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Quantitative Analysis for Cardiac PET and SPECT

# min. Cardiac<sup>™</sup>

# Quantitative Analysis for Cardiac PET and SPECT

MIMcardiac<sup>®</sup> is a quantitative analysis solution for both PET and SPECT. The software also features multi-modality image registration for anatomical correlation with CCTA and MR and for improved comparisons of stress and rest images.

### **Robust Edge Detection**

analysis begins with accurate left ventricular based deformable registration to align the patient's segmentation. MIMcardiac provides a robust image to a standard template for improved mapping deformable image segmentation method that generates to the polar plots. reliableLV volumes and functional parameters such as ejection fraction.

template-based alignment for image segmentation, (SSS) summed rest scores (SRS), and summed difference cardiac segmentation methods, which can have voxel normalization. difficulty with large perfusion defects or segmenting low activity areas of the heart such as the base.

Transient ischemic dilatation (TID) statistics are also their own normal databases. provided.

### **Perfusion Analysis**

Generating quantitative information for cardiac Polar mapping of perfusion activity utilizes template-

Polar plot features include: 17, 19, and 20 segment models; blackout maps, reversibility maps, and z-score MIMcardiac's edge detection utilizes deformable maps; segmental scores with summed stress scores overcoming limitations of traditional threshold-based scores (SDS), and choice of auto-normalization or max

> A non-attenuated corrected Tc99m sestamibi SPECT normal database is provided. Users can also create



# Stress & Rest Alignment and Serial Change

MIMcardiac's fusion technology is also utilized for aligning stress-to-rest images or serial exams making it easier to compare the same area of myocardium between scans.

Perfusion differences are highlighted using a colorcoded display overlaid on the patient's image. Difference images allow the patient's own scan to serve as the control for comparison.

Difference images can also be created for viability studies highlighting differences in perfusion and metabolism.



HeartAlign™ is a landmark-based deformable registration method that is used to match a patient's scan to a template or to another image for the same patient. An affine registration is performed for the initial alignment correcting for orientation and size differences. The landmark-based deformable registration is performed next to correct for shape differences between the images. Using this same deformation, contours are transformed back to the original patient image. This method of matching can also be used for stress and rest images or serial exams to help highlight changes.

# **Remote Access and Storage**

You can access images from anywhere in the world using MIM's thin-client licensing solution via MIMcloud<sup>™</sup>. Additionally, MIM's cloud-based storage solution provides a method for off-site storage and backup of data.





To learn more, call **866-421-2536** or visit **mimsoftware.com/contact** to schedule a presentation of MIM.



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