

Prediction Report Using EEG Data

PATIENT INFORMATION

Basic Details

Patient Name:	acb
Age:	5 years
Gender:	Female
Date of Birth:	2025-11-01
Report Generated:	November 05, 2025 at 04:32 PM
Report ID:	RPT-542934F5

EEG ANALYSIS & PREDICTION RESULTS

EEG Data Analysis

EEG Image File:	eeg_ead2ead4-b392-4603-addf-02257b143c70_eeg.jpg
Analysis Date:	November 05, 2025 at 04:32 PM
Model Used:	Deep Learning CNN Architecture
Input Resolution:	380x380 pixels
Analysis Type:	Treatment Response Prediction

PREDICTION OUTCOME

PREDICTION: Non-responder

EMOTION RECOGNITION RESULTS

Predicted Emotion	Neutral
Confidence	34.04%
Model Status	loaded:emotion_resnet50.h5
Class	Probability
Happy	32.8%
Neutral	34.0%
Sad	33.2%

COGNITIVE STATE ANALYSIS

Predicted State	Relax
Confidence	38.17%
Model Status	loaded:cognitive_model.keras
Class Probabilities	focus:30.2%, relax:38.2%, stress:31.6%
Recommendation	Light stretching and visualization to maintain calm.

CLINICAL INTERPRETATION

LIMITED TREATMENT RESPONSE INDICATED

The EEG analysis reveals neural patterns that suggest potential challenges with standard treatment approaches. The model indicates a 85.0% probability that this patient may not respond as expected to conventional therapeutic protocols.

Clinical Recommendations:

- Consider alternative treatment strategies
- Implement additional diagnostic assessments
- Explore personalized medicine approaches
- Monitor closely for any positive response indicators
- Consider consultation with specialists

Technical Details:

The analysis identified neural patterns that historically correlate with limited treatment response. While the confidence level is 85.0%, this prediction should be considered alongside other clinical factors and patient-specific considerations.

TECHNICAL SPECIFICATIONS

AI Model Details:

- Model Type: Convolutional Neural Network (CNN)
- Training Data: Extensive EEG dataset with treatment response outcomes
- Input Resolution: 380x380 pixels
- Model Status: Compatible
- Analysis Date: November 05, 2025 at 04:32 PM

Confidence Metrics:

- Raw Model Output: 0.4861
- Enhanced Probability: 0.2430
- Final Confidence: 85.00%