

QUICK REFERENCE HOW TO USE PMAP-QA

Corridor4DM Version:
5.2



Target Audience:
Technologists and Physicians (QA)

Primary Workstation:
Processing and Review

WARNING



Consistency is key!
Regardless of which location you prefer for the basal extent plane, maintain consistency from study-to-study.

Note: Users can specify in **Preferences** where they want the default basal extent plane location set. See Figure 3 for examples of the three different preference settings available in 4DM.



Note: Any user modifications to the basal limits can be restored to the original 4DM values by left-clicking on the **Reset** button (circled in red in Figure 2) at the top of the **Pmap-QA** screen.



Tip: Use the **dog-ear toggle** (circled in green in Figure 4) to scroll up or down through the SA slices for further assistance in finding the correct sample slice for consistent basal extent plane placement.



Clinical Importance

The **Pmap-QA** screen (shown in Figure 2) is a quality assurance screen to verify (and modify, if necessary) the basal extent of LV activity sampling (effective length of the heart). **Pmap-QA is used to compute all polar maps in 4DM** (see Figure 1). The more consistent that users are with their basal extent plane placement, the more accurate the polar maps will be. Use **Pmap-QA** once you have set the processing limits and reviewed the **Setup** and **Surf-QA** screens.

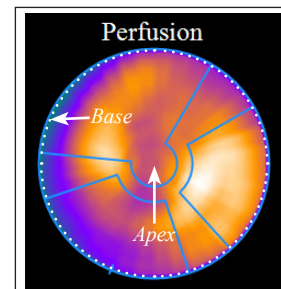


Figure 1: Shows a properly positioned polar map.

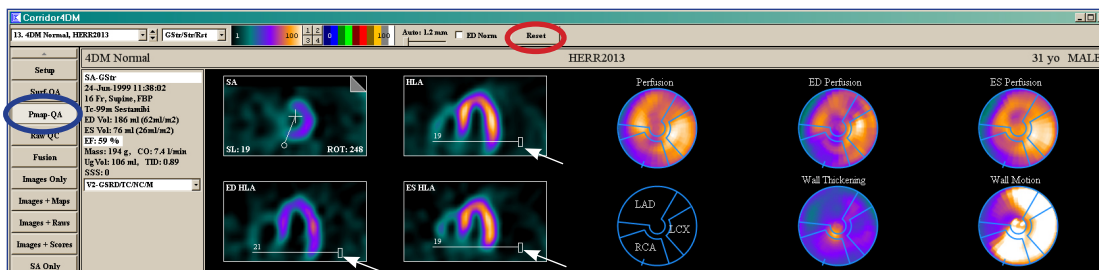


Figure 2: Shows the Pmap-QA screen with white arrows pointing to basal extent planes that are set to the lateral wall.

To access, review, and modify Pmap-QA follow these steps:

- Left-click on the **Pmap-QA** button (circled in blue in Figure 2) on the **Screen Control Panel**.
- **Visually confirm** that the program-generated basal extent planes on **all HLA** slices are properly placed. 4DM will use one of three different default options to set the basal extent plane (see Figure 3). If they are acceptable, no adjustments are necessary.
- **If modifications are necessary**, adjust the basal extent planes on **all HLA** slices by clicking and dragging the grab handle either up or down to the desired location. Ensure to use consistent placement when modifying HLA slices. For example, if you modify the HLA slices for the gated stress dataset to the lateral wall, ensure to use the same lateral wall placement for all remaining stress and rest HLA datasets.
- The **SA slice** shown in the **Pmap-QA** screen is a secondary check of your basal extent plane settings. If properly positioned, the SA image slices for each dataset should look similar (see Figure 4).

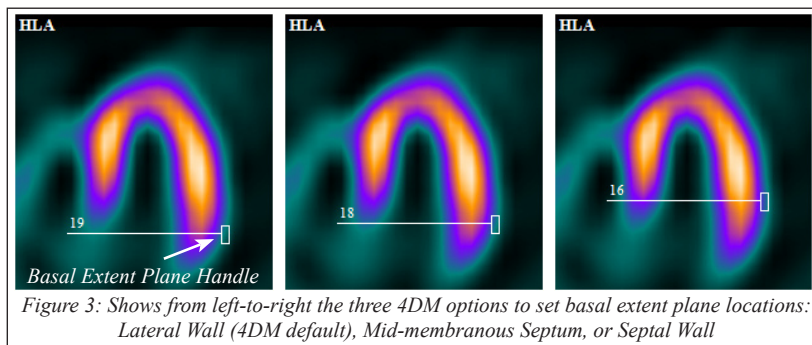


Figure 3: Shows from left-to-right the three 4DM options to set basal extent plane locations: Lateral Wall (4DM default), Mid-membranous Septum, or Septal Wall

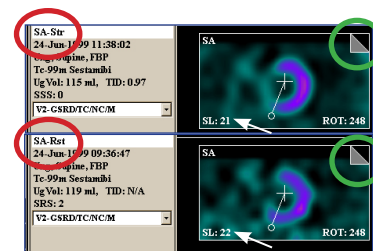


Figure 4: The dataset names are circled in red: Stress (top) and Rest (bottom). White arrows are pointing to the SA slice number that reflects the location of the basal extent plane placement for each dataset.