

# ECHOCARDIOGRAPHIC DIAGNOSIS OF PULMONARY HYPERTENSION IN RHEUMATIC HEART DISEASE

*A Thesis Submitted For Partial Fulfillment of  
Master Degree  
In  
Pediatrics*



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*To My Father and Brother  
To My Parents' in Law  
To My Dear Husband  
and Precious Son*



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## List of Abbreviations

|           |                                                                      |
|-----------|----------------------------------------------------------------------|
| AA        | Ascending aorta                                                      |
| AcT       | Acceleration time                                                    |
| AcT/PEP   | Ratio between acceleration time and pre-ejection period              |
| AcT/RVET  | Ratio between acceleration time and right ventricular ejection time. |
| AMV       | Anterior mitral valve leaflet.                                       |
| Ao        | Aorta                                                                |
| AR        | Aortic regurge                                                       |
| ARV       | Anterior right ventricular wall                                      |
| ASD       | Atrial septal defect                                                 |
| AV        | Aortic valve                                                         |
| Biat.     | Biatrial enlargement                                                 |
| Bivent.   | Biventricular enlargement                                            |
| CTR       | Cardiothoracic ratio                                                 |
| CW        | Chest wall                                                           |
| 2-D echo. | Two-dimensional echocardiography                                     |
| DA        | Descending aorta                                                     |
| ECG       | Electrocardiography                                                  |
| EjFr      | Ejection fraction                                                    |
| EN        | Endocardium                                                          |
| EP        | Epicardium                                                           |
| FS        | Fractional shortening                                                |
| IVS       | Interventricular septum                                              |
| LA        | Left atrium                                                          |
| LAD       | Left atrial diameter                                                 |
| LCA       | Left carotid artery                                                  |
| LPS       | Left parasternal                                                     |
| LS        | Left septum                                                          |
| LSA       | Left subclavian artery                                               |



|           |                                              |
|-----------|----------------------------------------------|
| LV        | Left ventricle                               |
| LVEDD     | Left ventricular end diastolic diameter      |
| LVESD     | Left ventricular end systolic diameter       |
| MHz       | Magahertz                                    |
| mmHg      | Milliemetre mercury                          |
| MPAP      | Mean pulmonary artery pressure               |
| MR        | Mitral regurge                               |
| MS        | Mitral stenosis                              |
| m.sec.    | Millisecond                                  |
| m/sec     | Metre per second                             |
| MV        | Mitral valve                                 |
| N         | Normal                                       |
| PA        | Pulmonary artery                             |
| PAP       | pulmonary artery pressure                    |
| PER       | Pericardium                                  |
| PLA       | Posterior left atrial wall                   |
| PLV       | Posterior left ventricular wall              |
| PM        | Papillary muscle                             |
| PMV       | Posterior mitral valve leaflet               |
| PPM       | Posterior papillary muscle                   |
| PR        | Pulmonary regurge                            |
| Pulm. P++ | Pulmonary hypertension                       |
| PWT       | Posterior wall thickness                     |
| RA        | Right atrium                                 |
| RAD       | Right axis deviation                         |
| RPA       | Right pulmonary artery                       |
| RPEP      | Right ventricular pre-ejection period        |
| RS        | Right septum                                 |
| RV        | Right ventricle                              |
| RVD       | Right ventricular diameter                   |
| RVET      | Right ventricular ejection time              |
| RV-IVRT   | Right ventricular isovolumic relaxation time |
| RVOT      | Right ventricular outflow tract              |



|     |                           |
|-----|---------------------------|
| S   | Sternum                   |
| S1  | First heart sound         |
| S2  | Second heart sound        |
| SD  | Standard deviation        |
| STI | Systolic time intervals   |
| SWT | Septal wall thickness     |
| T   | Transducer                |
| TR  | Tricuspid regurge         |
| TV  | Tricuspid valve           |
| VSD | Ventricular septal defect |

