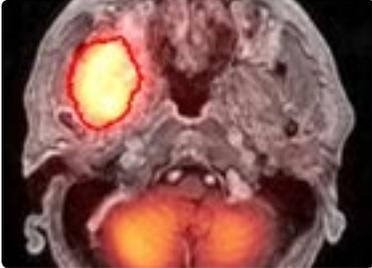


contouring · cardiac · fusion · neuro · connectivity

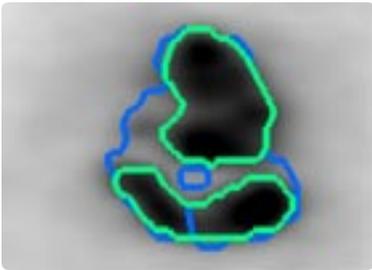


enhancing patient care



contouring tools

Contour patient outlines, structures, and tumors based on auto contouring, standard threshold values, PET SUV, or paintbrush tools. The easy to use interface allows volumetric contour editing using a 2D or 3D paintbrush in any view.



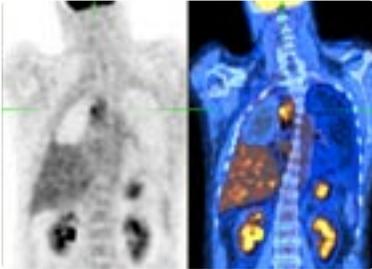
auto contouring

Save time and increase utility with the auto contouring tool. This edge detection technique, based on intensity slopes, can be used to identify and contour tumor volumes in both PET and SPECT images. Automatically calculated ROI contours can be edited in the axial, sagittal, and coronal views in either fusion or individual modalities.



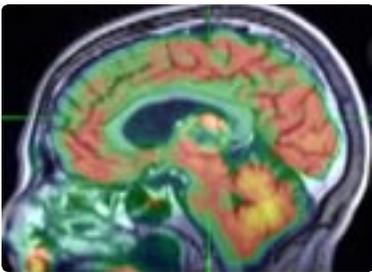
RTP connectivity

Seamless integration of the MIM workstation allows networking capabilities such as DICOM send/receive and query/retrieve from scanners, PACS, and radiation therapy workstations. To reduce planning time, contours from MIM may be saved as DICOM RT Structure Sets and loaded into leading radiation therapy systems. MIM also provides voxel highlighting of regions in CT/MR data derived from fusion images for export to legacy RTP systems.



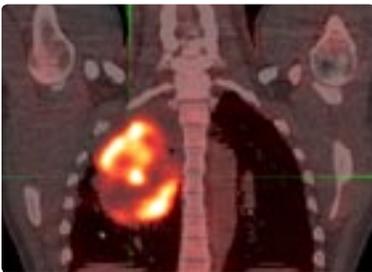
comprehensive image review

MIM provides unparalleled functionality as an image review workstation for the analysis of fusion images acquired on both separate and combination scanners. A thorough PET review and fusion package is offered, as well as cardiac and 2D support. Increased practicality is afforded with robust DICOM connectivity between modalities, PACS, and radiation therapy workstations. Because all user controls are accessible with a mouse click, MIM provides excellent flexibility with both image manipulation and display variety.



multi-modality fusion

Fuse any combination of PET, SPECT, CT or MRI from virtually any manufacturer's system for enhanced visualization. True color image fusion allows high quality, lossless presentation of registered image volumes. Flexible tools such as assisted and manual alignment techniques increase precision of target volume definition for therapy planning.



fast assisted alignment

Assisted alignment with MIM is a high speed automatic fusion process that accurately aligns two data sets in about ten seconds, without the need for corresponding point selection. This method dramatically reduces fusion processing and set up time, markedly improving physician efficiency and consistency.

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intuitive and efficient interface

- multi-modality fusion & display (PT, NM, CT, MR, 2D)
- assisted alignment completed in ~10 seconds
- assisted alignment on user defined local anatomy
- intuitive manual alignment
- comprehensive PET review
- operator controls accessible with a mouse click
- multiple display options
- generate multiple slices of any view
- display volumes at any magnification
- synchronized display of aligned images
- original volume resolution is maintained
- on-screen help
- create subtraction/difference images

contouring

- automatic PET/SPECT 3D contouring tool
- contour editing with 2D/3D paintbrush in axial, sagittal and coronal views
- segment tumor volumes based on SUV levels
- quality true color image fusion facilitates contour definition
- highlight voxel contours on aligned CT/MR volumes for legacy RTP systems

cardiac

- ASNC orientation
- automatic calculation of cardiac volumes
- gated PET/SPECT LVEF measurements
- fusion of stress/rest images
- difference images expressed in percent of maximum myocardial intensity

enhanced marketing tools

- MIMvision DICOM viewer with fusion capabilities
- annotation
- report generation
- screen capture utilities

system specifications

- Pentium 4 3.2+ GHz
- 2 GB RAM
- 48x CD-RW drive or 16x DVD-RW
- 400 GB hard drive
- 64+ MB VGA/DVI graphics card
- 19" high res or 19"/20" flat panel monitor(s)
- 10/100/1000 ethernet card
- MS Windows® 2000/XP Professional

import formats

- 3D DICOM PT, NM, CT, MR
- 2D DICOM NM, US, CR, DR, CT scout, Secondary Capture
- ECAT PET and Siemens ICON
- JPEG, TIFF, BMP
- Interfile

output formats

- DICOM aligned PT, NM, CT, MR
- DICOM RT Structure Sets for ROI contours
- DICOM Secondary Capture
- MIP as DICOM, AVI, MPEG
- JPG, BMP, TIFF
- DICOM Print
- Windows® Print

networking

- DICOM send/receive & query/retrieve
- send volumes and secondary captures to PACS
- FTP send/receive

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