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| ecomed logo**ECOLAND MEDICAL AND WELLNESS CENTER INC.**  Quimpo Blvd., Ecoland, Davao City  Tel No. 082-291-9717  [www.ecomed.ph](http://www.ecomed.ph)  **2D ECHOCARDIOGRAM** | | | | | | | | |
| Study Date: |  | | | ID Number: | |  | | |
| Name: |  | | | Sonographer: | |  | | |
| Age: |  | | | Echo Machine: | |  | | |
| Gender: |  | | | Blood Pressure: | | / | | |
| Requesting  Physician: |  | | | Heart Rate (bpm): | |  | | |
| Indication/s for Study: |  | | | Height (cm): | |  | | |
| Image Quality: | [ ] Poor [ ] Fair [ ] Good | | | Weight (kg): | |  | | |
| Rhythm: | [ ] Sinus [ ] Afib [ ] Other: | | | BSA: | |  | | |
| **LV Size** | | | **RV Size and Function** | | | **Atrial Measurements** | | |
| **Standard LV Measurements** | | | Standard RV Measurements | | | Standard LA Measurements | | |
| LV Dimension | Patient  Values | Normal  Values | RV Dimension | Patient Values | Normal Values | Parameter | Patient Values | Normal Values |
| Left Ventricle End Diastolic Dimension |  | M:4.2-5.8 cm  F:3.8-5.2 cm | RV Basal Diameter |  | 25-41 mm | LA Anterior- Posterior Diameter |  | M:3.0-4.0 cm  F:2.7-3.8 cm |
| RV Mid Diameter |  | 19-35 mm |
| Left Ventricle End Systolic Dimension |  | M:2.5-4.0 cm  F:2.2-3.5 cm | RV Longitudinal Diameter |  | 59-83 mm | LA Area |  | <20 cm2 |
| RVOT PLAX Diameter |  | 20-30 mm | LA Volume Index |  | 16-34 ml/m2 |
| Left Ventricle End Diastolic Dimension/BSA |  | M:2.2-3.0 cm/m2  F:2.3-3.1 cm/m2 | RV Wall thickness |  | 1-5 mm | **Standard RA Measurements** | | |
| **Standard Parameters for RV Function** | | | Parameter | Patient Values | Normal Values |
| Left Ventricle End Systolic Dimension/BSA |  | M:1.3-2.1 cm/m2  F:1.3-2.1 cm/m2 | Parameter | Patient Values | Abnormality threshold | RA Area |  | <18 cm2 |
| TAPSE |  | <17mm | RA Minor axis |  | M:1.9+0.3 cm/m2  F:1.9+0.3 cm/m2 |
| Interventricular Septum in End Diastole |  | M:0.6-1.0 cm  F:0.6-0.9 cm | FAC |  | <35% |
| Sm’ |  | <9.5 | RA Major axis |  | M:2.4+0.3 cm/m2  F: 2.5+0.3 cm/m2 |
| Posterior Wall in End Diastole |  | M:0.6-1.0 cm  F:0.6-0.9 cm | RV Free wall strain |  | >-20% |
| *FAC-fractional area change, RA-right atrium, RV-right ventricle, LA- left atrium,*  *RVOT-right ventricular outflow tract, TAPSE-tricuspid annular plane systolic excursion* | | | RA volume index |  | M:25+7 ml/m2  F:21+6 ml/m2 |
| Left Ventricular Mass Index (gm/m2) |  | M:49-115  F:43-95 |
| **2D Derived LV Volumes/Function/GLS** | | | **Great Vessels’ Dimensions** | | | | | |
| LV Volume | Patient Values | Normal Values | Dimension | Patient Values | Normal Values | | Dimension | Patient values |
| LV End Diastolic Volume |  | M:62-150 ml  F:46-106 ml | Absolute values | Indexed Values |
| Aortic Annulus |  | M:2.6+0.3 cm  F:2.3+0.2 cm | M:1.3+0.1 cm/m2  F:1.3+0.1 cm/m2 | IVC Diameter |  |
| LV End Systolic Volume |  | M:21-61 ml  F:14-42 ml | IVC Insp |  |
| Sinus of Valsalva |  | M:3.4+0.3 cm  F:3.0+0.3 cm | M:1.7+0.2 cm/m2  F:1.8+0.2 cm/m2 | % Collapsibility |  |
| LV Ejection fraction by Simpson’s |  | M:52-72%  F:54-74% | Main Pulmonary Artery |  |
| Sinotubular Junction |  | M:2.9+0.3 cm  F:2.6+0.3 cm | M:1.5+0.2 cm/m2  M:1.5+0.2 cm/m2 | LVOT Diameter |  |
| LV Global Longitudinal Strain |  | >18% | Aorta |  |
| SV (ml) |  |  | Proximal Ascending Aorta |  | M:3.0+0.4 cm  F:2.7+0.4 cm | M:1.5+0.2 cm/m2  F:1.6+0.3 cm/m2 |  | |
| CO(L/min) |  |  |
| CI(L/min/m2) |  |  |
| *0SV-stroke volume, CO-cardiac output, CI- cardiac index, LVOT-left ventricular outflow tract, IVC-inferior vena cava, GLS-Global longitudinal strain, TR-tricuspid regurgitation, PASP-pulmonary arterial systolic pressure, RAP-right atrial pressure, PV-pulmonary valve, IVRT-interventricular relaxation time, PHT-pressure half time*  Normal values based on:  1). 2015 ASE/EACVI Recommendations on chamber quantification by echocardiography  **Disclaimer: The above results is a subjective interpretation of an objective cardiovascular diagnostic modality and is only part of a total cardiovascular assessment of a patient. Results should be discussed by the attending/requesting physician in correlation with other clinical findings and diagnostic parameters to the patient.** | | | | | | | | |

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| **Doppler Measurements** | | | | | | **Tissue Doppler Imaging** | | |
| Parameter | Patient Values | Normal Values | Parameter | Patient Values | Normal Values | Parameter | Patient Values | Normal Values |
| Mitral E velocity (m/sec) |  | 0.6-1.3 | AV Velocity (m/sec) |  | 1.0-1.7 | Septal e' (cm/sec) |  | >8 |
| Mitral A velocity (m/sec) |  | 0.3-0.75 | AV peak gradient (mmHg) |  | 4.0-11.5 | Septal a' |  |  |
| Mitral Dec time (msec) |  | 150-240 | AV VTI |  |  | Septal s' (cm/sec) |  | >7 |
| Mitral mean gradient (mmHg) |  |  | Estimated RAP (mmHg) |  |  | Average Septal E/e' |  | <8 |
| E/A ratio |  | 1-2 | TV velocity (m/sec) |  | 0.3-0.7 | Lateral e' (cm/sec) |  | >10 |
| IVRT (msec) |  | 70-90 | TR peak gradient (mmHg) |  | 1.25-2.8 | Lateral a' |  |  |
| Mitral Pressure Half Time |  |  | PASP by TR jet method |  | <35 mmHg | Lateral s' (cm/sec) |  | >9 |
| LVOT Velocity (m/sec) |  |  | PV velocity (m/sec) |  | 0.6-0.9 | Ave Lateral E/e’ |  | <8 |
| LVOT VTI |  |  | RVOT VTI |  |  |  |  |  |

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| **Interpretation**      **Dr. Julius Caesar de Vera, FPCP, FPCC, FPSE**  **Lic. No. 0104858** |