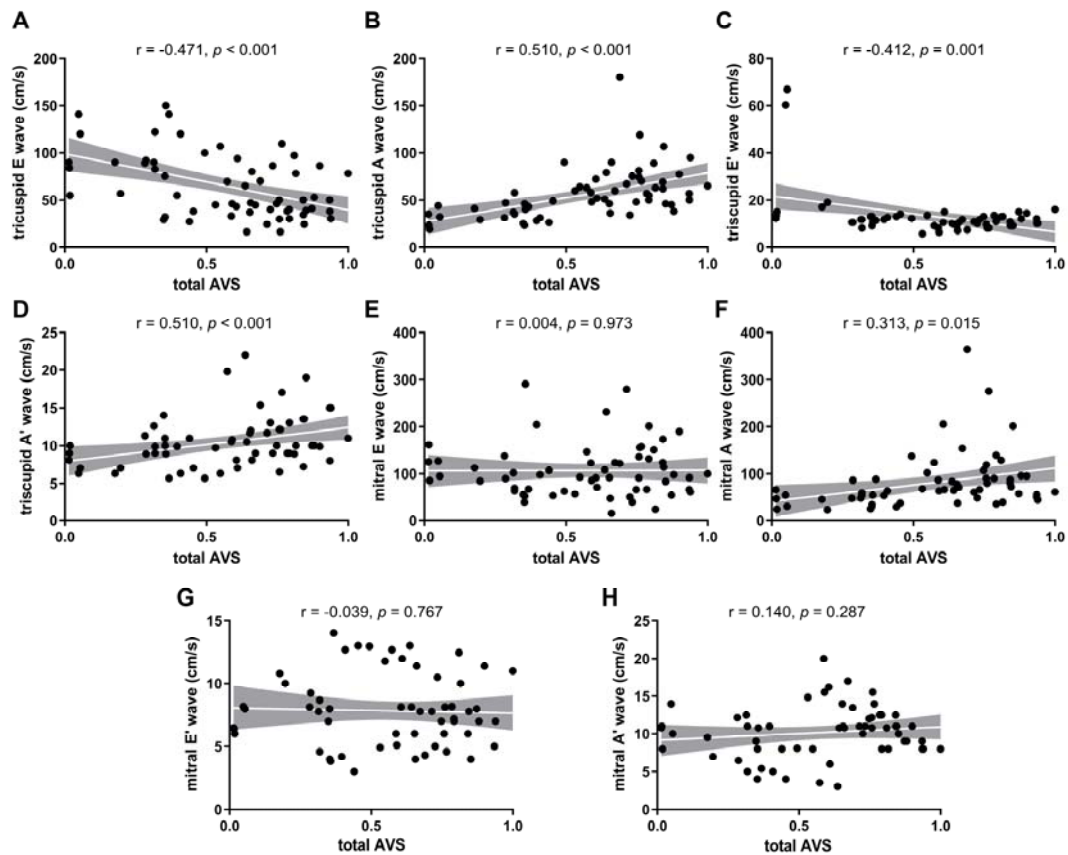


Supplemental material

Supplemental Figure 1. Correlation between right atrial or left atrial E wave/A wave/E' wave/A' wave and AVS percentage.

Tricuspid E-wave showed negative correlation with AVS percentage ($r = -0.471$, 95% CI: -0.647 to -0.246, $p < 0.001$) (Supplemental Figure 1A), and tricuspid A-wave showed positive correlation with AVS percentage ($r = 0.510$, 95% CI: 0.294 to 0.676, $p < 0.001$) (Supplemental Figure 1B). Tricuspid E'-wave showed negative correlation with AVS percentage ($r = -0.412$, 95% CI: -0.603 to -0.176, $p = 0.001$) (Supplemental Figure 1C), and tricuspid A'-wave showed positive correlation with AVS percentage ($r = 0.347$, 95% CI: 0.103 to 0.553, $p = 0.007$) (Supplemental Figure 1D). Mitral E-wave showed no correlation with AVS percentage ($r = 0.004$, 95% CI: -0.250 to 0.258, $p = 0.973$) (Supplemental Figure 1E), and mitral A-wave showed positive correlation with AVS percentage ($r = 0.313$, 95% CI: 0.065 to 0.526, $p = 0.015$) (Supplemental Figure 1F). Mitral E'-wave showed no correlation with AVS percentage ($r = -0.039$, 95% CI: -0.290 to 0.217, $p = 0.767$) (Supplemental Figure 1G), and mitral A'-wave showed no correlation with AVS percentage ($r = 0.140$, 95% CI: -0.119 to 0.380, $p = 0.287$) (Supplemental Figure 1H).



Supplemental Figure 2. Correlation between right atrial or left atrial LSR/RSR and AVS percentage.

Right atrial LSR ($r = -0.112$, 95% CI: -0.356 to 0.146 , $p = 0.393$) (Supplemental Figure 2A) and RSR ($r = 0.154$, 95% CI: -0.104 to 0.146 , $p = 0.393$) (Supplemental Figure 2B) showed no correlation with AVS. Likewise, left atrial LSR ($r = -0.244$, 95% CI: -0.469 to 0.010 , $p = 0.060$) (Supplemental Figure 2C) and RSR ($r = -0.214$, 95% CI: -0.443 to 0.043 , $p = 0.101$) (Supplemental Figure 2D) showed no correlation with AVS, either.

