Creating a preference in AutoSPECT Pro

Purpose

The purpose of this quick step is to detail how to create a preference in AutoSPECT Pro

Before you begin

Raw SPECT data (tomography) is required to launch AutoSPECT Pro and thus create preferences.

Supporting materials

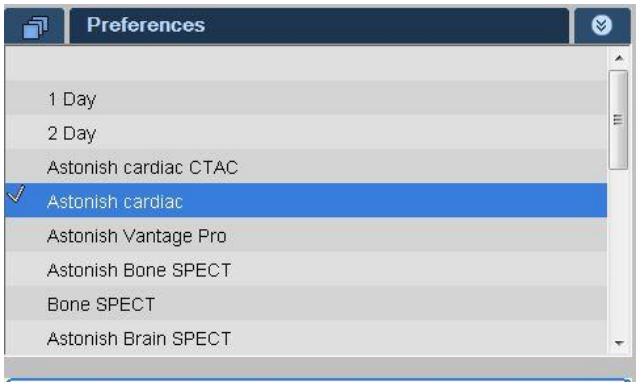
IntelliSpace Portal Instructions for Use – AutoSPECT Pro section

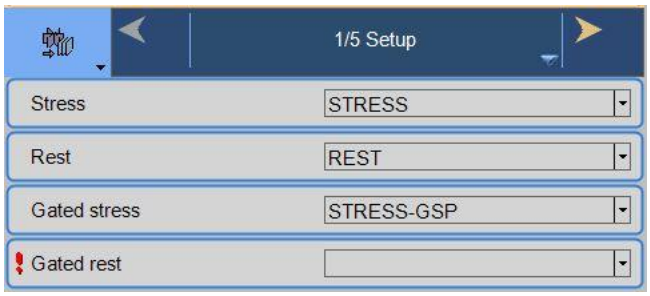
Workflow

To create a new AutoSPECT Pro preference:

1. Select a patient with the appropriate SPECT data and click the AutoSPECT Pro 

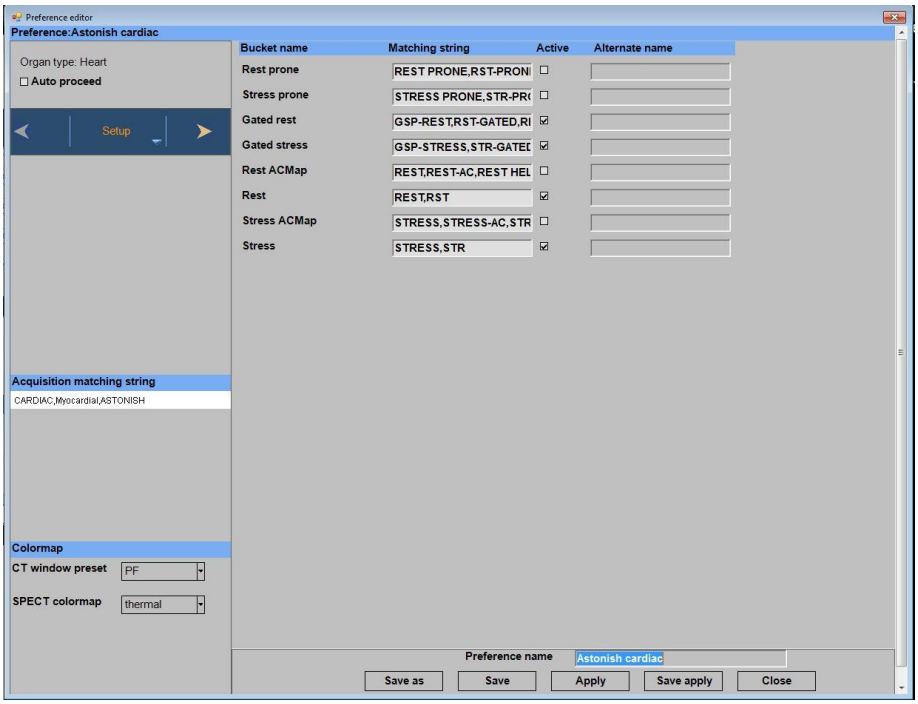
icon from the Analysis drop-down menu.
2. From the **Preferences section**, double-click the factory preference that most closely resembles the desired new preference.



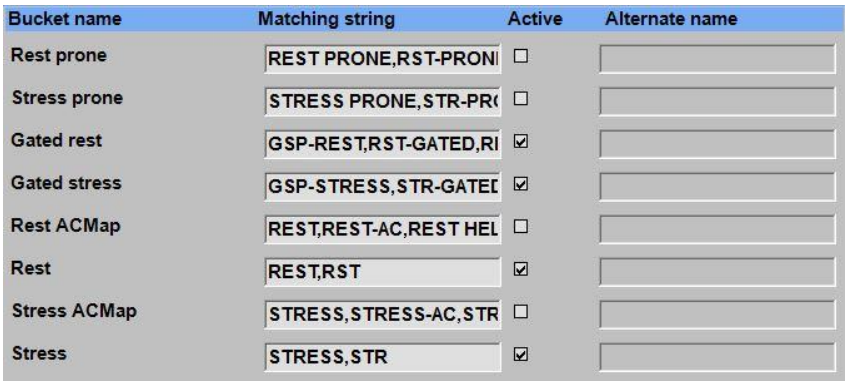


3. Ensure that all the data is properly loaded.

   If not, use the drop-down menus and manually load the desired data in the proper bucket.
4. Click the Edit Preference  icon located below the list of preferences. This will open the preference editor.



5. In the buckets area, use the Matching string field to specify a dataset name to automatically load data into the bucket. The exact name or a portion of the name with wildcards (*) can be used. For example, Rest or Res* can be used to automatically load a dataset named Rest.

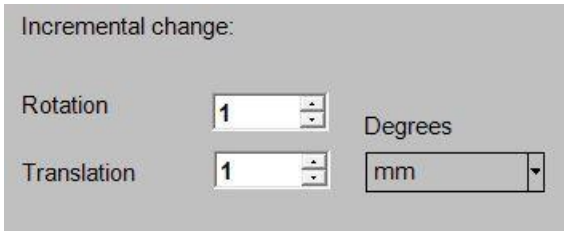


Use the Active checkbox to indicate if a bucket will or will not be used in the preference. The Alternate name field is used to change the display name of the bucket within the program.

Note

The Alternate name bucket is only available for non-cardiac preferences.

6. Click Next Step  to advance to the AC Map page.

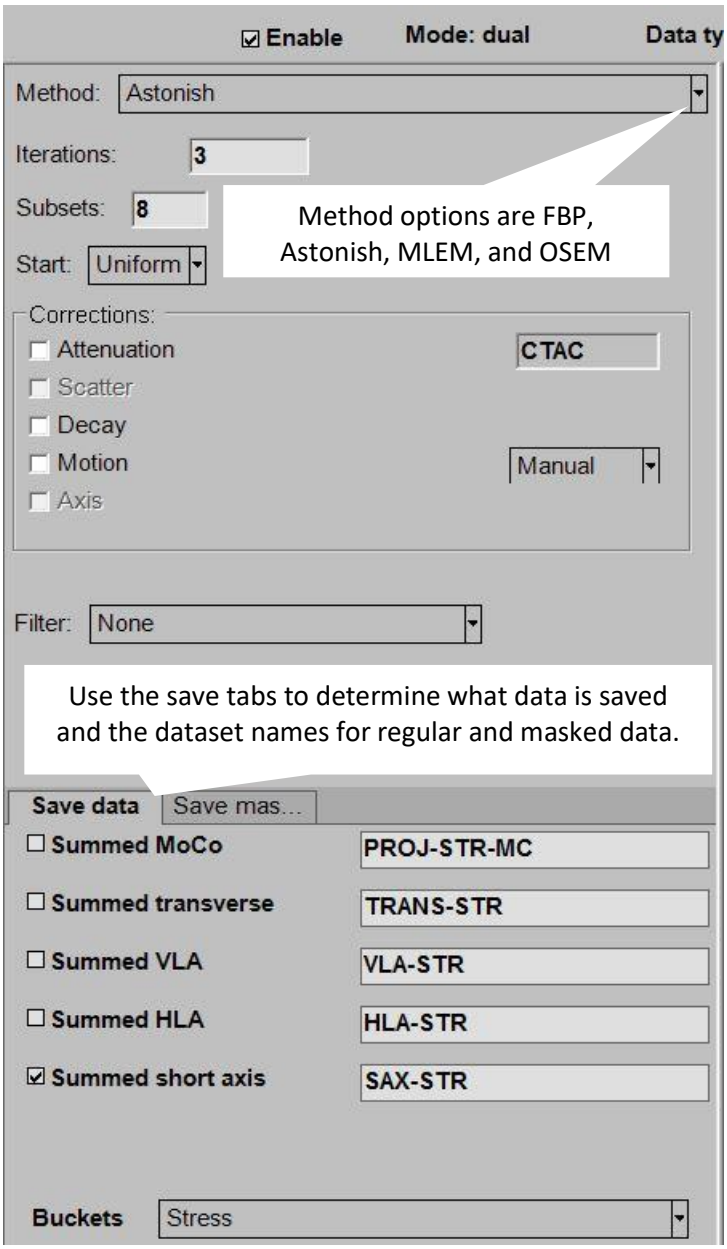


This page allows the user to set the incremental change values used in data registration on the AC Map page in studies which use CT Attenuation Correction.

7. Click Next Step  to advance to the Reconstruction page.

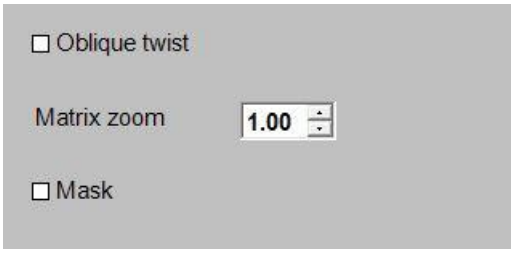
Select the step to edit. In this example the Stress rest step is highlighted. Deselect a checkbox to eliminate a step. When eliminating a step the corresponding bucket(s) must also have been deselected on the Setup page. Use the Link concurrent data checkbox to ensure that concurrently acquired data (e.g. gated and non-gated cardiac) match in reconstruction and reorientation.

8. The bulk of the Reconstruction page consists of the reconstruction parameters. (pictured below)
9. Use the Method drop-down menu to determine the method of reconstruction. These include FBP, MLEM, OSEM, and Astonish. For Iterative methods (MLEM, OSEM, and Astonish), it is necessary to indicate the number of iterations and subsets depending on the method selected.
10. In the Corrections section, specify if any corrections will be applied. Attenuation and Scatter correction cannot be performed on FBP processed data.
11. The options in the Filter drop-down menu will change depending on the method selected, but the most commonly used are Butterworth and Hanning. With each filter, it may be necessary to set an order and cutoff.
12. Lastly, the Save tabs are used to determine what data is saved by default and the names of the saved data.

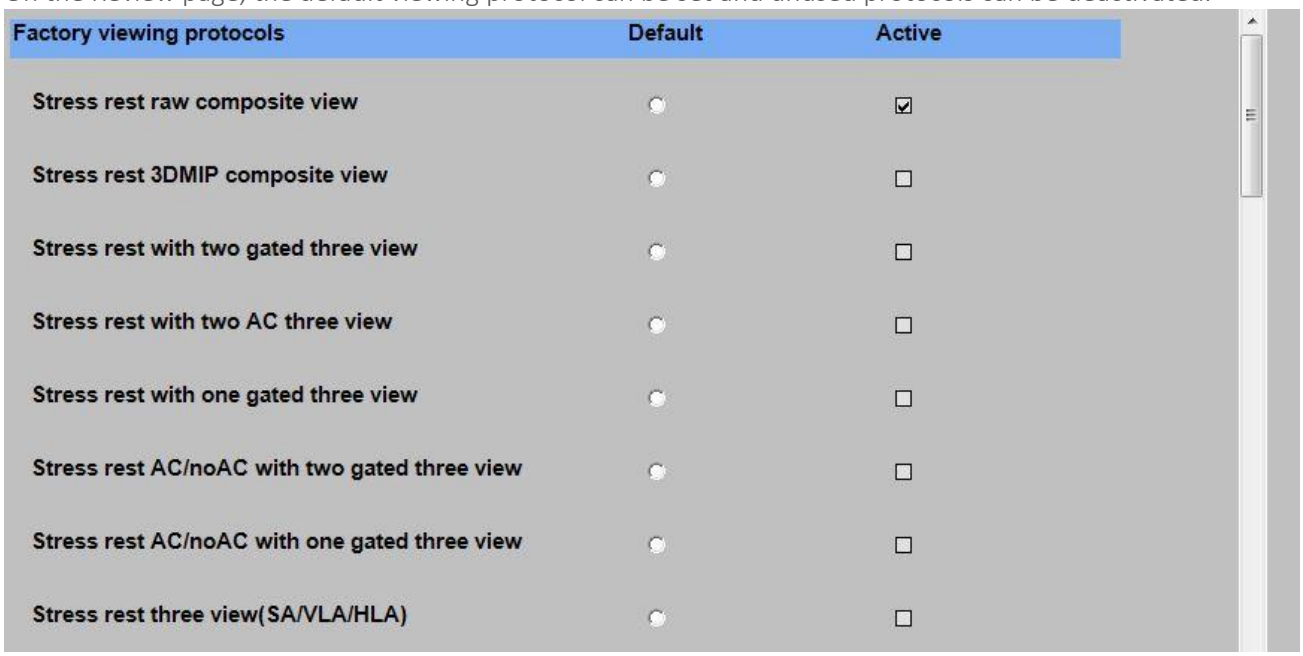


13. Click Next Step  to advance to the Reorient page

14. The Reorient page offers three customizations. There are checkboxes for Oblique twist and Mask. Oblique twist, when enabled, allows the user to reorient in the coronal plane and is typically used in non-cardiac studies. The Mask option, when checked, will automatically save the masked data specified on the Reconstruction page. Lastly, Matrix zoom will apply a zoom to the saved data.



15. Click Next Step  to advance to the Review page.
16. On the Review page, the default viewing protocol can be set and unused protocols can be deactivated.

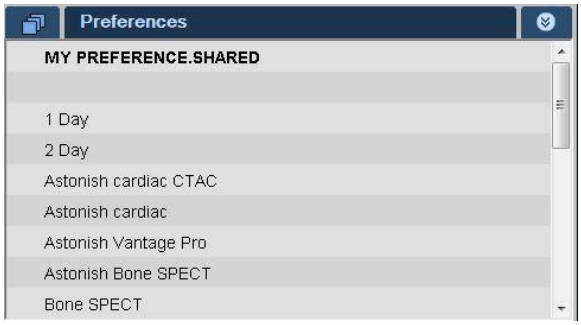


17. Once all adjustments have been made, click Save As at the bottom of the Preference editor to save the preference as a new user preference. If editing and overwriting an existing user preference, Save can be used.

Note

Use .SHARED as an extension to the preference name to share the preference with other users. This is commonly employed for ISP server solutions.

18. Close the Preference editor and exit AutoSPECT Pro. When the program is relaunched, the new preference will be visible in the Preferences section above the factory preferences and in boldface.



Limitations of Liability

Philips has taken care to ensure the accuracy of these materials However, Philips assumes no liability for errors or omissions and reserves the right to make changes without further notice to any products herein to improve reliability, function, or design. Philips may make improvements or changes in the product(s) or program(s) described in this content at any time.

Educational use only

Philips is providing these materials for educational use only. The content is not intended to provide medical advice, diagnosis, or treatment. This content should not be regarded as a substitute or replacement for the Operating Manual or Instructions for Use. Before attempting to use any Philips medical devices, you must read the Instructions for Use thoroughly, paying particular attention to all warnings, cautions, and notes it may contain. In all cases the information contained in the Instructions for Use is considered leading information.

Terms of use

Please see the full terms of use. HTTP://philips.com/terms