

P-7

April 23, 2007

Licensing Assistance Section Division of Nuclear Materials Safety U.S. Nuclear Regulatory Commission, Region I 475 Allendale Road King of Prussia, PA 19406-1415

Re: License Number 37-30219-01MD

03033965

Mail control #140351

Dear Tom Thompson,

This letter is an attestation of Robert Cole's completion of the requisite 700 hours of didactic and experiential training necessary to attain an Authorized User status. Robert has completed the UAMS/University of New Mexico Authorized User Program, a structured educational program which covers instrumentation, DOT/NRC requirements for handling and shipping of radioactive materials, radiobiology, radiopharmaceuticals, radiation safety, radiation physics, etc. He has obtained over 500 hours of experiental education under my direct preceptor supervision, performing tasks such as receiving packages and preparing shipments, reading survey meters, personnel monitoring dosimetry, dose calibrator constancy/linearity/accuracy, waste management, etc. With this letter is a listing of topics covered and amount of time devoted to each topic. After reviewing each topic, the student is given a chance to ask questions prior to being evaluated on his knowledge and performance of that topic. I have already sent you a copy of his certificate of completion of the course, but I am forwarding to you a copy of the Radiopharmacy Experiential Education Program Workbook so that you can see the comprehensive nature of the program.

Should you have any further questions, please call me at (800) 576-7319.

Sincerely,

Laurie Stallings, PharmD, BCNP Pharmacy Manager PharmaLogic Penn Ltd

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NMSS/RGN1 MATERIALS-002

RADIOPHARMACY EXPERIENTIAL EDUCATION PROGRAM WORKBOOK

Kristina M. Wittstrom, RPh, BCNP Radiopharmacy Education College of Pharmacy University of New Mexico Health Sciences Center Albuquerque, New Mexico

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FORWARD

RADIOPHARMACY EXPERIENTIAL EDUCATIONPROGRAM

Radiopharmacy is a specialized pharmacy practice area. The Nuclear Regulatory Commission, the state radiological health agencies and/or state Boards of Pharmacy have established requirements for Authorized Nuclear Pharmacist (ANP) education and training. In addition to the traditional pharmacy education and licensure, the radiopharmacist must complete a minimum of 700 hours of specialized training to become an Authorized Nuclear Pharmacist. ANP education and training consists of two components: a structured didactic educational program (200 hours) and a structured, supervised experience in a radio pharmacy (500 hours).

This program is intended to serve as a structured guide to the supervised experience. It must be used under the supervision of an Authorized Nuclear Pharmacist preceptor who has completed preceptor training. Each area of competency should follow the general progression:

- 1) Explanation and demonstration of a skill to the student
- 2) Student practices the skill under close supervision and with preceptor feedback
- Student becomes responsible for performing the task with the preceptor available for supervision and support.
- 4) Preceptor assesses the student's level of competency.

Upon completion of the program, the student will achieve a level of overall competency sufficient to independently operate a radiopharmacy.

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STATEMENT OF OBJECTIVES

Upon completion of in the Radiopharmacy Experiential Education Program, the student should be able to:

- 1. Demonstrate competency in operating and testing instruments routinely used in radiopharmacy practice.
- 2. Demonstrate competency in preparing, receiving and delivering packages containing radioactive materials.
- 3. Demonstrate competency in performing and managing routine radiation safety tasks and unanticipated events.
- 4. Demonstrate competency in preparing and dispensing routine radiopharmaceuticals.
- 5. Demonstrate competency in performing quality control testing
- Demonstrate competency in maintaining professional standards of practice for environmental quality assurance.
- 7. Demonstrate competency in compounding and dispensing radioactive iodine.
- 8. Describe a typical day in a nuclear medicine department.

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INFORMATION FOR PRECEPTORS

- 1. Review the Radiopharmaceutical Experiential Education Program training modules before the student begins the clerkship. Be prepared to assist the student to complete the module "Orientation to a Radiopharmacy" within the first few days.
- 2. Each module has a general overview of the tasks to be completed with a "sign-off" space for both the preceptor and the student. All modules must be completed to successfully finish the program. The preceptor signature represents a satisfactory assessment of the student's competency in performing each task.
- Working with the student, establish a general outline of the clerkship. Modules do not have to be completed in any particular order. A sample schedule has been included for reference.
- 4. Discuss the preceptor's and the student's expectation of the clerkship. Take the time to be thorough now, so that there are no "surprises" later.
- 5. The student must be properly instructed and supervised in all procedures. Do not allow the student to perform any tasks for which they have not been trained. The preceptor may delegate training responsibilities to another individual, but the preceptor must make the final competency assessment.
- 6. The student and the preceptor should meet daily for about 1 hour to evaluate progress and to address any questions. Be available for discussions.
- 7. The preceptor and the student should meet weekly for about 2 hours to review the student's weekly progress and to plan the activities for next week. It is recommended that this meeting be held off-site or at a time when distractions are minimized. A form is enclosed for the student's use.
- 8. A brief E-mail of the student's progress should be sent to the Radiopharmacy Experiential Coordinator each week
- 9. Complete the Student Evaluation form. The evaluation should be completed and discussed with the student prior to the end of the clerkship. Evaluations should be mailed to the Radiopharmacy Experiential Coordinator.
- 10. Any questions or concerns should be discussed with the Radiopharmacy Experiential Coordinator.

Kristina Wittstrom, RPh, BCNP Radiopharmacy Experiential Coordinator Radiopharmacy Education College of Pharmacy University of New Mexico Health Sciences Center Albuquerque, NM 87131

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RADIOPHARMACY EXPERIENTIAL TRAINING SUGGESTED TIMELINE

MODULE	MODULE NO.	Hours STUDY TIME	Hours PRACTICE & PERFORM	Hours ASSESSMENT EVALUATION
Orientation to a Radiopharmacy		12	8	1
Personnel Monitoring Dosimetry	IV.1	2	5	1
Survey Meters	11.3	4	8	1
Waste Management	IV.4	4	10	1.5
Receiving Packages	111.2	3	10	1.5
Preparing Shipments	111.1	3	10	1.5
Introduction to Radiopharmaceuticals	V.1	6	15	2
Area Wipes and Surveys	IV.2	4	10	2
Emergency Events	IV.3	2	3	1
Dose Calibrator Constancy	II.1.a	2	5	1
Quality Control	V.4	5	15	1.5
Ordering Radiopharmaceuticals	V.6	3	10	2
Dose Calibrator Accuracy	II.1.b	2	3	1
Quality Assurance	V.5	10	20	2
Dose Calibrator Geometry	II.1.c	2	4	1
Dose Calibrator Linearity	II.1.d	2	5	1
Scintillation Detector Calibration	11.2.a	2	10	1.5
Sealed Source Inventory	11.4.a	2	3	1
Sealed Source Leak Testing	II.4.b	3	4	1
Technetium Generators	V.2	5	10	2
Compounding and Dispensing	V.3	14	30	2
Scintillation Detector FWHM	11.2.5	2	4	1
Scintillation Detector Efficiency	11.2.c	2	4	1
Scintillation Detector MDA	lí.2.d	2	4	1
Compounding and Dispensing	V.3,	14	30	2
Nuclear Medicine Department	VII	24	15	1.5
Compounding and Dispensing	V.3	14	30	2
Na lodine handling	VI	10	15	2
	Total Hours	160	300	40

SUGGESTED TRAINING PROCEDURE

-). Student reviews information and references applicable to the specific task. Include radioactive materials license commitments, regulations and textbooks as appropriate.
- II. Student and preceptor discuss the specific task. Discussion should include:
 - A. The what, why and how of the task
 - B. A review of the student's understanding of theory applicable to the task
 - C. The critical steps involved in the task
 - D. Questions and/or concerns about the task
- III. **Preceptor** teaches the student how to perform the task.

Student	Preceptor
Observes preceptor	Demonstrates task
Practices task	Instructs in task performance
Demonstrates task	Observes performance
Demonstrates competency	Assess competency

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STUDENT PERFORMANCE & PROGRESS EVALUATION

Name of Student:

Name of Preceptor:

Experiential Site:

Preceptor: Please comment on, and then score, the student's competencies using the scale listed below. It is best to discuss this with the student at the beginning of the clerkship. Complete and sign the evaluation. Discuss the evaluation with the student prior to the last scheduled day of the clerkship.

Upon completion of the clerkship, the student should demonstrate a level of competency with that expected of a licensed nuclear pharmacist.

Levels of Competency

- 1 Principles discussed only, competency not demonstrated.
- Student did not achieve minimal acceptable level of competency, unable to perform 2 adequately even under close supervision and frequent intervention.
- 3 Achievement of a level of competency at which the student is able to recognize major principles, and perform under close supervision with frequent intervention.
- Achievement of a level of competency at which the student is able to discuss major 4 principles and perform with minimal supervision and infrequent intervention.
- 5 Achievement of a level of competency at which the student is able to perform independently and without intervention. Has developed competencies adequate for an Authorized Nuclear Pharmacist and consistent with professional radiopharmacy practice.

I. Instrumentation Competency: Assess the student's ability to understand and to effectively use instruments routinely found in a radiopharmacy to measure and detect radioactivity.

4 2 3 Instrumentation Competency Score: (circle one) 1

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II. Competency in Handling Packages Containing Radioactive Material: Assess the student's ability to safely handle packages containing radioactive materials in compliance with DOT regulations.

DOT Competency Score: (circle one)

2 3 4

2

1

5

3

4

5

III. Radiation Safety Competency: Assess the student's ability to understand and effectively use good radiation safety techniques with accurate record keeping.

1

Radiation Safety Competency Score: (circle one)

IV. Compounding and Dispensing Competency: Assess the student's understanding of compounding, dspensing, quality control and quality assurance procedures with accurate record keeping.

Compounding & Dispensing Competency Score: (circle one) 1 2 3 4 5

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V. Overall Assessment: Assess the student's overall understanding and competency in routine tasks performed in a radiopharmacy.

	* <u></u>				
					· · · · · · · · · · · · · · · · · · ·
Overall Competency Score: (circle one)	1	2	3	4	5
Date:					

Signature of Student

Signature of Preceptor

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INFORMATION FOR STUDENTS

- 1. Contact the preceptor prior to the starting date of the clerkship by telephone or, preferably make an on-site visit. The student should get information on where and when to report on the first day.
- 2. Review the Radiopharmacy Experiential Education Program training modules before beginning the clerkship. Be prepared to complete the "Orientation to a Radiopharmacy" module within the first few days.
- 3. Each module has a general overview of the tasks to be completed with a "sign-off" space for both the preceptor and the student. All modules must be completed to successfully finish the program.

Each module contains self-assessment questions, references and example procedures where appropriate to be used as references. This information should be reviewed before beginning any specific task.

- 4. Discuss your expectations of the experiential program with your preceptor. Take the time to be thorough now to prevent "surprises" later.
- Working with the preceptor, establish a general outline of the clerkship. Modules do not have to be completed in any particular order. A sample schedule is included for reference.
- 6. Keep a log of questions that may arise when the preceptor is not available. Save the questions for discussion later.
- 7. The student must be properly instructed and supervised in all procedures. Do not accept professional tasks that are inconsistent with training.
- 8. You should meet with your preceptor daily for about 1 hour to evaluate your progress and to address any questions.
- 9. A weekly meeting of 2 hours should be scheduled to review the week and plan the next week. A form is enclosed for the student's record.
- 10. You must send a brief E-mail of your progress to the Radiopharmacy Experiential Coordinator each week.
- 11. Upon completion of the Radiopharmacy Experiential Education Program you must complete the Student Evaluation of Preceptor form and return it to the Radiopharmaceutical Experiential Coordinator.
- 12. Any questions or concerns should be discussed with the Radiopharmacy Experiential Coordinator.

Kristina Wittstrom, RPh, BCNP Radiopharmacy Experiential Coordinator Radiopharmacy Education College of Pharmacy University of New Mexico Health Sciences Center Albuquerque, NM 87131

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Apr 23 07 01:00p PharmaLogic Penn

RADIOPHARMACY EXPERIENTIAL TRAINING SUGGESTED TIMELINE

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Orientation to a Radiopharmacy	1	12	8	EVALUATION
Personnel Monitoring Dosimetry	IV.1	2	5	1
Survey Meters	11.3	4	8	1
Waste Management	IV.4	4	10	1.5
Receiving Packages	111.2	3	10	1.5
Preparing Shipments	11.1	3	10	
Introduction to Radiopharmaceuticals	V.1	6	15	1.5
Area Wipes and Surveys	IV.2	4	10	2
Emergency Events	IV.3	2	3	1
Dose Calibrator Constancy	.1.a	2	5	1
Quality Control	V.4	5	15	1.5
Ordering Radiopharmaceuticals	V.6	3	10	2
Dose Calibrator Accuracy	II.1.b	2	3	1
Quality Assurance	V.5	10	20	2
Dose Calibrator Geometry	II.1.c	2	4	1
Dose Calibrator Linearity	II.1.d	2	5	1
Scintillation Detector Calibration	11.2.a	2	10	1.5
Sealed Source Inventory	II.4.a	2	3	1
Sealed Source Leak Testing	11.4.b	3	4	1
Technetium Generators	V.2	5	10	2
Compounding and Dispensing	V.3	14	30	2
Scintillation Detector FWHM	II.2.b	2	4	1
Scintillation Detector Efficiency	II.2.c	2	4	1
Scintillation Detector MDA	[1.2.d	2	4	1
Compounding and Dispensing	V.3.	14	30	2
Nuclear Medicine Department	VII	24	15	1.5
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Na lodine handling	VI	10	15	2
	Total Hours	160	300	40

SUGGESTED TRAINING PROCEDURE

- I. **Student** reviews information and references applicable to the specific task. Include radioactive materials license commitments, regulations and textbooks as appropriate.
- II. Student and preceptor discuss the specific task. Discussion should include:
 - A. The what, why and how of the task
 - B. A review of the student's understanding of theory applicable to the task
 - C. The critical steps involved in the task
 - D. Questions and/or concerns about the task
- III. Preceptor teaches the student how to perform the task.

Student	Preceptor
Observes preceptor	Demonstrates task
Practices task	Instructs in task performance
Demonstrates task	Observes performance
Demonstrates competency	Assess competency

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STUDENT:	PRECEPTOR:
WEEK ENDING:	PHARMACY LOCATION:
Weekly Accomplishments:	
Questions or comments:	

WEEKLY PROGRESS REPORT

Retain copy for your records.

FAX to: Kristina Wittstrom, Radiopharmacy Experiential Coordinator, 505-272-4721

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Student's Evaluation of Radiopharmacy Preceptor

Preceptor	Date
Student-Name	Clerkship Dates

The radiopharmacy clerkship, which serves as experiential training for the Pharm.D. candidate, should provide a wide range of activities and experiences where academic knowledge is applied to radiopharmacy practice. The role of a preceptor is to enhance the Pharm.D. candidate's knowledge, skills, and attitudes necessary for the provision of radiopharmacy services.

To assess the performance of a preceptor, feedback from students is important. Please evaluate your preceptor and the clerkship in the following areas: student development, clerkship content, clerkship site resources, and preceptor professionalism.

1. Student Development

Preceptors should cultivate the student learning process through timely, constructive feedback, encouragement of critical thinking, the use of creative learning techniques, and, if applicable, participation in research. How would you characterize your preceptor in the following areas?

- A. Feedback
- 1. Provided timely feedback regarding my performance. Always Never 2 5 4 3 1
- 2. Gave constructive feedback for improving my performance. Always Never 2 1 5 4 3
- B. Critical Thinking and Integration of Prior Knowledge
- 3. Encouraged independent problem solving. Always Never 2 3 1 5 Δ
- 4. Enhanced my ability to recognize radiation safety issues.

Yes,				NO,
siani	ficantly			not at all
5	4	3	2	1

5. Required me to use evidence and data to support my answers.

Alway	s			Never
5	4	3	2	1

6. Identified gaps/weaknesses in my knowledge base and worked with me to correct them. Poor Excellent

5 4 3 2	1	
---------	---	--

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5 spected met Yes		3 wledge 3	2 and skill	not at all 1 s. No.	
Ye: sig 5	s, nificantly		and skill		
Ye: sig 5	s, nificantly				
5		2		, ,	
-	4	2		not at all	
mmunication		3	2	1	
	Skills				
couraged me	to use and	i develo	p strates	gies to effectively e	licit information from others.
	- 1			No,	
-					
5	4	3	2	1	
		ninolog	y approp		to whom I was speaking.
		_	•		
5	4	3	2	1	
		estions.			
			_		Not Applicable
5	4	3	2	1	
ative Learnin	g Techniqu	es			
					s).
				No,	Not applicable
sigi	nificantly			not at all	
5	4	3	2	1	
	Yes sigr 5 couraged me Alw 5 ative Learning stered an er rsicians, tech Yes	Yes, significantly 5 4 couraged me to use terr Always 5 4 couraged me to ask que Always 5 4 ative Learning Technique stered an environment	Yes, significantly 5 4 3 couraged me to use terminology Always 5 4 3 couraged me to ask questions. Always 5 4 3 ative Learning Techniques stered an environment in whi rsicians, technologists, and other Yes,	Yes, significantly 5 4 3 2 couraged me to use terminology approp Always 5 4 3 2 couraged me to ask questions. Always 5 4 3 2 ative Learning Techniques stered an environment in which I we riscians, technologists, and other health Yes,	Yes, No, significantly not at all 5 4 3 2 1 couraged me to use terminology appropriate to the people Always Never 5 4 3 2 1 couraged me to ask questions. Always Never 5 4 3 2 1 ative Learning Techniques stered an environment in which I was able to coope riscians, technologists, and other health care professionals Yes, No,

II. <u>Clerkship Content</u>

Experiential clerkships are to be structured with clear expectations and a fair grading system. Clerkship assignments should compliment the on-site learning experience. Please evaluate the following:

13. Expectations and objectives were clearly defined at the beginning of the clerkship.

Strong	ly			Strongly
Agree	-			Disagree
5	4	3	2	1

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14. The preceptor worked with me to develop time management skills for completing activities and assignments during the clerkship.

		Strongly Agree				Strongly Disagree
		5	4	3	2	1
15.	The assign	ments d	complin	nented ti	he clerks	ship content.
		Strong	aly			Strongly
		Agree				Disagree
		5	4	3	2	1
16.	The evaluat	ion syst	em use	ed for thi	s clerks	nip adequately measured my performance.
		Strong				Strongly
		Agree				Disagree
		5	4	3	2	1

Comments for clerkship content:

III. Clerkship Site Resources

The physical layout, support staff, and educational materials available on premises must facilitate, and not impede, the educational process.

Please evaluate the following:

17. The physical layout of the clerkship site, including noise, lighting, space and temperature, was conducive to my educational experience.

Stroi Agre	•••			Strongly Disagree	Not applicable
5	4	3	2	1	

18. The staff and other health care professionals at the clerkship site enhanced my educational experience.

Stron	••			Strongly Disagree	Not applicable
1.9.0					
5	4	3	2	1	

19. The resource materials available met my needs for the clerkship.

Stron				Strongly Disagree	Not applicable
Agree	3			Disagree	
5	4	3	2	1	

Comments for clerkship site resources:

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IV. Preceptor's Professionalism

The preceptor should exemplify professional behavior in all aspects of their practice. The preceptor's attitudes and professional interactions should excite students about the practice of pharmacy. How would you characterize the preceptor in each of the following dimensions?

20. Ability to promote pharmacy in a positive light.

Exce	Excellent							
5	4	3	2	1				

21. Encouraged me to participate in professional activities (e.g. professional organizations, seminars, etc.).

Often				Seldom
5	4	3	2	1

22. Accessibility for students to ask questions and seek guidance.

Real	any			Never	
Acce	essible			Accessible	
5	4	3	2	1	

2

23. Interacted with students in an appropriate and professional manner. Strongly Strongly Agree Disagree

3

Comments for preceptor's professionalism:

Δ

V. Preceptor's Skills Inventory

5

In some clinical settings, preceptors physically assess patients for their response to drug therapies. All preceptors should possess good communication and interaction skills. Please evaluate the preceptor on the following:

1

- A., Communications Skills
- 24. Ability to explain. Excellent Poor 5 4 3 2 1
- B. Health Care Provider Interactions
- 25. Ability to practice in an appropriate and professional manner with other health care personnel.

Excel	llent			Poor
5	4	3	2	1

26. Encouraged me to respond to drug-related questions and provide additional information or education to other health care providers when appropriate.

Always No. 5 4 3 2 1

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D. ONING and Anomeoure	D.	Skills	and	Knowledge
------------------------	----	--------	-----	-----------

27.	7. Overall knowledge and skill of the preceptor. Excellent					
		5	4	3	2	Poor 1
28.	Overall ratin	g as a pi Exceller 5		3	2	Poor 1

Comments for preceptor's skills inventory:

We would also appreciate any feedback from you regarding the usefulness of this preceptor evaluation form. Please feel free to include any comments you may have in the space below.

Thank you for your time in completing this important evaluation.

PLEASE FEEL FREE TO COMMENT ON ANY OTHER ASPECT OF THE CLERKSHIP.

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