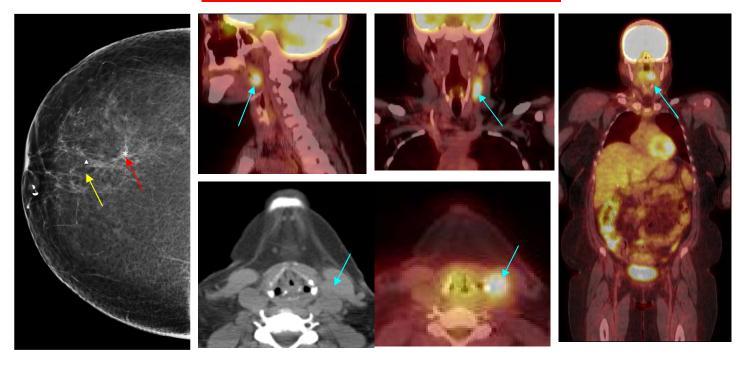
Accredited by the American College of Radiology



ADVANCED IMAGING CENTER PHYSICIAN NEWS

www.advanced-imaging-center.com August 9, 2011

PET-CT and DIGITAL MAMMO with CAD



Digital Mammography and dedicated PET-CT scanning have been available at AIC-Palmdale since July 2011. Here are some examples of the type of image quality you can expect on your patients. Both machines represent top-of-the-line cutting-edge technology in the industry with unsurpassed image quality. In fact, the 40-slice PET-CT is THE ONLY DEDICTAED PET-CT in the Antelope Valley and offers the highest-resolution PET images in the area.

DIGITAL MAMMOGRAPHY with COMPUTER-AIDED DETECTION (CAD): The image in the top left is a digital mammo CC view with overlay CAD markers. In this case, a small triangle (YELLOW arrow) points out to an area of microcalcifications and a small asterisk (RED arrow) suggests a possible mass. CAD is very helpful in guiding the radiologist to double check "hidden" areas on a mammogram. The radiologist will then decide whether or not the CAD markers are significant. It's like having an extra pair of eyes viewing the case, and as such it increases the accuracy and reduces potential misses even by experienced mammographers.

PET-CT: The middle bottom images represent axial CT (left) and PET-CT (right) images, while the middle images on top and the image on the right are sagittal and coronal neck and Whole-Body PET-CT images. They show a tonsillar cancer on the left with a malignant lymph node (one cannot help but notice how the mass could be overlooked on the plain CT but so obvious on the PET-CT). Unlike manual PET-CT Fusion (the old way) where CT images are manually fused with the PET images, a dedicated PET-CT acquires both the PET and CT images simultaneously, thus rendering perfect superimposition of the two sets of images. This greatly increases the accuracy of the scan.

Please do not hesitate to call me with any questions.

Ray Hashemi, MD

Ray H. Hashemi, M.D., Ph.D. Diplomat American Board of Radiology

- ~ 43731 N. 15th St. West.
- ~ 25842 Tournament Road
- ~ 607 West Ave Q
- ~ 900 Heritage Dr., Bldg B
- ~ Lancaster, CA 93534

 - ~ Tel: (661) 949-8111 ~ Fax: (661) 949-6600 ~ www.aicLancaster.com
- ~ Valencia, CA 91355
- ~ Tel: (661) 255-0060 ~ Fax: (661) 255-0024 ~ www.aicValencia.com
- ~ Palmdale, CA 93550 ~ Tel: (661) 456-2020 ~ Fax: (661) 456-2021 ~ www.aicLancaster.com

- ~ Ridgecrest, CA 93555 ~ Tel: (760) 446-1999 ~ Fax: (760) 446-1910 ~ www.aicLancaster.com