Supplementary Table 1: Distribution of demographics and cardiometabolic risk factors by aortic phenotypes

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| **Variable** | **Total Volume <= 155ml**  **(n=191)** | **Total Volume > 155ml**  **(n=190)** | **p** | **Total Length <= 32cm**  **(n=182)** | **Total Length >32cm**  **(n=199)** | **p** | **Max Diameter <= 34mm**  **(n=188)** | **Max Diameter >34mm**  **(n=193)** | **p** | **Arch Distance <= 74mm**  **(n=184)** | **Arch Distance > 74mm**  **(n=197)** | **p** |
| **Female sex** | 126 (66%) | 34 (18%) | <0.001 | 120 (66%) | 40 (20%) | <0.001 | 108 (57%) | 52 (27%) | <0.001 | 111 (60%) | 49 (25%) | <0.001 |
| **Age (years)** | 52.69 ± 8.12 | 60.01 ± 8.12 | <0.001 | 54.26 ± 9.41 | 56.34 ± 9.26 | <0.001 | 53.43 ± 9.21 | 59.17 ± 8.41 | <0.001 | 52.84 ± 8.66 | 59.6 ± 8.61 | <0.001 |
| **BMI (kg/m2)** | 27.08 ± 4.84 | 29.31± 4.84 | <0.001 | 27.38 ± 4.85 | 28.94 ± 4.94 | 0.002 | 27.36 ± 4.89 | 29 ± 4.89 | 0.001 | 26.6 ± 4.47 | 29.69± 4.92 | <0.001 |
| **Total cholesterol (mg/dl)** | 217.1 ± 36.59 | 218.8 ± 36.59 | 0.64 | 219.7 ± 36.84 | 216.3± 35.94 | 0.36 | 218.3 ± 37.03 | 217.5± 35.79 | 0.83 | 217.3 ± 37.32 | 218.5 ± 35.53 | 0.75 |
| **HDL (mg/dl)** | 65.93 ± 15.46 | 57.75 ± 15.46 | <0.001 | 66.34 ± 18.53 | 57.76 ± 15.69 | <0.001 | 65.2 ± 18.64 | 58.59 ± 15.94 | <0.001 | 65.7 ± 18.43 | 58.26 ± 16.05 | <0.001 |
| **LDL (mg/dl)** | 137.5 ± 33.04 | 141.8 ± 33.04 | 0.2 | 138.6 ± 33 | 140.6 ± 33 | 0.57 | 138.7 ± 32.64 | 140.5 ± 33.36 | 0.59 | 137.7 ± 33.93 | 141.5 ± 32.03 | 0.27 |
| **Triglycerides (mg/dl)** | 114.89 ± 87.88 | 150.24± 87.88 | <0.001 | 116.8 ± 80.86 | 146.9 ± 88.25 | <0.001 | 120.23 ± 83.63 | 144.49 ± 86.81 | 0.006 | 113.89 ± 74.42 | 149.9 ± 92.42 | <0.001 |
| **Hypertension (n, %)** | 38 (20%) | 95 (50%) | <0.001 | 48 (26%) | 85 (43%) | <0.001 | 47 (25%) | 86 (45%) | <0.001 | 30 (16%) | 103 (52%) | <0.001 |
| **Smoking**  **(n, %)**  **Regular**  **Occasional**  **Former**  **Never** | 34 (18%)  6 (3%)  72 (38%)  79 (41%) | 31 (16%)  6 (3%)  95 (50%)  58 (31%) | 0.16 | 34 (19%)  5 (3%)  75 (41%)  68 (37%) | 31 (16%)  7 (3%)  92 (46%)  69 (35%) | 0.94 | 29 (16%)  6 (3%)  79 (42%)  74 (39%) | 36 (19%)  6 (3%)  88 (45%)  63 (33%) | 0.94 | 36 (20%)  8 (43%)  66 (36%)  74 (41%) | 29 (15%)  4 (2%)  101 (51%)  63 (33%) | 0.69 |