exa-PACS · exa-RIS

Feature Summary

Work with PET Fusion, ROI, and SUV

Configure fusion, ROI, and SUV options

1. In **Viewer Settings**, in the left pane, select **INTERFACE**.
2. Under **Fusion**, and under **ROI & SUV**, enter the settings in the following table.

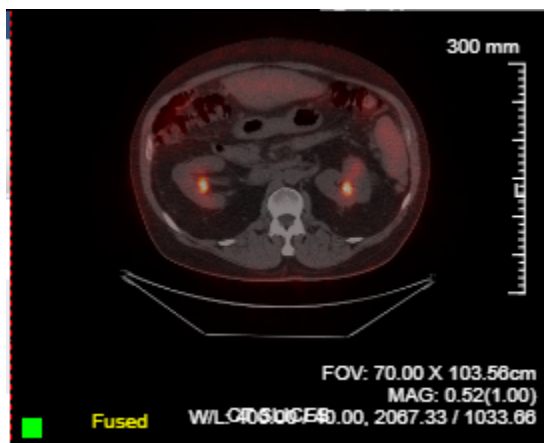| Group	Setting	Description
Fusion	Auto Adjust for CT/PT Frame Count Mismatch	Select to reconstruct PET anatomy on fusion overlays between absent slices. Disable to display PET overlays only for slices originally included in the PT series.
ROI & SUV	ROI Show Size	Adds length and area measurements to ROI.
	Show Number of Pixels in ROI Selection	Select to show the number of pixels selected when annotating an ROI or selecting with the freehand tool.
	Show Number of Slices in ROI Selection	Select to show the number of slices selected when annotating an ROI or selecting with the freehand tool.
	ROI Selection Weighting	Select which pixels to include in an ROI. **Weighted**: Include pixels touching or within the ROI border, and assign a value based on the percentage of the pixel lying within the ROI. Inclusive: Include pixels touching or within the ROI border and use the full pixel value. Exclusive: Include only pixels completely within the ROI border and use the full pixel value.
	Enable SUV Calculations	Select to add SUV calculations to ROI annotations of PET SUV series and CT-PET fusion series. Prerequisite: Your system administrator must also enable SUV in a separate procedure.
	Show SUV Type and Measurements in the ROI Header	Select to include the SUV type and measurements in the ROI header.
	Show SUV Units after Measurements	Select to include the SUV units based on the SUV type following the measured values.
	Use Standard SUV Type Units (g/ml, cm2/ml)	Select to display SUV values using standard units for the SUV type. Clear to use the values stored in the DICOM file.
	Default SUV Type	Select the type of SUV calculation to perform.

Work with PET fusion series

Turn PET fusion display on and off

1. To turn on fusion display, hover over the top of an image to display the image's top shortcut (floating toolbar) menu, and then select **PT**.

2. In the **PT** button shortcut menu, under **PET Selection**, select a fusion overlay series.
   Result: "Fused" appears in the lower-left part of the image.
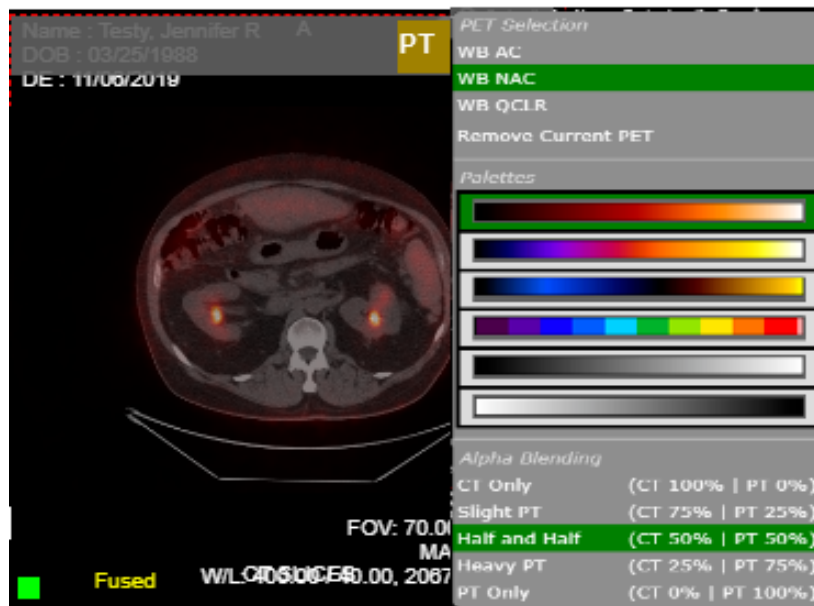

3. To turn off fusion display, in the PT button shortcut menu, select **Remove current PET**.

Color and blend PET fusion base series

You can add color to base series in a PET fusion series, and control alpha blending of the two. Specifying a color in one image applies the color to all images in the series.

Prerequisite: Turn on PET fusion display.

1. Select the **PT** button shortcut menu, and under **PET selection**, select a PET overlay series for fusion.

2. In the **PT** button shortcut menu, under **Palettes**, select a color.
3. In the **PT** button shortcut menu, under **Alpha Blending**, select a blending option.