|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Parameters | N | Iteration | Sample size | TP | TN | FN | FP | Precision | Recall | F1 Score | Accuracy |
| MR | 253 | 1 | 92 | 78 | 0 | 14 | 0 | 100% | 85% | 92% | 85% | |
| 2 | 111 | 100 | 0 | 11 | 0 | 100% | 90% | 95% | 90% | |
| 3 | 40 | 20 | 20 | 0 | 0 | 100% | 100% | 100% | 100% | |
| 4 | 10 | 10 | 0 | 0 | 0 | 100% | 100% | 100% | 100% | |
| MS | 205 | 1 | 107 | 87 | 0 | 20 | 0 | 100% | 81% | 90% | 81% | |
| 2 | 48 | 44 | 0 | 4 | 0 | 100% | 92% | 96% | 92% | |
| 3 | 40 | 20 | 20 | 0 | 0 | 100% | 100% | 100% | 100% | |
| 4 | 10 | 10 | 0 | 0 | 0 | 100% | 100% | 100% | 100% | |
| AR | 201 | 1 | 100 | 75 | 0 | 25 | 0 | 100% | 75% | 86% | 75% | |
| 2 | 51 | 40 | 0 | 11 | 0 | 100% | 78% | 88% | 78% | |
| 3 | 40 | 20 | 19 | 0 | 1 | 95% | 100% | 98% | 98% | |
| 4 | 10 | 10 | 0 | 0 | 0 | 100% | 100% | 100% | 100% | |
| AS | 130 | 1 | 70 | 60 | 0 | 10 | 0 | 100% | 86% | 92% | 86% | |
| 2 | 10 | 10 | 0 | 0 | 0 | 100% | 100% | 100% | 100% | |
| 3 | 40 | 20 | 20 | 0 | 0 | 100% | 100% | 100% | 100% | |
| 4 | 10 | 10 | 0 | 0 | 0 | 100% | 100% | 100% | 100% | |
| DF | 110 | 1 | 50 | 50 | 0 | 0 | 0 | 100% | 100% | 100% | 100% | |
| 2 | 10 | 10 | 0 | 0 | 0 | 100% | 100% | 100% | 100% | |
| 3 | 40 | 20 | 20 | 0 | 0 | 100% | 100% | 100% | 100% | |
| 4 | 10 | 10 | 0 | 0 | 0 | 100% | 100% | 100% | 100% | |
| FG | 87 | 1 | 47 | 27 | 0 | 20 | 0 | 100% | 57% | 73% | 57% | |
| 2 | 40 | 20 | 20 | 0 | 0 | 100% | 100% | 100% | 100% | |
| LVEF | 366 | 1 | 40 | 27 | 0 | 13 | 0 | 100% | 68% | 81% | 68% | |
| 2 | 182 | 171 | 0 | 11 | 0 | 100% | 94% | 97% | 94% | |
| 3 | 38 | 37 | 0 | 1 | 0 | 100% | 97% | 99% | 97% | |
| 4 | 30 | 29 | 0 | 1 | 0 | 100% | 97% | 98% | 97% | |
| 5 | 26 | 26 | 0 | 0 | 0 | 100% | 100% | 100% | 100% | |
| 6 | 40 | 20 | 20 | 0 | 0 | 100% | 100% | 100% | 100% | |
| 7 | 10 | 10 | 0 | 0 | 0 | 100% | 100% | 100% | 100% | |
| Total | | | 1,352 |  | | | | | | | | |

Manual Validation of ECHO reports with classified severities of Mitral Regurgitation (MR), Mitral Stenosis (MS), Aortic Regurgitation (AS), Aortic Stenosis (AS),Left Ventricular Diastolic Function(DF), Flow gradient across Aortic Stenosis (FG) and Left Ventricular Ejection Fraction (LVEF) values from 1,352 ECHO reports (1,352 patients) between 1st June 2016 - 31st March 2021.