

## Zucker School of Medicine at Hofstra/Northwell at Vassar Brothers Medical Center Cardiovascular Disease Fellowship Program Block Schedule

PGY4	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7	Block 8	Block 9	Block 10	Block 11	Block 12	Block 13
Rotation Name:	Consults	CCU	Inpatient Cardiology	Consults	CCU	Inpatient Cardiology	Consults/CCU / Inpatient Cardiology	Cardiac Imaging - MRI/CT/ Nuclear	Echo/ Doppler	Echo/ Doppler	Cath	Cath	Heart Failure
Site:	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1
Percent Outpatient Percent Research:	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%

PGY5	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7	Block 8	Block 9	Block 10	Block 11	Block 12	Block 13
Rotation Name:	Consults	CCU	Inpatient Cardiology	Cardiac Telemetry	Heart Failure	EP	Cardiac Imaging - MRI/CT/ Nuclear	Cardiac Imaging - MRI/CT/ Nuclear	Echo/ Doppler	Echo/ Doppler	Cath	Elective	Elective
Site:	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1		
Percent Outpatient	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Percent Research:													

PGY6	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7	Block 8	Block 9	Block 10	Block 11	Block 12	Block 13
Rotation Name:	Echo/ Doppler	Echo/ Doppler	Echo/ Doppler	Cath	CV Surgery	Heart Failure	Cardiac Telemetry	EP	Cardiac Imaging - MRI/CT/ Nuclear	Cardiac Imaging - MRI/CT/ Nuclear	Research	Elective	Elective
Site:	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1			
<b>Percent Outpatient</b>	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Percent Research:													

Sites: Site 1 = Vassar Brothers Medical Center (VBMC)

DEFINITIONS	S:
EP	Electrophysiology
Cath	Cardiac Catherization
CCU	Cardiac Critical Care Unit
<b>CV</b> Surgery	Cardiovascular Surgery
Vacation	All fellows are given 4 weeks of vacation per year.
	Fellows can use elective time to gain additional training towards level II or III certification in areas of interest (echo, nuclear, CT/MRI, cath, EP, etc) or tailor their training for any specialized curriculum
Elective	in discussion with the Program Director.

	Week 1	Week 2	Week 3	Week 4
F1 - 1	Consults	Consults	Consults	Consults
F1 - 2				
F1 - 3				
F1 - 4				
F2 - 1				
F2 - 2				
F2 - 3				
F2 - 4				
F3 - 1				
F3 - 2				
F3 - 3				
F3 - 4				
Consults	1	1	1	1
Inpatient				
Cardiology	0	0	0	0
CCU	†			
	1 0	0	0	0

Week 5	Week 6	Week 7	Week 8	Week 9
				_
Consults	Consults	Consults	Consults	
				Consults
				_
				_
1	1	1	1	1
0	0	0	0	0
0	0	0	0	0
_	_	_	_	_

Week 10 Week 11 Week 12 Week 13 Week 14

Consults	Consults	Consults		
			Consults	Consults

Week 15	Week 16	Week 17	Week 18	Week 19	Week 20
		Consults	Consults	Consults	Consults

1		1	1	1	1	1
		•	•	•	•	•
Ü	•	U	U	U	0	U
0	1	0	0	0	0	0

 Week 21
 Week 22
 Week 23
 Week 24
 Week 25
 Week 26

Consults Consults Consults

0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

0	0	0	0	0	0
0	0	0	0	0	0
Λ	Ω	Λ	Λ	0	0

Week 51	Week 52	Consults	Inpatient Cardiology	CCU
		8	0	0
		8	0	0
		4	0	0
		4	0	0
		0	0	0
			0	0
		0	0	0
		0	0	0
		0	0	0
		0	0	0
		0	0	0
		0	0	0
0	0	0	0	0
^	•	2	2	2
0	0		0	0
0	0		0	0
		0	0	0



## Zucker School of Medicine at Hofstra/Northwell at Vassar Brothers Medical Center Cardiovascular Disease Fellowship Program Sample Block Schedule

Nuvance Health is joining Northwell	II .					Sample Bloc	k Schedule					
PGY4	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7	Block 8	Block 9	Block 10	Block 11	Block 12
Rotation Name:	Echo/ Doppler	Echo/ Doppler	Cath	Cath	Consults	CCU	Inpatient Cardiology	Cardiac Telemetry	EP	Cardiac Imaging - MRI/CT/ Nuclear	Cardiac Imaging - MRI/CT/ Nuclear	Heart Failure
Site:	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1
Percent Outpatient	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Percent Research:												
PGY5	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7	Block 8	Block 9	Block 10	Block 11	Block 12
Rotation Name:	Echo/ Doppler	Echo/ Doppler	Cath	Cath	Consults	CCU	Inpatient Cardiology	Consults/CCU/ Inpatient Cardiology	Cardiac Telemetry	EP	Cardiac Imaging - MRI/CT/ Nuclear	Elective
Site:	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1
Percent Outpatient	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Percent Research:												
PGY6	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7	Block 8	Block 9	Block 10	Block 11	Block 12
Rotation Name:	Echo/ Doppler	Echo/ Doppler	Echo/ Doppler	Cardiac Imaging - MRI/CT/ Nuclear	Cardiac Imaging - MRI/CT/ Nuclear	Consults	CCU	Inpatient Cardiology	CV Surgery	Heart Failure	Research	Elective
Site:	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1	Site 1
Percent Outpatient	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Percent Research:												

Sites:	Site 1 = Vassar Brothers Medical Center (VBMC)
INITIONS:	
	All fellows are given 4 weeks of vacation per year. Vacation cannot be taken during consutls/CCU, Inpatient Cardiology, Cath, & Teaching Service
Vacation	
Elective	Elective options include:

Curriculum
Organization and
<b>Fellow Experiences</b>

- Rotations must be of sufficient length to provid relationships with faculty members to allow for and feedback.
- Rotations must be structured to allow fellows t effective interprofessional team that works tog goals of patient safety and quality improvemen
- Schedules must be structured to minimize conf outpatient responsibilities.
- . A minimum time must be spent in the following
  - 24 months (minimum) clinical experie and special experiences;
  - 3 months cardiac catheterization labo
  - 6 months non-invasive cardiac evaluation
     following:
    - 3 months (minimum) Echocar
    - 3 months Cardiac imaging (to
    - cardiology, CT imaging, and MF
  - 2 months Electrophysiology
  - 9 months non-laboratory clinical prac
  - Clinical Experience (and formal instruct
    - mechanical hemodynamic and devices
    - interventional electrophysiolog
    - interventional procedures
- Assessment of procedural competence should is process and not be based solely on a minimum performed.
- The program must provide educational experie interact with and learn from other health care physicians in other specialties, advanced practic workers, physical therapists, case managers, landieticians, to achieve effective, interdisciplinary team-based care.
- Assessment of procedural competence should i process and not be based solely on a minimum performed.

de longitudinal r meaningful assessment

to function as part of an gether towards the shared at. flicting inpatient and

g areas: ence, including inpatient

oratory itions, consisting of the

rdiography include nuclear RI.)

ctice activities tion) in: circulatory support

gic procedures,

include a formal evaluation number of procedures

ences that allow fellows to professionals, such as ice providers, nurses, social nguage interpreters, and y, and interprofessional

include a formal evaluation number of procedures

Minimum requirements*  competent consultant of the compet	Manage chronic cardiac conditions  cardiologist  linical cardiology  High-quality 12- lead ECG interpretation Interpret	Minimum requirements* non-invasive car procedural skills
Continuity clinic ≥40 weeks / year  Competent consultant 1 month prevention 6-12 months general cl	Manage chronic cardiac conditions  cardiologist  linical cardiology  High-quality 12- lead ECG interpretation Interpret	non-invasive care procedural skills
Continuity clinic ≥40 weeks / year  Competent consultant 1 month prevention 6-12 months general cl	Manage chronic cardiac conditions  cardiologist  linical cardiology  High-quality 12- lead ECG interpretation Interpret	procedural skills
Competent consultant 1 month prevention 6-12 months general cl	conditions  cardiologist  linical cardiology  High-quality 12- lead ECG interpretation Interpret	
1 month prevention 6-12 months general cl	High-quality 12- lead ECG interpretation Interpret	
6-12 months general cl	High-quality 12- lead ECG interpretation Interpret	
	High-quality 12- lead ECG interpretation Interpret	
≥3000 ECGs	lead ECG interpretation Interpret	
≥3000 ECGs	lead ECG interpretation Interpret	
	interpretation Interpret	
	Interpret	
	ambulatory ECG	
	monitoring	
	stress test	
recognize appropriate a modalities	use of cardiac imaging	
	Expertise in at least two	7
	imaging modalities	
basic competency in pe	independent into	
3 months	Integrate basic TTE	6 months
Interpret 150 Perform	images in clinical	interpret 300
75	practice	perform 150
	3-11.11.11.11.11	
		NBE Exam
conversant with the fie	practice clinical and interpretation	
2 months	Integrate puclear studies	4 months
		300 studies
200 studies	in patient care	700 hours
		perform 30 stud
		CBNC exam
	perform and inte	
	Integrate CCT in nations	80 at scanner
		Interpret 250
merpret 50		CBCCT exam
		perform and into
1 month	Interpret LGF Integrate	3 months
		Interpret 150
	January Pottern Core	Acquire 50
		CBCMR exam
	modalities  basic competency in personal support of the second of the se	Interpret exercise stress test  recognize appropriate use of cardiac imaging modalities  Expertise in at least two imaging modalities  basic competency in performing and viewing TTE  3 months Interpret 150 Perform 75  Integrate basic TTE images in clinical practice  conversant with the field of nuclear cardiology  2 months 100 studies  Integrate nuclear studies in patient care  understand principles, indications, and technical limitations of CCT  15 at scanner Interpret 50  Integrate CCT in patient care

/ascular Medicine	integrating knowledge of patients	interpret noninve	
		Perform and interpret ABI	500 studies PVI examination
Cardiac Catheterization	4 months 100 diagnostic	Pre-procedural evaluation Venous and arterial access	perform diagnosi 6 months 300 diagnostic
	50 angiography 25 hemodynamics	Hemostasis Right heart catheterization Post-procedure care	100 peripheral
Arrhythmia Diagnosis and Management, Cardiac Pacing, and Electrophysiology	arrhythmia managemen practice 2 months 5 temporary pacemakers 20 cardioversions	Cardioversion Defibrillation Temporary pacemaker Medically manage atrial and ventricular arrhythmias Refer for device therapy and catheter ablation	advanced non-in- pacemaker place 6 months 100 CIED interrogations 25 remote interrogations 40 pacemaker implantations
Heart Failure	diagnosis and managen  2 months	nent of heart failure	Focused general cardiology trainir pathway
Critical Care Cardiology	manage patients in a cri environment 8 weeks	PA catheter placement Hypothermia protocol Shock management	
Care of Adult Patients with Congenital Heart Disease	understand guidelines, i repaired ACHD Didactics	-	
Cardiovascular Research and Scholarly Activity	critically interpret literal	ture as it applies to clinical	

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	6-12 months	Literature review Ethical conduct	

Level III – goal of training			
Minimum requirements*	Selected advanced skills		
1			
	al non-ACGME accredited training is s of a clinical service or research prog		
	ter, train others, advanced cardiovas		
	***		
Additional training			
complex studies, echo	research, direct academic		
echocardiography lab	, train others.		
9 months	Intra-operative TEE		
Interpret 450	Interpret ACHD studies		
Perform 300			
acadomic caroos dira	et clinical puologe lab		
academic career, aire	ct clinical nuclear lab		
Additional training	SPECT/CT; PET/CT		
, toutions truming	Cardiac innervation, first pass, and		
	studies		
	A. A		
	, train others in CCT, and conduct ad		
imaging research.			
Additional training	CT/SPECT		
	CT/PET		
direct a CMR laborato	ory, train others in CMR		
Additional training	Peripheral artery MRI		
I	I		
	Minimum requirements*  No level III – additionation common for directors  direct an imaging centimaging research Additional training  complex studies, echotechocardiography lab 9 months Interpret 450 Perform 300  academic career, direct Additional training  direct a CC laboratory imaging research. Additional training		

	diagnostic tests; managing		ratory, train others, conduct advance
lar di	seases	research	
ı	Perform and interpret non- invasive vascular lab studies: segmental blood pressure measurements pulse volume recordings, doppler waveforms, treadmill vascular exercise test evaluate lymphedema	Additional training	Diagnose arterial compression syn Manage chronic venous insufficier Manage lower extremity wounds Manage lymphedema Manage Raynaud's phenomenon, temperature related disorders Manage arteriopathies related to connective tissue disease Recommend appropriate procedu peripheral and visceral aneurysm
tic ca	rdiac catheterization	practice interventiona	l cardiology
	Endomyocardial biopsy Pericardiocentesis Diagnostic left heart catheterization Emergent IABP placement Diagnostic peripheral angiography	Advanced fellowship  ABIM exam	PCI Peripheral, carotid, and structural interventions Insert and manage peripheral LV s devices
vasiv	e arrhythmia management, including	practice clinical electro	ophysiology
emen			. ,
	Tilt-table testing Placement and surveillance of pacemakers and loop recorders. ICD programming	Advanced fellowship  ABIM exam	ICD and biventricular device placed Invasive EP testing Ablation therapy Intracardiac echocardiography
l care	e of heart failure	comprehensive manag	 gement of patients with severe and r
ng	Interpret and implement CPET results Longitudinal management of severe heart failure, including home inotrope support Screen for eligibility for advanced therapies	Advanced fellowship  ABIM exam	Manage patients on MCS Interpret imaging in uncommon for heart failure Full evaluation for candidacy and selection of advanced therapies Manage patients undergoing carditransplantation†
		specialize in critical ca research position	re cardiology in a leadership and/or
		Critical care fellowship	Emergent IABP placement Endotracheal intubation
		clinically manage com research, direct an AC	l plex ACHD, teach others, conduct ad HD program,
		Advanced fellowship  ABIM exam	Interpret echocardiograms in ACH Interpret hemodynamic and angio data in ACHD Appropriately recommend operati management of ACHD and seque Medical management of all forms ACHD

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	Advanced degree	
	encouraged	

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