# **Individual Stress Response Clinical Assessment**

## Subject ID: S9 | WESAD Multimodal Analysis

Analysis Date: August 22, 2025 | Sessions Analyzed: 97 | Report Generated by: WESAD Analysis System

### **Subject Information**

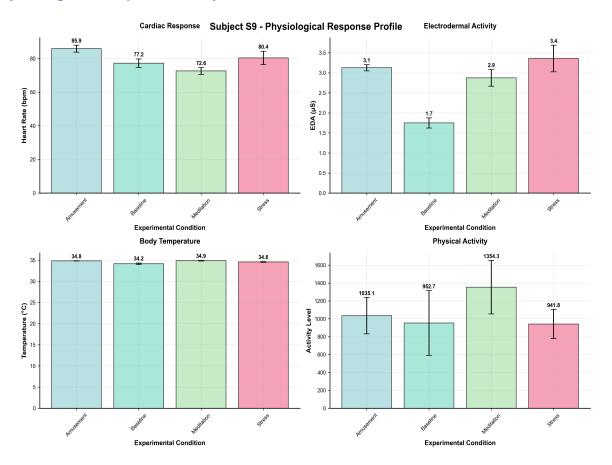
| Subject ID         | S9                                      |  |
|--------------------|---|--|
| Age                | 26 years                                |  |
| Gender             | Male                                    |  |
| ВМІ                | 22.9 kg/m²                              |  |
| Height             | 181 cm                                  |  |
| Weight             | 75 kg                                   |  |
| Sessions Completed | 97                                      |  |
| Conditions Tested  | Baseline, Stress, Meditation, Amusement |  |

### **Executive Summary**

This report presents a comprehensive analysis of multimodal physiological responses for Subject S9, a 26-year-old male participant from the WESAD stress response study. The analysis encompasses baseline physiological measurements, acute stress response patterns, and recovery characteristics across multiple sensor modalities.

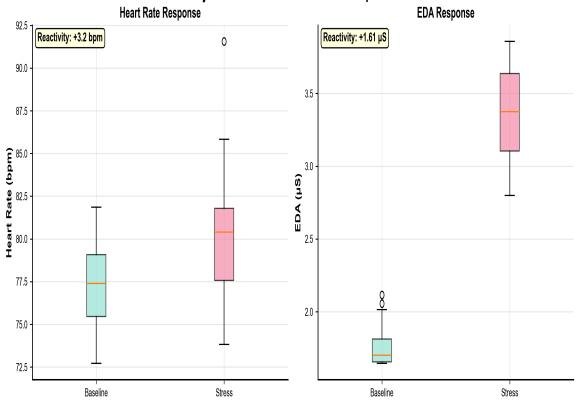
| Metric               | Value             | Clinical Interpretation |
|----------------------|-------------------|-------------------------|
| Resting Heart Rate   | 77.2 bpm          | Normal Range            |
| HR Stress Reactivity | +3.2 bpm (+4.1%)  | Unknown                 |
| EDA Stress Response  | +1.61 μS (+92.0%) | Unknown                 |
| Core Temperature     | 34.2°C            | Within Normal Range     |

## **Physiological Response Analysis**



**Stress Response Analysis** 

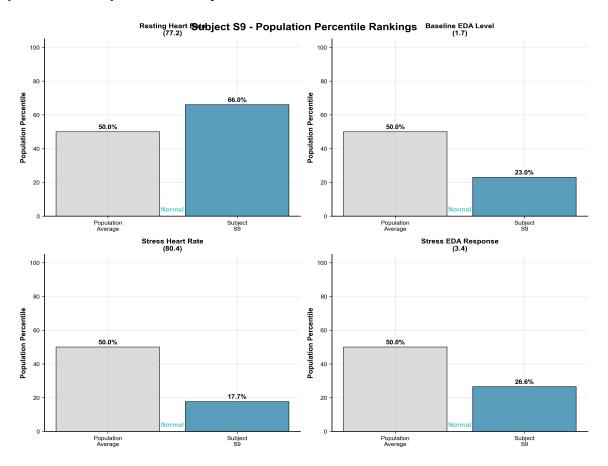
Subject S9 - Baseline vs Stress Response



### **Multimodal Sensor Analysis**

Subject S9 - Multimodal Sensor Analysis Heart Rate Response Temperature: Core vs Skin **Physical Activity Comparison** 1400 -Chest Movement
Wrist Movement 35 -80 1200 73 30 1000 941.81 **Temperature (°C)** Heart Rate (bpm) **Activity Level** 800 600 400 20 200 Chest (Core) 68.04 48.13 Wrist (Skin) 28.81 Stress Condition Condition Condition

### **Population Comparative Analysis**



#### **Clinical Interpretation & Recommendations**

#### **Overall Stress Response Assessment**

Stress Response Classification: NORMAL

Normal stress response profile with typical physiological responses across all measured parameters. The subject demonstrates healthy cardiovascular and sympathetic nervous system reactivity patterns that fall within expected population ranges. No clinical concerns identified.

#### **Key Findings**

- Heart Rate Stress Response: +3.2 bpm (+4.1% increase from baseline)
- Electrodermal Activity Response: +1.61 μS (+92.0% increase)
- Resting Heart Rate: 77.2 bpm (normal range)
- Population Ranking: 66.0th percentile for resting heart rate

#### Recommendations

- Continue current lifestyle and stress management practices
- Regular cardiovascular exercise to maintain healthy stress response patterns
- · Annual health monitoring to track physiological changes over time

#### **Report Analysis and Generation:**

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