MIM Encore - Features

Why MIM?

MIM provides a single platform solution for all of your PET/CT, SPECT/CT, 2D NM, and PET/MR image viewing and analysis needs, regardless of camera manufacturer. MIM specializes in therapy response across multiple time points and modalities, saving significant time per patient, while providing additional valuable information.

MIM also provides unprecedented access to image data. Images can be accessed as a thin client, with floating licenses, or as a PACS plugin. Patient data can be stored securely on the internet and accessed anywhere using a computer, iPad®, or iPhone®.

MIM offers integrated software packages for cardiac and neuroimaging with quantitative analysis for PET and SPECT, providing your department with a comprehensive single-vendor display and analysis solution.

Speed and Consistency in PET Reading

Streamline your image review process using MIM custom reading workflows and image displays. Register any number of studies automatically, switch between multiple layouts, change color tables, and create screen captures, all without having to click a mouse. Save your work to be processed by a technologist for reading by the radiologist or for later review with referring clinicians.

Serial Exams and Therapy Response

Compare exams quickly and easily using **MIM Workflows™** that automatically register and align any number of images. Gather SUV and lesion volume information with a single click using **PET Edge™**. Track CT-based measurements using simple-to-use linear measurement tools and automatic RECIST tools.

PET Edge – Innovative Gradient-based Tumor Segmentation for PET

It is well documented that statistics beyond SUVmax (including SUV Peak, Metabolic Tumor Volume and Total Lesion Glycolysis) are important factors in determining patient prognosis and therapy response. PET Edge allows you to quickly obtain these statistics using an innovative gradient-based segmentation and outperforms traditional segmentation methods that rely on SUV thresholds and manual delineations.

Tumor segmentation using SUV thresholds is limited by a number of factors, including varying uptake of the tumor compared to background, varying uptake within the tumor, tumor size, and partial volume effects. Visual tumor delineation is limited by the change in apparent tumor size by selected image contrast, the level of expertise with PET, and the variability from different users defining the edge. PET Edge is able to overcome these limitations by identifying the maximum change in activity between tumor and background to determine a boundary.

PET Edge operates independent from the selected contrast level and absolute SUV values that allows for greater accuracy and interoperability. PET Edge has been shown to outperform SUV threshold tools across multiple PET cameras, reconstruction methods, tumor sizes, and levels of background activity. PET Edge was also found to be more accurate and consistent between users than both visual tumor delineation and SUV thresholds using realistic digital PET phantoms simulating NSCLC. Recent pathology studies have also shown superior accuracy of PET Edge compared to SUV thresholds.

Findings/Measurement Tools

Quickly create, track, and save volumes of interest, linear measurements, and annotations on a single exam or on serial exams. Click on a measurement to go to its bookmarked location in the image for fast review and reporting.

Findings are saved and archived automatically for future comparison and follow-up exams.

Multi-Modality Nuclear Medicine Workstation

MIM provides a vendor-neutral solution for nuclear medicine processing and image review. With MIM, you can view any combination of modalities alongside your nuclear medicine images (including CT and X-ray), eliminating the need to reference the PACS for comparison.

Nuclear Medicine Processing

MIM provides a single-vendor solution for nuclear medicine processing including, but not limited to Gastric Emptying, Gallbladder EF, Renal MAG3, Renal DMSA, Lung Quantification, and MUGA exams.

Using saved sessions, data processed by the technologist can be reviewed by the physician with a single click. Editing the saved ROIs updates graphs and tables automatically allowing you to quickly make corrections without sending the data back to the technologist for reprocessing.

PERCIST/RECIST

Support for response criteria including PERCIST and RECIST is provided. PET tumors can be segmented quickly providing SUV Peak and Total Lesion Glycolysis statistics. The 2D measure tool allows you to make long and short axis measurements for RECIST. Results can be graphed or viewed in a table to evaluate response and incorporate into reports.

SPECT and SPECT/CT

Access the same industry-leading tools from PET/CT including customizable image display, workflows to automate processing, and serial exam review.

Multi-modality Automatic Segmentation

MIM provides automatic and semi-automatic segmentation tools for multiple modalities (NM, PET, CT, and MR) including a whole body PET automatic segmentation method to highlight areas of increased SUV uptake or automatic segmentation for identifying the anatomy on NM exams.

PET/MR

MIM's industry-leading PET/MR tools allow you to easily review images with flexible display, multi-modality image registration, and segmentation. Any number of MR sequences can be fused simultaneously with the PET study and can be easily compared to other modalities including CT and PET/CT. Advanced segmentation tools are also provided for MR including **Contour CoPilot™** for deformable contouring.

Reporting

Take full advantage of your quantitative findings through MIM's structured reporting capabilities. Findings can be automatically populated into reports and easily distributed to referrers.