

NON – INVASIVE BLOOD PRESSURE MEASUREMENT

FROM PPG

A continuous, non-invasive, non-encumbering method to measure variations in blood pressure has several applications in psychophysiology. For example exposure to a stressful situation will produce changes in cardiovascular systems such as heart rate, blood pressure etc. There is a need to assess blood pressure under field conditions when current technology with an auscultatory cuff is not feasible. One such measure is Pulse Transit Time (PTT). The PTT is generally assumed to be a good surrogate measure to comfortably track blood pressure and blood pressure changes. It is a non-invasive, cuff less and painless technique that deploys infrared light to detect small variations in blood volume in tissues with each cardiac cycle. The PTT of various individuals are determined and the relation between PTT and BP can be deduced.

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