procedure, diagnostic nuclear medicine

# Phase II: SIR-Spheres Y-90 resin microspheres Day of Treatment

## DAY OF TREATMENT

The possible coding options listed in this section are based on Medicare guidelines and society recommendations. Medicare base case coding scenarios typical for one mapping and one treatment in the ASC.

Catheter Placement(s)				
Service		CMS CY25		
Code	Description	SI	Weight	Rate
36247*	Select cath place, initial 3rd or more	N1	NA	Packaged
36248*	Select cath place, initial 2nd or more and beyond	N1	NA	Packaged

\*The following codes are bundled into the reimbursement for 37243 whether or not coiling is performed.

Hepatic Angiogram				
Service		CMS CY25		
Code	Description	SI	Weight	Rate
75726*	Angiography, visceral, RS&I	N1	NA	Packaged
75774*	Angiography, selective, RS&I (each add'l vessel)	N1	NA	Packaged

\*The following codes are bundled into the reimbursement for 37243 whether or not coiling is performed.

SIR-Spheres® Y-90 Resin Microspheres				
Service		CMS CY25		
Code	Description	SI	Weight	Rate
C2616*	Brachytherapy source (yttrium-90 non-stranded) - Medicare	H2	NA	\$17,485.10
S2095**	Transcatheter embo for tumor destruction using Y-90 microspheres	NA	NA	NA

\*C2616 is only recognized by CMS in OPPI and ASC.

C2616 and 37243 must be billed together to show that Y90 is an intensive medical device.

**C2616 should be billed with either modifier 59 or XU when billed on the same day as the post imaging codes due to NCCI edits.**

\*\*S2095 is a BCBSA developed code occasionally used by commercial and Medicare Advantage plans. S2095 is a procedure code.

S2095 **DOES NOT** have a CMS allowable.

Tumor Embolization				
Service		CMS CY25		
Code	Description	SI	Weight	Rate
37243*	Vascular emb or occ, inclusive of all RS&I, intraprocedural road mapping, and imaging guidance necessary to complete the intervention; for tumors	J8	118.96	\$6,530.20

\*CPT 37243 is a device intensive code in the facility setting, must be reported with a device HCPCS code, or will be denied.

### Microspheres Administration: Authorized User Codes (AU)

Service		CMS CY25		
Code	Description	SI	Weight	Rate
77370	Special Medical Radiation Physics Consultation	Z2	1.30	\$71.13
77470 <sup>1</sup>	Special Treatment Procedure	Z3	NA	\$37.20
77300	Basic Dosimetry Calculation	Z3	NA	\$32.99
79445 <sup>2</sup>	Radiopharmaceutical therapy, intra-arterial particulate admin (1 doctor model (IR/AU))	Z2	2.19	\$120.32
77778 <sup>3</sup>	Interstitial radiation source application; complex (2 Doctor model IR with separate AU)	Z2	6.85	\$376.27
77399	Unlisted procedure medical radiation physics, dosimetry (fusion)	Z2	1.30	\$71.13

1. Special treatment procedure used for brachytherapy and in circumstances requiring extra work over and above basic dosimetry calculation: Patient with previous chemo, receiving concurrent chemo, or external beam radiation to the body/liver. AU must review the current CT scan, liver function studies, and ECOG performance status to determine the % yttrium-90 dose to be adjusted taking into account previous treatments. Often used as a re-treatment code. Should be supported by clinical treatment notes.
2. Do NOT code CPT 79445 for the injection of TC99 MAA on the mapping day as this is considered part of the nuclear medicine exam.
3. The physician will bill either 79445 or 77778, whichever is most appropriate per the physician and role in the procedure. There is a Medicare NCCI edit with 37243 and 77778.

### Post Treatment Imaging (Provider Preference)

Service		CMS CY25		
Code	Description	SI	Weight	Rate
78801	Planar imaging of multiple areas	Z2	3.95	\$216.76
78803	SPECT imaging of a single area in a single day	Z2	12.98	\$712.70
78831	SPECT imaging of multiple areas	Z2	12.98	\$712.70
78814	Tumor imaging, PET/CT	Z2	14.27	\$783.26
78830	SPECT/CT imaging, single area	Z2	12.98	\$712.70
78832	SPECT/CT imaging of multiple areas	Z2	14.27	\$783.26
77295	3D radiotherapy plan (MIM)	Z3	NA	\$249.39

If performing post imaging on the same day as the Y-90 treatment due to NCCI edits the modifier 59 or XU MUST be attached to CPT code C2616 so that it is not bundled into the post imaging reimbursement.

# PHYSICIAN SERVICES (MFPS)

## Phase I: Pre-Treatment

### PRE-PLANNING – MAPPING

Medicare base case coding scenarios typical for one mapping and one treatment. The possible coding options listed in this section are based on Medicare guidelines and society recommendations for physician billing in either a hospital or ASC setting.

#### Catheter Placement(s)

Service		CMS CY25	
Code	Description	RVUs	Rate
36245	Select catheter placement, initial 1st	6.94	\$224.16
36246	Select catheter placement, initial 2nd	7.38	\$238.72
36247	Select catheter placement, initial 3rd or more	8.71	\$281.74
36248	Select catheter placement, initial 2nd, 3rd & beyond	1.42	\$45.93

#### Arterial Shunting Coil Embolization (if required)

Service		CMS CY25	
Code	Description	RVUs	Rate
37242*	Arterial emb or occ, RS&I; arterial other than hemorrhage or tumor	13.89	\$449.29

\*If you are treating a liver tumor (37243) and embolize the gastric artery or gastroduodenal artery as a precaution, on the same day, only code 37243 can be billed, not both 37243 and 37242.

#### Hepatic Angiogram

Service		CMS CY25	
Code	Description	RVUs	Rate
75726-26	Angiography, visceral, RS&I	2.80	\$90.57
75774-26	Angiography, selective, RS&I (each add'l vessel)	1.36	\$43.99



### Volume Imaging Options

Service		CMS CY25	
Code	Description	RVUs	Rate
76376-26	3D Post Scan, not requiring image post-processing	0.28	\$9.06
76377-26	3D Post Scan, not requiring image post-processing	1.12	\$36.23

### CT Acquisition (maybe billed in conjunction with CPT 76377)

Service		CMS CY25	
Code	Description	RVUs	Rate
74170-26	CT, abdomen; w & w/o contrast	1.96	\$63.40
74175-26	CTA; abdomen & pelvis, w & w/o contrast	2.56	\$82.81

### Mapping Options

Service		CMS CY25	
Code	Description	RVUs	Rate
78801-26	Planar imaging of multiple areas	1.00	\$32.35
78803-26	SPECT imaging of a single area in a single day	1.48	\$47.87
78831-26	SPECT imaging of multiple areas	2.49	\$80.54
78830-26	SPECT/CT imaging, single area	1.99	\$64.37
78832-26	SPECT/CT imaging of multiple areas	2.86	\$92.51
78835-26	Radiopharmaceutical quantification measurement	0.63	\$20.38

## Phase II: SIR-Spheres Y-90 resin microspheres Day of Treatment

### DAY OF TREATMENT

Medicare base case coding scenarios typical for one mapping and one treatment. The possible coding options listed in this section are based on Medicare guidelines and society recommendations for physician billing in either a hospital or ASC setting.

#### Catheter Placement(s)

Service		CMS CY25	
Code	Description	RVUs	Rate
36247	Select cath place, initial 3rd or more	8.71	\$281.74
36248	Select cath place, initial 2nd or more and beyond	1.42	\$45.93

#### Hepatic Angiogram

Service		CMS CY25	
Code	Description	RVUs	Rate
75726-26	Angiography, visceral, RS&I	2.80	\$90.57
75774-26	Angiography, visceral, RS&I	1.36	\$43.99

#### SIR-Spheres® Y-90 Resin Microspheres

Service		CMS CY25	
Code	Description	RVUs	Rate
C2616	Brachytherapy source (yttrium-90 non-stranded) - Medicare	NA	NA
S2095	Transcatheter embo for tumor destruction using Y-90 microspheresspheres&l	NA	NA

#### Tumor Embolization

Service		CMS CY25	
Code	Description	RVUs	Rate
37243	Vascular emb or occ, inclusive of all RS&I, intraprocedural road mapping, and imaging guidance necessary to complete the intervention; for tumors	16.41	\$530.97

### Microspheres Administration: Authorized User Codes (AU)

Service		CMS CY25	
Code	Description	RVUs	Rate
77263 <sup>1</sup>	Treatment Planning; complex	5.10	\$164.97
77470-26 <sup>2</sup>	Special Treatment Procedure	3.23	\$104.48
77300-26	Basic Dosimetry Calculation	0.99	\$32.02
79445-26 <sup>3</sup>	Radiopharmaceutical therapy, intra-arterial particulate admin (1 doctor model (IR/AU))	3.26	\$105.45
77778-26 <sup>4</sup>	Interstitial radiation source application; complex (2 Doctor model IR with separate AU)	13.95	\$451.23
77399-26	Unlisted procedure medical radiation physics, dosimetry (fusion)	NA	NA

1. Use of 77263 requires a written order by the physician. Hospitals and ASCs cannot bill for this code, only the facility physician.
2. Special treatment procedure used for brachytherapy and in circumstances requiring extra work over and above basic dosimetry calculation: Patient with previous chemo, receiving concurrent chemo, or external beam radiation to the body/liver. AU must review the current CT scan, liver function studies, and ECOG performance status to determine the % yttrium-90 dose to be adjusted taking into account previous treatments. Often used as a re-treatment code. Should be supported by clinical treatment notes.
3. Do NOT code CPT 79445 for the injection of TC99 MAA on the mapping day as this is considered part of the nuclear medicine exam.
4. The physician will bill either 79445 or 77778, whichever is most appropriate per the physician and role in the procedure. There is a Medicare NCCI edit with 37243 and 77778.


### Post Treatment Imaging (Provider Preference)

Service		CMS CY25	
Code	Description	RVUs	Rate
78801-26	Planar imaging of multiple areas	1.00	\$32.35
78803-26	SPECT imaging of a single area in a single day	1.48	\$47.87
78831-26	SPECT imaging of multiple areas	2.49	\$80.54
78814-26	Tumor imaging, PET/CT	3.01	\$97.36
78830-26	SPECT/CT imaging, single area	1.99	\$64.37
78832-26	SPECT/CT imaging of multiple areas	2.86	\$92.51
77295-26	3D radiotherapy plan (MIM)	6.81	\$220.28

## References

1. CPT descriptors have been shortened for purposes of brevity. See your CPT Guide for full descriptors and coding guidelines.
2. Medicare requires hospitals to report packaged services, no separate payment is made, on the claim for utilization tracking and ratesetting purposes.
3. Physician “Facility” payment refers to procedures performed in the facility setting (hospital or ASC); physicians receive payment under the Facility rate for services performed in the Facility site of service.
4. OPPS Status Indicators
  - N: No separate payment – packaged
  - NA: Code not applicable for payment
  - J1: Comprehensive APC – accounts for all costs and services typically involved in the provision of the complete primary procedure (including all secondary services performed on the day of the comprehensive service with status indicators N, Q, S, T, etc.)
  - Q1: Packaged APC payment if billed on the same claim with SI = S, T, or V
  - Q2/T: Packaged APC payment if billed on the same date of service as a HCPCS code assigned status indicator “T” or “J1”. In other circumstances, payment is made through a separate APC payment.
  - Q3: Composite APC assignment when similar modality services are billed on the same claim for the same DOS.
  - S: Procedure or service discounted when multiple.
  - U: Brachytherapy source – paid separately.
5. ASC Status Indicators
  - N1: Packaged service, no separate payment made.
  - H2: Brachytherapy source paid separately when provided integral to a surgical procedure on ASC list, payment based on OPPS rate.
  - J8: Device intensive procedure, paid at adjusted rate.
  - Z2: Radiology or diagnostic service paid separately when provided integral to a surgical procedure on ASC list, payment based on OPPS relative payment weight.
  - Z3: Radiology or diagnostic service paid separately when provided integral to a surgical procedure on ASC list, payment on MFFS non-facility PE RVU.

**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 (Floxadine). **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/sir-spheres/risks\\_adverse-events](http://www.sirtex.com/sir-spheres/risks_adverse-events)) for a complete listing of indications, contraindications, side effects, warnings, and precautions.**

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