

## Normals Databases - Digirad nSPEED

### Database Description

Gender specific normals databases were created for perfusion quantification based on Tc-99m SPECT image data reconstructed with nSPEED iterative reconstruction without corrections for photon attenuation. The databases were created from patients with low-likelihood of coronary artery disease. The imaging protocols for which these databases apply are

- Stress or rest studies in a 2-day Tc-99m labeled radiotracer protocol.
- Stress or rest study in a 1-day rest/stress Tc-99m labeled radiotracer protocol.
- Stress or rest study in a 1-day stress/rest Tc-99m labeled radiotracer protocol.
- Stress study in a dual isotope protocol.
- Patient position upright

Database Name	
Female	V-nSPEED/TC/IR3D/NC/F
Male	V-nSPEED/TC/IR3D/NC/M

Patient Demographics	Female Mean	Male Mean
Age	53 yrs.	53 yrs.
Weight	180 lbs.	210 lbs.
Height	64 in.	70 in.
BMI	30.9	30.1
BSA	1.9	2.1

SPECT Imaging Protocol	
Radiopharmaceutical	Tc-99m
Administration	IV
Acquisition Protocol	1 day Rest/Stress
ECG Gating Acceptance Window, Gating Frames	20% window, 8 Frames
Orientation	Upright
Acquisitions Duration	Rest: 27 sec/Stop 20 Stops/Head (60 Projections) Stress: 23 sec/Stop 20 Stops/Head (60 Projections)
NM Camera Make/Model	Cardius X•ACT
Camera Rotation	180° RAO-LPO

Stress Testing Parameters	
Stress Protocol	Bruce

Reconstruction Parameters	
Reconstruction Method	3D OSEM, 2 iterations, 10 subsets
Filter	Gaussian
Matrix size	64x64
Pixel size (mm)	6.50x6.50

Database Properties		
	Female	Male
Date Created	20-Aug-2010 14:09:10	20-Aug-2010 13:10:07
Date Last Modified	20-Aug-2010 14:09:10	20-Aug-2010 14:01:36
Manufacturer	Digirad	Digirad
Model	Any	Any
Total Datasets in Database	50	38
Total Mean	79.2 +/- 8.6 (49.4:97.8)	78 +/- 8.9 (39.9:95.9)
Total StDv	8.0 +/- 1.5 (3.9:11.0)	8.1 +/- 1.2 (4.8:11.6)

## Normals Databases - Digirad X-ACT

### Database Description

Gender specific normals databases were created for perfusion quantification based on Tc-99m SPECT image data reconstructed with nSPEED iterative reconstruction with corrections for photon attenuation. The databases were created from patients with low-likelihood of coronary artery disease. The imaging protocols for which these databases apply are

- Stress or rest studies in a 2-day Tc-99m labeled radiotracer protocol.
- Stress or rest study in a 1-day rest/stress Tc-99m labeled radiotracer protocol.
- Stress or rest study in a 1-day stress/rest Tc-99m labeled radiotracer protocol.
- Stress study in a dual isotope protocol.
- Patient position upright

Database Name	
Female	V-XACT/TC/CTAC/F
Male	V-XACT/TC/CTAC/M

Patient Demographics	Female Mean	Male Mean
Age	53 yrs.	53 yrs.
Weight	180 lbs.	210 lbs.
Height	64 in.	70 in.
BMI	30.9	30.1
BSA	1.9	2.1

SPECT Imaging Protocol	
Radiopharmaceutical	Tc-99m
Administration	IV
Acquisition Protocol	1 day Rest/Stress
ECG Gating Acceptance Window, Gating Frames	20% window, 8 Frames
Orientation	Upright
Acquisitions Duration	Rest: 27 sec/Stop 20 Stops/Head (60 Projections) Stress: 23 sec/Stop 20 Stops/Head (60 Projections)
NM Camera Make/Model	Cardius X•ACT
Camera Rotation	180° RAO-LPO

Stress Testing Parameters	
Stress Protocol	Bruce

Reconstruction Parameters	
Reconstruction Method	3D OSEM
Filter	Gaussian
Matrix size	64x64
Pixel size (mm)	6.50x6.50

Database Properties		
	Female	Male
Date Created	20-Aug-2010 14:09:38	20-Aug-2010 13:07:12
Date Last Modified	20-Aug-2010 14:09:38	20-Aug-2010 13:07:12
Manufacturer	Digirad	Digirad
Model	Any	Any
Total Datasets in Database	50	38
Total Mean	81.8 +/- 8.8 (46.3:96.9)	80.7 +/- 9.1 (35.7:95.6)
Total StDv	7.2 +/- 1.1 (4.4:9.8)	7.4 +/- 1.0 (4.8:10.8)