



# Multi Modality Tumor Tracking

## Purpose

Multi Modality Tumor Tracking (MMTT) is a post processing software used to display, process, analyze and quantify anatomical and functional images, for CT, MR, PET/CT, SPECT/CT and Dual Energy CT at one or multiple time points.

## Benefits

- Enhanced semi-automatic volumetric segmentation
- Selectable oncology response criteria including standards such as RECIST 1.0, RECIST 1.1, WHO, CHOI, PERCIST, irRC and mRECIST, as well as PET SUV analysis including glucose-corrected SUV.
- Findings can be shared with other IntelliSpace Portal applications such as CT Liver Analysis and CT Viewer or exported in different formats including RT Structures.

## Before you begin

Identify a selection of CT, PET, SPECT, or MR data series to compare.

# Workflow

## To process a study:

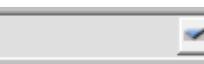
1. Select the appropriate studies for a patient and click 

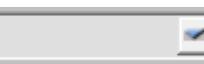


Tumor Tracking opens in the last used protocol for specific combination of modalities.

2. To change the layout, click the drop-down arrow next to  (Layout) and select the appropriate layout.

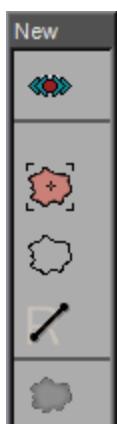
Presets :



3. In the  (Presets drop-down list), select the appropriate protocol for the images loaded.
4. Register the images:

- **Automatic Registration** occurs when a CT dataset is loaded. The  (Register Studies) button becomes active when registered. Click in the CT Viewer and scroll the image to confirm the registration.
- **Manual Registration** for all non-CT datasets. Click  (Begin manual registration). Scroll images to matching slices, click the same area on both sets of data to mark anatomical location. Then click  (Apply registration).

5. To identify lesions within the studies, use the floating New menu and select the method you want to use to draw ROIs.



Click  (Focus mode) for close up view. Lesions may be drawn on the standard viewing layout or by clicking  (Single time-point).

6. Draw the ROI on the preferred image.



The ROI is marked under **Lesion** as L1, L2, etc.

**Note**

7. To rename the ROI, right-click the name and select **L# Properties....**

8. In the **Lesion Properties** window, rename the lesion in the **Label** field and under **Type** identify if the ROI is a tumor, lymph node, target, non-target, or not set.



Lesions must be identified as tumor, lymph node, or non-tumor in order for the RECIST results to be on the results table.

**Note**

9. Click  to close the **Lesion Properties** window.



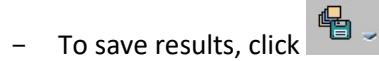
10. Select matching lesions from multiple time points and click  (Match lesions).



11. Next to Segmentation, click  (the Forward arrow) to move to stage 2, **Results**.

The results of the lesion measurements should populate into the results graph and table as preset.

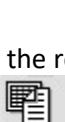
12. Do one or more of the following:



– To save results, click  (Save Results).



– To bookmark the images, click  (Bookmark) and set the bookmark in the **Save Bookmark** dialog box.



– To send the final images to the reporting package, click  (the drop-down arrow) next to the displayed **Reporting** option and click  (Report Results).

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