

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.




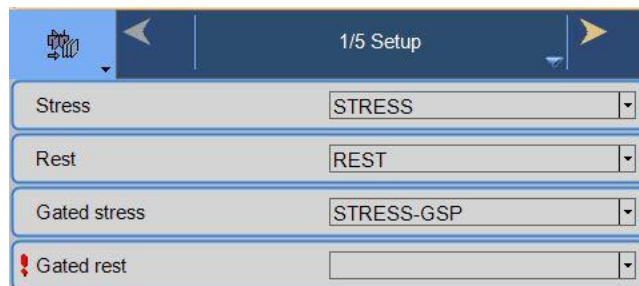
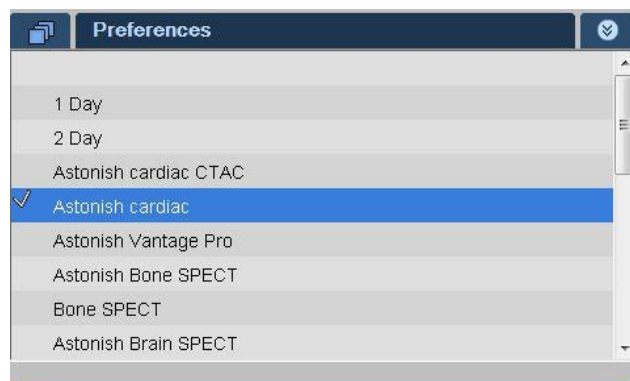
Supporting materials


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.

Preference editor

Preference: Astonish cardiac

Organ type: Heart
☐ Auto proceed

Setup

Bucket name	Matching string	Active	Alternate name
Rest prone	REST PRONE,RST-PRON	<input type="checkbox"/>	
Stress prone	STRESS PRONE,STR-PR	<input type="checkbox"/>	
Gated rest	GSP-REST,RST-GATED,RI	<input checked="" type="checkbox"/>	
Gated stress	GSP-STRESS,STR-GATE	<input checked="" type="checkbox"/>	
Rest AMap	REST,REST-AC,REST HEL	<input type="checkbox"/>	
Rest	REST,RST	<input checked="" type="checkbox"/>	
Stress AMap	STRESS,STRESS-AC,STR	<input type="checkbox"/>	
Stress	STRESS,STR	<input checked="" type="checkbox"/>	

Acquisition matching string
 CARDIAC,Myocardial,ASTONISH

Colormap
 CT window preset: PF
 SPECT colormap: thermal

Preference name: Astonish cardiac

Save as Save Apply Save apply Close

- 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.

Bucket name	Matching string	Active	Alternate name
Rest prone	REST PRONE,RST-PRON	<input type="checkbox"/>	
Stress prone	STRESS PRONE,STR-PR	<input type="checkbox"/>	
Gated rest	GSP-REST,RST-GATED,RI	<input checked="" type="checkbox"/>	
Gated stress	GSP-STRESS,STR-GATE	<input checked="" type="checkbox"/>	
Rest AMap	REST,REST-AC,REST HEL	<input type="checkbox"/>	
Rest	REST,RST	<input checked="" type="checkbox"/>	
Stress AMap	STRESS,STRESS-AC,STR	<input type="checkbox"/>	
Stress	STRESS,STR	<input checked="" type="checkbox"/>	

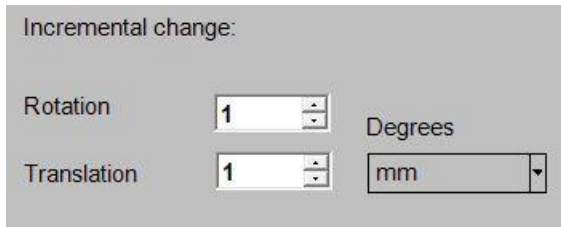
Use the Active checkbox to indicate if a bucket will or will not be used in the preference. The Alternate name field is used to change the display name of the bucket within the program.



Note

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

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



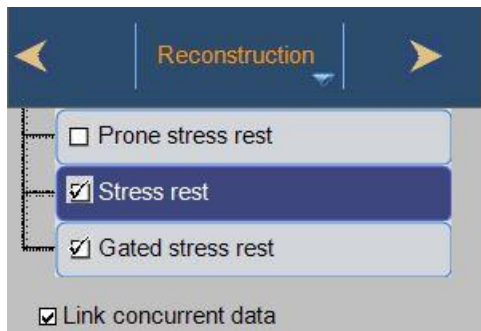
Incremental change:

Rotation 1 Degrees

Translation 1 mm

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.



Reconstruction

☐ Prone stress rest

☒ Stress rest

☒ Gated stress rest

☒ Link concurrent data

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.

☒ **Enable** **Mode: dual** **Data ty**

Method: Astonish

Iterations: 3

Subsets: 8

Start: Uniform

Corrections:

☐ Attenuation CTAC

☐ Scatter

☐ Decay

☐ Motion Manual

☐ Axis


Filter: None

Use the save tabs to determine what data is saved and the dataset names for regular and masked data.

Save data **Save mas...**

<input type="checkbox"/> Summed MoCo	PROJ-STR-MC
<input type="checkbox"/> Summed transverse	TRANS-STR
<input type="checkbox"/> Summed VLA	VLA-STR
<input type="checkbox"/> Summed HLA	HLA-STR
<input checked="" type="checkbox"/> Summed short axis	SAX-STR

Buckets Stress


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.

☐ Oblique twist

Matrix zoom 1.00

☐ Mask

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.

Factory viewing protocols	Default	Active
Stress rest raw composite view	<input type="radio"/>	<input checked="" type="checkbox"/>
Stress rest 3DMIP composite view	<input type="radio"/>	<input type="checkbox"/>
Stress rest with two gated three view	<input type="radio"/>	<input type="checkbox"/>
Stress rest with two AC three view	<input type="radio"/>	<input type="checkbox"/>
Stress rest with one gated three view	<input type="radio"/>	<input type="checkbox"/>
Stress rest AC/noAC with two gated three view	<input type="radio"/>	<input type="checkbox"/>
Stress rest AC/noAC with one gated three view	<input type="radio"/>	<input type="checkbox"/>
Stress rest three view(SA/VLA/HLA)	<input type="radio"/>	<input type="checkbox"/>

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.

Preference name	MY PREFERENCE.SHARED			
Save as	Save	Apply	Save apply	Close



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.



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