

Table S1 Subgroup analysis of bilateral SVC and quantitative coronary sinus measurements according to gender, age and BMI: type I (N=66)

Subgroups	RSCV-L (mm)	LSCV-L (mm)	RSCV-D (mm)	LSCV-D (mm)	RSCV-A (mm ²)	LSCV-A (mm ²)	CSOD (mm)	CSL (mm)	CSOA (mm ²)
Gender									
Female (n=37)	43.0±10.0	130.7±13.1	13.7±3.6	16.0±3.5	157.6±83.8	210.6±86.5	29.9±3.3	58.9±9.4	875.8±145.3
Male (n=29)	42.4±12.0	129.8±11.4	14.2±3.3	16.2±3.3	167.0±77.2	215.7±81.2	30.1±4.4	56.9±10.2	851.7±180.6
P value	0.321	0.204	1.000	1.000	1.000	1.000	0.827	0.439	0.620
Age (years)									
≥60 (n=13)	44.3±15.8	134.9±10.2	14.4±3.6	15.7±3.8	171.3±87.1	205.1±97.0	29.2±5.2	52.0±9.9	758.2±189.6
<60 (n=53)	42.3±9.4	129.1±12.6	13.8±3.5	16.2±3.3	159.3±79.5	214.8±80.9	30.2±3.4	59.5±9.2	891.5±143.1
P value	0.536	0.459	1.000	1.000	1.000	1.000	0.903	0.083	0.063
BMI (kg/m ²)									
≥25 (n=22)	40.9±8.6	130.6±11.7	13.4±3.2	15.6±3.2	149.2±73.7	198.7±76.5	29.5±4.4	58.5±9.0	863.6±184.4
<25 (n=44)	43.6±11.8	130.1±12.7	14.2±3.6	16.4±3.5	168.0±83.8	220.0±86.9	30.2±3.4	57.7±10.2	866.0±150.0
P value	0.433	0.931	0.794	0.192	0.794	0.192	0.931	0.931	0.794

DSVC, double superior vena cava; RSCV-L/LSCV-L, right/left superior vena cava length; RSCV-D/LSCV-D, right/left superior vena cava diameter; RSCV, right superior vena cava; LSCV, left superior vena cava; CSOD, diameter of coronary sinus ostium; CSL, length of coronary sinus; CSOA, area of coronary sinus ostium.

Table S2 Subgroup analysis of bilateral SVC and quantitative coronary sinus measurements according to gender, age, and BMI: type II (N=43)

Subgroups	RSCV-L (mm)	LSCV-L (mm)	RSCV-D (mm)	LSCV-D (mm)	RSCV-A (mm ²)	LSCV-A (mm ²)	CSOD (mm)	CSL (mm)	CSOA (mm ²)
Gender									
Female (n=19)	38.5±6.8	130.9±12.7	15.4±3.3	14.6±3.8	195.4±81.5	179.1±90.4	29.1±3.7	54.0±7.7	779.2±97.7
Male (n=24)	47.5±10.4	129.5±12.4	15.4±3.9	14.6±3.4	196.8±91.4	176.8±78.7	27.0±3.5	53.9±10.4	724.4±154.4
P value	0.088	0.892	0.892	0.892	0.892	0.892	0.683	0.836	0.172
Age (years)									
≥60 (n=10)	38.9±7.4	127.6±11.6	15.4±3.5	13.2±3.3	194.5±82.0	143.6±71.2	27.8±2.5	52.2±9.4	724.8±148.2
<60 (n=33)	44.9±10.3	130.9±12.8	15.4±3.7	15.1±3.6	196.7±88.6	188.2±84.5	28.0±4.0	54.5±9.2	755.8±130.8
P value	0.782	0.782	0.782	0.318	0.782	0.318	0.539	0.405	0.782
BMI (kg/m ²)									
≥25 (n=16)	46±10.3	129.7±12.1	15.2±3.9	13.8±3.1	191.5±90.8	156.1±68.9	27.1±3.0	54.2±10.8	732.9±167.2
<25 (n=27)	42.0±9.7	130.4±12.9	15.5±3.5	15.1±3.7	199.0±85.0	190.7±89.1	28.5±4.0	53.8±8.3	757.9±112.1
P value	0.287	0.843	0.843	0.843	0.843	0.843	0.971	0.971	0.843

DSVC, double superior vena cava; RSCV-L/LSCV-L, right/left superior vena cava length; RSCV-D/LSCV-D, right/left superior vena cava diameter; RSCV, right superior vena cava; LSCV, left superior vena cava; CSOD, diameter of coronary sinus ostium; CSL, length of coronary sinus; CSOA, area of coronary sinus ostium.

Table S3 Subgroup analysis of bilateral SVC and quantitative coronary sinus measurements according to gender, age, and BMI: type III (N=15)

Subgroups	RSCV-L (mm)	LSCV-L (mm)	RSCV-D (mm)	LSCV-D (mm)	RSCV-A (mm ²)	LSCV-A (mm ²)	CSOD (mm)	CSL (mm)	CSOA (mm ²)
Gender									
Female (n=6)	40.0±4.7	97.2±4.5	12.9±3.2	15.3±2.9	136.4±73.6	188.6±74.7	11.6±1.8	36.4±7.9	213.6±78.5
Male (n=9)	45.9±12.7	103.2±12.2	14.6±3.7	16.7±3.8	177.7±81.8	229.5±95.7	10.9±1.9	32.9±10.4	175.8±61.1
P value	0.608	0.608	0.608	0.608	0.608	0.608	0.315	1.000	0.315
Age (years)									
≥60 (n=6)	48.3±9.6	101.3±15.3	15.3±5.2	17.6±3.8	197.1±112.3	251.9±99.7	10.7±0.8	34.0±8.0	180.1±30.1
<60 (n=9)	42.3±10.7	100.7±9.4	13.6±3.2	15.8±3.4	152.2±71.7	203.4±86.2	11.3±2.0	34.3±10.0	193.7±76.0
P value	0.569	10.000	0.569	0.569	0.569	0.569	0.200	1.000	0.569
BMI (kg/m ²)									
≥25 (n=4)	38.5±6.8	100.5±9.5	16.4±2.5	18.7±2.4	214.3±60.5	277.2±65.6	10.2±2.2	38.4±10.0	199.4±84.5
<25 (n=11)	45.4±11.2	100.9±10.8	13.0±3.4	15.2±3.4	141.8±77.6	189.8±84.8	11.5±1.7	32.8±9.1	187.9±66.3
P value	1.000	1.000	0.282	0.282	0.282	0.282	0.569	0.282	1.000

DSVC, double superior vena cava; RSCV-L/LSCV-L, right/left superior vena cava length; RSCV-D/LSCV-D, right/left superior vena cava diameter; RSCV, right superior vena cava; LSCV, left superior vena cava; CSOD, diameter of coronary sinus ostium; CSL, length of coronary sinus; CSOA, area of coronary sinus ostium.

Table S4 Subgroup analysis of bilateral SVC and quantitative coronary sinus measurements according to gender, age, and BMI: type IV (N=4)

Subgroups	RSCV-L (mm)	LSCV-L (mm)	RSCV-D (mm)	LSCV-D (mm)	RSCV-A (mm ²)	LSCV-A (mm ²)	CSOD (mm)	CSL (mm)	CSOA (mm ²)
Gender									
Female (n=1)	39.9	97.0	18.8	18.6	277.6	271.7	10.8	28.9	156.2
Male (n=3)	45.2±11.1	102.0±12.5	14.3±3.3	13.4±3.1	167.0±69.9	146.1±64.8	11.6±2.5	36.0±13.2	214.6±116.8
P value	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Age (years)									
≥60 (n=1)	56.8	116.0	10.6	10.2	88.2	81.7	9.0	34.9	156.4
<60 (n=3)	39.6±4.8	95.7±3.2	17.1±1.6	16.2±2.5	230.1±43.8	209.4±63.2	12.2±1.6	34.0±13.9	214.6±116.8
P value	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
BMI (kg/m ²)									
≥25 (n=1)	44.3	92.0	15.6	13.6	191.1	145.3	11.8	23.4	138.5
<25 (n=3)	43.8±11.6	103.7±10.7	15.4±4.3	15.1±4.4	195.8±97.3	188.2±97.1	11.3±2.6	37.9±10.7	220.6±111.3
P value	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

DSVC, double superior vena cava; RSCV-L/LSCV-L, right/left superior vena cava length; RSCV-D/LSCV-D, right/left superior vena cava diameter; RSCV, right superior vena cava; LSCV, left superior vena cava; CSOD, diameter of coronary sinus ostium; CSL, length of coronary sinus; CSOA, area of coronary sinus ostium.