Individual Stress Response Clinical Assessment

Subject ID: S5 | WESAD Multimodal Analysis

Analysis Date: August 22, 2025 | Sessions Analyzed: 98 | Report Generated by: WESAD Analysis System

Subject Information

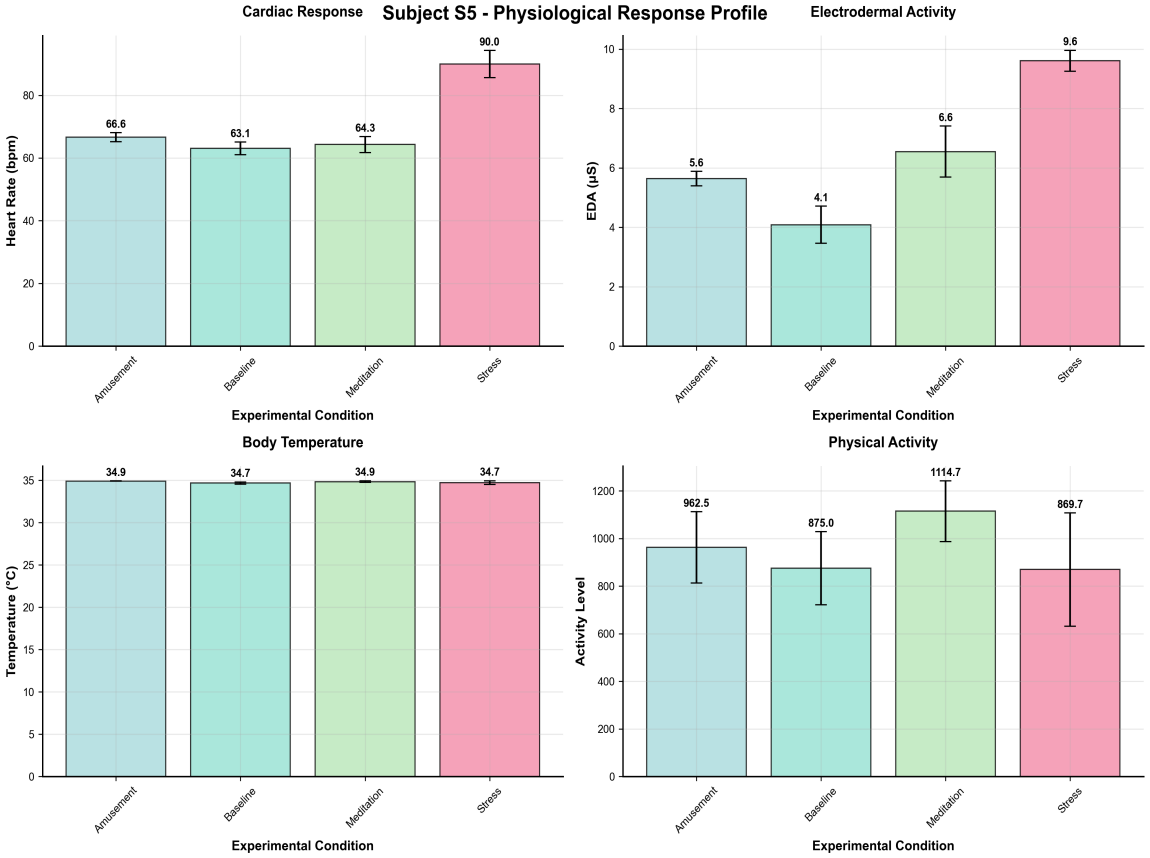
Subject ID	S5
Age	35 years
Gender	Male
BMI	22.4 kg/m²
Height	189 cm
Weight	80 kg
Sessions Completed	98
Conditions Tested	Baseline, Amusement, Meditation, Stress

Executive Summary

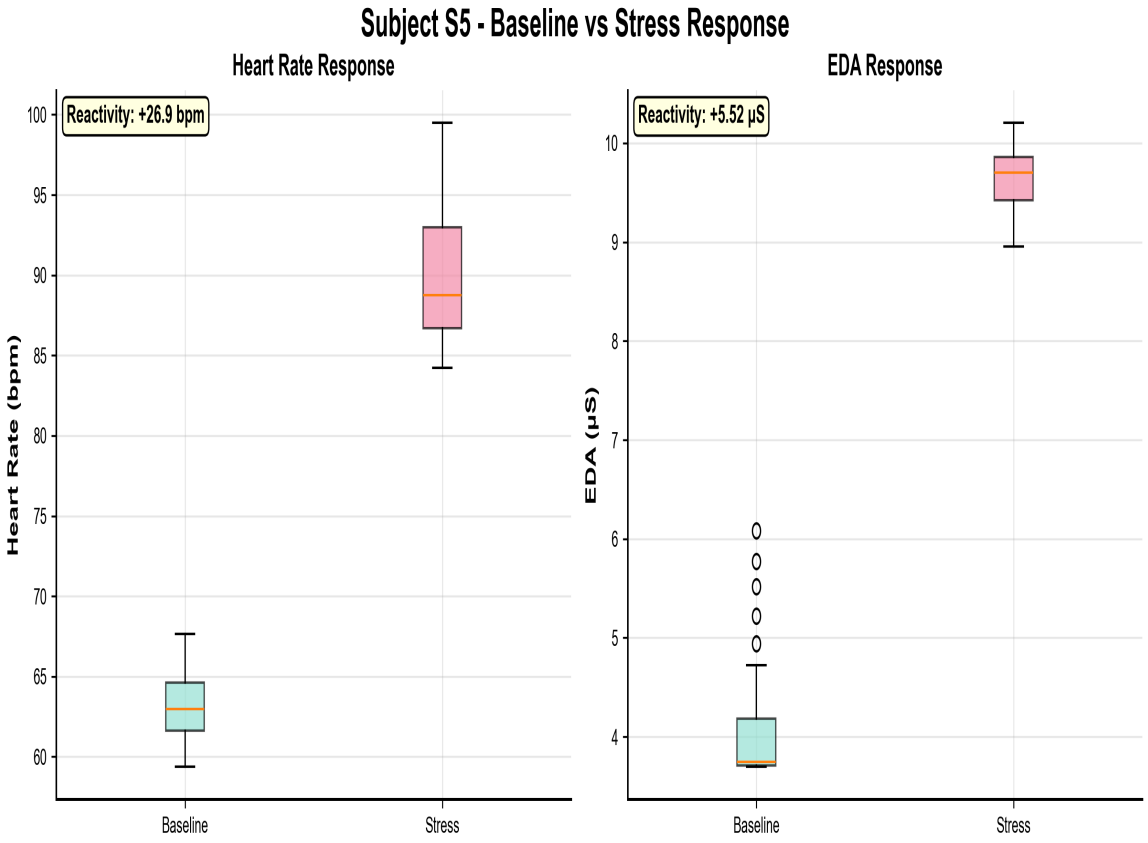
This report presents a comprehensive analysis of multimodal physiological responses for Subject S5, a 35-year-old male participant from the WESAD stress response study. The analysis encompasses baseline physiological measurements, acute stress response patterns, and recovery characteristics across multiple sensor modalities.

Metric	Value	Clinical Interpretation
Resting Heart Rate	63.1 bpm	Below Normal
HR Stress Reactivity	+26.9 bpm (+42.7%)	Unknown
EDA Stress Response	+5.52 µS (+135.0%)	Unknown
Core Temperature	34.7°C	Within Normal Range

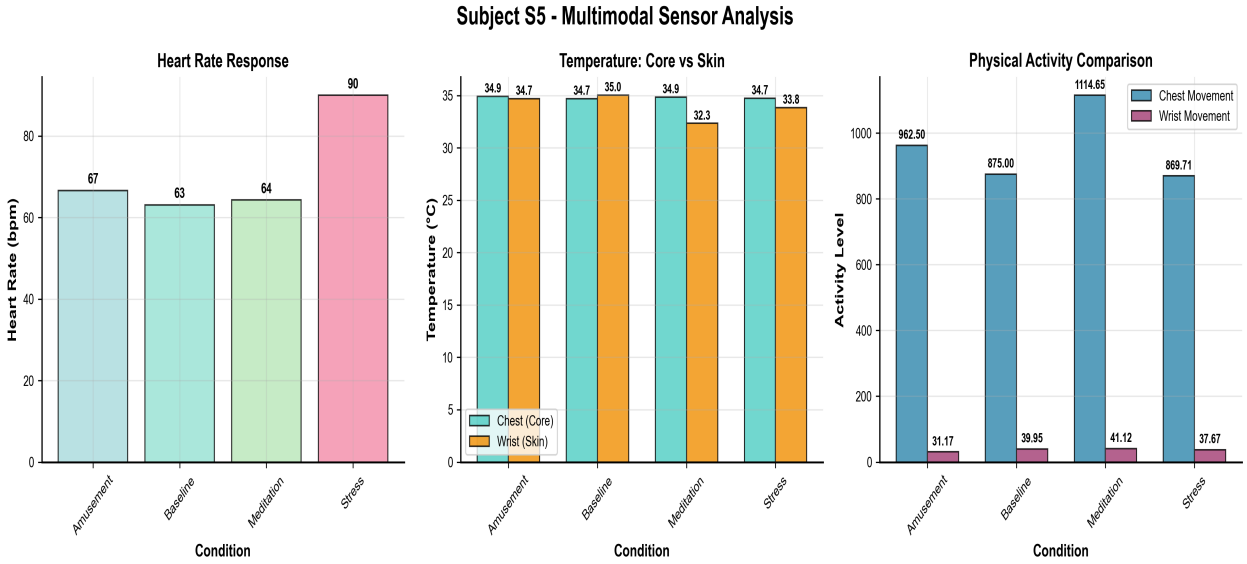
Physiological Response Analysis



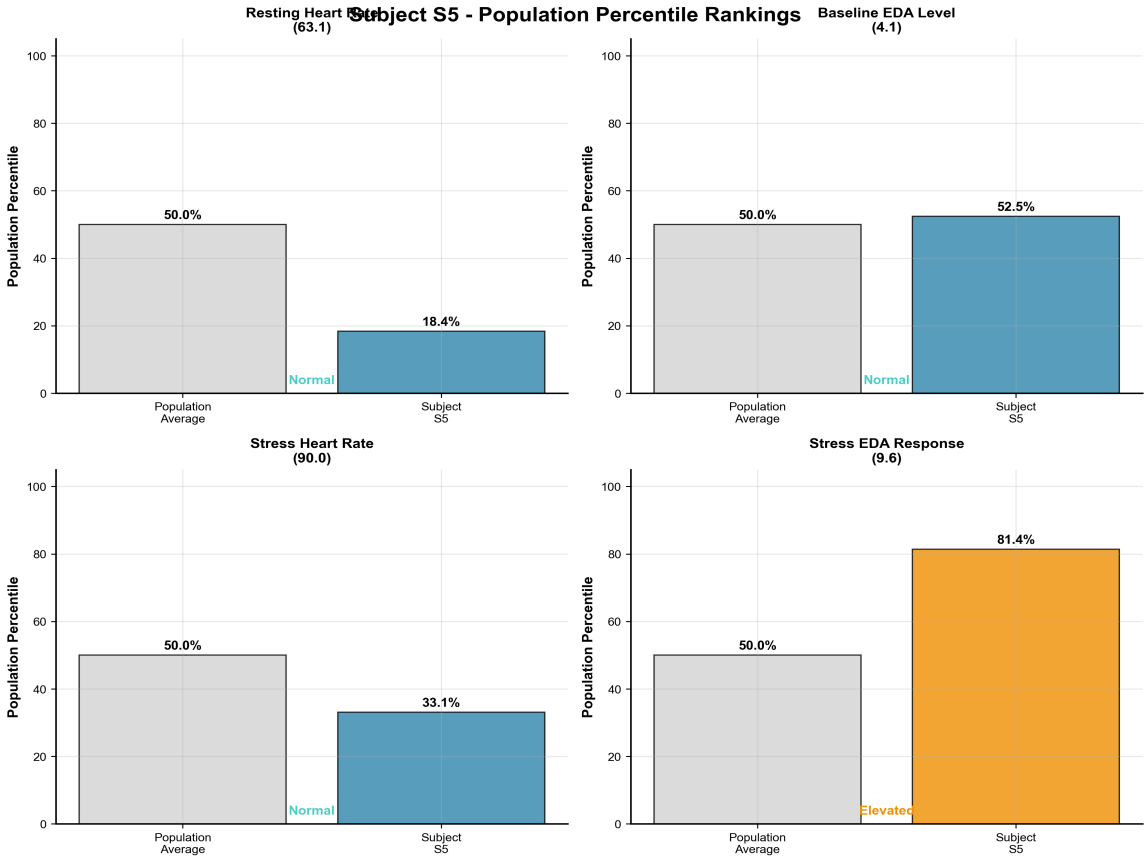
Stress Response Analysis


Subject S5 - Baseline vs Stress Response
Heart Rate Response
Reactivity: +26.9 bpm
Heart Rate (bpm)
100
95
90
85
80
75
70
65
60
Baseline
Stress
EDA Response
Reactivity: +5.52 µS
EDA (µS)
10
9
8
7
6
5
4
Baseline
Stress

Multimodal Sensor Analysis



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 (below normal). While not immediately concerning, these patterns may warrant monitoring and lifestyle interventions to optimize stress management.

Key Findings

• Heart Rate Stress Response: +26.9 bpm (+42.7% increase from baseline)

• Electrodermal Activity Response: +5.52 μS (+135.0% increase)

• Resting Heart Rate: 63.1 bpm (below normal)

• Population Ranking: 18.4th 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:

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