



Radioactive Material Licensing Radiation Section

Y-90 Microspheres Medical Use Training, Experience and Preceptor Attestation

Radioactive Materials License Number:	
Proposed Authorized User Name:	

PART A – TRAINING AND EXPERIENCE

Section 1 - AUTHORIZED USER (AU) PATHWAY

Select ONE (Provide the radioactive material (RAM) license number or attach the out of state RAM license in which the proposed authorized user (AU) is one of the following):

- ☐ AU for Y-90 microspheres per Title 25 Texas Administrative Code 25 TAC §289.256 (q); **OR**
- ☐ AU for use of sources for manual brachytherapy per 25 TAC §289.256 (rr) ; **OR**
- ☐ AU for use of unsealed byproduct material for which a written directive is required per §289.256 (kk)

If you meet one of the items in this section, proceed to PART B.

Section 2 – CERTIFICATION, TRAINING AND EXPERIENCE PATHWAY

Experience in Diagnostic Radiology and Interventional Radiology

Select ONE (Attach a copy of the Board Certification):

- ☐ Board Certification in Interventional Radiology/Diagnostic Radiology by the American Board of Radiology (ABR); **OR**
- ☐ Board Certification in Diagnostic Radiology by the ABR and Board Certification in Interventional Radiology by the American Osteopathic Board of Radiology (AOBR); **OR**
- ☐ Board Certification in Diagnostic Radiology by the AOBR and Board Certification in Interventional Radiology by the American Osteopathic Board of Radiology (AOBR); **OR**



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- ☐ Three years of supervised clinical experience in Diagnostic Radiology and One year of supervised clinical experience in Interventional Radiology (document in Section 3); **AND**
- ☐ Has 80 hours of classroom and laboratory training for byproduct material requiring a written directive, applicable to Y-90 microspheres which may have occurred concurrent with Diagnostic Radiology and/or Interventional Radiology experience (document in Section 4), **AND**
- ☐ Has work experience under the supervision of an AU for Y-90 microsphere brachytherapy or training provided by a Y-90 microsphere manufacturer representative (document in Section 5), **AND**
- ☐ Has work experience or training under the supervision of an AU for the type of Y-90 microsphere brachytherapy the applicant is requesting (document in Section 6).

Complete Sections 3 through 6. Section 3 is N/A if individual has a Board Certification listed in Section 2.

Section 3 - SUPERVISED CLINICAL EXPERIENCE

Description of Experience	Name of Supervising Individual	Location and Corresponding RAM License Number	Dates of Experience



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Section 4 – 80 HOURS OF CLASSROOM AND LABORATORY TRAINING

Document 80 hours of classroom and laboratory training for byproduct material requiring a written directive, applicable to Y-90 microspheres if the board certifications listed in Section 2.A. are not recognized by the Nuclear Regulatory Commission. The NRC-approved ABR and AOBR certificates contain the words "AU eligible" above the ABR or AOBR seal.

Description of Training	Location of Training	Clock Hours	Dates of Training
Radiation Physics and Instrumentation			
Radiation Protection			
Mathematics pertaining to the use and measurement of radioactivity			
Radiation Biology			

Section 5 - WORK EXPERIENCE ENCOMPASSING ITEMS FROM SECTION 2 ITEM C

Description of Experience/Training	Location of Experience/Training	Dates of Experience/Training
Ordering, receiving, and unpacking radioactive materials safely and performing the related radiation surveys		
Performing quality control procedures on instruments used to determine the activity of Y-90 microspheres and performing checks for proper operation of survey meters		
Calculating and measuring the activity and safely preparing the Y-90 microspheres to be delivered to the patient or human research subject		
Using procedures to control and to contain spilled byproduct		



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material, including Y-90 microspheres, safely and using proper decontamination procedures		
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Section 6 - WORK EXPERIENCE/TRAINING ENCOMPASSING ITEMS FROM SECTION 2 ITEM D

Description of Experience/Training	Location of Experience/Training	Dates of Experience/Training
Preparing and administering patient dosage		
Using administrative controls to prevent a medical event involving the use of byproduct material		
Evaluation of patient or research subject's treatments to determine whether the administered dosage was in accordance with the written directive or if a medical event has occurred		

PART B - SUPERVISED CLINICAL TRAINING AND EXPERIENCE

Provide training in the operation of the delivery system, safety procedures, and clinical use for the type of Y-90 microsphere for which authorization is sought. Clinical use training includes at least 3 hands-on patient cases for each type of Y-90 microsphere requested.

Radionuclide	Type of Use	No. of Cases Involving Personal Participation	Name of Supervising Individual	Location and Corresponding License Number	Dates of Experience



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PART C - AUTHORIZED USER PRECEPTOR ATTESTATION

**(only required for those proposed Authorized Users required to complete
PART A, Sections 2-6)**

I certify that the proposed Authorized User has successfully completed PART A, Sections 2 through 6, and PART B (if not performed by vendor) per the most recent revision of the applicable Nuclear Regulatory Commission Yttrium-90 Microsphere Brachytherapy Sources and Devices Licensing Guidance.

AU Name (Print clearly)	AU Signature	Licensee Phone Number	RAM License Number	Date

PART D - VENDOR PRECEPTOR ATTESTATION (if applicable)

I certify that the proposed Authorized User has successfully completed vendor training covering all required topics per the most recent revision of the applicable Nuclear Regulatory Commission Yttrium-90 Microsphere Brachytherapy Sources and Devices Licensing Guidance.

Vendor Name Preceptor (Print clearly)	Signature – Vendor Preceptor	Vendor Company Name	Date

Note: Training and Experience, including board certification, must have been obtained within the 7 years preceding the date of application or the individual must have obtained related continuing education and experience since the required training and experience was completed.

Yttrium-90 Microsphere Brachytherapy Sources and Devices TheraSphere® and SIR-Spheres® Licensing Guidance, April 20, 2021, Revision 10.2