INSTITUTE OF PHYSICS AND ENGINEERING IN MEDICINE

Nuclear Medicine Software Working Party

Quality Assurance of MUGA Scan Processing Software

RESULT FORM (Please use a separate form for each operator)

Name of Site: **Operator Identifier (e.g. 1,2,etc):**

Computer System

Manufacturer: **Make and Model of Computer:**

Name and Version of Software used:

Operator experience (please tick appropriate box in each case)

How long have you been routinely processing MUGA scans?

< 6 months ☐ 6 months - 1 year ☐ > 1 year ☐

How many scans do you process per month?

1-10 ☐ 11-30 ☐ > 30 ☐

Results Table

Space for additional local parameters.

Study Number	L.V.E.F. (%)	End Diastolic Frame Number	End Systolic Frame Number	Time per frame	Count value of first point of L.V. curve + units			

Please indicate the normal range for LVEF at your centre: %max..... %min.....

Continued…

Details of Analysis (please tick appropriate box in each case)

Software used:

Commercial ☐ User Written ☐

Did you process the data as 32 or 16 frames ? 16 ☐ 32 ☐

ROI Method:

Manual ☐ Semi-automatic ☐ Fully Automatic ☐

Were Phase images used for ROI definition? Y ☐ N ☐

Were separate diastole and systole ROIs used? Y ☐ N ☐

Was background subtraction used? Y ☐ N ☐

Please describe how background and ventricular regions are defined (if known)

Please describe the form of background subtraction used.

Smoothing:

Please indicate the type of smoothing used (if any). Temporal ☐ Spatial ☐

Please indicate the number of smooths used. ☐

<u>Ejection Fraction Curve Generation</u>:

Please describe briefly how the ejection fraction (LVEF) is calculated from the LV curve.

It would be useful to attach an example of your standard results print out with this form for one of the data sets.