



Cardiac SPECT Suite

Powered by Cedars-Sinai

Developed at Cedars-Sinai Medical Center in Los Angeles, California, the Cardiac SPECT Suite combines several interactive stand-alone applications for the automatic segmentation, quantification and analysis of nuclear cardiology studies.

The Cardiac SPECT Suite is integrated with Vitrea® Enterprise Suite (VES). VES is Vital's premier advanced visualization solution that provides clinical applications and data management systems, backed by our first-class customer services.

Quantitative Gated SPECT (QGS) provides cardiac function quantification using perfusion datasets: ED and ES volumes, ejection fraction. The image data can be viewed for phase analysis in a variety of modes, from selected slices in a 2D view to a rendered 3D surface of the myocardium with function maps (perfusion, motion, thickening and regional EF).

Quantitative Perfusion SPECT (QPS) is an interactive stand-alone application for the automatic segmentation, quantification, analysis and display of static (ungated) short axis myocardial perfusion SPECT images. QPS provides automatic computation of functional metrics including LV chamber volume and mid-myocardial surface area and generation of stress, rest and reversibility surfaces and Polar Maps. These Polar Maps are displayed in parametric fashion, the pattern of LV myocardial perfusion.

Quantitative Blood Pool SPECT (QBS) is an interactive standalone application for phase analysis of the automatic segmentation and quantification of gated short axis blood pool (red blood cells, RBC) SPECT.

Quantitative PET (QPET) provides automatic segmentation, quantification and analysis of static and gated myocardial perfusion PET, with support for both short axis and transverse datasets, and analysis of CFR (Cardiac Functional Reserve). It includes normal databases for Rb-82 and N-13.

Purchaseable Offerings

“Companion” Option for QGS/QPS

- Diastolic function assessment (PFR, PER, TTPF)
- AHA automated 17 segment scoring
- Eccentricity calculation

The “Plus Pack”

- Stress / Rest
- Motion frozen
- QGS phase information
- Shape index

Packages

- SPECT Perfusion, Basic
 - Includes QGS, QPS, Companion and Blood Pool
- SPECT Perfusion, Deluxe
 - Includes QGS, QPS, Companion, Blood Pool and Plus Pack
- QPET
 - Includes QPET and CT Fusion

Vital, a Toshiba Medical Systems Group Company, is a leading provider of advanced visualization and analysis software for physicians and healthcare specialists. The company's software provides users productivity and communication tools to improve patient care that can be accessed throughout the enterprise anytime, anywhere via the Web.