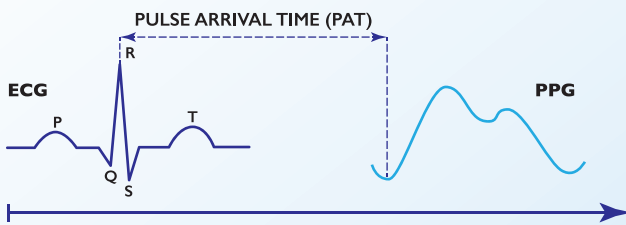


UNDERSTANDING CNIBP

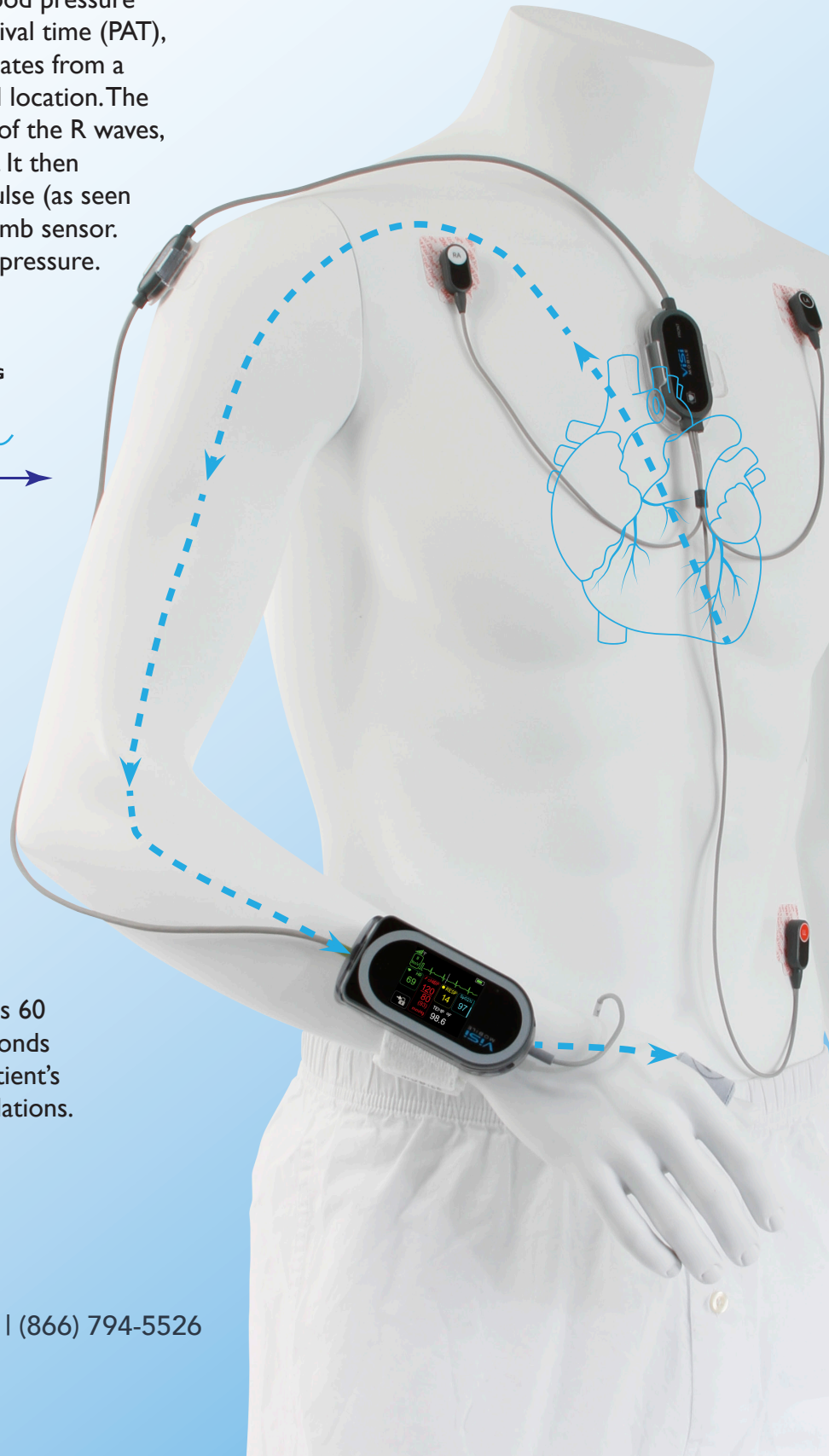
Continuous Non-Invasive Blood Pressure



The ViSi Mobile continuous non-invasive blood pressure (cNIBP) measurement is based on pulse arrival time (PAT), which is the time it takes a pulse that originates from a cardiac contraction to arrive at a peripheral location. The ViSi Mobile chest sensor detects the onset of the R waves, which correlates to ventricular contraction. It then measures the time to create a peripheral pulse (as seen on the pleth) from the ViSi Mobile SpO2 thumb sensor. The shorter the time, the higher the blood pressure.



Since every patient has a different cardiovascular profile, an initial “calibration measurement” is taken by means of a cuff-based measurement. For this, you use a standard FlexiPort cuff with the ViSi Mobile cuff module attached to it. This measurement is taken on inflation, during which a “patient-specific cardiovascular profile” is created. Once completed, the upper arm cuff can be removed. The profile allows ViSi Mobile to measure blood pressure on a beat-to-beat basis, continuously. cNIBP is continuously displayed based on averaging PAT calculations from the previous 60 seconds, updating the value every three seconds on the ViSi Mobile monitor worn on the patient’s wrist without the need for frequent cuff inflations.



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