

Supplementary Materials

Table S1. Comparison of stiffness indices (SIs) based on digital volume pulse from original pulse wave and IMF5 after EEMD [13,14].

| Healthy Subject | Age | Height (m) | ΔT (sec) | SI (m/sec) | ΔT with IMF5 | SI with IMF5 |
|-----------------|-----|------------|------------------|------------|----------------------|--------------|
| A | 24 | 1.73 | 0.235 | 7.36 | 0.205 | 8.44 |
| B | 52 | 1.70 | 0.180 | 9.44 | 0.231 | 7.36* |
| C | 63 | 1.65 | 0.160 | 10.30 | 0.248 | 6.65* |

* According to definition of arterial stiffness, the older subjects had higher SI values.

Table S2. Stiffness index values based on pressure pulse among four different groups [15]; ΔT defined as in Figure 1 using only IMF5.

| Parameter | Younger subjects | Older subjects | Well-controlled diabetes | Poorly controlled diabetes |
|----------------------|------------------|-----------------|--------------------------|----------------------------|
| SI for IMF5, (m/sec) | 4.83 ± 0.63 | 3.52 ± 0.66 | $3.22 \pm 0.41^{\#}$ | $2.77 \pm 0.58^{\#}$ |

[#] According to definition of arterial stiffness, the subjects with T2DM should have significantly higher SI values.