

in collaboration with
Centro di Simulazione Numerica Avanzata – CeSNA
Istituto Universitario di Studi Superiori

Reduction of aortic stiffness by an external passive elastic wrap

Age-related stiffening of the aorta is a major cause of isolated systolic hypertension. Reduction of aortic stiffness can be obtained by an elastic aortic wrap (AW) where reducing ascending aortic (AA) diameter unloads the wall, increases compliance, and reduces pulse pressure (PP). In our studies the effects of the AW on AA distensibility and pulse pressure were investigated in *in vitro* models.

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