



# AI Diagnostic Report

Disease Module: Heart | Prediction: High Risk

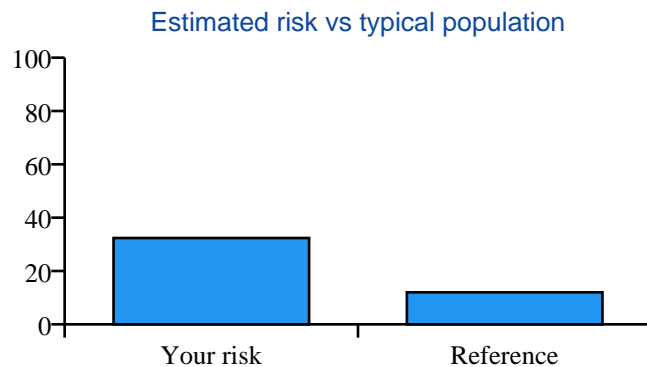
## Summary Findings

Condition evaluated	Heart
Prediction label	High Risk
Estimated probability	32.37 %

## Clinical Context

This section summarises the model’s estimate of coronary artery disease (CAD) risk based on your entered heart-related parameters (blood pressure, cholesterol, exercise tolerance and related features). The score is intended to support, not replace, a full clinical assessment.

## Risk Visualisation



The bar chart compares your estimated risk with a rough reference risk in a general adult population. It is not a formal epidemiological estimate but helps visualise relative risk.

# Model Evidence & Feature Analysis

## Key Feature Comparisons

Feature	Your value	Normal min	Normal max	Status
age	22.0	18	40	normal
trestbps	150.0	90	130	high
chol	300.0	125	200	high
thalach	200.0	100	180	high

Values outside the typical reference range are flagged in the status column. These ranges are approximate and may differ from laboratory-specific reference values.

## AI-Generated Advisory

### Clinical Interpretation:

Your results indicate a "high risk" cardiovascular risk profile, estimated at 32%. While this does not diagnose heart disease, it suggests the need for monitoring and possibly further evaluation.

### Recommended Follow-ups:

- Check blood pressure, lipid profile, and consider an ECG.
- Discuss your risk factors with a cardiologist if symptoms are present.
- Track chest discomfort, exertional breathlessness, or palpitations.

### General Care Tips:

- Reduce salt intake and avoid smoking.
- Practice moderate physical activity most days of the week.
- Maintain a heart-healthy diet rich in fruits and fiber.

## Important Notes

This report was generated by an AI-based clinical decision-support system. The outputs are probabilistic estimates and pattern interpretations based on the data you provided and model training datasets. They do NOT constitute a diagnosis. All decisions about investigations, treatment and follow-up must be made by a licensed healthcare professional who can review your full medical history, examination findings and additional test results. If you have concerning or rapidly worsening symptoms, seek urgent medical care regardless of the values shown in this report.