Individual Stress Response Clinical Assessment

Subject ID: S15 | WESAD Multimodal Analysis

Analysis Date: August 22, 2025 | Sessions Analyzed: 96 | Report Generated by: WESAD Analysis System

Subject Information

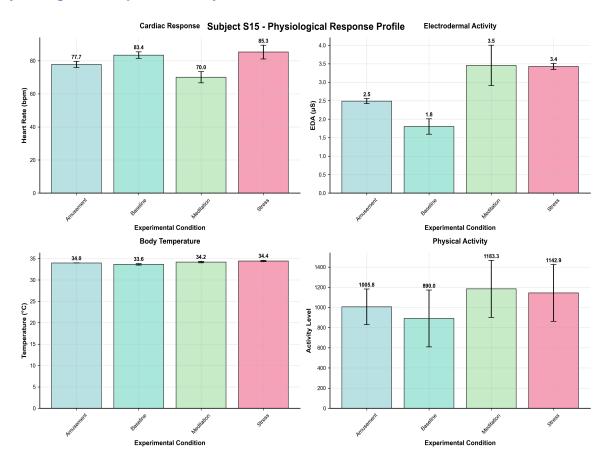
| Subject ID | S15 | |
|--------------------|---|--|
| Age | 28 years | |
| Gender | Male | |
| ВМІ | 24.0 kg/m² | |
| Height | 186 cm | |
| Weight | 83 kg | |
| Sessions Completed | 96 | |
| Conditions Tested | Baseline, Amusement, Meditation, Stress | |

Executive Summary

This report presents a comprehensive analysis of multimodal physiological responses for Subject S15, a 28-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.

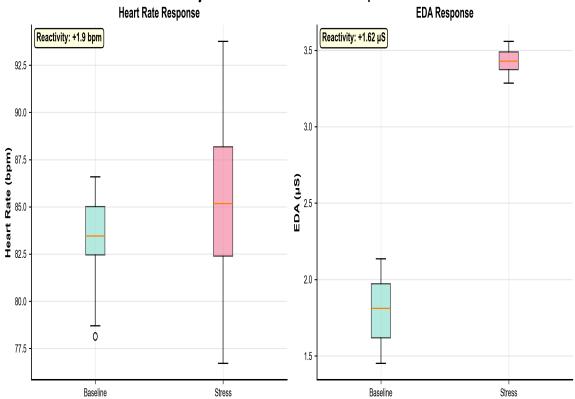
| Metric | Value | Clinical Interpretation |
|----------------------|-------------------|-------------------------|
| Resting Heart Rate | 83.4 bpm | Above Normal |
| HR Stress Reactivity | +1.9 bpm (+2.2%) | Unknown |
| EDA Stress Response | +1.62 μS (+90.2%) | Unknown |
| Core Temperature | 33.6°C | Within Normal Range |

Physiological Response Analysis



Stress Response Analysis

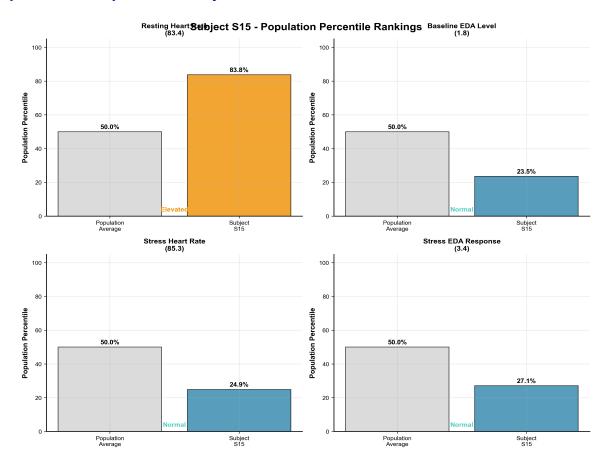
Subject S15 - Baseline vs Stress Response



Multimodal Sensor Analysis

Subject S15 - Multimodal Sensor Analysis **Heart Rate Response** Temperature: Core vs Skin **Physical Activity Comparison** 35 Chest Movement
Wrist Movement 80 1005.82 1000 70 **Temperature (°C)** Heart Rate (bpm) **Activity Level** 400 20 200 Chest (Core) 63.55 41.82 Wrist (Skin) Stress Condition Condition Condition

Population Comparative Analysis



Clinical Interpretation & Recommendations

Overall Stress Response Assessment

Stress Response Classification: MILD ELEVATION

Mildly elevated stress response with some parameters showing above-average reactivity: atypical resting heart rate (above normal). While not immediately concerning, these patterns may warrant monitoring and lifestyle interventions to optimize stress management.

Key Findings

- Heart Rate Stress Response: +1.9 bpm (+2.2% increase from baseline)
- Electrodermal Activity Response: +1.62 μS (+90.2% increase)
- Resting Heart Rate: 83.4 bpm (above normal)
- Population Ranking: 83.8th percentile for resting heart rate

Recommendations

- Implement stress reduction techniques such as mindfulness meditation or deep breathing exercises
- Evaluate work-life balance and identify potential chronic stressors
- Consider regular cardiovascular exercise to improve stress resilience
- Follow-up assessment in 6 months to monitor progress

Report Analysis and Generation:

Report Analysed and created by the following students of IIIT Allahabad,

Part of Big Data Analytics Course:

- Aditya Singh Mertia (IIT2022125) [iit2022125@iiita.ac.in]
- Rishabh Kumar (IIT2022131) [iit2022131@iiita.ac.in]
- Karan Singh (IIT2022132) [iit2022132@iiita.ac.in]
- Tejas Sharma (IIT2022161) [iit2022161@iiita.ac.in]

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