

QUICK REFERENCE

ADVANCED OPTIONS-BASAL PLANE MOTION

Corridor4DM Version:
5.2



Target Audience:
Technologists

Primary Workstation:
Processing

WARNING!



It is strongly advised to use the 4DM default values for basal motion of 5mm and 20mm for a more accurate assessment of the LVEF. However, for serial LVEF comparisons to QGS, constraining the basal motion to 0mm and 6mm is acceptable.

Note: Making changes to the **Advanced Algorithm Options** settings directly from the **Setup** screen will **only** affect the currently displayed study.



Note: Making changes to the **Algorithm screen** settings within **Preferences** allows the user to **either**: make permanent changes to application settings (click **Save**), or make temporary changes that affect only the currently displayed study (click **OK**).



Clinical Importance

4DM software assumes that the base of the LV can move between 5mm-20mm from ED to ES. Since many other quantitative programs use different algorithms, 4DM offers the user the option to change the min and max ranges to better compare studies. For example, if a prior study was processed using QGS instead of 4DM, the user can process the current study in 4DM using a range of 0mm-6mm (instead of the default 5mm-20mm) to give a truer comparison of the prior study to the current study.

How To Change Basal Range of Motion within the Setup screen:



Figure 1

- From the **Setup** screen, click on the **Advanced** button located at the top in the **Screen Control Panel** (see Figure 1). **Be sure to do this BEFORE you set all apical/basal limits and save any data.** A dialog presents called **Advanced Algorithm Options** (see Figure 2).

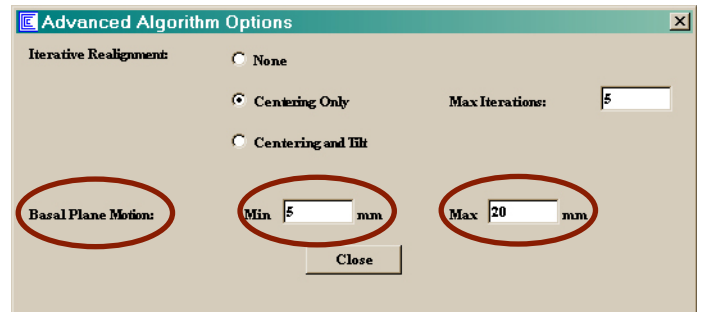


Figure 2: Shows *Advanced Algorithm Option* screen with 4DM default settings

- Edit the **5** in the **Min** field and replace it with a **0** (zero) (see Figure 3).
- Edit the **20** in the **Max** field and replace it with a **6** (see Figure 3).
- Click on **Close**.
- Set all processing limits on the **Setup** screen and click **Process**. For help with processing, go to the [Setting Processing Limits](#) Quick Reference Guide.

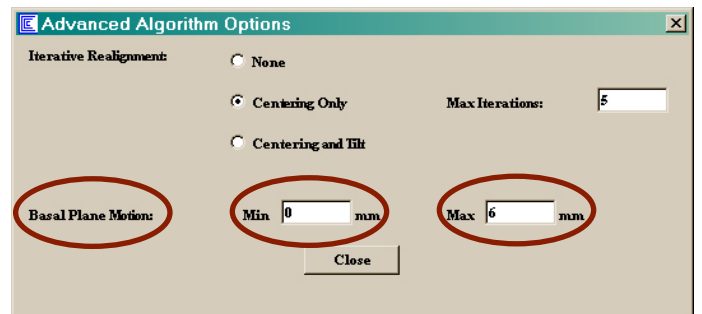


Figure 3: Shows *Advanced Algorithm Options* screen with QGS-like Basal Plane Motion settings.

How to change Basal Range of Motion within the Preferences Menu:

- From within any screen in 4DM, left-click on the **Preferences** button.
- Under **User Specific Settings**, click on the **Algorithms** button (circled in red in Figure 4). In the **Basal Plane Motion** section, make the desired **Min** and **Max** field edits as described above (circled in blue in Figure 4).
- Click **Save** to store these new default settings permanently. After you click **Save**, the program will apply the changes immediately and automatically exit **Preferences**.

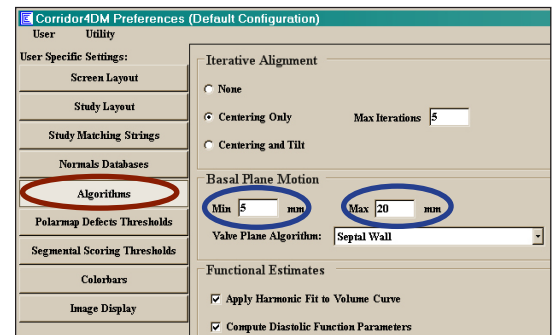


Figure 4: Shows the *Algorithms* screen within the *Preferences* menu.