

QUICK REFERENCE HOW TO USE PMAP QA

Corridor4DM Version:
6.0 and 6.1



Target Audience:
Technologists and Physicians (QA)

Primary Workstation:
Processing and Review

WARNING



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

Note: Users can specify the default basal limit location in **Preferences**. 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 limit placement.



Clinical Importance

The **Pmap QA** screen (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 limit 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.

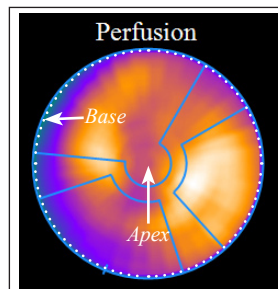


Figure 1: Shows a properly positioned polar map.

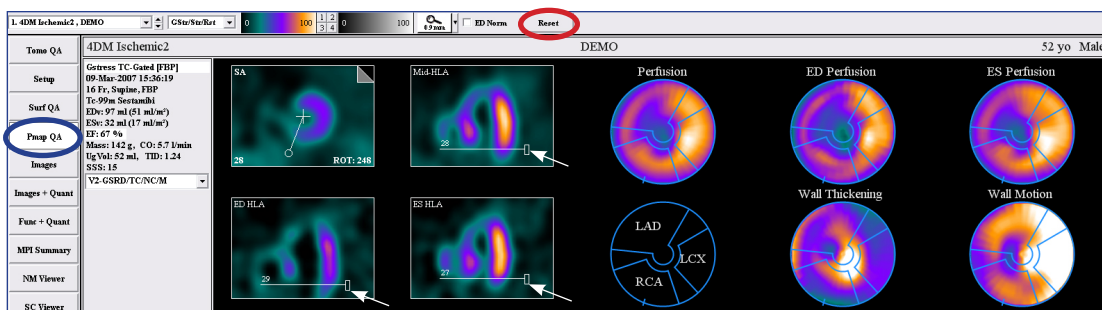


Figure 2: The Pmap-QA screen with white arrows pointing to basal limits set to the mid-membranous septal wall of a gated stress dataset.

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 limits on **all HLA slices** are properly placed.

4DM will use one of three different default options to set the basal limits (Figure 3). If they are acceptable, no adjustments are necessary.

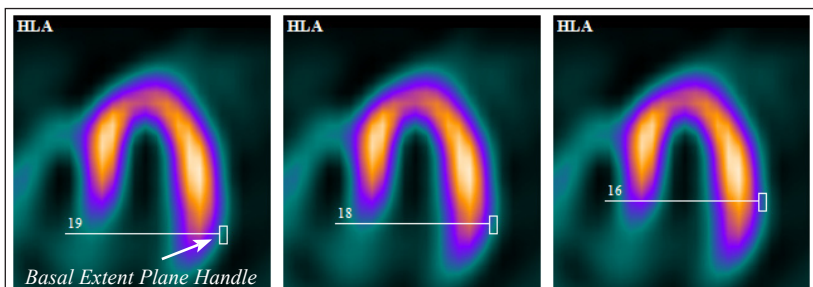


Figure 3: Shows from left-to-right the three 4DM options to set basal extent plane locations: Lateral Wall, Mid-membranous Septum (4DM default), or Septal Wall

- **If modifications are necessary**, adjust the basal limits on **all HLA slices** by clicking and dragging the grab handle either up or down to the desired location. 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 reference** shown in the **Pmap QA** screen is a secondary check of your basal limit settings. If properly positioned, the images displayed in the SA viewports for each dataset should look similar (Figure 4).

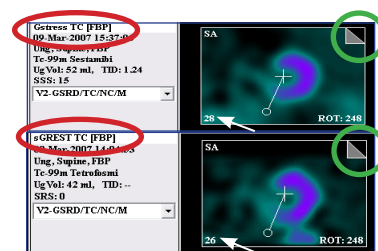


Figure 4: The dataset names are circled in red: Stress (top) and Rest (bottom). White arrows point to the SA slice number that reflects the location of the basal limit placement for each dataset.