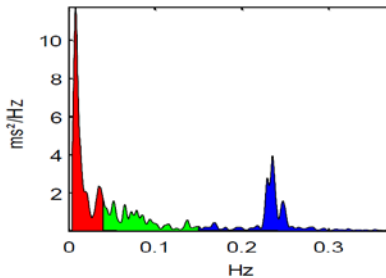




Research & Validity

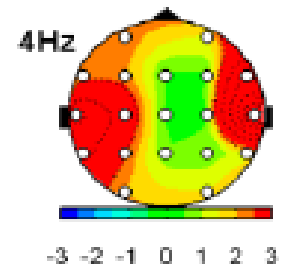
Why does Evoke offer HRV testing?



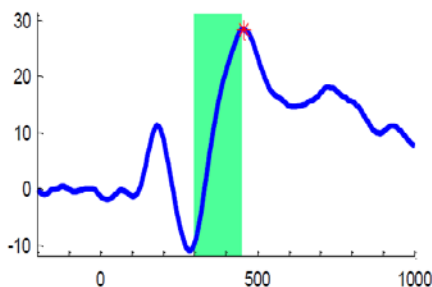
- Heart rate variability (HRV) time domain (SDNN) and frequency domain (VLF/LF/HF) measures derived from ECG data are linked to anxiety and stress-related conditions and cognitive decline.¹
- Low HRV predicts heart disease incidence and is linked to cognitive impairment.²⁻⁶

Why does Evoke offer EEG with normative database comparison testing?

- The resting brain speed (alpha) is a reliable marker of cognitive capacity and for early detection of mild cognitive decline.^{7,8}
- EEG shows how well-functioning brain regions compensate for dysfunctional regions, which allows specific determination of varied treatments and an ability to track changes over time.⁹
- EEG analysis can identify the specific electrical frequency markers of physiological aging and memory performance.¹⁰⁻¹²



Why does Evoke offer advanced ERP testing?



- Event-Related Potentials (ERP) measure real-time cognitive processing essential for healthy brain functions and early risk measures of dementia, including:
 - Decision making, attention, memory (N2, P3a, and P3b)¹³⁻¹⁸
 - Visual processing (P1, P2)¹⁹
 - Language processing (N4, P6)^{20,21}
- Inattention, impulsivity, motor processing speed, and reaction time linked to cognitive impairment are also measurable using ERP testing.²²

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