

SIROSTM **Activity Preparation Poster**

The information and steps described below are recommended for the preparation of the SIR-Spheres® Y-90 resin microspheres within a Nuclear Medicine department. Read the SIR-Spheres Y-90 resin microspheres Instructions for Use, Training Manual and Technical Descriptions before preparing SIR-Spheres Y-90 resin microspheres hereinafter referred to as SIR-Spheres.

PRECAUTIONS:

- Time, distance and shielding considerations should be used to minimize exposure to radiation.
- Ensure that the distance between any puncture holes in the septum of the D-Vial are at least 2 mm apart.



Additional hospital accessories required:

- Forceps
- One 20 mL luer lock syringe
- 20 mL of 5% dextrose / glucose solution (D5W/G5) or water for injection

- Alcohol swabs
- Une 5 mL luer lock syringe

1. UNPACKING PROCESS

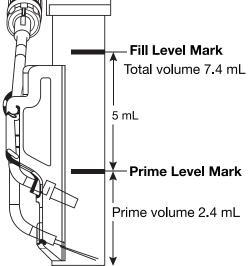


- **B.** Ensure vent needle tip is above the upper fill level mark.
- **C.** Remove the blue cap from D line
- air in the D line.
- the D line. Fill D-Vial to fill level mark. Ensure there is no
- **E.** Disconnect priming syringe from D line; attach a new blue cap to the D line connector.
- **G.** Connect same priming



prime level mark. Ensure here is no air in the C line. Do not draw below the prime level mark.





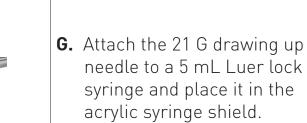
3. DOSE DRAW PROCESS

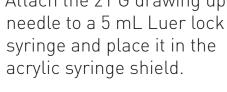
- **A.** Invert the lead pot and shake vigorously before opening to re-suspend the SIR-Spheres, which will have settled during shipping.
- **B.** Quickly open the lead pot and remove the glass shipping vial using forceps.
- **C.** Determine the total activity of SIR-Spheres microspheres in the glass shipping vial using an appropriate ion chamber (dose calibrator) and then

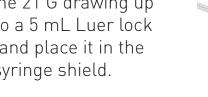


to the 25 G vent needle. Insert it through the rubber septum of the shipping vial to create a vent. Ensure that the tip of the needle is well clear of the contents.

F. Connect the 0.22 micron filter







H. Using the shielded syringe

J. Withdraw the needle from the septum and re-cap the needle using forceps. Set aside on the bench top.

syringe to the C line.

- **K.** Using forceps, swirl the glass shipping vial to re-suspend the microspheres and measure the activity remaining in the shipping vial with the dose calibrator.
- L. Replace the glass shipping vial into the lead pot.
- **M.** Subtract the activity remaining in the shipping vial from



- **0.** Once the correct activity has been obtained, remove the vent needle from the shipping vial, and secure the lead pot cover.
- **P.** Transfer the SIR-Spheres from the 5 mL syringe into the vented D-Vial.
- **Q.** If the volume of fluid in the D-Vial does not reach the fill level mark. use a 25 G needle to add D5W or sterile water for injection until the fluid reaches the fill level mark. The volume between the prime



return the glass shipping vial to the lead pot.

- **D.** Determine the volume of SIR-Spheres suspension that needs to be withdrawn from the glass shipping vial to provide the intended patient-specific activity of SIR-Spheres.
- **E.** Partially peel back the aluminum seal of the SIR-Spheres glass shipping vial and wipe the septum with an alcohol swab.



and 21 G needle, puncture the septum of the glass shipping vial and quickly draw back and forth at least six times in order to resuspend the SIR-Spheres thoroughly.



I. Quickly withdraw the determined volume of SIR-Spheres suspension that will provide the intended patient specific activity. Prior to removing syringe needle from the shipping vial, draw some air through needle into syringe to draw spheres within needle

up into syringe.



the starting total activity, to determine the amount of activity that has been drawn up into the 5 mL syringe.

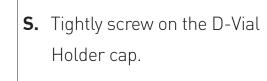
N. If the amount of activity that has been drawn up into the 5 mL syringe is not correct, transfer the SIR-Spheres suspension back into the glass shipping vial and repeat the steps above to obtain the prescribed level of activity.



level mark and fill level mark is 5 mL.

Do not exceed the fill level mark.

R. Remove all needles from the D-Vial septum.



T. The patient-specific activity of SIR-Spheres is now ready for transport to the angiography suite in which the implantation will be performed.



4. SYMBOLS GLOSSARY DEFINITIONS

Symbol	Definition	Symbol	Definition	Symbol	Definition	Symbol	Definition
	Manufacturer	LOT	Lot or batch code	(Ares)	Product is not made with natural rubber latex	UDI	Unique Device Identifier
M	Date of Manufacture		Use by date		Do not use if package is damaged	CH REP	Authorized representative in Switzerland
Ĩ	Consult instructions for use	STERILE	Sterilized using irradiation	Ť	Keep dry	EC REP	Authorized representative in the European Community
Â	Caution	STERILE	Sterilized using steam	15°C	Temperature limit	C € 2797	CE mark + Notified Body identification number
QTY	Quantity	2	Single Use Only. Indicates a medical device that is intended for use on a single patient during a single procedure.	RADDACTIVE	Ionizing radiation	MR	MR Safe
REF	Catalog number	STEPRINE	Do not re-sterilize	STERILE E0	Sterilized using Ethylene Oxide	MD	Medical Device
	Importer	\bigcirc	Protective Barrier	SN	Serial number		
\bigcirc	Sterile Barrier	NON	Non-Sterile	0%	Relative Humidity Limit		

Manufacturer

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Intended Purpose: SIR-Spheres Y-90 resin microspheres are intended for Brachytherapy and are permanently implanted via the hepatic artery to deliver therapy to hepatic tumors. Indications For Use: SIR-Spheres Y-90 resin microspheres are indicated for the treatment of sectable hepatocellular carcinoma (HCC) or unresectable metastatic liver tumors from primary colorectal cancer (mCRC) in patients refractory to or intolerant of chemotherapy. Consult the Instructions For Use (www.sirtex.com) for a complete listing of indications, contraindications, warnings, precautions, adverse events, and risks. October 2024