

# Advanced Cardiac Imaging



Dr. Feldman in the Electrophysiology Lab at Eisenhower Medical Center

The use of Ensite Fusion™, advanced imaging software recently approved for use by the Food and Drug Administration, will help Eisenhower Medical Center physicians produce more detailed images of the heart for diagnosis and treatment of complex abnormal heart rhythms, including atrial fibrillation.

*"This is a clear example of Eisenhower's commitment to provide the latest technology in diagnosing and treating heart rhythm disorders,"* says Chief of Cardiology and Electrophysiologist Leon Feldman, MD, FACC the first physician in Southern California to use St. Jude Medical's innovative software, along with Eisenhower Electrophysiologist Andrew Rubin, MD. *"The EnSite System provides enhanced capabilities to target a known cause of atrial fibrillation."*

Abnormal heart rhythms are caused by small areas of abnormal tissue that interrupt the heart's electrical system. Cardiac mapping allows the physician to find the abnormal areas to diagnose and treat the disorder. The Ensite Fusion software maps abnormal heart rhythms in real time, giving physicians a 3-D color, comprehensive image of the heart to guide electrophysiology catheters to the precise location requiring treatment. The software works in conjunction with the tools physicians already use, but eliminates the use of fluoroscopy, an imaging technique that works like an X-ray.

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—Leon Feldman, MD, FACC Chief of Cardiology

Additionally, Ensite Fusion is the first and only tool capable of "dynamic registration" in which two-dimensional data from computed tomography (CT) is adapted to the Ensite 3-D model, giving physicians more accurate information about specific areas of the heart.

*"Eisenhower's goal is to provide optimal patient care and acquire the most advanced, cutting-edge technology for its patients,"* says Dr. Rubin. *"As a result, Coachella Valley residents with atrial fibrillation now have the opportunity to improve their quality of life, free of this debilitating cardiac disorder."*