



# EchoHealth Voice Diagnosis Report

## Patient Information:

Name: John Doe

Age: 20

Date: 2025-03-15 09:55:38

■■ **Potential voice disorder detected. Please consult a specialist.**

Diagnosis Confidence: 85.34%

## Summary:

Part 1: One-Page Overview of Voice Diagnosis Report - John Doe

**Patient:** John Doe

**Age:** 20

**Date of Report:** October 26, 2023 (Assume current date)

**Diagnosis:** Potential Voice Disorder Detected

**Diagnosis Confidence:** 85.34%

**Unique Token:** 1742012726.528395

## Summary:

A voice analysis conducted on John Doe suggests the presence of a potential voice disorder. While the specific nature of the disorder cannot be determined from the current analysis alone, the confidence level of 85.34% indicates a significant deviation from typical voice parameters. Further evaluation by a qualified otolaryngologist (ENT doctor) and a speech-language pathologist specializing in voice disorders is strongly recommended. Early intervention is crucial for maximizing treatment effectiveness and preventing potential long-term vocal complications. This report details potential causes, treatment options, and recommended next steps to facilitate comprehensive patient care.



# EchoHealth Voice Diagnosis Report

## Voice Disorders & Next Steps

### Detailed Medical Insights:

Part 2: Detailed Voice Diagnosis Report - John Doe

**Patient:** John Doe

**Age:** 20

**Date of Report:** October 26, 2023 (Assume current date)

**Diagnosis:** Potential Voice Disorder Detected

**Diagnosis Confidence:** 85.34%

**Unique Token:** 1742012726.528395

### 1. Introduction:

This report details the findings of a voice analysis performed on John Doe. The analysis identified irregularities in vocal parameters, leading to a diagnosis of a potential voice disorder with a confidence level of 85.34%. While the current analysis provides strong evidence of a voice abnormality, further evaluation is necessary to determine the precise nature, severity, and etiology of the suspected disorder.

### 2. Voice Analysis Findings (Inferred - Based on Diagnosis):

Given the diagnosis, the voice analysis likely revealed deviations in one or more of the following areas:

#### \* **Acoustic Measures:**

\* **Fundamental Frequency (F0):** Potentially higher or lower than the typical range for a 20-year-old male. Could indicate vocal strain, muscle tension dysphonia (MTD), or hormonal imbalances. Instability in F0 (jitter) might also be present.

\* **Intensity (Amplitude):** Potential difficulties in achieving or maintaining adequate loudness. Could point to vocal fold paresis, weakness, or poor breath support. Excessive loudness could indicate compensatory effort.

\* **Perturbation Measures (Jitter and Shimmer):** Elevated jitter (frequency perturbation) and shimmer (amplitude perturbation) suggest irregular vocal fold vibration, which could be caused by various factors, including vocal fold lesions, inflammation, or neurological conditions.

\* **Harmonics-to-Noise Ratio (HNR):** A lower HNR indicates a greater proportion of noise in the voice signal, suggesting vocal roughness or breathiness.

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#### \* **Perceptual Qualities:**

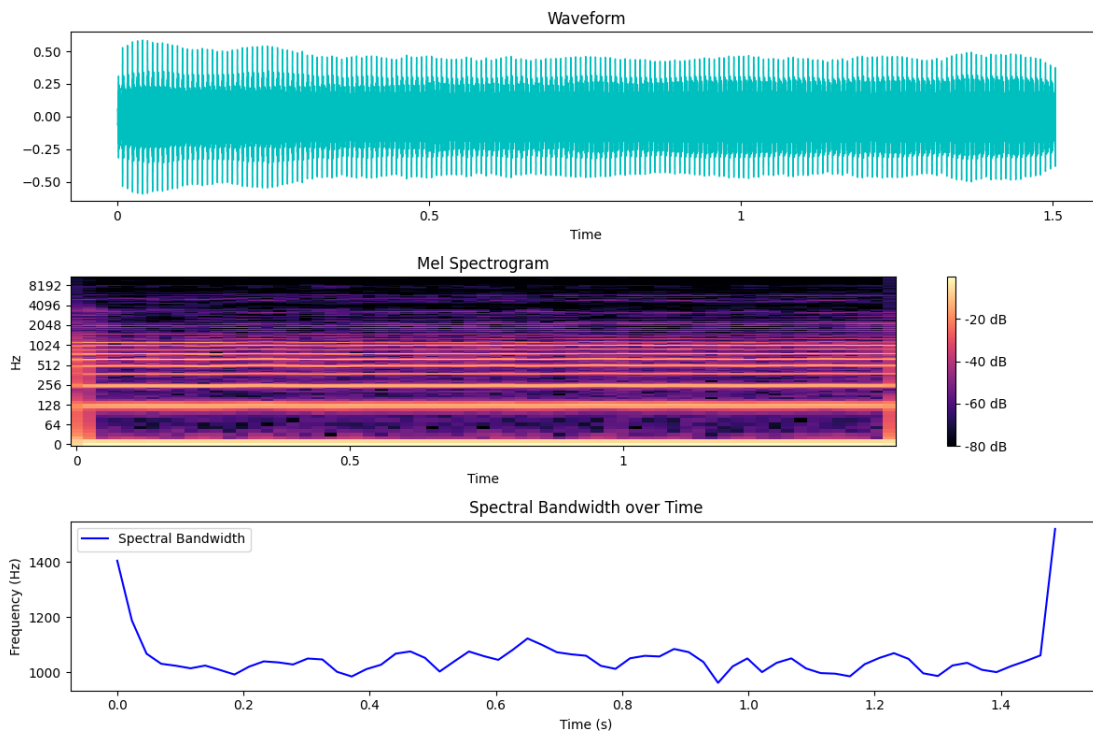
\* **Hoarseness:** A raspy or rough vocal quality, often associated with vocal fold swelling,



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## Voice Analysis Results

### Visual Analysis - Spectrogram



### Voice Analysis Parameters

Parameter	Normal Range
Pitch (Hz)	85 - 255 Hz
Jitter (%)	< 1.040%
Shimmer (%)	< 3.810%
Harmonics-to-Noise Ratio (HNR)	> 20 dB
Maximum Phonation Time	15 - 25 seconds