Normals Databases - **Siemens Flash3D**

Database Description

Gender specific normals databases were created for perfusion quantification based on Tc-99m SPECT image data reconstructed with Siemens' Flash3D Iterative Reconstruction without correction for photon attenuation. The databases werecreated 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 supine

Database Name	
Female	V-Flash3D/TC/NC/F
Male	V-Flash3D/TC/NC/M

Patient Demographics	Female Mean	Male Mean
Age	54 yrs.	51 yrs.
Weight	171.1 lbs.	200.1 lbs.
Height	64.2 in.	69.9 in.
BMI	29.3	28.9
BSA	1.8	2.1

SPECT Imaging Protocol	
Radiopharmaceutical	Tc-99m
Administration	IV
Acquisition Protocol	1 day Rest/Stress 2 day Stress/Rest
ECG Gating Acceptance Window, Gating Frames	20% window, 16 Frames
Orientation	Supine
Acquisitions Duration	20 sec/Stop: 32 Stops/Head
NM Camera Make/Model	Symbia T2
Camera Rotation	180° RAO-LPO
Stress Testing Parameters	
Stress Protocol	Bruce
Reconstruction Parameters	
Reconstruction Method	3D OSEM, 8 iterations, 8 subsets, and 9.6mm
Filter	Gaussian
Matrix size	128x128
Pixel size (mm)	4.80x4.80

	Female	Male
Date Created	21-Jan-2009 10:49:32	21-Jan-2009 12:08:26
Date Last Modified	21-Jan-2009 11:43:11	21-Jan-2009 12:08:26
Manufacturer	Siemens	Siemens
Model	Any	Any
Total Datasets in Database	70	60
Total Mean	81.8 +/- 8.2 (46.4:94.6)	78.7 +/- 10.3 (47.2:94.6)
Total StDv	7.1 +/- 0.7 (5.3:9.2)	7.0 +/- 1.0 (5.0:9.8)

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Normals Databases - **Siemens IQ SPECT (AC)**

Database Description

Gender specific normals databases were created for perfusion quantification based on Tc-99m SPECT image data acquired on Siemens IQ SPECT camera system. Studies were reconstructed incorporating Siemens Flash3D Iterative Reconstruction with corrections CTAC and SC. 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 supine

Database Name	
Female	V-IQS/TC/3D,SC,CTAC/F
Male	V-IQS/TC/3D,SC,CTAC/M

Patient Demographics	Female Mean	Male Mean
Age	61 yrs.	50 yrs.
Weight	170.6 lbs.	198.3 lbs.
Height	64 in.	67 in.
BMI	28.9	29
BSA	1.8	2.1

SPECT Imaging Protocol	
Radiopharmaceutical	Tc-99m
Administration	IV
Acquisition Protocol	1 day Rest/Stress 2 day Stress/Rest
ECG Gating Acceptance Window, Gating Frames	20% window
Orientation	Supine
Acquisitions Duration	15 sec/Stop: 17 Stops/Head (34 projections)
NM Camera Make/Model	Symbia T2
Camera Rotation	180° RAO-LPO
Stress Testing Parameters	
Stress Protocol	Bruce
Reconstruction Parameters	
Reconstruction Method	3D OSEM, 30 iterations, 1 subset, and 13mm
Filter	Gaussian
Corrections	SC:CTAC
Matrix size	128x128
Pixel size (mm)	4.80x4.80

Database Properties		
	Female	**Male**
Date Created	08-Jul-2010 15:52:44	08-Jul-2010 16:19:11
Date Last Modified	08-Jul-2010 16:45:04	08-Jul-2010 16:44:38
Manufacturer	Siemens	Siemens
Model	IQ SPECT	IQ SPECT
Total Datasets in Database	22	30
Total Mean	83.2 +/- 7.9 (45.7:95.2)	82.3 +/- 8.3 (44.2:94.8)
Total StDv	7.0 +/- 1.1 (4.3:10.8)	7.1 +/- 0.9 (4.4:9.9)

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Normals Databases - **Siemens IQ SPECT (NC)**

Database Description

Gender specific normals databases were created for perfusion quantification based on Tc-99m SPECT image data acquired on a Siemens IQ SPECT camera system. Studies were reconstructed incorporating Siemens Flash3D 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 supine

Database Name	
Female	V-IQS/TC/NC/F
Male	V-IQS/TC/NC/M

SPECT Imaging Protocol	
Radiopharmaceutical	Tc-99m
Administration	IV
Acquisition Protocol	1 day Rest/Stress 2 day Stress/Rest
ECG Gating Acceptance Window, Gating Frames	20% window
Orientation	Supine
Acquisitions Duration	15 sec/Stop: 17 Stops/Head (34 projections)
NM Camera Make/Model	Symbia T2
Camera Rotation	180° RAO-LPO

Stress Testing Parameters	
Stress Protocol	Bruce

Reconstruction Parameters	
Reconstruction Method	3D OSEM, 30 iterations, 1 subset, and 13mm
Filter	Gaussian
Matrix size	128x128
Pixel size (mm)	4.80x4.80

Patient Demographics	Female Mean	Male Mean
Age	62 yrs.	53 yrs.
Weight	152 lbs.	191 lbs.
Height	64 in.	69 in.
BMI	26.1	28.4
BSA	1.8	2.0

Database Properties		
	Female	**Male**
Date Created	08-Jul-2010 16:04:23	08-Jul-2010 16:35:37
Date Last Modified	08-Jul-2010 16:43:35	08-Jul-2010 16:43:09
Manufacturer	Siemens	Siemens
Model	IQ SPECT	IQ SPECT
Total Datasets in Database	20	30
Total Mean	82.4 +/- 8.7 (45.7:96.9)	79.4 +/- 10.3 (45.6:97.5)
Total StDv	7.3 +/- 1.2 (4.4:10.6)	7.1 +/- 1.4 (3.0:10.8)

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Normals Databases - **Siemens Symbia**

Database Description

This camera specific normals database was created for perfusion quantification based on Tc-99m SPECT image data acquired on a Siemens Symbia camera system. Studies were reconstructed incorporating Siemens Flash3DIterative Reconstruction and corrections CTAC and SC. The database was created from patients with low-likelihood of coronary artery disease. The imaging protocols for which this database applies 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 supine

Database Name	
Female and Male	V-Symbia/TC/CTAC,SC,RC

Patient Demographics	Female and Male Mean
Age	49 yrs.
Weight	66 lbs.
Height	176 in.
BMI	27.7
BSA	1.9

SPECT Imaging Protocol	
Radiopharmaceutical	Tc-99m
Administration	IV
Acquisition Protocol	1 day Rest/Stress 2 day Stress/Rest
ECG Gating Acceptance Window, Gating Frames	20% window, 16 Frames
Orientation	Supine
Acquisitions Duration	20 sec/Stop: 32 Stops/Head (64 projections)
NM Camera Make/Model	Symbia T2
Camera Rotation	180° RAO-LPO
Stress Testing Parameters	
Stress Protocol	Bruce
Reconstruction Method	3D OSEM 10 iterations, 8 subsets, 9.6 mm
Filter	Gaussian
Corrections	SC:CTAC
Matrix size	128x128
Pixel size (mm)	4.80x4.80

Database Properties	
Date Created	09-Jan-2006 09:56:27
Date Last Modified	27-Mar-2006 12:20:05
Manufacturer	Siemens
Model	Symbia
Total Datasets in Database	40
Total Mean	82.1 +/- 9.2 (39.1:96.3)
Total StDv	6.7 +/- 1.3 (4.1:13.2)

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