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Abstract
Under the environment with developments of new technologies, modern medicine keeps advancing. Traditional concept of medical treatment is change gradually from cure after sick happen to pre-examination or pre-protection. Many researchers believe that prior evaluations of sick reasons and take early care can reduce dangers and possible complications. Pulse wave velocity (PWV) was correlated well with the degree of arteriosclerosis, and PWV can be one of parameters during clinical evaluation of arteriosclerosis. The study proposes a PWV measurement system that it can measure simultaneously the PWV, which form heart to four extremities by the location of electrocardiogram. The differences of the PWV, which from heart to four extremities, were observed and the comparisons of correlations were tested. Besides, the PWV were compared with the PWV, which from different sites (finger and toe). The differences of two evaluated PWV methods were also assessed. To improve the precision of measured value, the system with high sample rate during long-term measurement. The study expected to provide more complete method for evaluation of PWV, and to understand the differences between different measure methods.
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