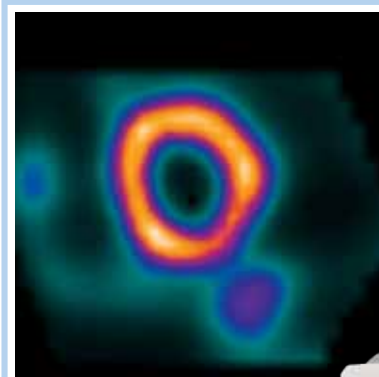


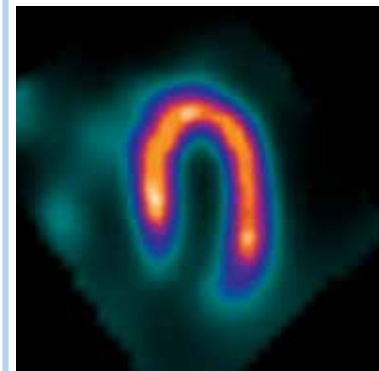


**SPECTRUM**  
DYNAMICS MEDICAL

A Biosensors International Group Company



2x



10x



10x

**SmartR<sup>®</sup> Imaging** by Design

# Molecular Imaging... Redefined

**Though nuclear cardiology has grown significantly in the past 25 years, supporting detector technology has not improved.**

Sodium iodide and vacuum tubes continue to be the dominant technology in the nuclear equipment marketplace. The lack of industry investment in new technologies has placed severe constraints on clinical workflow and the development of new applications. With exciting new molecular imaging radiopharmaceuticals on the horizon and tremendous gains being made routinely in computing horsepower and applications, the limiting factor necessary to unlock the true potential of molecular imaging will be data collection.

Spectrum Dynamics Medical redefines SPECT Imaging with the innovative D-SPECT® Cardiac Imaging System.

## Breaking the Paradigm

Spectrum Dynamics Medical provides technology that allows medical professionals to experience a true breakthrough in Nuclear Imaging. Now we no longer have to choose between speed and image quality.

Dramatic improvements in both clinical workflow and image quality are now possible with the D-SPECT Cardiac Imaging System, powered by Spectrum Dynamics Medical's unique BroadView™ Technology. This new technology represents a breakthrough in almost every component of nuclear cardiology imaging diagnostics and workflow, including up to a 50% improvement in energy resolution, which will provide the capability to image multiple isotopes simultaneously.

**10x**  
The Sensitivity

**For New Clinical Applications**

Larger Radiation Collection Angles.

Unique Scan Pattern.

**2x**  
The Resolution

**For Sharper, Enhanced Images**

Novel Design of Scanning Solid State Detectors.

Unique Reconstruction Algorithms.

**10x**  
The Speed

**For Unprecedented Throughput**

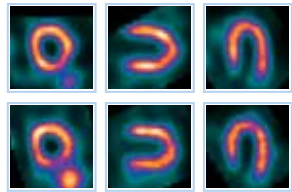
Gated SPECT Acquisition Completed in as Little as 2 Minutes.

*These dramatic gains in detector performance, combined with proprietary high resolution reconstruction algorithms, allow medical professionals to enhance clinical results while drastically reducing acquisition time, thereby improving overall clinical workflow. With these improvements, the D-SPECT Cardiac Imaging System revolutionizes the entire molecular imaging process.*



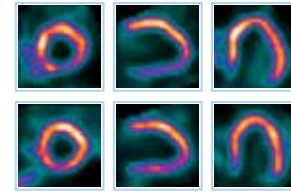
# Experience the Power.

## Patient 1



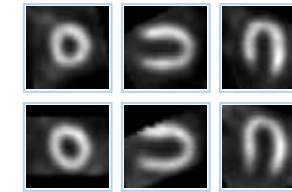
- Rest/Stress
- 54 year old male
- 5 foot 7 inches
- 181 lbs
- Atypical angina
- Risk factors: family history of CAD

## Patient 2



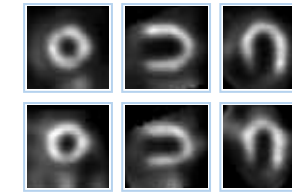
- Rest/Stress
- 63 year old male
- 5 foot 9 inches
- 191 lbs
- Atypical angina
- Risk factors: hypertension, family history of CAD

## Patient 3

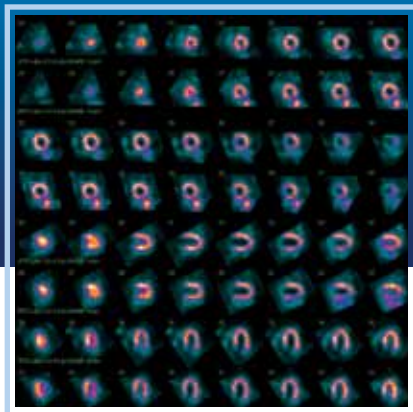


- Rest/Stress
- 59 year old female
- 5 foot 2 inches
- 123 lbs
- Atypical angina, SOB
- Hx: coronary calcification
- Risk factors: hypertension, hypercholesterolemia, family history of CAD

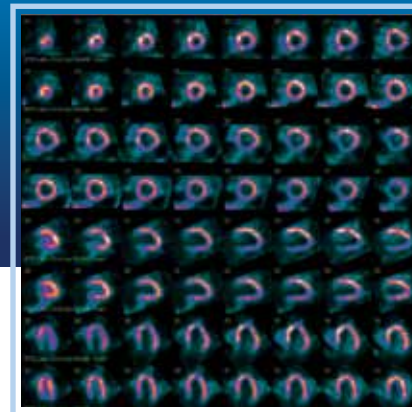
## Patient 4



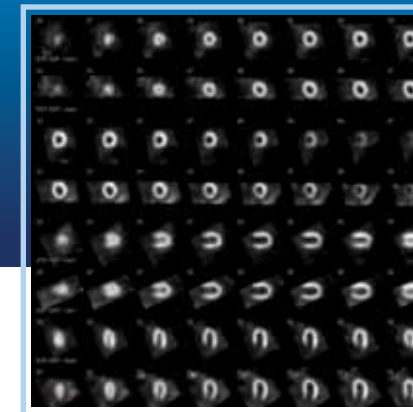
- Rest/Stress
- 59 year old female
- 5 foot 5 inches
- 185 lbs
- Kidney transplant evaluation
- Hx: end-stage renal disease
- Risk factors: hypertension



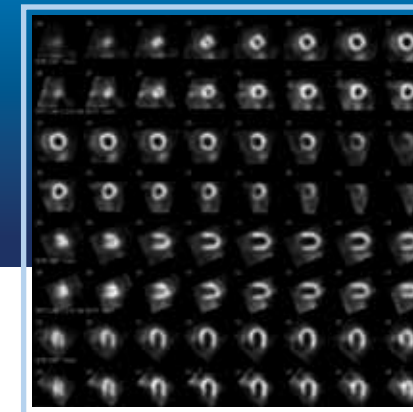
Images Courtesy of Baptist Cardiac & Vascular Institute



Images Courtesy of Baptist Cardiac & Vascular Institute



Images Courtesy of Cedars-Sinai Medical Center



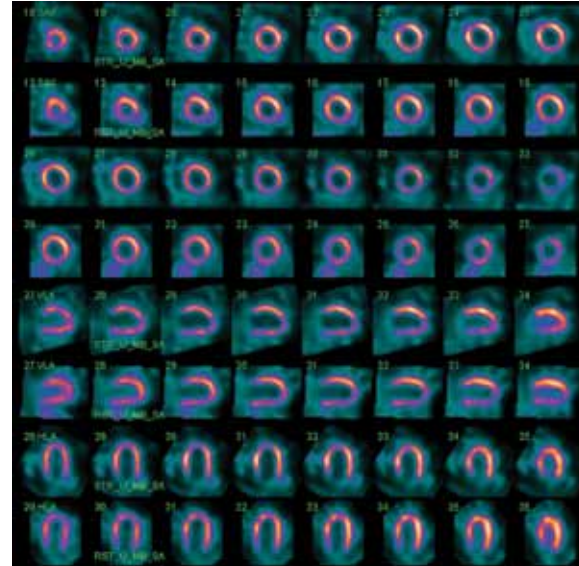
Images Courtesy of Cedars-Sinai Medical Center

# Improve Your Results.

## Their Safety. Their Comfort. Your Patients

With the innovative technology of the D-SPECT Cardiac Imaging System, you can improve not only image quality and clinical throughput, but also your patients' imaging experience.

**36YO Male**  
BMI = 73.4  
5'9" 497lbs



*Courtesy of Cedars Sinai Medical Center*

## Advanced Technology. Advanced Applications. Better Results.

D-SPECT'S superior energy resolution provides the foundation required for new advanced clinical applications. It paves the way for simultaneous multi radionuclide studies including <sup>201</sup>Tl, <sup>99m</sup>Tc and <sup>123</sup>I. Simultaneous multi isotope acquisitions can improve imaging efficiencies, patient comfort and confidence as image registration between multiple studies will no longer be an issue.

D-SPECT's unprecedented sensitivity also provides the foundation required for the calculation of coronary flow reserve indices.\* Together with Myocardial Perfusion Spect Imaging's assessment of ventricular function during stress, the accuracy of myocardial perfusion imaging can be increased. Potential enhancements like these could also aid the diagnosis of multi-vessel CAD, global ischemia and the detection of myocardial microvascular dysfunction.



**Spectrum Dynamics Medical is redefining molecular imaging in ways you never thought possible. Imagine being able to image upright, supine and anything in between.**

\* Works in Progress, not commercially available, for investigational use only



# SPECTRUM

DYNAMICS MEDICAL

A Biosensors International Group Company

Spectrum Dynamics Medical is a pioneering medical device company dedicated to developing high definition, functional imaging technology to meet the clinical and workflow demands of this growing market.

Spectrum Dynamics Medical revolutionizes the diagnostic imaging market, a field that was void of major gamma camera developments for the past two decades. In order to ensure optimal imaging results, the company has also developed various accessories to assure quality control and complete patient data collection and verification throughout the entire imaging process.

Spectrum Dynamics Medical protects its revolutionary technology through a strong and broad portfolio of over 70 patents and patent applications.

## Spectrum Dynamics Medical Smart<sup>R</sup> by Design

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