

Reference Ranges in Males

| Males | All (n = 91) | 20 to 29 (n = 19) | | | 30 to 39 (n = 17) | | | 40 to 49 (n = 19) | | | 50 to 59 (n = 20) | | | 60 to 69 (n = 16) | | |
|---------------------------------|-----------------|----------------------|-------|-------------|----------------------|-------|-------------|----------------------|-------|-------------|----------------------|-------|-------------|----------------------|-------|-------------|
| | Mean ± SD | Lower | Mean | Upper | Lower | Mean | Upper | Lower | Mean | Upper | Lower | Mean | Upper | Lower | Mean | Upper |
| LV Trabeculation | | | | | | | | | | | | | | | | |
| Global FD | 1.216 ± 0.029 | 1.141-1.156 | 1.199 | 1.243-1.257 | 1.148-1.163 | 1.206 | 1.250-1.264 | 1.155-1.169 | 1.213 | 1.256-1.271 | 1.161-1.176 | 1.220 | 1.263-1.284 | 1.168-1.183 | 1.226 | 1.270-1.284 |
| Mean Apical FD | 1.235 ± 0.040 | 1.147-1.167 | 1.226 | 1.286-1.306 | 1.150-1.170 | 1.230 | 1.290-1.310 | 1.153-1.173 | 1.233 | 1.293-1.313 | 1.157-1.177 | 1.236 | 1.296-1.316 | 1.160-1.180 | 1.240 | 1.300-1.320 |
| Max Apical FD | 1.293 ± 0.039 | 1.209-1.229 | 1.286 | 1.344-1.363 | 1.212-1.231 | 1.289 | 1.347-1.366 | 1.215-1.234 | 1.292 | 1.350-1.369 | 1.218-1.237 | 1.295 | 1.353-1.372 | 1.221-1.240 | 1.298 | 1.356-1.375 |
| Global Myocardial Strain | | | | | | | | | | | | | | | | |
| Circumferential*, % | 19.6 ± 2.1 | 15.1-16.2 | 19.4 | 22.5-23.6 | 15.2-16.3 | 19.4 | 22.6-23.7 | 15.3-16.4 | 19.5 | 22.7-23.8 | 15.4-16.5 | 19.6 | 22.8-23.9 | 15.5-16.6 | 19.7 | 22.9-24.0 |
| Radial, % | 42.7 ± 8.1 | 24.5-28.6 | 40.8 | 53.0-57.1 | 25.3-29.4 | 41.6 | 53.8-57.9 | 26.1-30.2 | 42.4 | 54.6-58.7 | 26.9-31.0 | 43.2 | 55.4-59.5 | 27.7-31.8 | 44.0 | 56.2-60.3 |
| Longitudinal*, % | 18.4 ± 2.3 | 14.2-15.2 | 18.4 | 21.5-22.6 | 14.3-15.3 | 18.4 | 21.6-22.6 | 14.3-15.4 | 18.5 | 21.6-22.7 | 14.4-15.4 | 18.6 | 21.7-22.7 | 14.5-15.5 | 18.6 | 21.8-22.8 |

*Circumferential and longitudinal strain reported as absolute values. Upper and lower limits reflect indeterminate regions (95% CIs of reference limits)

Reference Ranges in Females

| Females | All (n = 89) | 20-29 (n = 16) | | | 30-39 (n = 18) | | | 40-49 (n = 17) | | | 50-59 (n = 20) | | | 60-69 (n = 18) | | |
|---------------------------------|-----------------|-------------------|-------|-------------|-------------------|-------|-------------|-------------------|-------|-------------|-------------------|-------|-------------|-------------------|-------|-------------|
| | Mean ± SD | Lower | Mean | Upper | Lower | Mean | Upper | Lower | Mean | Upper | Lower | Mean | Upper | Lower | Mean | Upper |
| LV Trabeculation | | | | | | | | | | | | | | | | |
| Global FD | 1.195 ± 0.029 | 1.133-1.146 | 1.190 | 1.232-1.247 | 1.134-1.149 | 1.191 | 1.234-1.249 | 1.136-1.150 | 1.193 | 1.236-1.250 | 1.138-1.152 | 1.195 | 1.238-1.252 | 1.140-1.154 | 1.197 | 1.240-1.254 |
| Mean Apical FD | 1.197 ± 0.044 | 1.109-1.131 | 1.197 | 1.264-1.286 | 1.109-1.131 | 1.197 | 1.263-1.286 | 1.108-1.131 | 1.197 | 1.263-1.285 | 1.108-1.130 | 1.197 | 1.263-1.285 | 1.108-1.130 | 1.196 | 1.263-1.285 |
| Max Apical FD | 1.261 ± 0.045 | 1.174-1.197 | 1.265 | 1.333-1.355 | 1.173-1.196 | 1.263 | 1.331-1.354 | 1.172-1.194 | 1.262 | 1.330-1.353 | 1.170-1.193 | 1.261 | 1.329-1.351 | 1.169-1.191 | 1.259 | 1.327-1.350 |
| Global Myocardial Strain | | | | | | | | | | | | | | | | |
| Circumferential*, % | 22.8 ± 2.6 | 15.0-16.3 | 20.2 | 24.1-25.4 | 16.0-17.3 | 21.2 | 25.1-26.4 | 17.1-18.4 | 22.2 | 26.1-27.4 | 18.1-19.4 | 23.3 | 27.1-28.4 | 19.1-20.4 | 24.3 | 28.2-29.5 |
| Radial, % | 53.9 ± 10.5 | 23.8-29.1 | 44.8 | 60.6-65.8 | 27.4-32.7 | 48.5 | 64.2-69.5 | 31.1-36.3 | 52.1 | 67.8-73.1 | 34.7-39.9 | 55.7 | 71.5-76.7 | 38.3-43.6 | 59.3 | 75.1-80.3 |
| Longitudinal*, % | 21.2 ± 2.4 | 16.9-17.9 | 21.1 | 24.2-25.3 | 17.0-18.0 | 21.2 | 24.3-25.4 | 17.1-18.2 | 21.3 | 24.5-25.5 | 17.3-18.3 | 21.5 | 24.6-25.7 | 17.4-18.4 | 21.6 | 24.7-25.8 |

*Circumferential and longitudinal strain reported as absolute values. Upper and lower limits reflect indeterminate regions (95% CIs of reference limits)