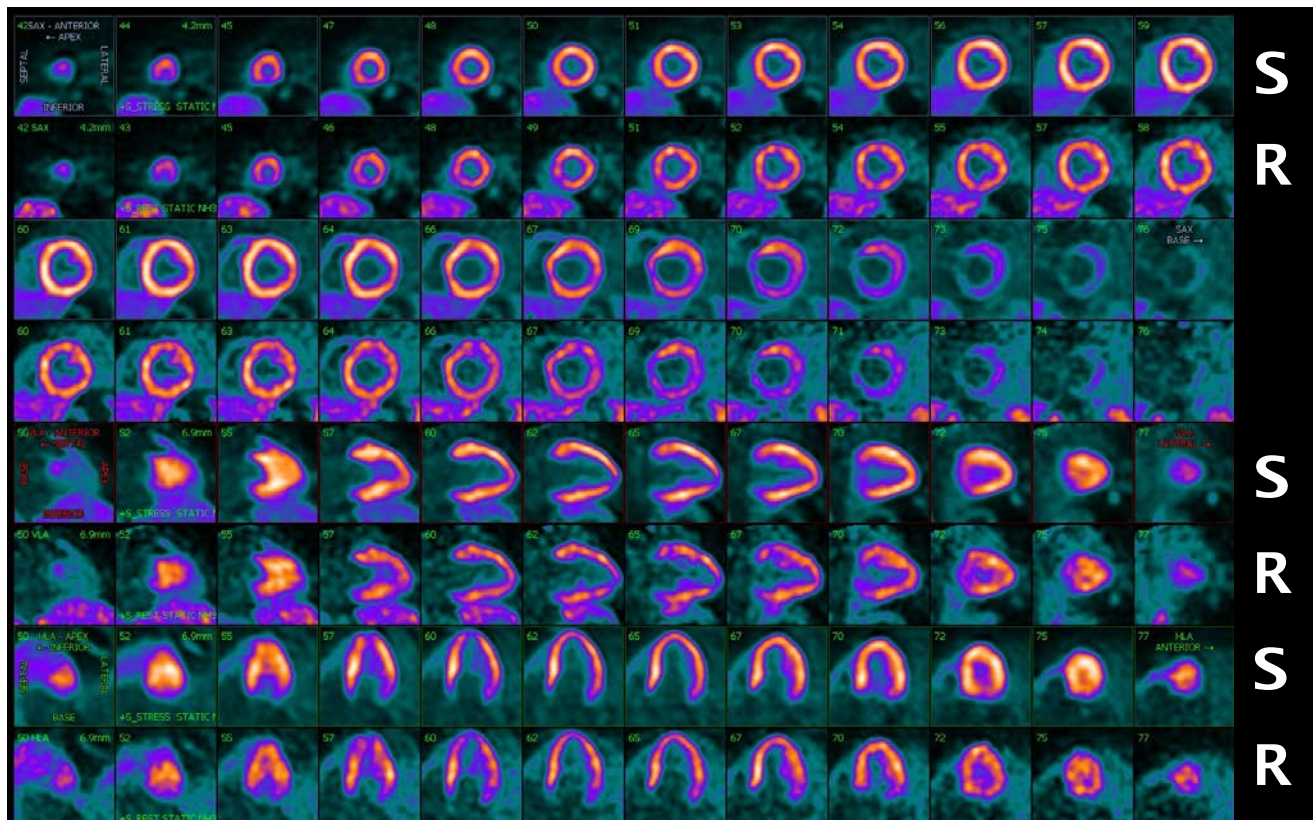


CASE STUDY: Ability to Image High BMI Patients

University of Kansas Medical Center

43 yo. morbidly obese F with history of HTN, insulin-dependent DM, hyperlipidemia, depression, asthma and former smoker who presented to the clinic with the chief complaints of lower extremity edema, shortness of breath and 20-pound weight gain. She has orthopnea, paroxysmal nocturnal dyspnea, dyspnea on exertion, chest and left arm discomfort. Chest x-ray showed prominent pulmonary vessels. Her ECHO demonstrated a preserved ejection fraction (EF=60%) with collapsible and nondistended IVC. No valve disease. The diastolic function was indeterminate.

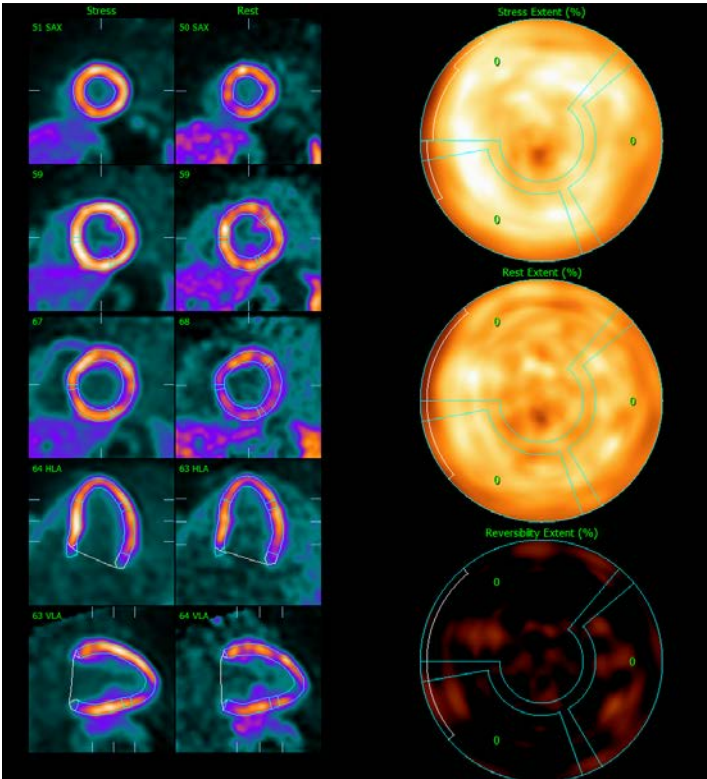
Due to the patient's clinical history and increased pre-test probability of coronary heart disease, she was referred for an ischemic evaluation. The cardiology consult service ordered a PET/CT which demonstrated normal LVEF (rest EF=59%, stress EF=61%). No regional wall motion abnormalities. No evidence of myocardial ischemia. No significant coronary artery calcifications are identified. The heart is within upper limits of normal in size. The lung parenchyma is somewhat limited due to breathing motion artifacts, but mild patchy atelectasis is appreciated.



SA, HLA, VLA, Stress / Rest Slices

No obvious lung mass. Overall, this is an unremarkable rest/ stress N-13 Ammonia myocardial perfusion PET/CT scan with normal global function and perfusion without evidence of stress induced myocardial ischemia.

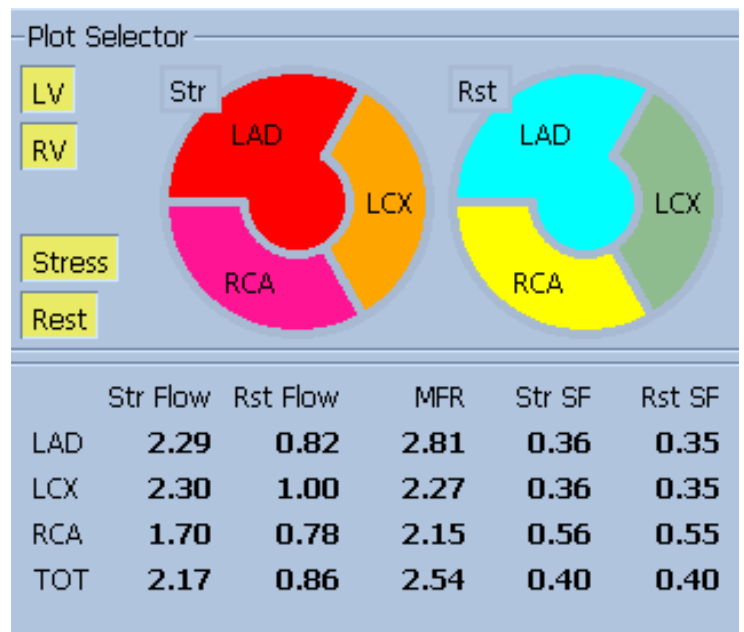
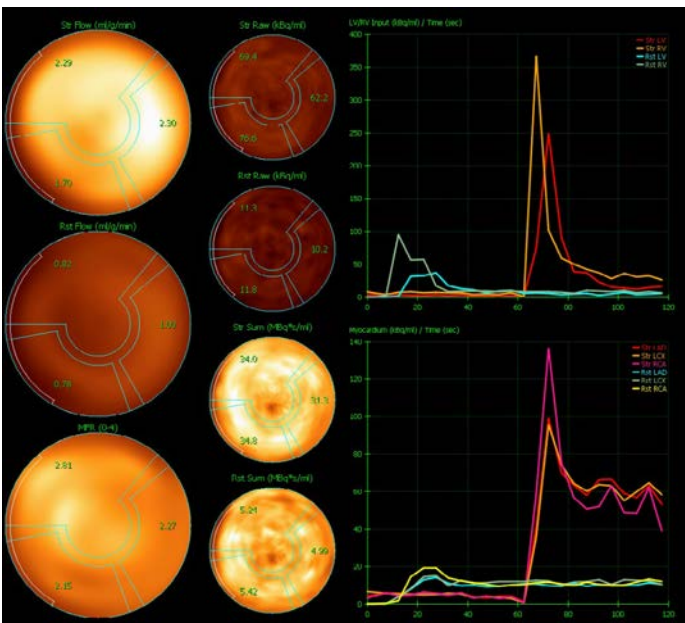
This patient's ischemic evaluation was negative despite morbid obesity.

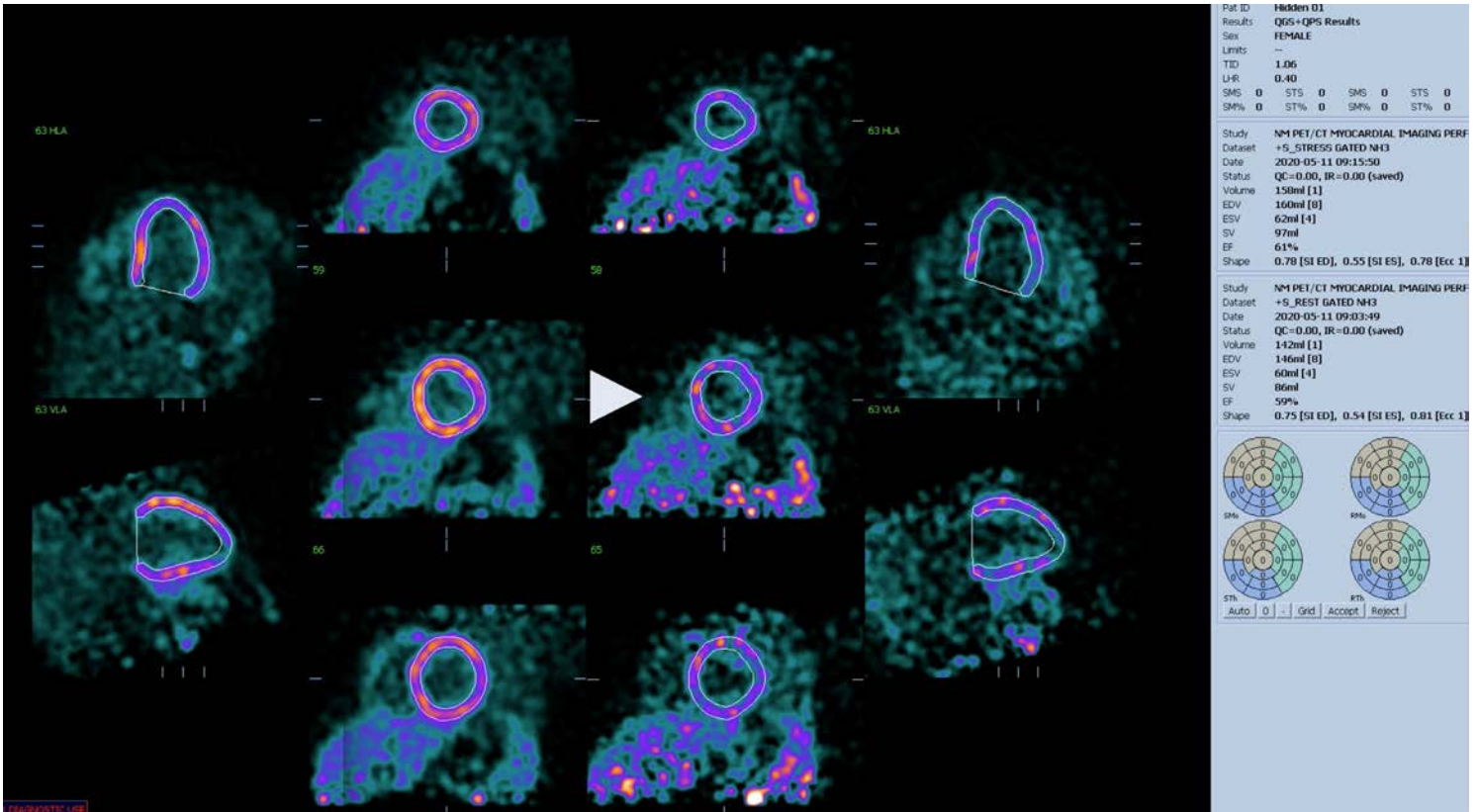


left: Stress / Rest and Reversibility Extend Ischemia Percentage

below, left: Global and Regional Myocardial Blood Flow and Quality Control Curves

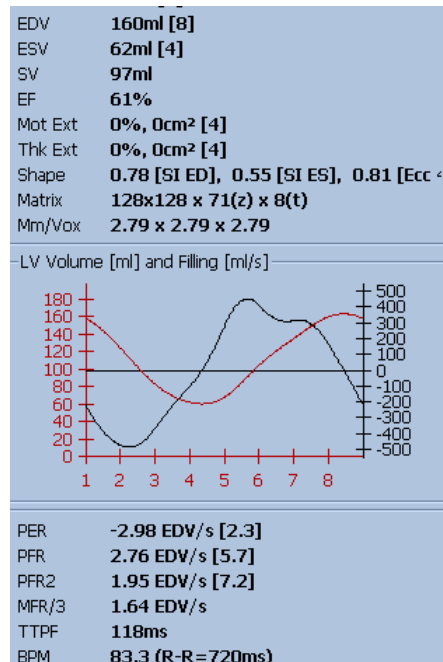
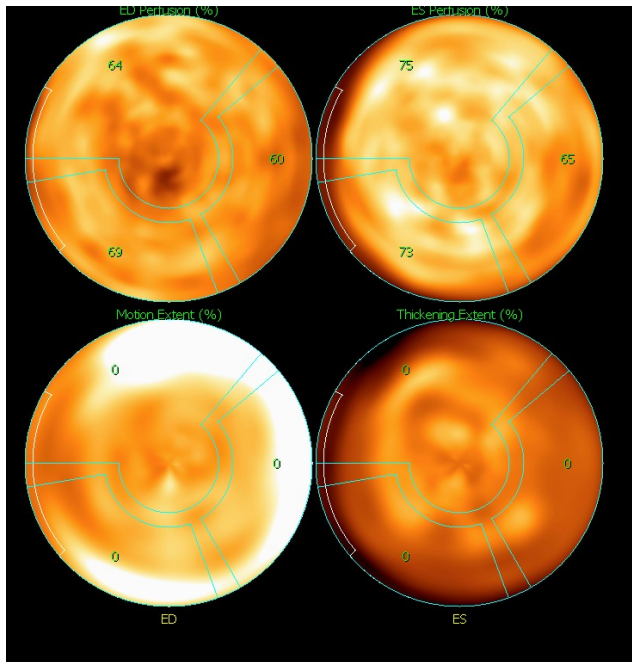
below, right: Global, Regional and Reserve Myocardial Blood Flow Values





Pat ID	Hidden 01
Results	QGS+QPS Results
Sex	FEMALE
Limits	--
TID	1.06
L/R	0.40
SMS	0 STS 0 SMS 0 STS 0
SM%	0 ST% 0 SM% 0 ST% 0
Study	NM PET/CT MYOCARDIAL IMAGING PERF
Dataset	+5_STRESS GATED NH3
Date	2020-05-11 09:15:50
Status	QC=0.00, IR=0.00 (saved)
Volume	150ml [1]
EDV	160ml [8]
ESV	62ml [4]
SV	97ml
EF	61%
Shape	0.78 [SI ED], 0.55 [SI ES], 0.78 [Ecc. 1]
Study	NM PET/CT MYOCARDIAL IMAGING PERF
Dataset	+5_REST GATED NH3
Date	2020-05-11 09:03:49
Status	QC=0.00, IR=0.00 (saved)
Volume	142ml [1]
EDV	146ml [8]
ESV	60ml [4]
SV	86ml
EF	59%
Shape	0.75 [SI ED], 0.54 [SI ES], 0.81 [Ecc. 1]

Eight Frame Stress / Rest Gated Cine. Click on image to link to video.



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