	RM 313A	(AUT) U. S. NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB: NO. 3150-0120	EXPIRES: 07/31/2026
(07-31-202 NUCLEAR R STATES OF INT ****	,	AUTHORIZED USER TRAINING, EXPERIENCE, AND PRECEPTOR ATTESTATION (for uses defined under 35.300) [10 CFR 35.57, 35.390, 35.392, 35.394, and 35.396]	Estimated burden per response to comply with this mandatory collection reque necessary to determine that the applicant is qualified and that adequate proce safety. Send comments regarding burden estimate to the FOIA, Library, and II U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by er the OMB Reviewer at: OMB Office of Information and Regulatory Affairs, (31 Regulatory Commission, 725 17th Street NW, Washington, DC 20503; email: may not conduct or sponsor, and a person is not required to respond to, a co requesting or requiring the collection displays a currently valid OMB control nu	edures exist to protect the public health and nformation Collections Branch (T-6 A10M), mail to Infocollects.Resource@nrc.gov, and 50-0120), Attn: Desk Officer for the Nuclear o <u>ira submission@omb.eop.gov</u> . The NRC silection of information unless the document
Name o	of Propo	osed Authorized User	State or Territory Where Licensed	
Aditya	Halthor	re, M.D.	District of Columbia	
Reque	sted A	uthorization(s) (check all that apply):		
	35.300) Use of unsealed byproduct material for whic	h a written directive is required	
OR				
	35.300	 Oral administration of sodium iodide I-131 re 1.22 gigabecquerels (33 millicuries) 	quiring a written directive in quantities le	ss than or equal to
	35.300) Oral administration of sodium iodide I-131 re gigabecquerels (33 millicuries)	quiring a written directive in quantities gr	reater than 1.22
✓	35.300	Parenteral administration of any radioactive electron emission, beta radiation characteris of less than 150 keV, for which a written dire	tics, alpha radiation characteristics, or p	primarily used for its hoton energy
			NING AND EXPERIENCE he three methods below)	
da tra	ite of a aining a	and Experience, including board certification, r pplication or the individual must have related o and experience was completed. Provide dates ce related to the uses checked above.	continuing education and experience since	ce the required
1 .	Board	d Certification		
a.	Provi	de a copy of the board certification.		
b.		5. 390 , provide documentation on supervised c ment this experience.	ase experience. The table in section 3.c	. may be used to
C.	supe	5. 396 , provide documentation on classroom an rvised clinical case experience. The tables in s rience. Skip to and complete Part II Preceptor	sections 3.a., 3.b., and 3.c. may be used	
d.	For a follow	board certification issued on or before Octobe /ing:	r 24, 2005 that is listed in 10 CFR 35.57	(b)(2)(ii), provide the
	(i)	Documentation that the individual performed e	ach use checked above on or before Oct	ober 24, 2005.
	• •	Dates, duration, and description of continuing e each use checked above.	education and experience within the past	seven years for
e.	Stop	here.		
~ 2.	<u>Curre</u>	nt 35.300, 35.400, or 35.600 Authorized Use	r Seeking Additional Authorization	
a.	Autho	rized User on Materials License 08-07398-03	under the require	ements below or
	equiv	valent Agreement State requirements (check a	ll that apply):	
	3	5.390 35.392 35.394	35.490 25.690	
b.	super certifi	ently authorized for a subset of clinical uses ur vised case experience. The table in section 3. ed, provide a copy of the certificate and stop h eptor Attestation.	c. may be used to document this experie	ence. If board

C FORM 313A (AUT) U. S. NUCLEAR REGULATORY COMMISSION								
AUTHORIZED U	SER TRAINING, EXPERIE er 35.300) [10 CFR 35.57, 3							
c. If currently authorized under 3 classroom and laboratory trainin in sections 3.a., 3.b., and 3.c. m Attestation.	g, supervised work experience	, and supervised of	clinical case exper	ience. The tables				
3. <u>Training and Experience fo</u>	3. <u>Training and Experience for Proposed Authorized User</u>							
a. Classroom and Laboratory Training 🔽 35.390 🗌 35.392 🗌 35.394 🔽 35.396								
Description of Training Location of Training			Clock Hours	Dates of Training*				
Radiation physics and instrumentation	Northwell Health		50	7/2012 - 6/2017				
Radiation protection	Northwell Health		10	7/2012 - 6/2017				
Mathematics pertaining to the use and measurement of radioactivity	Northwell Health		10	7/2012 - 6/2017				
Chemistry of byproduct material for medical use	Northwell Health		10	7/2012 - 6/2017				
Radiation biology	Northwell Health		100	7/2012 - 6/2017				
	Total Hours of Training:	180						
b. Supervised Work Experience (If more than one supervising individ				35.396 of this page.)				
Supervised W	ork Experience	Total Hours of	Experience:	30				
Description of Experience Must Include:	Location of Experience Permit Number of		Confirm	Dates of Experience*				
Ordering, receiving, and unpacking radioactive materials safely and performing the related radiation surveys	Sibley Memorial Hospital NRC Radioactive Material License No. 08-07398-03		3 Yes	7/2020 - Present				
Performing quality control procedures on instruments used to determine the activity of dosages and performing checks for proper operation of survey meters	Sibley Memorial Hospital NRC Radioactive Material Licer	nse No. 08-07398-0.	³ Ves No	7/2020 - Present				
Calculating, measuring, and safely preparing patient or human research subject dosages	Sibley Memorial Hospital NRC Radioactive Material Licer	nse No. 08-07398-0	3 Yes	7/2020 - Present				
Using administrative controls to prevent a medical event involving the use of unsealed byproduct material	Sibley Memorial Hospital NRC Radioactive Material Licer	1se No. 08-07398-0	3 Yes	7/2020 - Present				
Using procedures to contain spilled byproduct material safely and using proper decontamination procedures	Sibley Memorial Hospital NRC Radioactive Material Licer	nse No. 08-07398-0	3 Yes	7/2020 - Present				

	•	U. S. NUCLEAR REGUL EXPERIENCE, AND PRECEPTOR ATTE 35.57, 35.390, 35.392, 35.394, and 35.3	STATION
 Training and Experience for Supervised Work Experience 	-	ed User (continued)	
Supervising Individual		License/Permit Number listing supervising individu authorized user	ual as an
Curtiland Deville, Jr., M.D.		NRC Radioactive Material License No. 08-07398	8-03
Supervising individual meets the (check all that apply)**:	requirements below,	or equivalent Agreement State requirements	
□ 35.392 □ Oral Nal-131 gigabecquere □ 35.394 □ Oral Nal-131 ☑ 35.396 ☑ Parenteral ad used for its el	els (33 millicuries) in quantities greater t ministration of any rad lectron emission, beta	es of: rective in quantities less than or equal to 1.22 than 1.22 gigabecquerels (33 millicuries) dioactive drug that contains a radionuclide that a radiation characteristics, alpha radiation cha keV, for which a written directive is required.	
** Supervising Authorized User must ha individual requesting authorized user		ring dosages in the same dosage category or categories	as the
c. Supervised Clinical Case Exp If more than one supervising individu this page.		ment supervised work experience, provide multiple	copies of
Description of Experience	Number of Cases Involving Personal Participation	Location of Experience/License or Permit Number of Facility	Dates of Experience*
Oral administration of sodium iodide I-131 requiring a written directive in quantities less than or equal to 1.22 gigabecquerels (33 millicuries)			
Oral administration of sodium iodide I-131 requiring a written directive in quantities greater than 1.22 gigabecquerels (33 millicuries)			
Parenteral administration of any radioactive drug that contains a radionuclide that is primarily used for its electron emission, beta radiation characteristics, alpha radiation characteristics, or photon energy of less than 150 keV, for which a written directive is required.	4	Sibley Memorial Hospital NRC Radioactive Material License No. 08-07398-03	10/13/2022 10/13/2022 11/03/2022 07/13/2023

NRC FORM 313A (AUT) U. S. NUCLEAR REGULATORY COMMISSION						
(07-31-2023) (for			6, EXPERIENCE, AND PRECEPTOR ATTESTATION FR 35.57, 35.390, 35.392, 35.394, and 35.396] (continued)			
3. Training	and Experienc	e for Proposed Author	rized User (continued)			
c. Supervise	ed Clinical Case	Experience (continued))			
Supervising In	Supervising Individual License/Permit Number listing supervising individual as an authorized user					
Curtiland Dev	ville, Jr., M.D.		NRC Radioactive Material License No. 08-07398-03			
Supervising in	ndividual meets th	e requirements below, or e	equivalent Agreement State requirements (check all that apply)**:			
35.390	With experier	nce administering dosage	ges of:			
35.392		131 requiring a written di uerels (33 millicuries)	lirective in quantities less than or equal to 1.22			
35.394	Oral Nal-	131 in quantities greater	r than 1.22 gigabecquerels (33 millicuries)			
✓ 35.396☐ 35.57	used for it	s electron emission, beta	radioactive drug that contains a radionuclide that is primarily ta radiation characteristics, alpha radiation characteristics, or eV, for which a written directive is required.			
		r must have experience in a authorized user status.	administering dosages in the same dosage category or categories			
d. Provide c	ompleted Part I	Preceptor Attestation.				
		PART II – PRI	RECEPTOR ATTESTATION			
individ	ual as long as t	he preceptor provides, d	's preceptor. The preceptor does not have to be the supervising directs, or verifies training and experience required. If more than erience, obtain a separate preceptor statement from each.			
By che	ecking the boxes	s below, the preceptor is	s not attesting to the individual's "general clinical competency."			
First Section Check one of	the following f	or the requested autho	orization:			
<u>For 35.390:</u>						
 I attest 	st that Aditya H	Halthore, M.D.	has satisfactorily completed the 700 hours of training			
			urs of classroom and laboratory training, as required by			
<u>For 35.392:</u>						
I atte	st that		has satisfactorily completed the 80 hours of classroom			
	N	lame of Proposed Authorized User	or			
and laboratory training, as required by 10 CFR 35.392(c)(1), and the supervised work and clinical case experience required in 35.392(c)(2).						
<u>For 35.394:</u>						
I atte	st that		has satisfactorily completed the 80 hours of classroom			
	Name of Proposed Authorized User					
	and laboratory training, as required by 10 CFR 35.394 (c)(1), and the supervised work and clinical case experience required in 35.394(c)(2).					

NRC FORM 313A (AUT)		U. S. NUCLEAR REGULATORY COMMISSION				
(07-31-2023)		XPERIENCE, AND PRECEPTOR ATTESTATION 35.57, 35.390, 35.392, 35.394, and 35.396] (continued)				
Second Section						
✓ I attest that	Aditya Halthore, M.D.	has satisfactorily completed the required clinical case				
ovporience re	Name of Proposed Authorized User	×				
	experience required in 35.390(b)(1)(ii)G listed below:					
gigabecqu	Oral NaI-131 requiring a written directive in quantities less than or equal to 1.22 gigabecquerels (33 millicuries)					
🗌 Oral Nal-1	131 in quantities greater than 1.22 gig	Jabecquerels (33 millicuries)				
used for its		ug that contains a radionuclide that is primarily naracteristics, alpha radiation characteristics, or a written directive is required.				
Third Section		,				
✓ I attest that	Aditya Halthore, M.D.	is able to independently fulfill the radiation safety-related				
	Name of Proposed Authorized User					
duties as an a	authorized user for the medical uses	authorized under 10 CFR 35.300 for:				
	131 requiring a written directive in qua uerels (33 millicuries)	antities less than or equal to 1.22				
Oral Nal-1	Oral Nal-131 in quantities greater than 1.22 gigabecquerels (33 millicuries)					
used for its		ug that contains a radionuclide that is primarily naracteristics, alpha radiation characteristics, or a written directive is required.				
Fourth Section		·····				
For 35.396:						
<u>Current 35.49</u>	00 or 35.690 authorized user:					
	Aditya Halthore, M.D.	is an authorized user under 10 CFR 35.490 or 35.690				
<u> </u>	Name of Proposed Authorized User	_				
laboratory tra experience re	aining, as required by 10 CFR 35.396	satisfactorily completed the 80 hours of classroom and 6 (b)(1), and the supervised work and clinical case to independently fulfill the radiation safety-related 00 for:				
used for its		ug that contains a radionuclide that is primarily naracteristics, alpha radiation characteristics, or a written directive is required.				
	OR					
Board Certifie	cation:					
I attest th	at	has satisfactorily completed the board certification				
	Name of Proposed Authorized User					
training re 35.396(b)	equired by 10 CFR 35.396 (b)(1) and	y completed the 80 hours of classroom and laboratory the supervised work and clinical case experience required by Il the radiation safety-related duties as an authorized user				

NRC FORM 313A (AUT) U. S. NUCLEAR REGULATORY COMMISSION					
(07-31-2023) AUTHORIZED USER TRAINING, EXPERIENCE, AND PRECEPTOR ATTESTATION (for uses defined under 35.300) [10 CFR 35.57, 35.390, 35.392, 35.394, and 35.396] (continued)					
Fifth Section					
Complete one of the following for the attestation and signature:					
✓ Authorized User					
✓ I meet the requirements below, or equivalent Agreement State requirements, as an authorized user for:					
✓ 35.390 35.392 35.394 35.396 ✓ 35.57 for 35.300 uses					
I have experience administering dosages in the following categories for which the proposed Authorized User is requesting authorization:					
Oral NaI-131 requiring a written directive in quantities less than or equal to 1.22 gigabecquerels (33 millicuries)					
Oral Nal-131 in quantities greater than 1.22 gigabecquerels (33 millicuries)					
Parenteral administration of any radioactive drug that contains a radionuclide that is primarily used for its electron emission, beta radiation characteristics, alpha radiation characteristics, or photon energy of less than 150 keV, for which a written directive is required.					
OR					
Residency Program Director:					
I affirm that the attestation represents the consensus of the residency program faculty where at least one faculty member is an authorized user who meets the requirements below or equivalent Agreement State requirements:					
35.390 35.392 35.394 35.396 35.57 for 35.300 uses					
I affirm that this facility member has experience in administering dosages in the same dosage category or categories for which the individual is requesting authorized user status and concurs with the attestation I am providing as program director.					
☐ I affirm that the residency training program is approved by the:					
Residency Review Committee of the Accreditation Council for Graduate Medical Education					
Royal College of Physicians and Surgeons of Canada					
Council on Post-Graduate Training of the American Osteopathic Association					
I affirm that the residency training program includes training and experience specified in:					
☐ 35.390 ☐ 35.392 ☐ 35.394 ☐ 35.396					
Name of Facility: License/Permit Number:					
Sibley Memorial Hospital NRC Radioactive Material License No. 08-07398-03					
Name of Preceptor or Residency Program Director (Typed or Printed)Telephone NumberDateCurtiland Deville, Jr., M.D.(202) 537-478801/07/2024					
Signature					

	RM 313A (AUT) U. S. NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB: NO. 3150-0120 EXPIRES: 07/31/2020		
(07-31-202 NUCLEAR R OBLINS ***	EGU,	AUTHORIZED USER TRAINING, EXPERIENCE, AND PRECEPTOR ATTESTATION (for uses defined under 35.300) [10 CFR 35.57, 35.390, 35.392, 35.394, and 35.396]	Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application i necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health an safety. Send comments regarding burden estimate to the FOIA, Library, and Information Collections Branch (T-6 A10M U.S. Nuclear Regulatory Commission, Washington, DC 20555-001, or by email to Infocollects.Resource@nrc.gov, an the OMB Reviewer at: OMB Office of Information and Regulatory Affairs, (3150-0120), Attr: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503; email: <u>oira submission@omb.eop.gov</u> . The NR may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the documer requesting or requiring the collection displays a currently valid OMB control number.		
Name o	Name of Proposed Authorized User State or Territory Where Licensed				
Reque	sted Au	thorization(s) (check all that apply):			
		Use of unsealed byproduct material for whic	h a written directive is required		
	35.300	Oral administration of sodium iodide I-131 re 1.22 gigabecquerels (33 millicuries)	equiring a written directive in quantities less than or equal to		
	35.300	Oral administration of sodium iodide I-131 re gigabecquerels (33 millicuries)	equiring a written directive in quantities greater than 1.22		
	35.300	· ····································	drug that contains a radionuclide that is primarily used for its stics, alpha radiation characteristics, or photon energy ective is required.		
			NING AND EXPERIENCE the three methods below)		
da tra	ate of ap aining a	plication or the individual must have related o	must have been obtained within the 7 years preceding the continuing education and experience since the required s, duration, and description of continuing education and		
1 .	Board	<u>Certification</u>			
a.	Provid	le a copy of the board certification.			
b.		5. 390 , provide documentation on supervised on ent this experience.	case experience. The table in section 3.c. may be used to		
C.	super	· •	nd laboratory training, supervised work experience, and sections 3.a., 3.b., and 3.c. may be used to document this Attestation.		
d.	. For a follow		er 24, 2005 that is listed in 10 CFR 35.57(b)(2)(ii), provide the		
	(i) [ocumentation that the individual performed e	ach use checked above on or before October 24, 2005.		
		Dates, duration, and description of continuing a ach use checked above.	education and experience within the past seven years for		
e.	Stop I	iere.			
2.	Curre	nt 35.300, 35.400, or 35.600 Authorized Use	er Seeking Additional Authorization		
a.	Autho	ized User on Materials License	under the requirements below or		
	equiv	alent Agreement State requirements (check a	ll that apply):		
	3	i.390 35.392 35.394	35.490 35.690		
b.	superv certifie	ised case experience. The table in section 3	nder 35.300, provide documentation on additional required .c. may be used to document this experience. If board ere. If not board certified then provide completed Part II		

NRC FORM 313A (AUT) U. S. NUCLEAR REGULATORY C						
	SER TRAINING, EXPERIENCE, AND PRECEP r 35.300) [10 CFR 35.57, 35.390, 35.392, 35.39					
classroom and laboratory training	c. If currently authorized under 35.490 or 35.690 and requesting authorization for 35.396, provide documentation on classroom and laboratory training, supervised work experience, and supervised clinical case experience. The tables in sections 3.a., 3.b., and 3.c. may be used to document this experience. Also provide completed Part II Preceptor Attestation.					
3. Training and Experience for	r Proposed Authorized User					
a. Classroom and Laboratory Training 35.390 35.392 35.394 35.396						
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						
Chemistry of byproduct material for medical use						
Radiation biology						
	Total Hours of Training:					
b. Supervised Work Experience (If more than one supervising individ	35.390 35.392 35.3 lual is necessary to document supervised training, provide		5.396 of this page.)			
Supervised We	ork Experience Total Hours of Expe	erience:				
Description of Experience Must Include:	Location of Experience/License or Permit Number of Facility	Confirm	Dates of Experience*			
Ordering, receiving, and unpacking radioactive materials safely and performing the related radiation surveys		Yes				
Performing quality control procedures on instruments used to determine the activity of dosages and performing checks for proper operation of survey meters		☐ Yes ☐ No				
Calculating, measuring, and safely preparing patient or human research subject dosages		Yes No				
Using administrative controls to prevent a medical event involving the use of unsealed byproduct material		Yes No				
Using procedures to contain spilled byproduct material safely and using proper decontamination procedures		Yes				

NRC FORM 313A (AUT)		U. S. NUCLEAR REGUL	ATORY COMMISSION			
		XPERIENCE, AND PRECEPTOR ATTES 35.57, 35.390, 35.392, 35.394, and 35.39				
3. Training and Experience for	Proposed Authorize	ed User (continued)				
b. Supervised Work Experience	(continued)					
Supervising Individual	Supervising Individual License/Permit Number listing supervising individual as an authorized user					
Supervising individual meets the requirements below, or equivalent Agreement State requirements (check all that apply)**:						
35.390 With experience	administering dosage	es of:				
	requiring a written dir els (33 millicuries)	rective in quantities less than or equal to 1.22				
35.394 Oral Nal-131	in quantities greater t	han 1.22 gigabecquerels (33 millicuries)				
used for its e	lectron emission, beta	dioactive drug that contains a radionuclide tha a radiation characteristics, alpha radiation char keV, for which a written directive is required.				
** Supervising Authorized User must hat individual requesting authorized user		ering dosages in the same dosage category or categories	as the			
c. Supervised Clinical Case Exp	perience					
If more than one supervising individ this page.	lual is necessary to docu	ment supervised work experience, provide multiple	copies of			
Description of Experience	Number of Cases Involving Personal Participation	Location of Experience/License or Permit Number of Facility	Dates of Experience*			
Oral administration of sodium iodide I-131 requiring a written directive in quantities less than or equal to 1.22 gigabecquerels (33 millicuries)						
Oral administration of sodium iodide I-131 requiring a written directive in quantities greater than 1.22 gigabecquerels (33 millicuries)						
Parenteral administration of any radioactive drug that contains a radionuclide that is primarily used for its electron emission, beta radiation characteristics, alpha radiation characteristics, or photon energy of less than 150 keV, for which a written directive is required.						

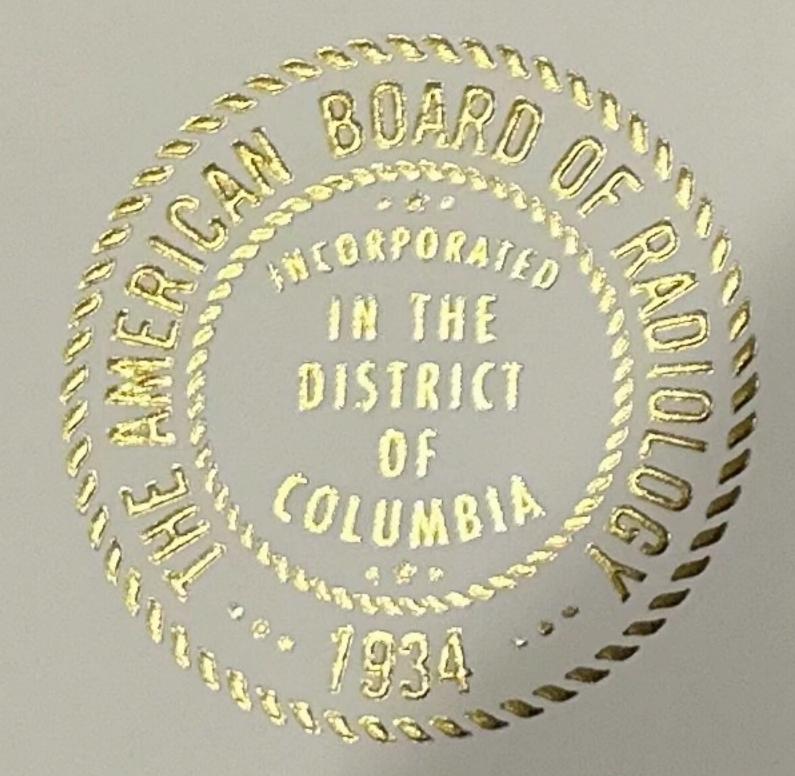
•	U. S. NUCLEAR REGULATORY COMMISSION (PERIENCE, AND PRECEPTOR ATTESTATION 35.57, 35.390, 35.392, 35.394, and 35.396] (continued)						
3. Training and Experience for Proposed Authorized User (continued)							
c. Supervised Clinical Case Experience (continued)	c. Supervised Clinical Case Experience (continued)						
Supervising Individual License/Permit Number listing supervising individual as an authorized user							
Supervising individual meets the requirements below, or equiv	alent Agreement State requirements <i>(check all that apply)**:</i>						
gigabecquerels (33 millicuries)	tive in quantities less than or equal to 1.22						
35.394 Oral Nal-131 in quantities greater that	n 1.22 gigabecquerels (33 millicuries)						
used for its electron emission, beta ra	active drug that contains a radionuclide that is primarily idiation characteristics, alpha radiation characteristics, or for which a written directive is required.						
** Supervising Authorized User must have experience in adm as the individual requesting authorized user status.	inistering dosages in the same dosage category or categories						
d. Provide completed Part II Preceptor Attestation.							
 PART II – PRECE	PTOR ATTESTATION						
individual as long as the preceptor provides, direct one preceptor is necessary to document experient By checking the boxes below, the preceptor is not	eceptor. The preceptor does not have to be the supervising ts, or verifies training and experience required. If more than ce, obtain a separate preceptor statement from each. attesting to the individual's "general clinical competency."						
First Section Check one of the following for the requested authoriza	ation:						
<u>For 35.390:</u>							
I attest that Name of Proposed Authorized User	has satisfactorily completed the 700 hours of training						
and experience, including a minimum of 200 hours of 10 CFR 35.390 (b)(1).	of classroom and laboratory training, as required by						
<u>For 35.392:</u>							
I attest that	has satisfactorily completed the 80 hours of classroom						
Name of Proposed Authorized User							
and laboratory training, as required by 10 CFR 35.392(c)(1), and the supervised work and clinical case experience required in 35.392(c)(2).							
For 35.394:							
I attest that has satisfactorily completed the 80 hours of classroom							
Name of Proposed Authorized User and laboratory training, as required by 10 CFR 35.394 (c)(1), and the supervised work and clinical case experience required in 35.394(c)(2).							

NRC FORM 313A (AUT)	U. S. NUCLEAR REGULATORY COMMISSION					
(07-31-2023) AUTHORIZED USER TRAINING, EXPERIENCE, AND PRECEPTOR ATTESTATION						
(for uses defined under 35.300) [10) CFR 35.57, 35.390, 35.392, 35.394, and 35.396] (continued)					
Second Section						
I attest that	has satisfactorily completed the required clinical case					
Name of Proposed Authorized U	Jser					
experience required in 35.390(b)(1)(ii)G listed below:						
Oral Nal-131 requiring a written directiv gigabecquerels (33 millicuries)	Oral Nal-131 requiring a written directive in quantities less than or equal to 1.22 gigabecquerels (33 millicuries)					
Oral Nal-131 in quantities greater than	Oral Nal-131 in quantities greater than 1.22 gigabecquerels (33 millicuries)					
	ctive drug that contains a radionuclide that is primarily ation characteristics, alpha radiation characteristics, or which a written directive is required.					
Third Section						
I attest that	is able to independently fulfill the radiation safety-related					
Name of Proposed Authorized U						
duties as an authorized user for the medica	al uses authorized under 10 CFR 35.300 for:					
Oral Nal-131 requiring a written directiv gigabecquerels (33 millicuries)	re in quantities less than or equal to 1.22					
Oral Nal-131 in quantities greater than	Oral Nal-131 in quantities greater than 1.22 gigabecquerels (33 millicuries)					
	ctive drug that contains a radionuclide that is primarily ation characteristics, alpha radiation characteristics, or which a written directive is required.					
Fourth Section						
For 35.396:						
Current 35.490 or 35.690 authorized user						
I attest that	is an authorized user under 10 CFR 35.490 or 35.690					
or equivalent Agreement State requiremen laboratory training, as required by 10 CFR	nts, has satisfactorily completed the 80 hours of classroom and 35.396 (b)(1), and the supervised work and clinical case s able to independently fulfill the radiation safety-related					
Parenteral administration of any radioactive drug that contains a radionuclide that is primarily used for its electron emission, beta radiation characteristics, alpha radiation characteristics, or photon energy of less than 150 keV, for which a written directive is required.						
OR						
Board Certification:						
I attest that Name of Proposed Authoriz	has satisfactorily completed the board certification					
requirements of 35.396(a)(3), has satist training required by 10 CFR 35.396 (b)(factorily completed the 80 hours of classroom and laboratory (1) and the supervised work and clinical case experience required by ntly fulfill the radiation safety-related duties as an authorized user					

Interconstruction U.S. NUCLEAR REGULTORY COMMISSION Image: Status AUTHORZED USER TRAINING, EXPERIENCE, AND PRECEPTOR ATTESTATION (for uses defined under 35.300) [10 CFR 35.57, 35.390, 35.392, 35.394, and 35.396] (continued) Fifth Section Complete one of the following for the attestation and signature: Image: Authorized User Inset the requirements below, or equivalent Agreement State requirements, as an authorized user for: Image: State in the requirements below, or equivalent Agreement State requirements, as an authorized user for: 35.390 Image: State in the requirements below, or equivalent Agreement State requirements, as an authorized User is requesting authorization: 35.390 Oral Nat-131 in quantities greater than 1.22 gigabecquerels (33 millicuries) Oral Nat-131 in quantities greater than 1.22 gigabecquerels (33 millicuries) Image: Parenteral administration of any radioactive dry that contains a radionuclide that is primarily used for the alcoron emission, held radiotic, alphar radioach characteristics, or photon energy of less than 150 keV, for which a written directive is required. OR Image: Residency Program Director: Image: State and the advector is an authorized user who meets the requirements bolow or equivalent Agreement State requirements is an authorized user who meets the requirements bolow or equivalent Agreement State requirements: Image: I							
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Yerko Borghero, MD / 4802564500 1/12/2024	Banner MD Anderson Cancer Center Arizona, Radioactive Material License No. 07-176						
	Name of Preceptor or Residency Program Director (Typed or Printed) Telephone Number Date						
	Yerko Borghero, MD / 2012/2024						



AM Eligible



Certificate No. 70854

The American Board of Rada Organized through the cooperation of the American College of Radiology, the American Roentgen Ray Society, the American Radium Society, the Radiological Society of North America, the Section on Radiology of the American Medical Association, the American Society for Radiation Oncology, the Association of University Radiologists, the American Association of Physicists in Medicine, and the Society of Interventional Radiology, the American Board of Radiology hereby certifies that

Aditya A. Halthore, MII

Has pursued an accepted course of graduate study and clinical work; has met certain standards and qualifications, including passing the examinations conducted under the authority of the American Board of Radiology, demonstrating to the satisfaction of the Board qualification to practice; and is therefore awarded the Board's certification in

Radiation Gncology

Ongoing validity of this certificate is contingent upon meeting the requirements of Maintenance of Certification.

This diplomate of the American Board of Radiology is permitted to use the DABR mark to signify this certification.

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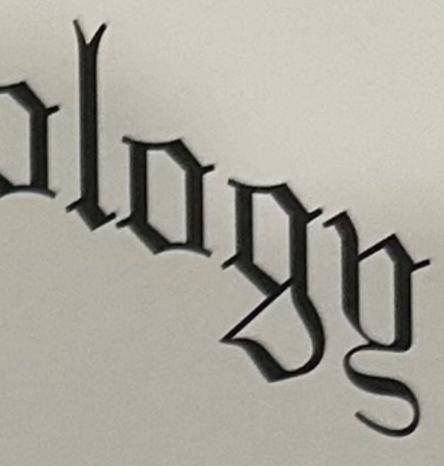
President

Chut Mi Jan M Secretary-Treasurer

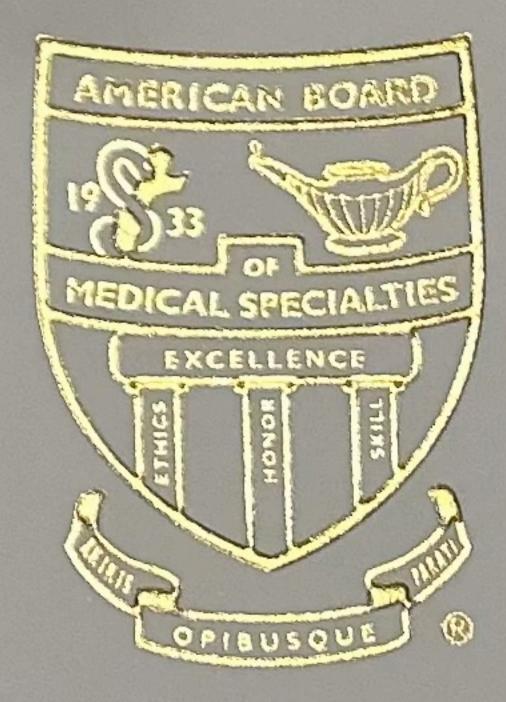




Valui de Jukomme Executive Director



DABR



Effective: May 18, 2018



ARIZONA DEPARTMENT OF HEALTH SERVICES BUREAU OF RADIATION CONTROL

RADIOACTIVE MATERIAL LICENSE

Pursuant to Chapter 4, Title 30, Arizona Revised Statutes, and Title 9, Chapter 7 of the Arizona Administrative Code, and in reliance on statements and representations made to the Department by the licensee, a license is hereby issued authorizing the acquisition, reception, possession, use and transfer of the radioactive material listed in this license for the purposes and at the places specified. This license is subject to all applicable rules and Department orders now or hereafter in effect and to the conditions specified. In accordance with application dated September 1, 2022, signed by R. Fowler, License Number 07-176 is hereby renewed in its entirety to read as follows: ALL CHANGES ARE IN BOLD

LICENSEE

- 1. NAME: Banner Health d/b/a Banner Desert Medical Center
- 2. ADDRESS: 1400 South Dobson Road Mesa, Arizona 85202
- 3. a. LICENSE NUMBER: 07-176 b. AMENDMENT NO.: 71
- 4. EXPIRATION DATE: September 30, 2027
- 5. CATEGORY: B2 MEDICAL MATERIALS CLASS A

6. Radioactive material (element and mass number)

- A. Any radioactive material listed in Group 100 of Exhibit A, Arizona Administrative Code, Title 9, Chapter 7, Article 7.
- B. Any radioactive material listed in Group 200 of Exhibit A, Arizona Administrative Code, Title 9, Chapter 7, Article 7.
- C. Any radioactive material listed in Group 300 of Exhibit A, Arizona Administrative Code, Title 9, Chapter 7, Article 7.

A. Any FDA approved radiopharmaceutical authorized in Group 100 of Exhibit A, Arizona Administrative Code, Title 9, Chapter 7, Article 7. Not to include investigational new drugs (IND).

7. Chemical or physical form

B. Any FDA approved radiopharmaceutical authorized in Group 200 of Exhibit A, Arizona Administrative Code, Title 9, Chapter 7, Article 7. Not to include investigational new drugs (IND).

C. Any FDA approved radiopharmaceutical authorized in Group 300 of Exhibit A, Arizona Administrative Code, Title 9, Chapter 7, Article 7. Not to include investigational new drugs (IND).

- 8. Maximum quantity licensee may possess at any time
 - A. 92.5 GBq (2,500 millicuries)

B. 92.5 GBq (2,500 millicuries)

C. 37 GBq (1,000 millicuries)

D. Xenon-133

D. Gas or gas in saline

D. 11.4 GBq (300 millicuries)

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ARIZONA DEPARTMENT OF HEALTH SERVICES BUREAU OF RADIATION CONTROL

RADIOACTIVE MATERIAL LICENSE SUPPLEMENTARY SHEET

License Number: 07-176 Amendment Number: 71

E. Technetium Pertechnetate in saline	E. 18.5 GBq (500 millicuries)
F. Thallium Chloride	F. 1.11 GBq (30 millicuries)
G. Yttrium labeled radiotherapeutic antibody (Zevalin)	G. 1.11 GBq (30 millicuries)
H. Ra-223 Chloride	H. 370 MBq (10 millicuries)
I. Sealed Source	I. 111 GBq (3 curies)
J. Sealed Source (Approved for medical use in the Sealed Source and Device Registry)	J. 7.4 GBq (200 millicuries)
K. Sealed Source (Alpha Omega, Drawing No. C100A-01 or equivalent)	K. 11.1 GBq (300 millicuries)
L. Sealed Source	L. 14.8 GBq (400 millicuries)
M. Yttrium-90 microspheres (Australian Isotopes Sir- spheres)	M. 111 GBq (3 curies)
	 saline F. Thallium Chloride G. Yttrium labeled radiotherapeutic antibody (Zevalin) H. Ra-223 Chloride I. Sealed Source J. Sealed Source J. Sealed Source (Approved for medical use in the Sealed Source and Device Registry) K. Sealed Source (Alpha Omega, Drawing No. C100A-01 or equivalent) L. Sealed Source M. Yttrium-90 microspheres (Australian Isotopes Sir-

9. Authorized Use:

Α.	For diagnostic studies involving measurements of uptake, dilution and excretion, not requiring a written directive, authorized in Group 100 of Exhibit A, Arizona Administrative Code, Title 9, Chapter 7, Article 7.
В.	For diagnostic studies involving imaging and localizations, not requiring a written directive, authorized in Group 200 of Exhibit A, Arizona Administrative Code, Title 9, Chapter 7, Article 7. PET radiopharmaceuticals may be used if the licensee has demonstrated to the Department that the requirements in A.A.C. R9-7-716 have been met.
C.	For medical uses requiring a written directive, as authorized in Group 300 of Exhibit A, Arizona Administrative Code, Title 9, Chapter 7, Article 7.
D.	For blood flow and pulmonary function studies.
E.	For use in cardiac studies only.
F.	For use in cardiac studies only.
	POST IN ACCORDANCE WITH R9-7-1002

ARIZONA DEPARTMENT OF HEALTH SERVICES BUREAU OF RADIATION CONTROL

RADIOACTIVE MATERIAL LICENSE SUPPLEMENTARY SHEET

License Number: 07-176 Amendment Number: 71

9. Cont.

G. & H.	Intravenous injection for the treatment of cancer.
I.	Interstitial implants for treatment of cancer.
J, K. and L.	Interstitial implants for treatment of cancer.
М.	For delivery of radiation therapy to malignant hepatic tumors in device/set box manufactured by Sirex Medical Limited and distributed by AEA Technology QSA, Inc.

CONDITIONS

- 10. Radioactive material listed under sub items A through M of Items 6, 7 and 8 may be possessed and used only at the licensee's address stated in Item 2 above.
- 11. The licensee shall comply with the provisions of Title 9, Chapter 7, Arizona Administrative Code; Article 3, "Radioactive Material Licensing"; Article 4, "Standards for Protection Against Ionizing Radiation"; Article 7, "Medical Uses of Radioactive Material"; and Article 10, "Notices, Instructions, and Reports to Radiation Workers; Inspections".
- 12. A. Radioactive material listed under sub items A, B, C, G and H of Items 6, 7, and 8 shall be used by or under the supervision of:

Craig E. Hancock, M.D.	Robert Hanna, M.D.	Stephen Y. Hu, M.D.
William T. Jacoby, M.D.	Penny Bowen, M.D.	James B. Lyons, M.D.
Mark Allen Madsen, M.D.	Steven R. Maxfield, M.D.	Andrew M. Pohl, M.D.
Tobias Schifter, M.D.	Mark W. Slepian, M.D.	Joseph Edmond Wagner, M.D.

B. Radioactive materials listed under sub items A, B, C, D, G and H of Items 6, 7 and 8 shall be used by, or under the supervision of:

Mark Hoffman, M.D. Amal Ja

Amal Jabra, M.D.

Stephanie Wang, M.D.

C. Radioactive materials listed under sub items A, B and D of Items 6, 7 and 8 shall be used by or under the supervision of:

Marvin Kai-Hing Tam, M.D.

D. Radioactive materials listed under sub items E and F of Items 6, 7 and 8 shall be used by or under the supervision of:

Rajiv Ashar, M.D.	Marc Berkowitz, M.D.	Jean Chatham, M.D.
Joshua Cohen, M.D.	Ziad Elghoul, M.D.	Robert J. Hamburg, M.D.

ARIZONA DEPARTMENT OF HEALTH SERVICES BUREAU OF RADIATION CONTROL

RADIOACTIVE MATERIAL LICENSE SUPPLEMENTARY SHEET

License Number: 07-176 Amendment Number: 71

12. D. Cont.			Amendment Number: 71
	Duane W. Heinrichs, M.D.	David Kassel, M.D.	Daniel Klee, M.D.
	Suntharo Ly, M.D.	Mehul Shah, M.D.	Jon Stevenson, M.D.
	Arman Talle, M.D.		
E.	Radioactive materials listed u under the supervision of:	nder sub items A, B, C, D, E	and F of Items 6, 7 and 8 shall be used by or
	John J. McGill, M.D.	Thuyngoc T. Vo, M.D.	
F.	Radioactive material listed un supervision of:	nder sub items C, G and H of I	Items 6, 7 and 8 shall be used by or under the
	Yerko O. Borghero, M.D.	Emily Grade, M.D.	Terrence Roberts, M.D.
G.	Radioactive material listed un supervision of:	der sub items A, B and C (limi	ited to I-131only) shall be used by or under the
	Bradley C. Davis, M.D.	Douglas S. Lewis, M.D.	
H.	Radioactive material listed un supervision of:	ider sub items I through M of I	tems 6, 7, and 8, shall be used by, or under the
	Yerko Borghero, M.D.	Emily Grade, M.D.	Rachit Kumar, M.D.
	Jeffrey Richmond, M.D.	Terrence Roberts, M.D.	
I.	Radioactive material listed usual supervision of:	under sub item M of Items (5, 7, and 8, shall be used by, or under the
	Robert Hanna, M.D.	Douglas S. Lewis, M.D.	Stephanie Wang, M.D.
J.	Radioactive material listed un the supervision of:	der sub items I through L of Ite	ems 6, 7 and 8 shall be used by or under
	Ravinder Clayton, M.D.	Uma Goyal, M.D.	Mohammed Khan, M.D.
	Ying Li, M.D.	Sarah Nicholas, M.D.	Joshua Niska, M.D.
	Arti Sangave, M.D.	Michael Samuels, M.D.	Gary Walker, M.D.
К.	Radioactive material listed un	der sub item H of Items 6, 7 and	d 8 shall be used by or under the supervision of:
	Ravinder Clayton, M.D.	Rachit Kumar, M.D.	

ARIZONA DEPARTMENT OF HEALTH SERVICES BUREAU OF RADIATION CONTROL

RADIOACTIVE MATERIAL LICENSE SUPPLEMENTARY SHEET

License Number: 07-176 Amendment Number: 71

12. Cont.

L. The Authorized Medical Physicists for this license are:

Mickie Baca, DHSc	Thomas Bista, M.S.	Mary E. Braswell, M.S.
Hua Deng, Ph.D.	Derek Fetters, D.M.P.	Paul Hanny, Ph.D.
Nicholas Marsh, M.S.	Amir Sadeghi, Ph.D.	Stephen Sapareto, Ph.D.
Thaddeus Sokolowski, M.S.	Steven Sutlief, Ph.D., DABR	

- M. The Radiation Safety Officer for this license is: Robert Hanna, M.D.
- N. The Associate Radiation Safety Officer(s) are: Paul Hanny, Ph.D., Amir Sadeghi, Ph.D. and Erica Harrison. The Associate Radiation Safety Officer shall administer the Radiation Safety Program under the policy and procedure guidance of the Radiation Safety Officer.
- 13. The licensee is authorized to release a patient in accordance with A.A.C. R9-7-717 and NUREG 1556, Volume 9.
- 14. The licensee may transport radioactive material or deliver material to a carrier for transport in accordance with the provisions of Title 9, Chapter 7, Article 15.
- 15. A. The licensee shall ensure, in accordance with A.A.C. R9-7-419(C), that an individual participates in a radioiodine bioassay if the individual:
 - 1. Is likely to receive an annual intake in excess 0.1 of the Annual Limits of Intake (ALI) specified in Table 1, Columns 1 and 2 of Appendix B in 9 A.A.C. 7, Article 4;
 - Is a minor or declared pregnant woman likely to receive an annual committed effective dose equivalent in excess of 50 mRem, or
 - 3. Has been involved is a spill, an incident, or other occurrence during which radioiodine may have been taken into the body either by inhalation, ingestion, or by absorption through the skin or a wound.
 - B. The licensee shall ensure that an individual who is directly involved in a radioiodine therapy, the handling of radioiodine stock solutions, or is involved in iodination's, and meets, as a minimum, any one of the three criteria in Part A above, participates in a bioassay between 6 and 72 hours following the exposure to radioiodine. With Department approval, the licensee may perform I-131 bioassays up to 12 weeks following radioiodine exposure.
 - C. For any individual whose cumulative annual intake is likely to exceed 0.1 ALI, the licensee shall perform a dosimetric determination based on the results of the bioassay performed under Part B. To assist in determining the total dose equivalent for the individual, the licensee shall add the obtained dose information to the committed dose equivalent information for the exposed individual. For the exposed individual whose bioassay exceeds 0.25 ALI, the licensee shall restrict the exposed individual from further radioiodine exposure until a bioassay indicated the individual's exposure has dropped below 0.1 ALI.

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15. Cont.

- D. For bioassays exceeding 0.1 ALI, the licensee shall investigate the circumstances surrounding the exposed individual's uptake. Records of the investigation and all bioassay measurements shall be maintained as part of the licensee's personnel dosimetry records and shall be available for inspection by the Department.
- 16. The licensee shall not use F-18 radiopharmaceuticals until the Department has approved the licensee's procedures, equipment, and facilities for its use, and amended this license for F-18 use.
- 17. A. In lieu of weekly wipe surveys the licensee may perform daily contamination surveys in all radiation use areas. The licensee shall perform the survey using a survey instrument and probe that can easily detect contamination levels that are commonly observed when performing wipe survey in contaminated work areas.
 - B. To facilitate the contamination survey, the licensee shall establish survey action level appropriate for the chosen survey instrument and probe in Part (A).
 - C. The licensee shall perform a wipe survey following:
 - 1. Any known incident involving spilled radioactive material that may result in contamination of work areas.
 - Contamination surveys that exceed the licensee's contamination survey action level established under Part (B).
- 18. All Y-90 microsphere waste shall be monitored at the surface prior to disposal to determine that its radioactivity cannot be distinguished from the background radiation level with an appropriate radiation detection survey meter. If the waste is determined to contain impurities with a physical half-life of greater than 120 days that can be distinguished from the background radiation level, the licensee shall dispose of the waste by:
 - Returning the Y-90 microspheres to the manufacturer, if the manufacturer is authorized to receive Y-90 microspheres; or
 - Transfer the Y-90 microspheres to an authorized recipient pursuant to the requirements in A.A.C. R9-7-434(A).
- 19. For purposes of ending the principal activities authorized under this radioactive material license:
 - A. The license stays in effect beyond the license expiration date. Beyond the expiration date the licensee shall store radioactive material only, until the Department authorizes its use by license amendment, or the Department notifies the licensee in writing that the license is terminated.
 - B. The licensee shall ensure the timeliness of decommissioning of facilities where principal activities are conducted under this license in accordance with Department requirements.
 - C. The licensee shall continue to control public access into restricted areas and pay the annual licensing fee until the license is terminated.

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- 20. Except as specifically provided otherwise by this license, the licensee shall possess and use the radioactive material described in Items 6, 7 and 8 of this license in accordance with the statements, representations and procedures contained in:
 - 1. Application dated September 1, 2022, signed by R. Fowler.

The most recent statements, representations, and procedures shall govern if they conflict with previously submitted documents, unless otherwise specified by a license condition; and the Department's rules shall govern the licensee's statements in applications or letters.

BRIAN D. GORETZKI, BUREAU CHIEF

Tomb

TOM SALOW, ASSISTANT DIRECTOR

DATE ISSUED: PRK:BDG:gd NCV 2 2 2022



Sibley Memorial Hospital 5255 Loughboro Road NW Washington, DC 20016 202-537-4680

January 16, 2024

Licensing Assistance Team USNRC Region I DNMS 475 Allendale Road, Suite 102 King of Prussia, PA 19406-1415

RE: Amendment Request for Sibley Memorial Hospital, License # 08-07398-03

Dear License Reviewer:

Please accept this letter as a request to add the following change to License # 08-07398-03:

Rachit Kumar, M.D. and Aditya Halthore, M.D. are current Authorized Users seeking additional authorization.

Authorized User (AU):

Rachit Kumar, M.D.: add AU privileges for 10 CFR 35.300. Dr. Kumar is board certified by The American Board of Radiology, he is current Authorized User for 10 CFR 35.600 under Sibley Memorial Hospital License # 08-07398-03.

Dr. Kumar was listed for 10 CFR 35.300 privileges on Arizona Department of Health Services, Bureau of Radiation Control, Radioactive Material License No. 07-176 (Banner Desert Medical Center). Supporting information is provided in enclosure.

Authorized User (AU):

Aditya Halthore, M.D.: add AU privileges for 10 CFR 35.300. Dr. Halthore is board certified by The American Board of Radiology, he is current Authorized User for 10 CFR 35.600 under Sibley Memorial Hospital License # 08-07398-03.

Any questions regarding the above matter should be directed to the undersigned at 202-660-7777 or to the Radiation Safety Officer, Momodou Dibba, at 202-660-5156.

Sincerely,

Justine Shafen

Caroline Shafa. Vice President of Operations



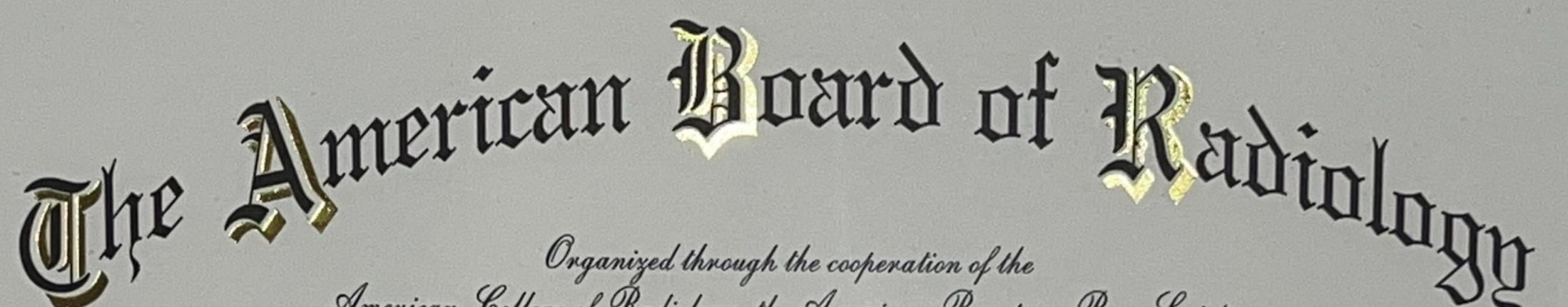
American College of Radiology, the American Roentgen Ray Society, the American Radium Society, the Radi 'ni al Society of North America, the Section on Radiology of the An in Medical Association, the American Society for Radiation Oncology, the Association of University Radiologists, the American Association of Physicists in Medicine, and the Society of Interventional Radiology, the American Board of Radiology hereby certifies that

All Eligible



Certificate No. 65410

Mitton J. DieberTena 20 President



Rachit Kumar, MD

Has pursued an accepted course of graduate study and clinical work; has met certain standards and qualifications, including passing the examinations conducted under the authority of the American Board of Radiology, demonstrating to the satisfaction of the Board qualification to practice; and is therefore awarded the Board's certification in

Radiation Oncology

Ongoing validity of this certificate is contingent upon meeting the requirements of Maintenance of Certification.

This diplomate of the American Board of Radiology is permitted to use the DABR mark to signify this certification.

Secretary-Treasurer

Valui & Julionmo



DABR



Effective: May 14, 2015