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Problems identified with MicroMaxx version 3.2 software

With the release of the MicroMaxx version 3.2 software (30.80.302.015) four problems have been found relating to cardiac calculations. Each of the problems is correctable and should not create a problem with the exam. A new version of software is currently under development to correct these issues.

Problem 1:

When in M-Mode and the generic caliper tool is being used to perform a measurement there will be no value shown for the calculation when the second caliper is activated.

Steps that demonstrate this problem:

1. Enter M-Mode.
2. Press caliper 1 to activate first set of calipers. Press select to get a measurement. Move caliper. Observe value is displayed in the measurement area.
3. Press caliper 2 to activate second set of calipers. Observe caliper 1 values are removed from the measurement area but caliper 1 graphic is still on the screen.

Workaround:

Press caliper 1 again to switch to first caliper, then both caliper results are displayed.

Problem 2:

The Aortic Valve (AV), Left Ventricular Outflow Tract (LVOT), and Pulmonic Valve (PV) Vmax, PGMMax and PGMMean measurement results are not displayed in the calcs menu result window.

Steps that demonstrate issue:

1. Perform an AV Vmax measurement and save to report. This data goes to column 1 in the detailed report.
2. Perform an AV VTI measurement and save. This data goes to column 2 in the detailed report.
3. Go to the detailed report. Results are displayed appropriately. Take note of the AV Vmax mean.
4. Exit report and display calc list.
5. Highlight the AV Vmax. Observe the value displayed at the bottom of the calcs menu, does not match the AV Vmax mean in the report. The value displayed at the bottom of the calc menu should be the mean value of the individual selected/highlighted calc.

Workaround:

Measure only Vmax or VTI. If user only measures Vmax, then mean is calculated correctly. If user only measures VTI, then mean is calculated correctly. If user measures a Vmax, then measures VTI, the system is not calculating the mean of Vmax until the next time user measures Vmax.

Problem 3:

If you perform a VTI (either in Qp:Qs or LVOT), the Vmax and VTI get propagated. If performing a LVOT Vmax measurement, this is not propagating to the Qp:Qs package as anticipated.

Steps that demonstrate issue:

1. New patient. Set exam to cardiac
2. Go to the 2D calcs menu and select LVOT D. Perform this measurement and save.
3. Go to Doppler calcs menu. Select LVOT Vmax, perform this measurement and save.
4. Enter the report page. Observe that the LVOT D and LVOT Vmax are displayed on the LVOT page.
5. Enter the Qp:Qs report page. Observe that the LVOT D is displayed but LVOT Vmax is not.

Workaround:

Measure only the VTI. If you perform a VTI (either Qp:Qs or LVOT), the Vmax and VTI get propagated. However if you simply perform a LVOT Vmax, then the Vmax is not propagated to Qp:Qs. The UI does not allow user to measure Qp:Qs Vmax independently.

Problem 4:

When user performs a VTI followed by a Vmax, deleting the Vmax from the calc list will cause the VTI values of the previous column to be deleted with the exception of Vmax and PGmax. Deleting from calc list should delete the values in the last column in the report only.

Steps that demonstrate issue:

1. New Patient. Set exam to cardiac.
2. Select AV Vmax, perform measurement, and save. This goes to column 1 in the detailed report
3. Select AV VTI, perform trace, and save. This goes to column 2 in the detail report.
4. Select AV Vmax, perform trace, and save. This goes to column 3 in the detailed report.
5. Go to AV detailed report to check that there are 3 columns of values for AV Vmax.
6. Go to AV calc list. Highlight AV Vmax. Select delete in the context menu.
7. Go to AV detailed report page. Observe that column 3 is gone but the VTI, Vmean and PGMean values were also deleted from column 2.

Workaround:

Delete measurements from the detailed report page only.

Clinical Best Practice:

When performing cardiac measurements we suggest always using the VTI measurement since it will provide more clinical data.

If there are any questions please contact SonoSite Technical Support

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