Evaluation Form

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medhub

ECHO Rotation - Faculty of Fellow rev 2021

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 Asses…	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. Defines the appropriate indications for: M-mode, 2-D and 3-D transthoracic echocardiography (TTE); Doppler echocardiography and color flow imaging; transesophageal echocardiography (TEE); tissue Doppler & strain imaging; contrast echocardiography; stress echocardiography	☐	☐	☐	☐	☐	☐	☐	☐	☐
		Basic understanding of underpinning concepts; Discusses the key steps of the test		Demonstrates knowledge of indications and contraindications for each aspect of echocardiography; Knows the basic measurements obtained from each technology.		Demonstrates knowledge of appropriate selection and use of echocardiography for patients with common cardiovascular disorders; Identifies key test findings in common cardiovascular disorders;		Applies knowledge of appropriate selection and use of echocardiography for patients with complex cardiovascular disorders		Advances knowledge in indications, contraindicati and appropriate use for echocardiogr

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2. Identifies the limitations and potential artifacts of all forms of echocardiographic exams.

☐	☐	☐	☐	☐	☐	☐	☐	☐
	Basic understanding of underpinning concepts		Knows the basic artifacts of the echocardiographic examination.		Knows all artifacts of the echocardiographic examination.		Independently identifies artifacts while interpreting echocardiographic studies.	Independently interprets artifacts and understands the mechanism behind them.

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3. Is able to quantify cardiac chamber sizes, evaluate left and right ventricular systolic and diastolic function, and hemodynamics.

☐	☐	☐	☐	☐	☐	☐	☐	☐
	Basic understanding of underpinning concepts; Discusses the key steps of the test		Obtains and identifies standard views for transthoracic echocardiography; Knows the basic measurements obtained from the echocardiographic examination		Performs and interprets a complete transthoracic echocardiography, with guidance; Demonstrates competency in interpretation of key measures and key functions		Independently performs and interprets transthoracic echocardiography; Independently quantifies cardiac measurements and evaluates key functions	Advances knowledge in indications and appropriate use of echocardiogr and Doppler

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4. Appropriately uses echo and Doppler data to evaluate native and prosthetic valve function and diseases.

☐	☐	☐	☐	☐	☐	☐	☐	☐
	Basic understanding of underpinning concepts; Discusses the key steps of the test		Obtains and identifies standard views for echocardiography and Doppler evaluation of valve		Performs and interprets a complete echocardiography results, with guidance Demonstrates knowledge		Independently performs and interprets echocardiography in the evaluation of valve function	Advances knowledge in indications and appropriate use of echocardiogr and Doppler in the evaluation

function

Demonstrates knowledge of indications for echo and Doppler to evaluate valve function

Knows the basic measurements obtained from echo and Doppler use

| | of appropriate selection and use of echo and Doppler for patients with vavular disorders | | of valve function |

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5. Identifies characteristic findings of cardiomyopathies.

	☐	☐	☐	☐	☐	☐	☐	☐	☐
	Basic understanding of underpinning concepts; Discusses the key steps of the test for evaluation of cardiomyopathy		Obtains and identifies standard views for transthoracic echocardiography to diagnose cardiomyopathy; Knows the basic measurements used in echocardiographic evaluation of cardiomyopathy.		Performs and interprets a complete transthoracic echocardiography, and can apply to diagnosis of cardiomyopathy. Identifies characteristic findings in various types of cardiomyopathy.		Independently performs and interprets transthoracic echocardiography, and can apply to diagnosis of cardiomyopathy. Differentiates and identifies findings in various types of cardiomyopathy.		Advances knowledge in indications and appropriate use of echocardiogr and Doppler in cardiomyopat

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Not able to	Baseline performance -	Novice / early progress - Direct	Substantial competency - Indirect	Proficient / Independent	Advanced expertise

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6. Is able to define the echo and

☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

| | Doppler findings of cardiac ischemia and infarction, and the complications of myocardial infarction. | Basic understanding of underpinning concepts; Discusses the key steps of the test | Obtains and identifies standard views for transthoracic echocardiography in the evaluation of myocardial ischemia and infarction; Able to discriminate findings consistent with cardiac ischemia and infarction, with guidance | Interprets a complete transthoracic echocardiography, with guidance; Able to discriminate findings consistent with cardiac ischemia and complications of myocardial infarction, with minimal guidance | Independently performs and interprets transthoracic echocardiography and identifies findings consistent with ischemia and complications of myocardial infarction | Advances knowledge in indications and appropriate use of echocardiogr and Doppler in the assessment of myocardial ischemia and infarction |

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7. Is able to identify the echo findings of pericardial disease, pericardial effusion, and pericardial constriction.	☐		☐		☐		☐		☐		☐
	Basic understanding of underpinning concepts; Discusses the key steps of the test		Obtains and identifies standard views for echocardiography and Doppler evaluation of pericardial disease		Performs and interprets a complete echocardiography results, with guidance Appropriately identifies findings of pericardial disease, when present		Independently performs and interprets echocardiography in the evaluation of pericardial disease		Advances knowledge in indications and appropriate use of echocardiogr and Doppler in the evaluation of pericardial disease	

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8. Defines the characteristic findings of common adult congenital heart diseases.

☐	☐	☐	☐	☐	☐	☐	☐	☐
	Basic understanding of underpinning concepts; Discusses the key steps of the test		Obtains and identifies standard views for transthoracic echocardiography Able to discriminate findings consistent with common adult congenital heart diseases, with guidance		Interprets a complete transthoracic echocardiography, with guidance; Able to discriminate common adult congenital heart diseases, with minimal guidance		Independently performs and interprets transthoracic echocardiography; Able to independently discriminate common adult congenital heart disease		Advances knowledge in indications and appropriate use of echocardiogr and Doppler in the evaluation of adult congenital heart disease

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9. Appropriately determines the echo evaluation of cardiac masses, and suspected endocarditis.

☐	☐	☐	☐	☐	☐	☐	☐	☐
	Basic understanding of underpinning concepts; Discusses the key steps of the test		Obtains and identifies standard views for echocardiography and Doppler evaluation of cardiac masses, or suspected endocarditis		Performs and interprets a complete echocardiography results, with guidance Appropriately identifies and defines cardiac masses and suspected endocarditis		Independently performs and interprets echocardiography in the evaluation of cardiac masses and endocarditis		Advances knowledge in indications and appropriate use of echocardiogr and Doppler in the evaluation of cardiac masses and endocarditis

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10. Understands echo based evaluation of diseases of the aorta.	☐	☐ Basic understanding of underpinning concepts; Discusses the key steps of the test	☐	☐ Obtains and identifies standard views for echocardiography and Doppler evaluation of the aorta	☐	☐ Performs and interprets a complete echocardiography results, with guidance Demonstrates competency in of use of echo in the evaluation of the aorta and interpretation of results	☐	☐ Independently performs and interprets echocardiography in the evaluation of aorta	☐	☐ Advances knowledge in indications and appropriate use of echocardiogr and Doppler in the evaluation of aorta

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11. Calculates pulmonary artery pressure from doppler data and identifies diseases of the right heart.	☐	☐ Basic understanding of underpinning concepts; Discusses the key steps of the test	☐	☐ Obtains and identifies standard views for echocardiography and Doppler evaluation of pulmonary artery pressure and diseases of the right heart	☐	☐ Performs and interprets a complete echocardiography study of the right heart, with guidance; Correctly calculates pulmonary artery pressure from Doppler data	☐	☐ Independently performs and interprets echocardiography in the evaluation of the right heart	☐	☐ Advances knowledge in indications and appropriate use of echocardiogr and Doppler in the evaluation of the right heart

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12. Is able to evaluate patients with systemic diseases involving the heart.

☐	☐	☐	☐	☐	☐	☐	☐	☐
	Basic understanding of how echo and Doppler can be used to evaluate patients with common systemic diseases involving the heart		Demonstrates knowledge of indications and contraindications for cardiovascular testing using echo and Doppler in systemic diseases involving the heart		Demonstrates knowledge of appropriate selection and use of echo and Doppler testing for patients with common systemic diseases involving the heart		Applies knowledge of appropriate selection and use of echo and Doppler for patients with complex systemic diseases involving the heart		Advances knowledge in defining the role of cardiovascular testing in patients with systemic disease involving the heart.

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13. Is able to recognize the indications for and the echocardiographic findings in patients with known or suspected cardio-embolic events.

☐	☐	☐	☐	☐	☐	☐	☐	☐
	Basic understanding of how echo and Doppler can be used to evaluate patients with known or suspected cardio-embolic events		Obtains and identifies standard views for echocardiography and Doppler evaluation in patients with known or suspected cardio-embolic events		Performs and interprets a complete echocardiography study, identifying findings consistent with cardio-embolic events, or absence of such findings, with guidance		Independently performs and interprets echocardiography in the evaluation of cardio-embolic events		Advances knowledge in indications and appropriate use of echocardiography and Doppler in the evaluation of cardio-embolic events

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14. Level of competence for the performance of the comprehensive TTE exam	☐	☐	☐	☐	☐	☐	☐	☐	☐
		Basic understanding of underpinning concepts; Discusses key steps of a transthoracic echocardiogram.		Obtains and identifies standard views for transthoracic echocardiography with guidance.		Obtains and identifies standard views for transthoracic echocardiography without guidance. Obtains and identifies complex views for transthoracic echocardiography with guidance.		Independently performs and interprets transthoracic echocardiography in both basic and complex settings.	Advances knowledge in indications and appropriate use of transthoracic echocardiogr

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15. Level of competence for interpretation of the comprehensive TTE exam.	☐	☐	☐	☐	☐	☐	☐	☐	☐
		Discusses the key steps of a transthoracic echocardiogram		Identifies standard views for transthoracic echocardiography with guidance.		Interprets a complete transthoracic echocardiogram, with guidance;		Independently interprets a complete transthoracic echocardiogram.	Advances knowledge in interpretation of transthoracic echocardiogr

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16. Level of competence for interpretation of the combined stress echocardiography and stress ECG exam.	☐	☐	☐	☐	☐	☐	☐	☐	☐
		Basic understanding of underpinning		Demonstrates knowledge of indications		Demonstrates knowledge of appropriate		Applies knowledge of appropriate	Advances knowledge in indications,

concepts; Interprets electrocardiogram (ECG) patterns for common clinical conditions; Discusses test selection (dobutamine versus exercise).	and contraindications for stress echocardiography; Performs and interprets stress ECG testing with guidance. Knows the basic measurements obtained from stress echocardiography and can interpret basic findings with guidance.	selection and use of stress echocardiography for patients with common cardiovascular disorders (i.e. assessment of myocardial ischemia). Interprets stress ECG findings and stress echocardiography exercise performed for ischemia independently; Interprets complex stress echocardiography (valvular heart disease, myocardial viability) with guidance.	selection and use of stress echocardiography for patients with complex cardiovascular disorders (i.e. valvular heart disease, myocardial viability, etc) Independently performs and interprets exercise and dobutamine stress echocardiography (for both basic and complex indications).	contraindicati and appropriate use for stress echocardiogr Advances knowledge in defining the role of cardiovascula testing

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	Not Yet Asses…	Level 1		Level 2		Level 3		Level 4		Level 5
17. Level of competence for performance of the TEE exam.	☐	☐ Discusses the key steps of a transesophageal echocardiogram	☐	☐ Obtains and identifies standard views for transesophageal echocardiography with guidance.	☐	☐ Obtains and identifies standard views for transesophageal echocardiography without guidance; Obtains and interprets complex views with guidance.	☐	☐ Independently performs and interprets transesophageal echocardiography (both basic and complex views).	☐	☐ Advances knowledge in interpretation of transesophag echocardiogr

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18. Level of competence for interpretation of the TEE exam.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		Discusses key steps of a transesophageal echocardiogram.		Interprets standard views of transesophageal echocardiography, with guidance		Interprets standard views of transesophageal echocardiography without guidance. Interprets complex views of transesophageal echocardiography with guidance.		Independently interprets both standard and complex views of transesophageal echocardiography.		Advances knowledge in interpretation of transesophag echocardiogr

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19. Learns and improves via feedback.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		Acknowledges limits and gaps between expectations and performance; demonstrates self-awareness		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		Occasionally seeks feedback and performance data with adaptability and humility;		Systematically seeks feedback and performance data with adaptability and humility		Coaches others to seek feedback and performance data

Not Yet Asses…	Level 1	Level 2	Level 3	Level 4	Level 5

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20. Learns and improves at the point of care by incorporating evidence-based medicine.	☐	☐	☐ Demonstrates how to access and use available evidence to manage a patient with cardiac disease	☐	☐ Articulates clinical questions and elicits patient preferences to guide evidence-based care	☐	☐ Locates and applies the best available evidence to the care of patients with complex cardiac disease while integrating patient preference	☐	☐ Critically appraises and applies available, potentially conflicting evidence to guide care of an individual patient	☐	☐ Develops initiatives to educate others to critically appraise and apply evidence for complex patients and/or participates in the development of guidelines

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21. Demonstrates ability to communicate with health care teams, and patients, the salient findings of an echo exam.	☐	☐	☐ Demonstrates respect and establishes rapport in pt encounters; Knows barriers to effective communication (e.g., language, disability, health literacy, cultural, personal bias); Identifies the need to adjust communication strategies	☐	☐ Identifies barriers to effective communication in patient encounters; Organizes and initiates communication with patient/family to facilitate shared decision making; Communicates information effectively with all health care	☐	☐ Attempts to minimize communication barriers, including reflection on any personal biases; Uses shared decision making to implement a personalized care plan, under guidance; Completes effective documentation and	☐	☐ Proactively minimizes communication barriers and independently manages personal biases; Independently, uses shared decision making to implement a personalized care plan; Completes effective documentation and communication in	☐	☐ Role models self-awareness to minimize communication barriers Role models shared decision making; Role models flexible communication strategies that value input from all health care team members

	to achieve shared decision making; Uses language that values all members of the health care team		team members		communication in common cases, with indirect supervision; Adapts communication style to fit team needs		complex cases		

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22. COMMENTS:

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