

Evaluation Form

Printed on Jan 10, 2022

NUCLEAR Cardiology Rotation- Faculty of Fellow rev 2020

Evaluator: _____

Evaluation of: _____

Date: _____

This evaluation uses a 10 point scale that ranges across six performance descriptors. Please select the radio button that most closely reflects your assessment of fellow performance. You are encouraged to provide additional feedback using the comments section of the form.

Not Yet Assess...	Level 1	Level 2	Level 3	Level 4	Level 5
Not able to assess or not applicable for level of training	Baseline performance - Direct supervision	Novice / early progress - Direct supervision	Substantial competency - Indirect supervision	Proficient / Independent competency - ready for autonomous practice	Advanced expertise

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1. Identify indications and contraindications for exercise treadmill testing (without imaging)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Knows basic uses of exercise stress testing (without imaging)		Demonstrates knowledge of indications and contraindications for exercise treadmill testing Explains advantages and drawbacks of exercise stress testing without imaging		Demonstrates knowledge of appropriate selection and use of stress testing for patients with common cardiovascular disorders Justifies selection of exercise stress testing without imaging based on individual patient presentation		Applies knowledge of appropriate selection and use of cardiovascular stress testing, without imaging, for patients with complex cardiovascular disorders		Advances knowledge in indications, contraindications and appropriate use for cardiovascular stress testing

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2. Demonstrates an understanding of and is able to conduct exercise stress ECG testing with and without imaging

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Discusses the key steps of ECG stress testing Interprets electrocardiogram (ECG) patterns for common clinical conditions		Performs and interprets ECG stress testing, with and without imaging, with guidance		Interprets complex ECG stress tests, with guidance		Independently performs and interprets ECG stress testing		Independently cross-correlates results of other common cardiovascular tests with ECG stress test results

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3. Identify indications and contraindications for pharmacological stress agents and protocols.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Knows the various types of pharmacological stress agents		Demonstrates basic knowledge of indications and contraindications for use of common pharmacological stress agents		Demonstrates knowledge of appropriate selection and use of a range of pharmacological stress agents for common cardiovascular disorders		Applies knowledge of appropriate selection and use of pharmacological stress agents for patients with complex cardiovascular disorders		Advances knowledge in indications, contraindications and appropriate use for a range of pharmacological stress agents

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4. Demonstrates an understanding of and is able to conduct pharmacological stress protocols.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Discusses the key components of how		Demonstrates knowledge of indications		Demonstrates knowledge of appropriate		Applies knowledge of appropriate		Advances knowledge in defining

	to perform stress testing, including patient set up and consent		and contraindications for various stress testing modalities; Knows the basic measurements obtained from the various testing modalities; Conducts stress testing protocols, w/guidance		selection and use of various stress testing modalities for common CV disorders Competently conducts stress testing protocols with indirect supervision		selection and use of various stress testing protocols for complex CV disorders Identifies key test findings in complex CV disorders Independently conducts various stress test protocols, including dobutamine stress and adenosine stress		the role of stress testing
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5. Identify indications for stress testing with myocardial perfusion imaging.

<input type="checkbox"/>	<input type="checkbox"/> Knows basic uses of stress myocardial perfusion imaging	<input type="checkbox"/>	<input type="checkbox"/> Demonstrates knowledge of indications for stress myocardial perfusion imaging Explains advantages and drawbacks of stress myocardial perfusion imaging	<input type="checkbox"/>	<input type="checkbox"/> Demonstrates knowledge of appropriate selection and use of stress myocardial perfusion imaging for patients with common cardiovascular disorders Justifies selection of stress myocardial perfusion imaging based on individual patient presentation	<input type="checkbox"/>	<input type="checkbox"/> Applies knowledge of appropriate selection and use of cardiovascular stress testing, with imaging, for patients with complex cardiovascular disorders	<input type="checkbox"/>	<input type="checkbox"/> Advances knowledge in indications and appropriate use for stress myocardial perfusion imaging
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6. Can identify indications for stopping stress testing, both pharmacologic and exercise.

<input type="checkbox"/>	<input type="checkbox"/> Discusses the key steps of the test Interprets electrocardiogram (ECG) patterns for common clinical conditions that preclude exercise stress testing (LBBB, WPW, etc)	<input type="checkbox"/>	<input type="checkbox"/> Demonstrates knowledge of indications and contraindications for stress testing Knows the basic measurements commonly obtained from stress testing modalities and knows acceptable parameters for safe testing based on ASNC guidelines	<input type="checkbox"/>	<input type="checkbox"/> Identifies and interprets measurements falling outside parameters of safety for various testing modalities, with guidance Understands implications of measurements exceeding safety limits for various modalities	<input type="checkbox"/>	<input type="checkbox"/> Independently identifies and interprets measurements falling outside parameters of safety for various testing modalities; Exercises independent judgment in stopping testing	<input type="checkbox"/>	<input type="checkbox"/> Advances knowledge in defining the safety parameters of various stress testing modalities
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7. Demonstrates knowledge and appreciation of radiation safety.

<input type="checkbox"/>	<input type="checkbox"/> Can identify in general terms that amount of radiation exposure from common cardiovascular imaging tests	<input type="checkbox"/>	<input type="checkbox"/> Demonstrates basic knowledge of radiation safety protocols and radiation safety monitoring programs	<input type="checkbox"/>	<input type="checkbox"/> Consistently demonstrates adherence to radiation safety protocols Able to explain radiation safety guidelines and reasoning	<input type="checkbox"/>	<input type="checkbox"/> Able to identify/recognize gaps in radiation safety protocols and offer solutions for mitigation Able to explain in detail the	<input type="checkbox"/>	<input type="checkbox"/> Participates in guidelines development for radiation safety improvements Actively coaches others in safety protocols
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							amount of radiation exposure from both common and less common cardiovascular imaging procedures (SPECT, PET, various isotopes, CTA)		
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8. Demonstrates an understanding of the basic physics of nuclear imaging, including participation in nuclear cardiology 80 hour course

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Demonstrates knowledge of the principles of radiation safety and how to minimize exposure		Knows the common uses radioisotopes used in nuclear cardiology (Tc99m, TI-201, Rb-82, FDG). Has completed Week 1 of 80 hour course		Knows the basic radiation biology (t/12, dosimetry) of radioisotopes used in nuclear cardiology (Tc99m, TI-201, Rb-82, FDG). Has completed Week 2 of 80 hour course		Is able to integrate knowledge of all radioisotopes used in nuclear cardiology (Tc99m, TI-201, Rb-82, FDG) to tailor imaging protocols to the patient and question answered.. Has completed Week 3 of 80 hour course		Has completed all requirements of 80 hour course and hands on training to be listed as an Authorized User of Radiopharma
							Demonstrates understanding of hybrid imaging modalities such as SPECT/CT and PET/CT		

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9. Is able to identify and describe limitations the appropriate test selection for patients based on the clinical question

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Discusses the key steps of the determining the appropriateness various testing modalities (stress ECG, MPI, echo, CTA) Can list common limitations of the various testing modalities		Identifies standard protocols for various imaging modalities; Knows the basic data obtained from the various testing modalities and can identify abnormal parameters indicating possible artifacts; Can describe limitations of nuclear imaging studies in relation to one another		Can identify common artifacts in studies from various imaging modalities, w/guidance		Independently identifies common artifacts in studies from various imaging modalities; Recognizes artifacts in studies from unusual or complex presentations	Advances knowledge in defining the role of nuclear imaging Independently identifies the appropriate imaging study in patients with complex cardiovascular disorders

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10. Accurately interprets SPECT and PET myocardial perfusion imaging studies and compares to prior study when available.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Demonstrates how to access current images and use available evidence to provide a basic interpretation of perfusion images		Knows the how to get basic measurements of perfusion defect size and left/right ventricular size/function; Interprets stress		Competently interprets myocardial perfusion imaging and stress test results and routinely incorporates longitudinal data, with		Independently interprets and documents myocardial perfusion imaging, stress test results, and ancillary data (CTAC) in stress	Independently interprets and integrates complex features of myocardial perfusion imaging, stress test results, and CT

	to manage a patient with cardiac disease		test results, including incorporation of stress ECG data, with guidance		indirect supervision, including structured reporting of defect size		tests in common clinical conditions		attenuation correction data for patients with complex clinical conditions
	Understands standard tomographic views								

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11. Accurately protocols and interprets FDG PET studies (sarcoïd and viability)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Discusses the key protocols of FDG PET studies, including general knowledge of patient preps for viability and inflammatory imaging		Knows the basic measurements obtained from PET FDG studies; Interprets FDG PET study results for common clinical conditions, w/guidance			Competently interprets FDG PET study results for common clinical conditions, with minimal guidance, including use of hybrid imaging workflow; Recognizes limitations in interpretation of PET study results for complex clinical conditions		Independently interprets FDG PET studies results for common clinical conditions; Interprets FDG PET study results for complex clinical conditions, with guidance	Independently interprets FDG PET study results for complex clinical conditions
			Coordinates dietary preparation of patients undergoing FDG studies, with guidance					Coordinates dietary preparation of patients for FDG studies, with guidance	Coordinates dietary preparation for patients undergoing FDG studies for complex scenarios

12. Accurately protocols and interprets Tc99m PYP studies for cardiac amyloidosis

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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13. Identifies indications for, performance, and interpretation of radionuclide equilibrium angiocardigram

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Discusses the key steps of the test, including basic knowledge of RBC tagging Interprets radionuclide angiography for common clinical conditions		Demonstrates knowledge of indications and contraindications for radionuclide angiography Knows the basic measurements commonly obtained from a radionuclide equilibrium angiocardigram and knows acceptable parameters for safe testing			Identifies and interprets radionuclide equilibrium angiocardigram measurements falling outside parameters of safety, with guidance; Understands implications of measurements exceeding safety limits and implications of halting chemotherapy		Independently identifies and interprets radionuclide equilibrium angiocardigram measurements falling outside parameters of safety; Exercises independent judgment in halting chemotherapy Able to identify artifacts related to processing of imaging and RBC tagging on RNA	Advances knowledge in defining the safety parameters chemotherapy in nuclear CV testing

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14. Processes and identifies abnormalities of PET myocardial blood flow imaging

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Discusses the key steps of the test and normal study results, including identifying motion artifact and input function curves		Recognizes normal values for myocardial blood flow Knows the basic measurements obtained for myocardial blood flow			Demonstrates competency in interpretation of key measures and key functions, integrating myocardial blood flow and relative perfusion data		Independently quantifies myocardial blood flow measurements and evaluates key functions, including when and how to perform rate-pressure correction	Advances knowledge in nuclear studies and interpretation

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15. Learns and improves via feedback and participates in lab QA programs

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	Accepts responsibility for personal and professional development by establishing goals; Acknowledges limits and gaps between expectations and performance; demonstrates self-awareness Understands lab QA programs, including nuclear/cath correlation		Demonstrates openness to feedback and performance data in order to form goals; Analyzes the factors which contribute to limits and gaps; demonstrates appropriate help-seeking behaviors Responds to performance feedback from nuclear lab staff			Occasionally seeks feedback and performance data with adaptability and humility Presents nuclear-cath correlation conference effectively			Systematically seeks feedback and performance data with adaptability and humility		Coaches others to seek feedback and performance data

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16. Initiates follow up discussion of abnormal findings and interviews patient regarding symptoms.

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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	Takes responsibility for failure to complete tasks and responsibilities; Demonstrates respect and establishes rapport		Performs tasks and responsibilities in a timely manner with appropriate attention to detail, including consenting patients			Attempts to minimize communication barriers, including reflection on any personal biases Adjusts communication style to			Proactively minimizes communication barriers and independently manages personal biases; Independently, uses shared decision making		Role models self-awareness to minimize communication barriers; Role models shared decision making

	in patient encounters; Knows barriers to effective communication (e.g., language, disability, health literacy, cultural, personal bias)	Identifies barriers to effective communication in patient encounters; Organizes and initiates communication with patient/family to facilitate shared decision making	facilitate communication and ensure patient comprehension during consent	to implement a personalized care plan	
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17. Communicates findings of stress testing and imaging to inter professional teams.

<input type="checkbox"/>	<input type="checkbox"/> Accurately records information in the patient record; Uses language that values all members of the health care team Knows all members of the stress lab team (RNs, techs, PAs)	<input type="checkbox"/>	<input type="checkbox"/> Demonstrates organized diagnostic and therapeutic reasoning through notes in the patient record; Respectfully and thoroughly completes effective documentation and communication; Communicates information effectively with all health care team members; Interacts effectively with chest pain center	<input type="checkbox"/>	<input type="checkbox"/> Concise reports diagnostic and therapeutic reasoning in the patient record; Adapts communication style to fit team needs Effectively uses electronic communication (MHB, EPIC messaging) to inform providers of test findings	<input type="checkbox"/>	<input type="checkbox"/> Independently communicates timely information in a written format and verbally when appropriate; Coordinates recommendations from different members of the health care team to optimize patient care	<input type="checkbox"/>	<input type="checkbox"/> Models written communication to improve others' performance; Role models flexible communication strategies that value input from all health care team members
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18. COMMENTS:
