

a2DQ^{A.I.} has **Auto ROI**, **Auto EF (aEF)**! AP2 and AP4 quantification provides fast, easy and reproducible biplane EF calculation.

Requires Apical 4 and/or Apical 2 images with ECG.

aEF/ FAC Workflow:

1. To launch **a2DQ^{A.I.}** **aEF/ FAC**:

- **From Review:** select one or more images, and then touch the **a2DQ** button on the touch screen or Left Panel. (figure 1)
- **From frozen image:** touch Q-Apps, and then touch **a2DQ**. (figure 2) Select the View.
- **From Analysis:** touch **Measure** touch **EF & Volume** collection; touch **EF (a2DQ)** group; and then touch desired measurement.

Note: Can also be launched off-cart.

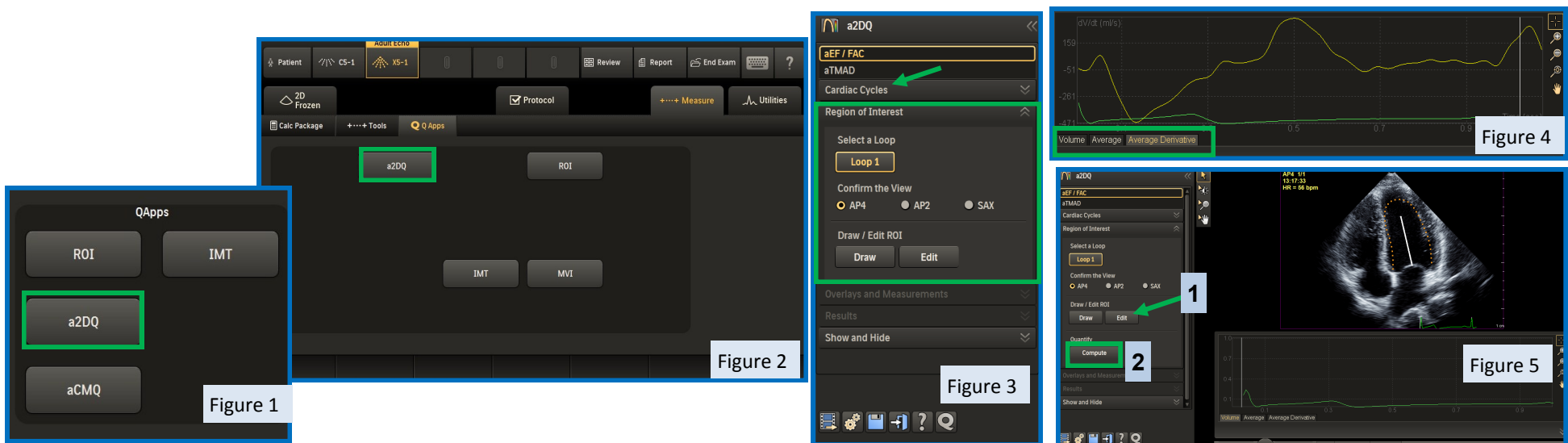
2. Select a Loop and confirm the View in the **Region of Interest** tab. (figure 3) **Note:** Not necessary if images acquired with Cardiac Smart Exam.

*Results display in Right Panel, Analysis (on system); and Report. Select preferred results graph parameter tab to view. (figure 4)

3. To edit, click on **Edit** (figure 5); locate the edit points on the tracking template or center of LV; then left click. **MUST click Compute to process** (figure 5). **Note:** **Compute** button is only available once begin edit.

Optional: To set the ROI manually, click **Draw**, place the annular and apical points will then calculate.

NOTE: If a2DQ cannot recognize the LV anatomical landmarks, it will populate a caliper on image once launched, manually place the caliper points on the annulus and apex.

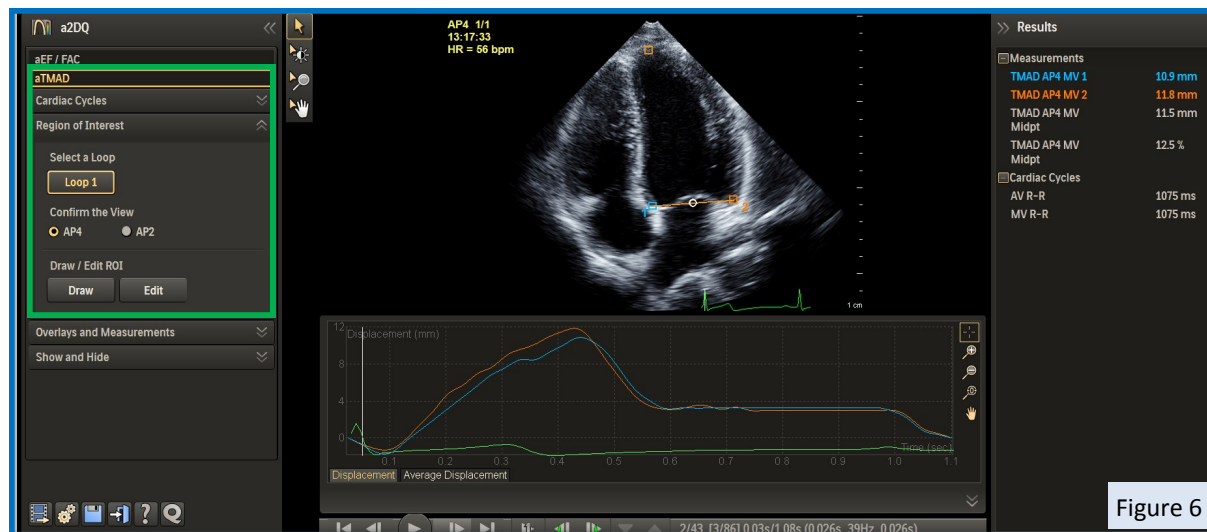


Additional tab selections in the **aEF/ FAC Workflow**:

- **Overlays and Measurements**– Color Kinesis, CK Mode, Transparency and Time Caliper
- **Results**– Displays Cardiac Function graphs and information
- **Show and Hide** – Options to display Panel, ROI and Cardiac Cycles

aTMAD^{A.I.} Workflow:

1. Click on **aTMAD^{A.I.}** tab. (figure 6)
2. Select **Loop** and select the **View**. The annular and apical points will be automatically set with results displayed in the Right Panel.
Overlays and Show and Hide are additional tab selections, containing the same options as aEF/FAC tab.
3. **Draw**: Place the first two points in the annular points and third point in the apex. **Edit**: Left click and hold on one of the 3 points to edit.



Cardiac cycles are automatically calculated. To set them manually, open the **Cardiac Cycle** tab, a dialog box opens to enter information. (figure 7)

