

CardioRad

*Imaging | Prevention | Outreach*

## Mobile Cardiac Nuclear Imaging Analysis & Projection

*Raising the bar in mobile cardiac imaging.*

# Solution Overview

Our team has a combined 60 years of experience providing cardiac nuclear imaging services.

We specialize in delivering in-office cardiac nuclear imaging that improves the patient experience, enhances profitability for your practice and provides the highest level of clinical care. By offering your patients in-office cardiac testing, you come one step closer to providing your patients with a full continuum of care. We are partnered with world-class clinical cardiologists from the Cedars-Sinai Heart Institute.

We offer patient-friendly myocardial perfusion imaging (MPI) which uses single-photon emission computed tomography (SPECT) as a gold standard 3D scan to detect issues with myocardial perfusion functionality and ischemic heart disease.

Our MPI service is turn-key and includes bilingual certified paramedics, experienced nuclear medicine technologists, a mobile dual-head camera, isotopes, medical supplies and interpreting physicians from the Cedars-Sinai Heart Institute. We only come to your office when you have patients scheduled. We do not charge for wasted isotopes in the event that a patient cancels. Our hours are flexible and our expert techs are conscientious of your time and space. The camera fits easily into a 7' x 9' room.

Our half-day service takes 3-5 hours on average to complete and serves an average of 8 patients. Our full-day service is 5-6 hours on average and serves up to 16 patients. We never charge overtime. Supplies to run the day are always included.

## There are 4 processes for any given run date:

**1.** Service price per full day or half day (all supplies included) - no time blocks. Schedules are designed for maximum efficiency. We have never charged for overtime.

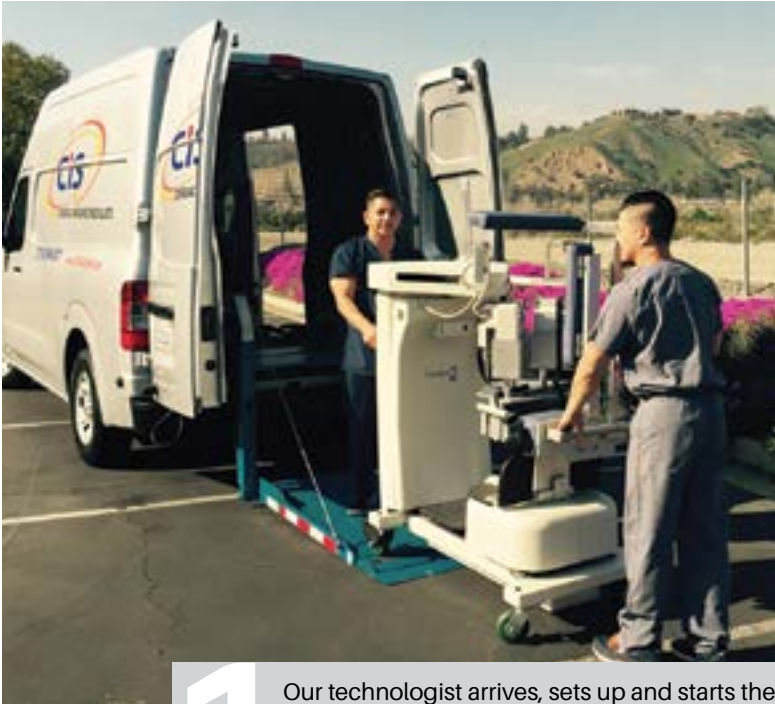
**2.** Price of isotopes per patient.

**3.** Price of lexiscan if used per patient. Lexiscan is a pharmacologic stress test option for those unable to complete an exercise stress test for the heart and coronary artery disease.

**4.** On some patients who have complications with the test either from exercise or pharmaceutical stress tests, our team is equipped with first round ACLS measures as well as medications to counteract sustained side effects from Lexiscan. Due to the short half-life of Lexiscan, the side effects of the drug will subside shortly after the injection is administered. Administration of methylxanthines such as Aminophylline may be considered to reverse the side effects as these types of drugs which compete with Lexiscan.



# A typical day for our cardiac perfusion tests



**1** Our technologist arrives, sets up and starts the Hep-Lock IV line in the patient's arm to be used throughout the day.



**2** Our technologist gives the first resting Sestamibi radiopharmaceutical injection through the IV line and waits 15 minutes for circulation of the radiopharmaceutical. Our technologist then scans the patient for the resting scan portion of the SPECT exam.

**3** The patient goes to the stress room where the EKG leads are hooked up for the stress test. The stress test will be performed on an exercise treadmill or by a Lexiscan pharmacological infusion. During this time a second injection of the radiopharmaceutical Sestamibi will be given during peak stress.



**4** The patient then eats a small fatty meal to contract the gal bladder, to eliminate any attenuation effects and then waits for the stress scan portion of the SPECT exam. The patient is released after the stress images are completed. Images are then reviewed/processed by our technologist. These images are then interpreted by our overreading physician and reports are then uploaded to our server for review.



# Kern County Cardiac SPECT Analysis & Projection

*Exercise patients only w/ no pharmaceutical stress- Half-Day Lease*

**Rental: SPECT Camera, Nuclear Technologist & CCT/ Paramedic \$1,200**

**Radiopharmaceutical Charge:**

Sestamibi: \$200 (per study dose rest/stress)

## Kern County Medicare/PPO Global Reimbursement:

CPT Code	Exercise patients only w/ no pharmaceutical stress	
78452	SPECT Myocardial Perfusion Rest and/or Stress	\$525.97
93015	Cardiovascular stress test and/or pharmacological stress	\$81.14
A9500	Sestamibi radiopharmaceutical injection- per study dose. <b>(Rest)</b> x1	\$168.15
A9500	Sestamibi radiopharmaceutical injection- per study dose. <b>(Stress)</b> x1	\$168.15
J7050	Normal Saline Flush (1 unit = 5 cc). Actual dose given in CC's = 20 cc	\$1.34
94761	Pulse oximetry reading (Continuous)	\$5.26
<b>Estimated Reimbursement Total (Per Patient)</b>		<b>\$950.01</b>

## Pro Forma:

Number of Patients	Estimated Service Hours	Estimated Global Revenue	Estimated CIS Charges	Estimated Net Profit
2	3-5 Hours	\$1,900.02	\$1,600	\$300.02
3	3-5 Hours	\$2,850.03	\$1,800	\$1050.03
4	3-5 Hours	\$3,800.04	\$2,000	\$1800.04
5	3-5 Hours	\$4,750.05	\$2,200	\$2550.05
6	3-5 Hours	\$5,700.06	\$2,400	\$3,300.06
7	3-5 Hours	\$6,650.07	\$2,600	\$4,050.07
8	3-5 Hours	\$7,600.08	\$2,800	\$4,800.08

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# Kern County Cardiac SPECT Analysis & Projection

## Pharmaceutical stress Patients Only- Half-Day Lease Rate

**Rental: SPECT Camera, Nuclear Technologist & CCT/ Paramedic \$1,200**

### Radiopharmaceutical/Pharmacologic Stress Medication Charges:

Sestamibi: \$200 (per study dose rest/stress) | Lexiscan: \$235 (per 0.4 mg dose)

### Kern County Medicare/PPO Global Reimbursement:

CPT Code	Pharmaceutical stress patients only	
78452	SPECT Myocardial Perfusion Rest and/or Stress	\$525.97
93015	Cardiovascular stress test and/or pharmacological stress	\$81.14
A9500	Sestamibi radiopharmaceutical injection- per study dose. <b>(Rest)</b> x1	\$168.15
A9500	Sestamibi radiopharmaceutical injection- per study dose. <b>(Stress)</b> x1	\$168.15
J7050	Normal Saline Flush (1 unit = 5 cc). Actual dose given in CC's = 20 cc	\$1.34
J2785	Injection, Lexiscan (Regadenason) per 0.1 mg (\$53.13 x4)	\$212.52
94761	Pulse oximetry reading (Continuous)	\$5.26
<b>Estimated Reimbursement Total (Per Patient)</b>		<b>\$1,162.53</b>

### Pro Forma:

Number of Patients	Estimated Service Hours	Estimated Global Revenue	Estimated CIS Charges	Estimated Net Profit
2	3-5 Hours	\$2,325.06	\$2,058	\$267.06
3	3-5 Hours	\$3,487.59	\$2,487	\$1,000.59
4	3-5 Hours	\$4,650.12	\$2,916	\$1,734.12
5	3-5 Hours	\$5,812.65	\$3,345	\$2,467.65
6	3-5 Hours	\$6,975.18	\$3,774	\$3,201.18
7	3-5 Hours	\$8,137.71	\$4,203	\$3,934.71
8	3-5 Hours	\$9,300.24	\$4,632	\$4,668.24

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# Kern County Cardiac SPECT Analysis & Projection

*Excercise patients only w/no pharmaceutical stress-Full-Day Lease*

**Rental:** SPECT Camera, Nuclear Technologist & CCT/ Paramedic for a full day **\$1,700**

**Radiopharmaceutical Charge:**

Sestamibi: \$200 (per study dose rest/stress)

## Kern County Medicare/PPO Global Reimbursement:

CPT Code	Exercise patients only w/ no pharmaceutical stress	
78452	SPECT Myocardial Perfusion Rest and/or Stress	\$525.97
93015	Cardiovascular stress test and/or pharmacological stress	\$81.14
A9500	Sestamibi radiopharmaceutical injection- per study dose. <b>(Rest)</b> x1	\$168.15
A9500	Sestamibi radiopharmaceutical injection- per study dose. <b>(Stress)</b> x1	\$168.15
J7050	Normal Saline Flush (1 unit = 5 cc). Actual dose given in CC's = 20 cc	\$1.34
94761	Pulse oximetry reading (Continuous)	\$5.26
<b>Estimated Reimbursement Total (Per Patient)</b>		<b>\$950.01</b>

## Pro Forma:

Number of Patients	Estimated Service Hours	Estimated Global Revenue	Estimated CIS Charges	Estimated Net Profit
9	5-6 Hours	\$8,550.09	\$3,500	\$5,050.09
10	5-6 Hours	\$9,500.10	\$3,700	\$5,800.10
11	5-6 Hours	\$10,450.11	\$3,900	\$6,550.11
12	5-6 Hours	\$11,400.12	\$4,100	\$7,300.12
13	5-6 Hours	\$12,350.13	\$4,300	\$8,050.13
14	5-6 Hours	\$13,300.14	\$4,500	\$8,800.14
15	5-6 Hours	\$14,250.15	\$4,700	\$9,550.15
16	5-6 Hours	\$15,200.16	\$4,900	\$10,300.16

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# Kern County Cardiac SPECT Analysis & Projection

## Pharmaceutical Stress Patients only- Full-Day Lease Rate

**Rental:** SPECT Camera, Nuclear Technologist & CCT/ Paramedic for a full day **\$1,700**

### Radiopharmaceutical Charge:

Sestamibi: \$200 (per study dose rest/stress) | Lexiscan: \$235 (per 0.4 mg dose)

### Kern County Medicare/PPO Global Reimbursement:

CPT Code	Pharmaceutical stress patients only	
78452	SPECT Myocardial Perfusion Rest and/or Stress	\$525.97
93015	Cardiovascular stress test and/or pharmacological stress	\$81.14
A9500	Sestamibi radiopharmaceutical injection-Per study dose. <b>(Rest)</b> x1	\$168.15
A9500	Sestamibi radiopharmaceutical injection-Per study dose. <b>(Stress)</b> x1	\$168.15
J7050	Normal Saline Flush (1 unit = 5 cc). Actual dose given in CC's = 20 cc	\$1.34
J2785	Injection, Lexiscan (Regnadenason) per 0.1 mg (\$53.14 x 4)	\$212.52
94761	Pulse oximetry reading (Continuous)	\$5.26
<b>Estimated Reimbursement Total (Per Patient)</b>		<b>\$1,162.53</b>

### Pro Forma:

Number of Patients	Estimated Service Hours	Estimated Global Revenue	Estimated CIS Charges	Estimated Net Profit
9	5-6 Hours	\$10,462.77	\$5,561	\$4,901.77
10	5-6 Hours	\$11,625.30	\$5,990	\$5,635.30
11	5-6 Hours	\$12,787.83	\$6,419	\$6,368.83
12	5-6 Hours	\$13,950.36	\$6,848	\$7,102.36
13	5-6 Hours	\$15,112.89	\$7,277	\$7,835.89
14	5-6 Hours	\$16,275.42	\$7,706	\$8,569.42
15	5-6 Hours	\$17,437.95	\$8,135	\$9,302.95
16	5-6 Hours	\$18,600.48	\$8,564	\$10,036.48

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# Raising the Bar in Mobile Cardiac Imaging

## CPT Codes and Reimbursement

Global Estimates: California Area 99

### Cardiac Stress Testing

The following list is a representation of commonly used CPT codes for various stress testing procedures and national cap Medicare reimbursement for tests performed. This information is provided as a guide and is not intended to replace any official recommendation or guideline. Always be aware of changes applicable to your location as they vary regionally.

### Myocardial Perfusion Imaging Single Photon Emission Computed Tomography (SPECT)

CPT Code	Procedure	Description	Medicare (Par)	Medi-Cal	HMO
78452	MPI	Myocardial perfusion imaging, tomographic (SPECT) (including attenuation correction, qualitative or quantitative wall motion, ejection fraction by first pass or gated technique, additional quantification, when performed); multiple studies, at rest and/or stress (exercise or pharmacologic) and/or redistribution and/or rest reinjection.	\$525.97	\$348.12	Contracted Rate
93015	Stress Test	Cardiovascular stress test using maximal or submaximal treadmill or bicycle exercise, continuous electrocardiographic monitoring, and/or pharmacological stress; with physician supervision, with interpretation and report.	\$81.14	\$95.91	
A9500	TC-99	Technetium TC-99 Sestamibi, Diagnostic, Per study dose. (Rest) x1	\$168.15	x	
A9500	TC-99	Technetium TC-99 Sestamibi, Diagnostic, Per study dose. (Stress) x1	\$168.15	\$97.36	
A9505	TL-201	Thallium TL-201 Thallous Chloride, Diagnostic, per millicurie (Rest Only, replaces "rest" sestamibi on Medi-Cal patients) (\$21.81 x4)	\$87.24	\$106.32	
J7050	Saline	Normal Saline Flush (1 unit = 5 cc). Actual Dose given in CC's = 20 cc	\$1.34	x	
94761	Pulse Oxymetry	Pulse oxymetry reading (Continuous)	\$5.26	\$5.59	

### Optional Pharmacological Stress Agents

J0153	Adenosine	Injection, Adenosine for diagnostic use per 1 mg (Jan 2015 CMS code change) (\$0.84 x60 max)	\$50.40	x	
J2785	Lexiscan	Injection, Lexiscan (Regadenason) per 0.1 mg (\$53.13 x4)	\$212.52	\$231.56	

(1) Recent Medicare update for Adenosine J code J0152 and J0151 has been deleted and has been replaced with J0153. It will reflect the use of a per milligram reimbursement as opposed to the former 30mg (per bottle) reimbursement. (2) CPT code 93000 mod. 59 has been bundled with 93015. In some cases Medicare has been known to reimburse for it. For our practice we do not recommend the addition of 93000.



# Supplies Included

All supplies are included with our in-office cardiac nuclear imaging. The cost of supplies are included in our service price. We do not charge the physician per patient on the cost of supplies. In comparison to the doctor using their own supplies, we will always be more affordable.

Prep Alcohol  
Iv Cath 22X1 Iag Saf  
Iv Cath 24X3/4 Iag Saf  
Iv Set 21X3/4 Safety  
Cotton Balls Med 2Bx/Cs  
Glove Exam Vnl XI Pf  
Needle 19X1 Poly Hub  
Needle 21X1  
Admin Set 110" Mini Intrlnk

Sodium Chl .9% 30ML  
Bacteriostatic/Vial  
Sodium Chl .9% 250ML Inj Bg  
Syringe 10Cc LI 100/Bx  
Syringe 30Cc LI 25/Bx  
Syringe 60Cc LI No Ndl 25/Bx  
Dressing Tegaderm 2-3/8  
Tape Transpore 1"  
Underpad 17X24



## Photos of In-office Cardiac Nuclear Imaging Setup

# Interpreting Physician

*Ram Dandillaya MD, FACC, FCCP, FACP*

*Vice Clinical Chief, Division of Cardiology,  
Cedars-Sinai Heart Institute Beverly Hills, CA*



## CLINICAL APPOINTMENTS:

Vice-Clinical Chief, Division of Cardiology, Cedars - Sinai Heart Institute  
Attending Staff, Division of Cardiology, Cedars - Sinai Medical Center  
Member, Cedars - Sinai Heart Institute Center of Excellence

## PROFESSIONAL LICENSES AND CERTIFICATIONS:

- 2008 Diplomate, Certification Board of Computed Tomography (CBCCT)
- 2007 Diplomate, National Board of Echocardiography (Comprehensive Echocardiography)
- 2006 Certification in Cardiovascular Disease, American Board of Internal Medicine
- 2005 Diplomate, Certification Board of Nuclear Cardiology
- 2003 Diplomate, American Board of Internal Medicine
- 2001 USMLE Step III - passed on 1st attempt
- 1999 USMLE Step II - passed on 1st attempt
- 1998 USMLE Step I - passed on 1st attempt
- 1992 Emergency Medical Technician (EMTIA) Certification
- California License # A77410
- Arizona Medical Board
- Washington State Medical Board
- Nevada Medical Board (Pending)
- DEA License # BD7660827
- Basic/Advanced Life Support Certification

## PROFESSIONAL WORK EXPERIENCE:

- **WCCT Global, LLC, Cypress, CA**  
07/2013 - Present  
*Consulting Research Physician*
- **Private Practice Cardiologist**  
2008 - Present  
*Beverly Hills and Torrance*
- **Cardiovascular Medical Group of Southern California**  
2005 - 2008  
*Provided coverage and image interpretation for CVMG, a large 17 member cardiology group located in Beverly Hills and Culver City.*
- **Urgent Care Physician, Medical Group of Beverly Hills, Los Angeles, CA**  
2002 - 2003
- **Triage Physician, Transitional Critical Care Services, Cedars-Sinai, Los Angeles, CA**  
2002

## EDUCATION AND TRAINING:

- **Harbor - UCLA Medical Center**  
07/2006 - 10/2006  
*Advanced Imaging Training in Cardiac Computed Tomography (CT)*
- **Harbor - UCLA Medical Center**  
2003 - 2006  
*Fellowship in Cardiology*
- **Cedars - Sinai Medical Center**  
2000 - 2003  
*Residency Training in Internal Medicine*
- **The George Washington University**  
1996 - 2000  
*Doctor of Medicine*
- **University of California, Irvine**  
1992 - 1996  
*Bachelor of Science, Biological Sciences*

# Interpreting Physician

*Ram Dandillaya MD, FACC, FCCP*

*Vice Clinical Chief, Division of Cardiology,  
Cedars-Sinai Heart Institute Beverly Hills, CA*



## RELEVANT PROFESSIONAL AFFILIATIONS, SPECIALTY TRAINING & WORKSHOPS:

- Member, Medical Executive Committee, Cedars-Sinai Medical Center
- American College of Cardiology – Fellow (F.A.C.C.)
- American College of Chest Physicians Fellow (F.C.C.P)
- American Heart Association – Council on Cardiovascular Radiology & Intervention.
- American College of Physicians
- Member, Cedars-Sinai Trendsetters (2013) – Invitation Only
- Scientific Advisory Board, World Congress On Heart Disease 2010
- Los Angeles and American Society of Echocardiography
- Scientific Advisory Board, West Coast Ultrasound Institute
- American Society of Nuclear Cardiology
- Society of Vascular Ultrasound
- Adjunct Faculty, Vascular Biology Working Group 2003-2010
- Cedars-Sinai Leadership Development Retreat/Training 2012-2013
- Nuclear Cardiology Training (Level II), Echocardiography Training (Level II), Cardiac Catheterization (Level II), Cardiac CT angiography Training (Level III)
- Vascular Biology Working Group Regional Adjunct Faculty Meeting 2004 - present
- Cardiopulmonary Exercise Testing Certification Harbor-UCLA 2008

## PROFESSIONAL COMMITTEES:

- Performance Improvement Committee, Div. of Cardiology, Cedars-Sinai Medical Ctr., 2010–present
- Performance Improvement Committee, Dept. of Medicine, Cedars-Sinai Medical Ctr., 2012–present
- Cedars-Sinai Heart Institute Preventive Cardiology Center of Excellence, 2011-present

## RESEARCH EXPERIENCE:

- **2012 - Present**  
LA Biomedical Research Institute, Torrance, CA  
*Involved in imaging research under direction of Dr. Matthew Budoff.  
Conduct clinical trials and involved as supervising imaging physician for nuclear cardiology.*
- **2007 - 2012**  
Cardiovascular Intervention Center, Div. of Cardiology Cedars –  
Sinai Medical Ctr., Los Angeles, CA  
*Involved as clinical cardiologist for PARTNER trial, investigating efficacy of percutaneous based  
aortic valve replacement.*
- **2004 - 2006**  
Division of Cardiology, Harbor UCLA Medical Center  
*Involved in advanced imaging research with Dr. Matthew Budoff, particularly examining the role of  
EBCT/ MDCT and coronary calcium in coronary artery disease.*
- **2001 - 2003**  
Atherosclerosis Research Center, Div. of Cardiology, Cedars –  
Sinai Medical Ctr., Los Angeles, CA  
*Involved in project investigating the effects of EGCG, a component of green tea, on vascular  
smooth muscle proliferation and neointimal proliferation. Techniques involved include sectioning  
of tissue samples, various staining protocols, and computer aided measurement of cross sectional  
areas. Research was presented at the Solomon Scholars Meeting at UCLA 2002.*