BELLEVUE COLLEGE

Positron Emission Tomography

Certificate of Accomplishment

STUDENT NAME		SID #	
PROGRAM CHAIR		DATE	

PROGRAM REQUIREMENTS			Requested Substitution/Transfer Credits (if applicable)			Completed		
Course	Course Title	CR	College/University	Course	CR	Grade	Quarter	Year
RAIT 301	Sectional Anatomy	3						
RAIT 358*	Principles of Nuclear Medicine Physics	3						
RAIT 359	Basics of Positron Emission Tomography	3						
RAIT 360	Advanced Positron Emission Tomography	3						
RAIT 361	Clinical Practicum in Positron Emission Tomography	12						
	*Students currently registered in Nuclear Medicine (AART or NMTCB) may substitute another RAIT course approved by the program chair							
GRAND TOTAL		24						

The certificate in Positron Emission Tomography (PET) is designed for persons with certification or registration as radiologic or radiation therapy technologists, who wish to take the certification exam in positron emission tomography (PET). It may also be appropriate for some nuclear medicine technologists. The didactic courses are designed to prepare the student to sit for the Advanced Certification exam administered by the Nuclear Medicine Technology Certification Board. The clinical practicum provides the student with the opportunity to earn some of the 700 hours of clinical PET experience required prior to applying to take the exam. Enrollment in the clinical practicum is not guaranteed and dependent upon grades, site availability, and approval. A selective-application process is utilized to align eligible students with the appropriate clinical site.

PREREQUISITES

- National certification as radiologic technologists, radiation therapy technologists, and/or nuclear medicine technologists (the latter requiring some substitutions)

LEARNING OUTCOMES

Certificate recipients should possess the skills & abilities described below:

- Discuss the composition, operation, and evaluation of a PET tomograph.
- Describe the standardized uptake value, its uses in clinical PET, and factors affecting it.
- Discuss mechanisms and issues related to the production of PET radionuclides and radiopharmaceuticals.
- Outline important concepts of nuclear medicine physics and their application to radiation protection in PET
- Identify patient preparation and imaging protocols for oncologic, cardiac, and neurologic applications of PET, including the use of interventional pharmaceuticals.
- Evaluate PET and PET/CT images with regard to clinical needs, image quality, and artifacts.
- Discuss reimbursement issues related to PET.
- Analyze case studies and emergency situations in the context of PET.
- Discuss the benefits generated by combining PET tomographs with computed tomography or magnetic resonance imaging.

FOR MOST UP-TO-DATE INFORMATION, GO TO:

www.bellevuecollege.edu/programs/degrees/proftech/imaging/#positron

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